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**1.262 boom 0.4.2-0.4.2**  
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- 1.307 destroy 1.0.4-1.0.4**
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  - 1.464.1 Available under license
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- 1.466 es6-promise 3.2.1-3.2.1**
  - 1.466.1 Available under license
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  - 1.467.1 Available under license
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  - 1.470.1 Available under license
- 1.471 escape-string-regexp 1.0.5-1.0.5**
  - 1.471.1 Available under license
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**1.487 amcharts3-dataloader 1.0.16-1.0.16**  
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## 1.19 repeat-string 1.6.1-1.6.1

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## 1.50 webfontloader 1.6.28-1.6.28

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## 1.53 base 0.11.2-0.11.2

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## 1.67 component-emitter 1.2.1-1.2.1

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## 1.115 dom-helpers 3.4.0-3.4.0

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1019207484\_1591356897.67/0/brorand-1-1-0-tgz/package/README.md

# 1.155 jsbn 0.1.1-0.1.1

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## 1.159 amcharts3-responsive 1.0.3-1.0.3

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\* /opt/ws\_local/PERMITS\_SQL/1019208090\_1594785587.59/0/miller-rabin-4-0-1-tgz/package/README.md

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# 1.174 kareem 1.5.0-1.5.0

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## 1.186 xmlhttprequest-ssl 1.5.5-1.5.5

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// Original can be found at:

// <https://bitbucket.org/lindenlab/llsd>

// Modifications by Joshua Bell [inexorabletaash@gmail.com](mailto:inexorabletaash@gmail.com)

// <https://github.com/inexorabletaash/polyfill>

// ES3/ES5 implementation of the Khronos Typed Array Specification

// Ref: <http://www.khronos.org/registry/typedarray/specs/latest/>

// Date: 2011-02-01

//

// Variations:

// \* Allows typed\_array.get/set() as alias for subscripts (typed\_array[])

# 1.223 negotiator 0.6.1-0.6.1

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# 1.261 react-is 16.8.3-16.8.3

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## 1.297 path-to-regexp 0.1.7-0.1.7

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## 1.303 tunnel-agent 0.6.0-0.6.0

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## 1.305 debug 2.2.0-2.2.0

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## 1.309 amcharts3-animate 1.1.2-1.1.2

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\* /opt/ws\_local/PERMITS\_SQL/1019208040\_1591851362.94/0/raw-loader-0-5-1-tgz/package/index.js

# 1.322 forwarded 0.1.2-0.1.2

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## 1.323 ecdsa-sig-formatter 1.0.11-1.0.11

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\* /opt/ws\_local/PERMITS\_SQL/1019207699\_1591375627.94/0/memory-fs-0-4-1-tgz/package/lib/MemoryFileSystem.js

# 1.343 to-regexp 3.0.2-3.0.2

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## 1.345 assert-plus 0.1.5-0.1.5

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## 1.381 xmlhttprequest-ssl 1.5.3-1.5.3

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## 1.387 better-assert 1.0.2-1.0.2

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## 1.388 split-string 3.1.0-3.1.0

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## 1.389 http-signature 1.2.0-1.2.0

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# 1.393 process-nextick-args 1.0.7-1.0.7

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## 1.403 jwt-decode 2.2.0-2.2.0

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# 1.404 minimalistic-crypto-utils 1.0.1-1.0.1

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```
# minimalistic-crypto-utils
```

```
[![Build Status](https://secure.travis-ci.org/indutny/minimalistic-crypto-utils.svg)](http://travis-ci.org/indutny/minimalistic-crypto-utils)
```

```
[![NPM version](https://badge.fury.io/js/minimalistic-crypto-utils.svg)](http://badge.fury.io/js/minimalistic-crypto-utils)
```

Very minimal utils that are required in order to write reasonable JS-only crypto module.

```
## Usage
```

```
```js
```

```
const utils = require('minimalistic-crypto-utils');
```

```
utils.toArray('abcd', 'hex');
```

```
utils.encode([ 1, 2, 3, 4 ], 'hex');
```

```
utils.toHex([ 1, 2, 3, 4 ]);
```

```
```
```

```
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```

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[0]: <http://tools.ietf.org/html/rfc6979>  
[1]: <https://github.com/indutny/bn.js>  
[2]: <https://github.com/indutny/hash.js>  
[3]: <https://github.com/bitchan/eccrypto>  
[4]: <https://github.com/wanderer/secp256k1-node>

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1019206142\_1591375931.7/0/minimalistic-crypto-utils-1-0-1-tgz/package/README.md

## 1.405 finalhandler 0.4.1-0.4.1

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\* /opt/ws\_local/PERMITS\_SQL/1019206499\_1591358789.41/0/constants-browserify-1-0-0-tgz/package/README.md

# 1.407 ienopen 1.0.0-1.0.0

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/*
```

```
cycle.js  
2013-02-19
```

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*/
```

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## 1.552 mongoose 4.13.20-4.13.20

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## 1.553 string-capitalize 1.0.1-1.0.1

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## 1.554 @mapbox/polyline 1.0.0-1.0.0

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## 1.555 mini-create-react-context 0.4.0-0.4.0

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## 1.556 p-try 2.2.0-2.2.0

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# 1.557 @webassemblyjs/helper-module-context 1.9.0-1.9.0

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# 1.558 qs 6.9.1-6.9.1

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## 1.559 sindresorhus-is 0.7.0-0.7.0

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## 1.560 cliui 6.0.0-6.0.0

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## 1.561 psl 1.7.0-1.7.0

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## 1.562 stream-shift 1.0.1-1.0.1

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## 1.563 type-is 1.6.18-1.6.18

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## 1.564 @types/parse-json 4.0.0-4.0.0

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## 1.565 murmurhash-js 1.0.0-1.0.0

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# 1.566 @mapbox/vector-tile 1.3.1-1.3.1

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# 1.567 cacache 12.0.4-12.0.4

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## 1.568 file-uri-to-path 1.0.0-1.0.0

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## 1.569 compressible 2.0.18-2.0.18

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## 1.570 big.js 3.2.0-3.2.0

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## 1.571 backbone 1.4.0-1.4.0

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## 1.572 mimic-response 1.0.1-1.0.1

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# 1.573 combined-stream 1.0.8-1.0.8

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# 1.574 @mapbox/mapbox-gl-style-spec

## 13.12.0-13.12.0

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```
{"version":3,"file":"index.es.js","sources":["../../node_modules/json-stringify-pretty-compact/index.js","../format.js","../../node_modules/url/node_modules/punycode/punycode.js","../../node_modules/url/util.js","../../node_modules/querystring/decode.js","../../node_modules/querystring/encode.js","../../node_modules/querystring/index.js","../../node_modules/url/url.js","../visit.js","../migrate/v8.js","../util/extend.js","../expression/parsing_error.js","../expression/scope.js","../expression/types.js","../../node_modules/csscolorparser/csscolorparser.js","../util/color.js","../expression/types/collator.js","../expression/types/formatted.js","../expression/types/resolved_image.js","../expression/values.js","../expression/definitions/literal.js","../expression/runtime_error.js","../expression/definitions/assertion.js","../expression/definitions/format.js","../expression/definitions/image.js","../expression/definitions/coercion.js","../expression/evaluation_context.js","../expression/compound_expression.js","../expression/definitions/collator.js","../expression/is_constant.js","../expression/definitions/var.js","../expression/parsing_context.js","../expression/stops.js","../expression/definitions/step.js","../../node_modules/@mapbox/unitbezier/index.js","../util/interpolate.js","../util/color_spaces.js","../expression/definitions/interpolate.js","../expression/definitions/coalesce.js","../expression/definitions/let.js","../expression/definitions/at.js","../expression/definitions/in.js","../expression/definitions/match.js","../expression/definitions/case.js","../expression/definitions/comparison.js","../expression/defini
```







```

Unicode symbols (e.g. a domain name label) to a Punycode string of ASCII-only symbols.
@param {String} input The string of Unicode symbols.
@returns {String} The resulting Punycode string of ASCII-only symbols.
function
  encode(input) {
    let n, delta, handledCPCCount, basicLength, bias, j, m, q, k, t, currentValue, output = [], inputLength;
    // `inputLength` will hold the number of code points in `input`.
    // Cached calculation results
    handledCPCCountPlusOne, baseMinusT, qMinusT;
    // Convert the input in UCS-2 to Unicode
    input = ucs2decode(input);
    // Cache the length
    inputLength = input.length;
    // Initialize the state
    tn = initialN;
    delta = 0;
    bias = initialBias;
    // Handle the basic code points
    for (j = 0; j < inputLength; ++j) {
      currentValue = input[j];
      if (currentValue < 0x80)
        output.push(stringFromCharCode(currentValue));
      handledCPCCount = basicLength = output.length;
      // `handledCPCCount` is the number of code points that have been
      // handled; `basicLength` is the number of basic code points.
      // Finish the basic string - if it is not empty - with a delimiter
      if (basicLength) {
        output.push(delimiter);
      }
      // Main encoding loop:
      while (handledCPCCount < inputLength) {
        // All non-basic code points < n have been handled already. Find the
        // next larger one:
        for (m = maxInt, j = 0; j < inputLength; ++j) {
          currentValue = input[j];
          if (currentValue >= n && currentValue < m) {
            tm = currentValue;
            // Increase `delta` enough to advance the decoder's
            // <n,i> state to <m,0> but guard against overflow
            handledCPCCountPlusOne = handledCPCCount + 1;
            if (m - n > floor((maxInt - delta) / handledCPCCountPlusOne)) {
              // overflow
              delta += (m - n) * handledCPCCountPlusOne;
            }
            tn = m;
            for (j = 0; j < inputLength; ++j) {
              currentValue = input[j];
              if (currentValue < n && ++delta > maxInt) {
                // overflow
                if (currentValue == n) {
                  // Represent delta as a generalized variable-length integer
                  for (q = delta, k = base; /* no condition */; k += base) {
                    tt = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);
                    if (q < t) {
                      tbreak;
                    }
                    tqMinusT = q - t;
                    baseMinusT = base - t;
                    output.push(stringFromCharCode(digitToBasic(t + qMinusT % baseMinusT, 0)));
                    tq = floor(qMinusT / baseMinusT);
                    baseMinusT = baseMinusT;
                    output.push(stringFromCharCode(digitToBasic(q, 0)));
                    bias = adapt(delta, handledCPCCountPlusOne, handledCPCCount == basicLength);
                    delta = 0;
                    ++handledCPCCount;
                    ++delta;
                    ++n;
                  }
                }
                return output.join("");
              }
            }
            // Converts a Punycode string representing a domain name or an email address
            // to Unicode. Only the Punycode parts of the input will be converted,
            // i.e. it doesn't matter if you call it on a string that has already been
            // converted to Unicode.
            @memberOf punycode
            @param {String} input The Punycode domain name or email address to
            // convert to Unicode.
            @returns {String} The Unicode representation of the given Punycode
            // string.
            function
            toUnicode(input) {
              return mapDomain(input, function(string) {
                return
                regexPunycode.test(string) ? decode(string.slice(4).toLowerCase()) : string;
              });
            }
            // Converts a Unicode string representing a domain name or an email address
            // to Punycode. Only the non-ASCII parts of the domain name will be
            // converted, i.e. it doesn't matter if you call it with a domain that's
            // already in ASCII.
            @memberOf punycode
            @param {String} input The domain name or email address to convert,
            // as
            // a Unicode string.
            @returns {String} The Punycode representation of the given domain
            // name or email address.
            function
            toASCII(input) {
              return mapDomain(input, function(string) {
                return
                regexNonASCII.test(string) ? 'xn--' + encode(string) : string;
              });
            }
            // Define the public API
            punycode = {
              // A string representing the current Punycode.js version number.
              @memberOf punycode
              @type String
              @returns {String}
              version: '1.3.2',
              // An object of methods to convert from JavaScript's internal
              // character

```

representation (UCS-2) to Unicode code points, and back.

```

@see <https://mathiasbynens.be/notes/javascript-encoding>
@memberOf punycode
@type Object
^ucs2: {
  decode:
  ucs2decode,
  encode:
  ucs2encode,
  decode:
  decode,
  encode:
  toASCII,
  toUnicode:
  toUnicode
}

```

Expose `punycode`

Some AMD build optimizers, like r.js, check for specific condition patterns like the following:

```

(function() {
  if (typeof define == 'function' &&
    (typeof define.amd == 'object' &&
      define.amd)) {
    define('punycode', function() {
      return punycode;
    });
  } else if (freeExports && freeModule) {
    if (module.exports == freeExports) {
      // in Node.js or RingoJS v0.8.0+
      freeModule.exports = punycode;
    } else {
      // in Narwhal or RingoJS v0.7.0-
      for (key in punycode) {
        punycode.hasOwnProperty(key) &&
          (freeExports[key] = punycode[key]);
      }
    }
  } else {
    // in Rhino or a web browser
    root.punycode = punycode;
  }
}(this));

```

use strict;

```

module.exports = {
  isString: function(arg) {
    return typeof(arg) === 'string';
  },
  isObject: function(arg) {
    return typeof(arg) === 'object' && arg !== null;
  },
  isNull: function(arg) {
    return arg === null;
  },
  isNullOrUndefined: function(arg) {
    return arg == null;
  }
};

```

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```

use strict;
If obj.hasOwnProperty has been overridden, then calling obj.hasOwnProperty(prop) will break.
See: https://github.com/joyent/node/issues/1707
function hasOwnProperty(obj, prop) {
  return Object.prototype.hasOwnProperty.call(obj, prop);
}
module.exports = function(qs, sep, eq, options) {
  sep = sep || '&';
  eq = eq || '=';
  var obj = {};

  if (typeof qs !== 'string' || qs.length === 0) {
    return obj;
  }

  var regexp = /\+\/g;
  qs = qs.split(sep);

  var maxKeys = 1000;
  if (options && typeof options.maxKeys === 'number') {
    maxKeys = options.maxKeys;
  }

  var len = qs.length;
  // maxKeys <= 0 means that we should not limit keys
  if (maxKeys > 0 && len > maxKeys) {
    len = maxKeys;
  }

  for (var i = 0; i < len; ++i) {
    var x = qs[i].replace(regexp, '%20');
    var idx = x.indexOf(eq);
    var kstr, vstr, k, v;

    if (idx >= 0) {
      kstr = x.substr(0, idx);
      vstr = x.substr(idx + 1);
    } else {
      kstr = x;
      vstr = "";
    }

    k = decodeURIComponent(kstr);
    v = decodeURIComponent(vstr);

    if (!hasOwnProperty(obj, k)) {
      obj[k] = v;
    } else if (Array.isArray(obj[k])) {
      obj[k].push(v);
    } else {
      obj[k] = [obj[k], v];
    }
  }

  return obj;
};

```

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```

replacing non-ASCII by nothing\n      newpart += 'x';\n      } else {\n      newpart += part[j];\n    }\n  }\n  // we test again with ASCII char only\n  if (!newpart.match(hostnamePartPattern)) {\n    var validParts = hostparts.slice(0, i);\n    var notHost = hostparts.slice(i + 1);\n    var bit =\n    part.match(hostnamePartStart);\n    if (bit) {\n      validParts.push(bit[1]);\n      notHost.unshift(bit[2]);\n    }\n    if (notHost.length) {\n      rest = '/' + notHost.join('.') + rest;\n    }\n    this.hostname = validParts.join('.');\n    break;\n  }\n  }\n  }\n  }\n  if\n  (this.hostname.length > hostnameMaxLen) {\n    this.hostname = '';\n  } else {\n    // hostnames are always lower\n    case.\n    this.hostname = this.hostname.toLowerCase();\n  }\n  if (!ipv6Hostname) {\n    // IDNA Support:\n    Returns a punycode representation of \"domain\".\n    // It only converts parts of the domain name that\n    // have non-ASCII characters, i.e.\n    it doesn't matter if\n    // you call it with a domain that already is ASCII-only.\n    this.hostname =\n    punycode.toASCII(this.hostname);\n  }\n  var p = this.port ? ':' + this.port : '';\n  var h = this.hostname || '';\n  this.host = h + p;\n  this.href += this.host;\n  // strip [ and ] from the hostname\n  // the host field still retains\n  them, though\n  if (ipv6Hostname) {\n    this.hostname = this.hostname.substr(1, this.hostname.length - 2);\n    if\n    (rest[0] !== '/') {\n      rest = '/' + rest;\n    }\n  }\n  // now rest is set to the post-host stuff.\n  // chop off any\n  delim chars.\n  if (!unsafeProtocol[lowerProto]) {\n    // First, make 100% sure that any \"autoEscape\" chars get\n    // escaped, even if encodeURIComponent doesn't think they\n    // need to be.\n    for (var i = 0, l =\n    autoEscape.length; i < l; i++) {\n      var ae = autoEscape[i];\n      if (rest.indexOf(ae) === -1)\n        continue;\n      var esc = encodeURIComponent(ae);\n      if (esc === ae) {\n        esc = escape(ae);\n      }\n      rest = rest.split(ae).join(esc);\n    }\n  }\n  // chop off\n  from the tail first.\n  var hash = rest.indexOf('#');\n  if (hash !== -1) {\n    // got a fragment string.\n    this.hash =\n    rest.substr(hash);\n    rest = rest.slice(0, hash);\n  }\n  var qm = rest.indexOf('?');\n  if (qm !== -1) {\n    this.search =\n    rest.substr(qm);\n    this.query = rest.substr(qm + 1);\n    if (parseQueryString) {\n      this.query =\n      querystring.parse(this.query);\n    }\n    rest = rest.slice(0, qm);\n  } else if (parseQueryString) {\n    // no query\n    string, but parseQueryString still requested\n    this.search = '';\n    this.query = {};\n  }\n  if (rest) this.pathname =\n  rest;\n  if (slashedProtocol[lowerProto] &&\n  this.hostname && !this.pathname) {\n    this.pathname = '';\n  }\n  //to support http.request\n  if (this.pathname || this.search) {\n    var p = this.pathname || '';\n    var s =\n    this.search || '';\n    this.path\n    = p + s;\n  }\n  // finally, reconstruct the href based on what has been validated.\n  this.href = this.format();\n  return this;\n}\n// format a parsed object into a url string\nfunction urlFormat(obj) {\n  // ensure it's an object, and\n  not a string url.\n  // If it's an obj, this is a no-op.\n  // this way, you can call url_format() on strings\n  // to clean up\n  potentially wonky urls.\n  if (util.isString(obj)) obj = urlParse(obj);\n  if (!(obj instanceof Url)) return\n  Url.prototype.format.call(obj);\n  return obj.format();\n}\nUrl.prototype.format = function() {\n  var auth =\n  this.auth || '';\n  if (auth) {\n    auth = encodeURIComponent(auth);\n    auth = auth.replace(/%3A/i, ':');\n    auth +=\n    '@';\n  }\n  var protocol = this.protocol || '';\n  pathname = this.pathname || '';\n  hash = this.hash || '';\n  host\n  = false;\n  query = '';\n  if (this.host) {\n    host = auth + this.host;\n  } else if (this.hostname) {\n    host = auth +\n    (this.hostname.indexOf(':')\n    === -1 ?\n    this.hostname :\n    '[' + this.hostname + ']');\n  }\n  if (this.port) {\n    host += ':' + this.port;\n  }\n  }\n  if (this.query &&\n  util.isObject(this.query) &&\n  Object.keys(this.query).length) {\n    query =\n    querystring.stringify(this.query);\n  }\n  var search = this.search || (query && ('?' + query)) || '';\n  if (protocol\n  && protocol.substr(-1) !== ':') protocol += ':';\n  // only the slashedProtocols get the //. Not mailto:, xmpp:, etc.\n  // unless they had them to begin with.\n  if (this.slashes ||\n  (!protocol || slashedProtocol[protocol]) && host !==\n  false) {\n    host = '/' + (host || '');\n    if (pathname && pathname.charAt(0) !== '/')\n      pathname = '/' + pathname;\n    } else if (!host) {\n      host = '';\n    }\n    if (hash && hash.charAt(0) !== '#')\n      hash = '#' + hash;\n    if (search &&\n    search.charAt(0) !== '?')\n      search = '?' + search;\n    pathname = pathname.replace(/[?#]/g, function(match) {\n      return\n      encodeURIComponent(match);\n    });\n  }

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});\n search = search.replace('#', '%23');\n\n return protocol + host + pathname + search + hash;\n};\n\nfunction
urlResolve(source, relative) {\n return urlParse(source, false, true).resolve(relative);\n}\n\nUrl.prototype.resolve =
function(relative) {\n return this.resolveObject(urlParse(relative, false, true)).format();\n};\n\nfunction
urlResolveObject(source, relative) {\n if (!source) return relative;\n return urlParse(source, false,
true).resolveObject(relative);\n}\n\nUrl.prototype.resolveObject = function(relative) {\n if (util.isString(relative))
{\n var rel = new Url();\n rel.parse(relative, false, true);\n relative = rel;\n }\n\n var result = new Url();\n var
tkeys = Object.keys(this);\n for (var tk = 0; tk < tkeys.length; tk++) {\n var tkey = tkeys[tk];\n result[tkey] =
this[tkey];\n }\n\n // hash is always overridden, no matter what.\n // even href="" will remove it.\n result.hash =
relative.hash;\n\n // if the relative
url is empty, then there's nothing left to do here.\n if (relative.href === "") {\n result.href = result.format();\n
return result;\n }\n\n // hrefs like //foo/bar always cut to the protocol.\n if (relative.slashes && !relative.protocol)
{\n // take everything except the protocol from relative\n var rkeys = Object.keys(relative);\n for (var rk = 0; rk
< rkeys.length; rk++) {\n var rkey = rkeys[rk];\n if (rkey !== 'protocol')\n result[rkey] = relative[rkey];\n
}\n\n //urlParse appends trailing / to urls like http://www.example.com\n if (slashedProtocol[result.protocol]
&&\n result.hostname && !result.pathname) {\n result.path = result.pathname = '/';\n }\n\n result.href =
result.format();\n return result;\n }\n\n if (relative.protocol && relative.protocol !== result.protocol) {\n // if it's
a known url protocol, then changing\n // the protocol does weird things\n // first, if it's not file:, then we MUST
have
a host,\n // and if there was a path\n // to begin with, then we MUST have a path.\n // if it is file:, then the host
is dropped,\n // because that's known to be hostless.\n // anything else is assumed to be absolute.\n if
(!slashedProtocol[relative.protocol]) {\n var keys = Object.keys(relative);\n for (var v = 0; v < keys.length;
v++) {\n var k = keys[v];\n result[k] = relative[k];\n }\n result.href = result.format();\n return
result;\n }\n\n result.protocol = relative.protocol;\n if (!relative.host && !hostlessProtocol[relative.protocol])
{\n var relPath = (relative.pathname || "").split('/');\n while (relPath.length && !(relative.host =
relPath.shift()));\n if (!relative.host) relative.host = ";\n if (!relative.hostname) relative.hostname = ";\n if
(relPath[0] !== "") relPath.unshift("");\n if (relPath.length < 2) relPath.unshift("");\n result.pathname =
relPath.join('/');\n
} else {\n result.pathname = relative.pathname;\n }\n result.search = relative.search;\n result.query =
relative.query;\n result.host = relative.host || ";\n result.auth = relative.auth;\n result.hostname =
relative.hostname || relative.host;\n result.port = relative.port;\n // to support http.request\n if (result.pathname ||
result.search) {\n var p = result.pathname || ";\n var s = result.search || ";\n result.path = p + s;\n }\n\n
result.slashes = result.slashes || relative.slashes;\n result.href = result.format();\n return result;\n }\n\n var
isSourceAbs = (result.pathname && result.pathname.charAt(0) === '/'),\n isRelAbs = (\n relative.host ||\n
relative.pathname && relative.pathname.charAt(0) === '/'\n ),\n mustEndAbs = (isRelAbs || isSourceAbs
||\n (result.host && relative.pathname)),\n removeAllDots = mustEndAbs,\n srcPath =
result.pathname && result.pathname.split('/')
|| [],\n relPath = relative.pathname && relative.pathname.split('/') || [],\n psychotic = result.protocol &&
!slashedProtocol[result.protocol];\n\n // if the url is a non-slashed url, then relative\n // links like ../ should be
able\n // to crawl up to the hostname, as well. This is strange.\n // result.protocol has already been set by now.\n //
Later on, put the first path part into the host field.\n if (psychotic) {\n result.hostname = ";\n result.port = null;\n
if (result.host) {\n if (srcPath[0] === "") srcPath[0] = result.host;\n else srcPath.unshift(result.host);\n }\n
result.host = ";\n if (relative.protocol) {\n relative.hostname = null;\n relative.port = null;\n if
(relative.host) {\n if (relPath[0] === "") relPath[0] = relative.host;\n else relPath.unshift(relative.host);\n
}\n relative.host = null;\n }\n mustEndAbs = mustEndAbs && (relPath[0] === "" || srcPath[0] ===
"");\n }\n\n if (isRelAbs) {\n // it's absolute.\n result.host = (relative.host || relative.host === "") ?\n
relative.host : result.host;\n result.hostname = (relative.hostname || relative.hostname === "") ?\n
relative.hostname : result.hostname;\n result.search = relative.search;\n result.query = relative.query;\n srcPath
= relPath;\n // fall through to the dot-handling below.\n } else if (relPath.length) {\n // it's relative\n // throw

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away the existing file, and take the new path instead.\n  if (!srcPath) srcPath = [];\n  srcPath.pop();\n  srcPath =
srcPath.concat(relPath);\n  result.search = relative.search;\n  result.query = relative.query;\n } else if
(!util.isNullOrUndefined(relative.search)) {\n  // just pull out the search.\n  // like href='?foo'.\n  // Put this after
the other two cases because it simplifies the booleans\n  if (psychotic) {\n    result.hostname = result.host =
srcPath.shift();\n
    //occasionally the auth can get stuck only in host\n    //this especially happens in cases like\n
//url.resolveObject('mailto:local1@domain1', 'local2@domain2')\n    var authInHost = result.host &&
result.host.indexOf('@') > 0 ?\n        result.host.split('@') : false;\n    if (authInHost) {\n      result.auth =
authInHost.shift();\n      result.host = result.hostname = authInHost.shift();\n    }\n  }\n  result.search =
relative.search;\n  result.query = relative.query;\n  //to support http.request\n  if (!util.isNull(result.pathname) ||
!util.isNull(result.search)) {\n    result.path = (result.pathname ? result.pathname : ") +\n        (result.search ?
result.search : ");\n  }\n  result.href = result.format();\n  return result;\n }\n\n if (!srcPath.length) {\n  // no path
at all. easy.\n  // we've already handled the other stuff above.\n  result.pathname = null;\n  //to support
http.request\n  if
(result.search) {\n    result.path = '/' + result.search;\n  } else {\n    result.path = null;\n  }\n  result.href =
result.format();\n  return result;\n }\n\n // if a url ENDS in . or .., then it must get a trailing slash.\n // however, if
it ends in anything else non-slashy,\n // then it must NOT get a trailing slash.\n var last = srcPath.slice(-1)[0];\n var
hasTrailingSlash = (\n  (result.host || relative.host || srcPath.length > 1) &&\n  (last === '.' || last === '..') || last
=== ");\n\n // strip single dots, resolve double dots to parent dir\n // if the path tries to go above the root, `up` ends
up > 0\n var up = 0;\n for (var i = srcPath.length; i >= 0; i--) {\n  last = srcPath[i];\n  if (last === '.') {\n
srcPath.splice(i, 1);\n  } else if (last === '..') {\n    srcPath.splice(i, 1);\n    up++;\n  } else if (up) {\n
srcPath.splice(i, 1);\n    up--;\n  }\n }\n\n // if the path is allowed to go above the root, restore leading
..s\n if (!mustEndAbs && !removeAllDots) {\n  for (; up--; up) {\n    srcPath.unshift('.');\n  }\n }\n\n if
(mustEndAbs && srcPath[0] !== " &&\n  (!srcPath[0] || srcPath[0].charAt(0) !== '/')) {\n    srcPath.unshift("");\n
}\n\n if (hasTrailingSlash && (srcPath.join('/').substr(-1) !== '/')) {\n    srcPath.push("");\n  }\n\n var isAbsolute =
srcPath[0] === " ||\n  (srcPath[0] && srcPath[0].charAt(0) === '/');\n\n // put the host back\n if (psychotic) {\n
result.hostname = result.host = isAbsolute ? "\n        srcPath.length ? srcPath.shift() : ";
\n\n //occasionally the auth can get stuck only in host\n //this especially happens in cases like\n
//url.resolveObject('mailto:local1@domain1', 'local2@domain2')\n var authInHost = result.host &&
result.host.indexOf('@') > 0 ?\n        result.host.split('@') : false;\n if (authInHost) {\n  result.auth =
authInHost.shift();\n  result.host = result.hostname
= authInHost.shift();\n }\n }\n\n mustEndAbs = mustEndAbs || (result.host && srcPath.length);\n\n if
(mustEndAbs && !isAbsolute) {\n  srcPath.unshift("");\n }\n\n if (!srcPath.length) {\n  result.pathname = null;\n
result.path = null;\n } else {\n  result.pathname = srcPath.join('/');\n }\n\n //to support request.http\n if
(!util.isNull(result.pathname) || !util.isNull(result.search)) {\n  result.path = (result.pathname ? result.pathname : ")
+\n        (result.search ? result.search : ");\n }\n  result.auth = relative.auth || result.auth;\n  result.slashes =
result.slashes || relative.slashes;\n  result.href = result.format();\n  return result;\n };\n\nUrl.prototype.parseHost =
function() {\n  var host = this.host;\n  var port = portPattern.exec(host);\n  if (port) {\n    port = port[0];\n    if (port
!== ':') {\n      this.port = port.substr(1);\n    }\n    host = host.substr(0, host.length - port.length);\n  }\n  if (host)
this.hostname =
host;\n};\n", "// @flow\n\nimport Reference from './reference/v8.json';\nimport type {StylePropertySpecification}
from './style-spec';\nimport type {\n  StyleSpecification,\n  SourceSpecification,\n  LayerSpecification,\n  PropertyValueSpecification,\n  DataDrivenPropertyValueSpecification\n} from './types';\n\nfunction
getPropertyReference(propertyName): StylePropertySpecification {\n  for (let i = 0; i < Reference.layout.length;
i++) {\n    for (const key in Reference[Reference.layout[i]]) {\n      if (key === propertyName) return
(Reference[Reference.layout[i]][key]: any);\n    }\n  }\n  for (let i = 0; i < Reference.paint.length; i++) {\n
for (const key in Reference[Reference.paint[i]]) {\n      if (key === propertyName) return
(Reference[Reference.paint[i]][key]: any);\n    }\n  }\n}\n\nreturn (null: any);\n}\n\nexport function

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eachSource(style: StyleSpecification, callback: (SourceSpecification) => void) {\n  for (const k in style.sources)
  {\n    callback(style.sources[k]);\n  }\n}\n\nexport function eachLayer(style: StyleSpecification, callback:
(LayerSpecification) => void) {\n  for (const layer of style.layers) {\n    callback(layer);\n  }\n}\n\n\ntype
PropertyCallback = ({\n  path: [string, 'paint' | 'layout', string], // [layerid, paint/layout, property key]\n  key:
string,\n  value: PropertyValueSpecification<mixed> | DataDrivenPropertyValueSpecification<mixed>,\n  reference: StylePropertySpecification,\n  set: (PropertyValueSpecification<mixed> |
DataDrivenPropertyValueSpecification<mixed>) => void\n}) => void;\n\nexport function eachProperty(\n  style:
StyleSpecification,\n  options: {paint?: boolean, layout?: boolean},\n  callback: PropertyCallback\n) {\n
function inner(layer, propertyType: 'paint' | 'layout') {\n  const properties = (layer[propertyType]: any);\n  if
(!properties) return;\n  Object.keys(properties).forEach((key) => {\n    callback({\n
      path: [layer.id, propertyType, key],\n      key,\n      value: properties[key],\n
      reference: getPropertyReference(key),\n      set(x) {\n        properties[key] = x;\n      }\n
    });\n  });\n}\n\n  eachLayer(style, (layer) => {\n    if (options.paint) {\n      inner(layer, 'paint');\n
    }\n    if (options.layout) {\n      inner(layer, 'layout');\n    }\n  });\n}\n\n\nimport URL from 'url';\nimport
{eachSource, eachLayer, eachProperty} from './visit';\n\nfunction eachLayout(layer, callback) {\n  for (const k in
layer) {\n    if (k.indexOf('layout') === 0) {\n      callback(layer[k], k);\n    }\n  }\n}\n\nfunction
eachPaint(layer, callback) {\n  for (const k in layer) {\n    if (k.indexOf('paint') === 0) {\n
      callback(layer[k], k);\n    }\n  }\n}\n\nfunction resolveConstant(style, value) {\n  if (typeof value
=== 'string' && value[0] === '@') {\n    return resolveConstant(style, style.constants[value]);\n  } else {\n
return value;\n  }\n}\n\nfunction isFunction(value) {\n  return Array.isArray(value.stops);\n}\n\nfunction
renameProperty(obj, from, to) {\n  obj[to] = obj[from]; delete obj[from];\n}\n\nexport default function(style) {\n
style.version = 8;\n\n  // Rename properties, reverse coordinates in source and layers\n  eachSource(style, (source)
=> {\n    if (source.type === 'video' && source.url !== undefined) {\n      renameProperty(source, 'url',
'urls');\n    }\n    if (source.type === 'video') {\n      source.coordinates.forEach((coord) => {\n
return coord.reverse();\n      });\n    }\n  });\n\n  eachLayer(style, (layer) => {\n    eachLayout(layer,
(layout) => {\n      if (layout['symbol-min-distance'] !== undefined) {\n        renameProperty(layout,
'symbol-min-distance', 'symbol-spacing');\n      }\n    });\n\n    eachPaint(layer, (paint) => {\n      if (paint['background-image'] !== undefined) {\n
renameProperty(paint, 'background-image', 'background-pattern');\n      }\n      if (paint['line-image']
!== undefined) {\n        renameProperty(paint, 'line-image', 'line-pattern');\n      }\n      if (paint['fill-
image'] !== undefined) {\n        renameProperty(paint, 'fill-image', 'fill-pattern');\n      }\n    });\n  });\n\n  // Inline Constants\n  eachProperty(style, {paint: true, layout: true}, (property) => {\n    const value =
resolveConstant(style, property.value);\n    if (isFunction(value)) {\n      value.stops.forEach((stop) => {\n
stop[1] = resolveConstant(style, stop[1]);\n      });\n    }\n    property.set(value);\n  });\n  delete
style.constants;\n\n  eachLayer(style, (layer) => {\n    // get rid of text-max-size,\n    icon-max-size\n    // turn text-size, icon-size into layout properties\n    // https://github.com/mapbox/mapbox-
gl-style-spec/issues/255\n    eachLayout(layer, (layout) => {\n      delete layout['text-max-size'];\n
delete layout['icon-max-size'];\n    });\n\n    eachPaint(layer, (paint) => {\n      if (paint['text-size']) {\n
if (!layer.layout) layer.layout = {};\n      layer.layout['text-size'] = paint['text-size'];\n      delete
paint['text-size'];\n      }\n      if (paint['icon-size']) {\n        if (!layer.layout) layer.layout = {};\n
layer.layout['icon-size'] = paint['icon-size'];\n        delete paint['icon-size'];\n      }\n    });\n  });\n\n  function migrateFontstackURL(input) {\n    const inputParsed = URL.parse(input);\n    const
inputPathnameParts = inputParsed.pathname.split('/');\n    if (inputParsed.protocol !==
'mapbox:') {\n      return input;\n    } else if (inputParsed.hostname === 'fontstack') {\n
assert(decodeURI(inputParsed.pathname) === '{fontstack}/{range}.pbf');\n      return
'mapbox://fonts/mapbox/{fontstack}/{range}.pbf';\n    } else if (inputParsed.hostname === 'fonts') {\n
assert(inputPathnameParts[1] === 'v1');\n      assert(decodeURI(inputPathnameParts[3]) === '{fontstack}');\n
assert(decodeURI(inputPathnameParts[4]) === '{range}.pbf');\n      return

```

```

`mapbox://fonts/${inputPathnameParts[2]}/{fontstack}/{range}.pbf`;
} else {
  assert(false);
}

function assert(predicate) {
  if (!predicate) {
    throw new Error(`Invalid font url:
    "${input}"`);
  }
}

if (style.glyphs) {
  style.glyphs =
  migrateFontstackURL(style.glyphs);
}

function migrateFontStack(font) {
  function
  splitAndTrim(string)
  {
    return string.split(',').map((s) => {
      return s.trim();
    });
  }

  if
  (Array.isArray(font)) {
    // Assume it's a previously migrated font-array.
    return font;
  } else
  if (typeof font === 'string') {
    return splitAndTrim(font);
  } else if (typeof font === 'object') {
    font.stops.forEach((stop) => {
      stop[1] = splitAndTrim(stop[1]);
    });
    return font;
  } else {
    throw new Error(`unexpected font value`);
  }
}

eachLayer(style, (layer) => {
  eachLayout(layer, (layout) => {
    if (layout['text-font']) {
      layout['text-font'] =
      migrateFontStack(layout['text-font']);
    }
  });
});

// Reverse order of symbol layers. This is an
imperfect migration.
// The order of a symbol layer in the layers list affects two
things:
// - how it is drawn relative to other layers (like oneway arrows below bridges)
// - the placement
priority compared to other layers
// It's impossible to reverse the placement priority without breaking the
draw order
// in some cases. This migration only reverses the order of symbol layers that
// are above all
other types of layers.
// Symbol layers that are at the top of the map preserve their priority.
// Symbol
layers that are below another type (line, fill) of layer preserve their draw order.
let firstSymbolLayer = 0;
for (let i = style.layers.length - 1; i >= 0; i--) {
  const layer = style.layers[i];
  if (layer.type !== 'symbol') {
    firstSymbolLayer = i + 1;
    break;
  }
}
const symbolLayers =
style.layers.splice(firstSymbolLayer);
symbolLayers.reverse();
style.layers =
style.layers.concat(symbolLayers);
return style;
}

export
default function (output: any, ...inputs: Array<any>) {
  for (const input of inputs) {
    for (const k in input) {
      output[k] = input[k];
    }
  }
  return output;
}

export
class ParsingError extends Error {
  key: string;
  message: string;
  constructor(key: string, message: string) {
    super(message);
    this.message = message;
    this.key = key;
  }
}

export
default ParsingError;

import
type
{Expression} from './expression';

/**
 * Tracks `let` bindings during expression parsing.
 */
@private
class Scope {
  parent: ?Scope;
  bindings: {[string]: Expression};
  constructor(parent?: Scope, bindings:
  Array<[string, Expression]> = []) {
    this.parent = parent;
    this.bindings = {};
    for (const [name,
    expression] of bindings) {
      this.bindings[name] = expression;
    }
  }
  concat(bindings:
  Array<[string, Expression]>)
  {
    return new Scope(this, bindings);
  }
  get(name: string): Expression {
    if (this.bindings[name]) {
      return this.bindings[name];
    }
    if (this.parent) {
      return this.parent.get(name);
    }
    throw new
    Error(`${name} not found in scope.`);
  }
  has(name: string): boolean {
    if (this.bindings[name]) return
    true;
    return this.parent ? this.parent.has(name) : false;
  }
}

export
default Scope;

export
type
NullTypeT = { kind: 'null' };
export
type
NumberTypeT = { kind: 'number' };
export
type
StringTypeT = { kind: 'string' };
export
type
BooleanTypeT = { kind: 'boolean' };
export
type
ColorTypeT = {
  kind: 'color' };
export
type
ObjectTypeT = { kind: 'object' };
export
type
ValueTypeT = { kind: 'value' };
export
type
ErrorTypeT = { kind: 'error' };
export
type
CollatorTypeT = { kind: 'collator' };
export
type
FormattedTypeT = {
  kind: 'formatted' };
export
type
ResolvedImageTypeT = { kind: 'resolvedImage'
};
export
type
EvaluationKind = 'constant' | 'source' | 'camera' | 'composite';
export
type
Type =
NullTypeT |
NumberTypeT |
StringTypeT |
BooleanTypeT |
ColorTypeT |
ObjectTypeT |
ValueTypeT |
ArrayType | // eslint-disable-line no-use-before-define
ErrorTypeT |
CollatorTypeT |
FormattedTypeT |
ResolvedImageTypeT;
export
type
ArrayType = {
  kind: 'array',
  itemType: Type,
  N: ?number
};
export
const
NullType = {kind: 'null'};
export
const
NumberType = {kind: 'number'};
export
const
StringType = {kind: 'string'};
export
const
BooleanType = {kind: 'boolean'};
export
const
ColorType = {
  kind: 'color' };
export
const
ObjectType = {kind: 'object'};
export
const
ValueType = {kind: 'value'};
export
const
ErrorType = {kind: 'error'};
export
const
CollatorType = {kind: 'collator'};
export
const
FormattedType =

```

```

{kind: 'formatted'};\nexport const ResolvedImageType = {kind: 'resolvedImage'};\n\nexport
function array(itemType: Type, N: ?number): ArrayType {\n  return {\n    kind: 'array',\n    itemType,\n    N\n  };\n}\n\nexport function toString(type: Type): string {\n  if (type.kind === 'array') {\n    const itemType =
toString(type.itemType);\n    return typeof type.N === 'number' ?\n      `array<${itemType}>` :\n      `array<${itemType}>`;\n  } else {\n    return type.kind;\n  }\n}\n\nconst valueMemberTypes = [\n  NullType,\n  NumberType,\n  StringType,\n  BooleanType,\n  ColorType,\n  FormattedType,\n  ObjectType,\n  array(ValueType),\n  ResolvedImageType\n];\n\n/**\n * Returns null if `t` is a subtype of `expected`; otherwise returns an\n * error message.\n * @private\n */\nexport
function checkSubtype(expected: Type, t: Type): ?string {\n  if (t.kind === 'error') {\n    // Error is a subtype of
every type\n    return null;\n  } else if (expected.kind
=== 'array') {\n    if (t.kind === 'array' &&\n      ((t.N === 0 && t.itemType.kind === 'value') ||
!checkSubtype(expected.itemType, t.itemType)) &&\n      (typeof expected.N !== 'number' || expected.N ===
t.N)) {\n      return null;\n    } else if (expected.kind === t.kind) {\n      return null;\n    } else if
(expected.kind === 'value') {\n      for (const memberType of valueMemberTypes) {\n        if
(!checkSubtype(memberType, t)) {\n          return null;\n        }\n      }\n      return `Expected
${toString(expected)} but found ${toString(t)} instead.`;\n    }\n  }\n  return null;\n}\n\n(c) Dean McNamee <dean@gmail.com>,\n2012.\n\n// https://github.com/deanm/css-color-parser-js\n\n// Permission is hereby granted, free of charge, to any
person obtaining a copy\n// of this software and associated documentation files (the \"Software\"), to\n// deal in the
Software without restriction, including without limitation the\n// rights to use, copy,\n// modify, merge, publish, distribute, sublicense, and/or\n// sell copies of the Software, and to permit persons to whom
the Software is\n// furnished to do so, subject to the following conditions:\n\n// The above copyright notice and this
permission notice shall be included in\n// all copies or substantial portions of the Software.\n\n// THE
SOFTWARE IS PROVIDED \"AS IS\", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR\n// IMPLIED,\n// INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,\n// FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE\n// AUTHORS OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER\n// LIABILITY, WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING\n// FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS\n// IN THE SOFTWARE.\n\n//
http://www.w3.org/TR/css3-color\n\nvar kCSSColorTable = {\n  \"transparent\": [0,0,0,0], \"aliceblue\":
[240,248,255,1],\n  \"antiquewhite\": [250,235,215,1], \"aqua\":
[0,255,255,1],\n  \"aquamarine\": [127,255,212,1], \"azure\": [240,255,255,1],\n  \"beige\": [245,245,220,1],
\"bisque\": [255,228,196,1],\n  \"black\": [0,0,0,1], \"blanchedalmond\": [255,235,205,1],\n  \"blue\": [0,0,255,1],
\"blueviolet\": [138,43,226,1],\n  \"brown\": [165,42,42,1], \"burlywood\": [222,184,135,1],\n  \"cadetblue\":
[95,158,160,1], \"chartreuse\": [127,255,0,1],\n  \"chocolate\": [210,105,30,1], \"coral\": [255,127,80,1],\n
\"cornflowerblue\": [100,149,237,1], \"cornsilk\": [255,248,220,1],\n  \"crimson\": [220,20,60,1], \"cyan\":
[0,255,255,1],\n  \"darkblue\": [0,0,139,1], \"darkcyan\": [0,139,139,1],\n  \"darkgoldenrod\": [184,134,11,1],
\"darkgray\": [169,169,169,1],\n  \"darkgreen\": [0,100,0,1], \"darkgrey\": [169,169,169,1],\n  \"darkkhaki\":
[189,183,107,1], \"darkmagenta\": [139,0,139,1],\n  \"darkolivegreen\": [85,107,47,1], \"darkorange\":
[255,140,0,1],\n  \"darkorchid\": [153,50,204,1], \"darkred\": [139,0,0,1],\n  \"darksalmon\": [233,150,122,1],
\"darkseagreen\": [143,188,143,1],\n  \"darkslateblue\": [72,61,139,1], \"darkslategray\": [47,79,79,1],\n
\"darkslategrey\": [47,79,79,1], \"darkturquoise\": [0,206,209,1],\n  \"darkviolet\": [148,0,211,1], \"deeppink\":
[255,20,147,1],\n  \"deepskyblue\": [0,191,255,1], \"dimgray\": [105,105,105,1],\n  \"dimgrey\": [105,105,105,1],
\"dodgerblue\": [30,144,255,1],\n  \"firebrick\": [178,34,34,1], \"floralwhite\": [255,250,240,1],\n  \"forestgreen\":
[34,139,34,1], \"fuchsia\": [255,0,255,1],\n  \"gainsboro\": [220,220,220,1], \"ghostwhite\": [248,248,255,1],\n
\"gold\": [255,215,0,1], \"goldenrod\": [218,165,32,1],\n  \"gray\": [128,128,128,1], \"green\": [0,128,0,1],\n
\"greenyellow\": [173,255,47,1], \"grey\": [128,128,128,1],\n  \"honeydew\": [240,255,240,1], \"hotpink\":
[255,105,180,1],\n  \"indianred\": [205,92,92,1], \"indigo\": [75,0,130,1],\n  \"ivory\": [255,255,240,1], \"khaki\":
[240,230,140,1],\n  \"lavender\": [230,230,250,1], \"lavenderblush\": [255,240,245,1],\n  \"lawngreen\":

```

```

[124,252,0,1], \"lemonchiffon\": [255,250,205,1],\n \"lightblue\": [173,216,230,1], \"lightcoral\":
[240,128,128,1],\n \"lightcyan\": [224,255,255,1], \"lightgoldenrodyellow\": [250,250,210,1],\n \"lightgray\":
[211,211,211,1], \"lightgreen\": [144,238,144,1],\n \"lightgrey\": [211,211,211,1], \"lightpink\": [255,182,193,1],\n
\"lightsalmon\": [255,160,122,1], \"lightseagreen\": [32,178,170,1],\n \"lightskyblue\": [135,206,250,1],
\"lightslategray\": [119,136,153,1],\n \"lightslategrey\": [119,136,153,1], \"lightsteelblue\": [176,196,222,1],\n
\"lightyellow\": [255,255,224,1], \"lime\": [0,255,0,1],\n \"limegreen\": [50,205,50,1], \"linen\": [250,240,230,1],\n
\"magenta\": [255,0,255,1], \"maroon\": [128,0,0,1],\n \"mediumaquamarine\": [102,205,170,1], \"mediumblue\":
[0,0,205,1],\n \"mediumorchid\": [186,85,211,1], \"mediumpurple\": [147,112,219,1],\n \"mediumseagreen\":
[60,179,113,1], \"mediumslateblue\": [123,104,238,1],\n \"mediumspringgreen\": [0,250,154,1],
\"mediumturquoise\": [72,209,204,1],\n \"mediumvioletred\": [199,21,133,1], \"midnightblue\": [25,25,112,1],\n
\"mintcream\": [245,255,250,1], \"mistyrose\": [255,228,225,1],\n \"moccasin\": [255,228,181,1], \"navajowhite\":
[255,222,173,1],\n \"navy\": [0,0,128,1], \"oldlace\": [253,245,230,1],\n \"olive\": [128,128,0,1], \"olivedrab\":
[107,142,35,1],\n \"orange\": [255,165,0,1], \"orangered\": [255,69,0,1],\n \"orchid\": [218,112,214,1],
\"palegoldenrod\": [238,232,170,1],\n \"palegreen\": [152,251,152,1], \"paleturquoise\": [175,238,238,1],\n
\"palevioletred\": [219,112,147,1], \"papayawhip\": [255,239,213,1],\n \"peachpuff\": [255,218,185,1], \"peru\":
[205,133,63,1],\n \"pink\": [255,192,203,1], \"plum\": [221,160,221,1],\n \"powderblue\": [176,224,230,1],
\"purple\": [128,0,128,1],\n \"rebeccapurple\": [102,51,153,1],\n \"red\": [255,0,0,1], \"rosybrown\":
[188,143,143,1],\n \"royalblue\": [65,105,225,1], \"saddlebrown\": [139,69,19,1],\n \"salmon\": [250,128,114,1],
\"sandybrown\": [244,164,96,1],\n \"seagreen\": [46,139,87,1], \"seashell\": [255,245,238,1],\n \"sienna\":
[160,82,45,1], \"silver\": [192,192,192,1],\n \"skyblue\": [135,206,235,1], \"slateblue\": [106,90,205,1],\n
\"slategray\": [112,128,144,1], \"slategrey\": [112,128,144,1],\n \"snow\": [255,250,250,1], \"springgreen\":
[0,255,127,1],\n \"steelblue\": [70,130,180,1], \"tan\": [210,180,140,1],\n \"teal\": [0,128,128,1], \"thistle\":
[216,191,216,1],\n \"tomato\": [255,99,71,1], \"turquoise\": [64,224,208,1],\n \"violet\": [238,130,238,1], \"wheat\":
[245,222,179,1],\n \"white\": [255,255,255,1], \"whitesmoke\": [245,245,245,1],\n \"yellow\": [255,255,0,1],
\"yellowgreen\": [154,205,50,1]}\n\nfunction clamp_css_byte(i) { // Clamp to integer 0 .. 255.\n i = Math.round(i);\n // Seems to be what Chrome does (vs truncation).\n return i < 0 ? 0 : i > 255 ? 255 : i;\n}\n\nfunction clamp_css_float(f) { // Clamp to float 0.0 .. 1.0.\n return f < 0 ? 0 : f > 1 ? 1\n : f;\n}\n\nfunction parse_css_int(str) { // int or percentage.\n if (str[str.length - 1] === '%')\n return clamp_css_byte(parseFloat(str) / 100 * 255);\n return clamp_css_byte(parseInt(str));\n}\n\nfunction parse_css_float(str) { // float or percentage.\n if (str[str.length - 1] === '%')\n return clamp_css_float(parseFloat(str) / 100);\n return clamp_css_float(parseFloat(str));\n}\n\nfunction css_hue_to_rgb(m1, m2, h) {\n if (h < 0) h += 1;\n else if (h > 1) h -= 1;\n\n if (h * 6 < 1) return m1 + (m2 - m1) * h * 6;\n if (h * 2 < 1) return m2;\n if (h * 3 < 2) return m1 + (m2 - m1) * (2/3 - h) * 6;\n return m1;\n}\n\nfunction parseCSSColor(css_str) {\n // Remove all whitespace, not compliant, but should just be more accepting.\n var str = css_str.replace(/ /g, '').toLowerCase();\n\n // Color keywords (and transparent) lookup.\n if (str in kCSSColorTable)\n return kCSSColorTable[str].slice(); // dup.\n\n // #abc and #abc123 syntax.\n if (str[0] === '#') {\n if (str.length === 4) {\n var iv = parseInt(str.substr(1), 16); // TODO(deanm): Stricter parsing.\n if (!(iv >= 0 && iv <= 0xffff)) return null; // Covers NaN.\n return [(iv & 0xf00) >> 4 | ((iv & 0xf00) >> 8),\n (iv & 0xf0) | ((iv & 0xf0) >> 4),\n (iv & 0xf) | ((iv & 0xf) << 4),\n 1];\n } else if (str.length === 7) {\n var iv = parseInt(str.substr(1), 16); // TODO(deanm): Stricter parsing.\n if (!(iv >= 0 && iv <= 0xfffffff)) return null; // Covers NaN.\n return [(iv & 0xff0000) >> 16,\n (iv & 0xff00) >> 8,\n iv & 0xff,\n 1];\n }\n\n return null;\n }\n\n var op = str.indexOf('('), ep = str.indexOf('');\n if (op !== -1 && ep + 1 === str.length) {\n var fname = str.substr(0, op);\n var params = str.substr(op+1, ep-(op+1)).split(',');\n var alpha = 1; // To allow case fallthrough.\n switch (fname) {\n case 'rgba':\n if (params.length !== 4) return null;\n alpha = parse_css_float(params.pop()); // Fall through.\n case 'rgb':\n if (params.length !== 3) return null;\n return [parse_css_int(params[0]),\n parse_css_int(params[1]),\n parse_css_int(params[2]),\n alpha];\n case 'hsla':\n if (params.length !== 4) return null;\n alpha = parse_css_float(params.pop()); // Fall through.\n case 'hsl':\n if (params.length !== 3) return null;\n

```

```

var h = (((parseFloat(params[0]) % 360) + 360) % 360) / 360; // 0 .. 1\n // NOTE(deanm): According to the
CSS spec s/l should only be\n // percentages, but we don't bother and let float or percentage.\n var s =
parseFloat(params[1]);\n var l = parseFloat(params[2]);\n var m2 = 1 <= 0.5 ? 1 * (s + 1) : 1 + s - 1
* s;\n var m1 = 1 * 2 - m2;\n return [clamp_css_byte(css_hue_to_rgb(m1, m2, h+1/3) * 255),\n
clamp_css_byte(css_hue_to_rgb(m1, m2, h) * 255),\n clamp_css_byte(css_hue_to_rgb(m1, m2, h-1/3) *
255),\n alpha];\n default:\n return null;\n }\n }\n\n return null;\n }\n\ntry {
exports.parseCSSColor = parseCSSColor } catch(e) { }\n", "// @flow\n\nimport {parseCSSColor} from
'csscolorparser';\n\n/**\n * An RGBA color value. Create instances from color strings using the static\n * method
`Color.parse`. The constructor accepts RGB channel values in the range\n * `[0, 1]`, premultiplied by A.\n * \n *
@param {number} r The red channel.\n * @param {number} g The green channel.\n * @param {number} b The
blue channel.\n * @param {number} a The alpha channel.\n * @private\n */\n\nclass Color {\n r: number;\n g:
number;\n b: number;\n a: number;\n\n constructor(r: number, g: number, b: number, a: number = 1) {\n
this.r = r;\n this.g = g;\n this.b = b;\n this.a = a;\n }\n\n static black: Color;\n static
white: Color;\n static transparent: Color;\n static red: Color;\n\n /**\n * Parses valid CSS color strings and
returns a `Color` instance.\n * @returns A `Color` instance, or `undefined` if the input is not a valid color string.\n
*\n * \n * static parse(input?: string | Color | null): Color | void {\n if (!input) {\n return undefined;\n
}\n\n if (input instanceof Color) {\n return input;\n }\n\n if (typeof input !== 'string') {\n
return undefined;\n }\n\n const rgba = parseCSSColor(input);\n if (!rgba) {\n return undefined;\n
}\n\n return new Color(\n rgba[0] / 255 * rgba[3],\n rgba[1] / 255 * rgba[3],\n rgba[2] /
255 * rgba[3],\n rgba[3]\n );\n }\n\n /**\n * Returns an RGBA string representing the color
value.\n * \n * @returns An RGBA string.\n * @example\n * var purple = new
Color.parse('purple');\n * purple.toString(); // = "rgba(128,0,128,1)"\n * var translucentGreen = new
Color.parse('rgba(26, 207, 26, .73)');\n * translucentGreen.toString(); // = "rgba(26,207,26,0.73)"\n * \n *
toString(): string {\n const [r, g, b, a] = this.toArray();\n return
`rgba(${Math.round(r)},${Math.round(g)},${Math.round(b)},${a})`;\n }\n\n toArray(): [number, number,
number, number] {\n const [r, g, b, a] = this;\n return a === 0 ? [0, 0, 0, 0] : [\n r * 255 / a,\n
g * 255 / a,\n b * 255 / a,\n a\n ];\n }\n\n\nColor.black = new Color(0, 0, 0, 1);\nColor.white =
new Color(1, 1, 1, 1);\nColor.transparent = new Color(0, 0, 0, 0);\nColor.red = new Color(1, 0, 0, 1);\n\nexport
default Color;\n", "// @flow\n\n// Flow type declarations for Intl cribbed from\n//
https://github.com/facebook/flow/issues/1270\nndeclare var Intl: {\n Collator:
Class<Intl$Collator>;\n}\nndeclare
class Intl$Collator {\n constructor (\n locales?: string | string[],\n options?: CollatorOptions\n ):
Intl$Collator;\n\n static (\n locales?: string | string[],\n options?: CollatorOptions\n ): Intl$Collator;\n\n
compare (a: string, b: string): number;\n\n resolvedOptions(): any;\n}\n\ntype CollatorOptions = {\n
localeMatcher?: 'lookup' | 'best fit',\n usage?: 'sort' | 'search',\n sensitivity?: 'base' | 'accent' | 'case' | 'variant',\n
ignorePunctuation?: boolean,\n numeric?: boolean,\n caseFirst?: 'upper' | 'lower' | 'false'\n}\n\nexport default
class Collator {\n locale: string | null;\n sensitivity: 'base' | 'accent' | 'case' | 'variant';\n collator:
Intl$Collator;\n\n constructor(caseSensitive: boolean, diacriticSensitive: boolean, locale: string | null) {\n if
(caseSensitive)\n this.sensitivity = diacriticSensitive ? 'variant' : 'case';\n else\n this.sensitivity =
diacriticSensitive
? 'accent' : 'base';\n\n this.locale = locale;\n this.collator = new Intl.Collator(this.locale ? this.locale : [],\n
{ sensitivity: this.sensitivity, usage: 'search'});\n }\n\n compare(lhs: string, rhs: string): number {\n return
this.collator.compare(lhs, rhs);\n }\n\n resolvedLocale(): string {\n // We create a Collator without "usage:
search" because we don't want\n // the search options encoded in our result (e.g. "en-u-co-search")\n
return new Intl.Collator(this.locale ? this.locale : [])\n .resolvedOptions().locale;\n }\n}\n", "//
@flow\nimport type Color from '././util/color';\nimport type ResolvedImage from
'./types/resolved_image';\n\nexport class FormattedSection {\n text: string;\n image: ResolvedImage | null;\n
scale: number | null;\n fontStack: string | null;\n textColor: Color | null;\n\n constructor(text: string, image:

```



```

} else if (value instanceof ResolvedImage) {\n    return ResolvedImageType;\n  } else if (Array.isArray(value))
{\n    const length = value.length;\n    let itemType: Type | typeof undefined;\n    for (const item of value)
{\n      const t = typeof(item);\n      if (!itemType) {\n        itemType = t;\n      } else if (itemType
=== t) {\n        continue;\n      } else {\n        itemType = ValueType;\n        break;\n
      }\n    }\n    return array(itemType || ValueType, length);\n  } else {\n    assert(typeof value ===
'object');\n    return ObjectType;\n  }\n}\n\nexport function toString(value: Value) {\n  const type = typeof
value;\n  if (value === null) {\n    return ";\n  } else if (type === 'string' || type === 'number' || type ===
'boolean') {\n    return String(value);\n  } else if (value instanceof Color || value instanceof Formatted || value
instanceof ResolvedImage) {\n    return value.toString();\n  } else {\n    return JSON.stringify(value);\n
  }\n}\n\nexport {Color, Collator};\n", "@flow\n\nimport assert from 'assert';\nimport {isValue, typeof, Color}
from './values';\nimport Formatted from './types/formatted';\nimport type {Type} from './types';\nimport type
{Value} from './values';\nimport type {Expression} from './expression';\nimport type ParsingContext from
'./parsing_context';\n\nclass Literal implements Expression
{\n  type: Type;\n  value: Value;\n\n  constructor(type: Type, value: Value) {\n    this.type = type;\n
this.value = value;\n  }\n\n  static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n    if
(args.length !== 2)\n    return context.error('literal' expression requires exactly one argument, but found
${args.length - 1} instead.);\n\n    if (!isValue(args[1]))\n    return context.error('invalid value');\n\n    const value = (args[1]: any);\n    let type = typeof(value);\n    // special case: infer the item type if possible
for zero-length arrays\n    const expected = context.expectedType;\n    if (\n      type.kind === 'array' &&\n
      type.N === 0 &&\n      expected &&\n      expected.kind === 'array' &&\n      (typeof expected.N
!== 'number' || expected.N === 0)\n    ) {\n      type = expected;\n    }\n\n    return new Literal(type,
value);\n  }\n\n  evaluate() {\n    return this.value;\n  }\n\n  eachChild() {\n    return
[this.value];\n  }\n\n  serialize(): Array<mixed> {\n    if (this.type.kind === 'array' || this.type.kind === 'object')
{\n      return [\"literal\", this.value];\n    } else if (this.value instanceof Color) {\n      // Constant-folding
can generate Literal expressions that you\n      // couldn't actually generate with a \"literal\" expression,\n
// so we have to implement an equivalent serialization here\n      return [\"rgba\"].concat(this.value.toArray());\n
    } else if (this.value instanceof Formatted) {\n      // Same as Color\n      return this.value.serialize();\n
    } else {\n      assert(this.value === null ||\n        typeof this.value === 'string' ||\n        typeof this.value
=== 'number' ||\n        typeof this.value === 'boolean');\n      return (this.value:
any);\n    }\n  }\n}\n\nexport default Literal;\n", "@flow\n\nclass RuntimeError {\n  name: string;\n  message: string;\n\n  constructor(message: string) {\n    this.name = 'ExpressionEvaluationError';\n
this.message = message;\n  }\n\n  toJSON() {\n    return this.message;\n  }\n}\n\nexport default
RuntimeError;\n", "@flow\n\nimport assert from 'assert';\nimport {\n  ObjectType,\n  ValueType,\n  StringType,\n  NumberType,\n  BooleanType,\n  checkSubtype,\n  toString,\n  array\n} from
'./types';\nimport RuntimeError from './runtime_error';\nimport {typeof} from './values';\nimport type
{Expression} from './expression';\nimport type ParsingContext from './parsing_context';\nimport type
EvaluationContext from './evaluation_context';\nimport type {Value} from './values';\nimport type {Type} from
'./types';\n\nconst types = {\n  string: StringType,\n  number: NumberType,\n  boolean: BooleanType,\n  object: ObjectType\n};\n\nclass
Assertion implements Expression {\n  type: Type;\n  args: Array<Expression>;\n\n  constructor(type: Type,
args: Array<Expression>) {\n    this.type = type;\n    this.args = args;\n  }\n\n  static parse(args:
$ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n    if (args.length < 2)\n    return
context.error('Expected at least one argument.);\n\n    let i = 1;\n    let type;\n\n    const name: string =
(args[0]: any);\n    if (name === 'array') {\n      let itemType;\n      if (args.length > 2) {\n        const
type = args[1];\n        if (typeof type !== 'string' || !(type in types) || type === 'object')\n        return
context.error(\"The item type argument of \"array\" must be one of string, number, boolean\", 1);\n        itemType
= types[type];\n        i++;\n      } else {\n        itemType = ValueType;\n      }\n      let

```



```

EvaluationContext) {\n    const evaluateSection = section => {\n        const evaluatedContent =
section.content.evaluate(ctx);\n        if (typeof(evaluatedContent) === ResolvedImageType) {\n            return
new FormattedSection(", evaluatedContent, null, null, null);\n        }\n        return new FormattedSection(\n
toString(evaluatedContent),\n
            null,\n            section.scale ? section.scale.evaluate(ctx) : null,\n            section.font ?
section.font.evaluate(ctx).join(',') : null,\n            section.textColor ? section.textColor.evaluate(ctx) : null\n
        );\n    };\n    return new Formatted(this.sections.map(evaluateSection));\n} eachChild(fn:
(Expression) => void) {\n    for (const section of this.sections) {\n        fn(section.content);\n        if
(section.scale) {\n            fn(section.scale);\n        }\n        if (section.font) {\n            fn(section.font);\n
        }\n        if (section.textColor) {\n            fn(section.textColor);\n        }\n    }\n}
possibleOutputs() {\n    // Technically the combinatoric set of all children\n    // Usually, this.text will be
undefined anyway\n    return [undefined];\n}
serialize() {\n    const serialized = ["format"];\n    for (const section of this.sections) {\n
serialized.push(section.content.serialize());\n        const options = {};\n        if (section.scale) {\n
options['font-scale'] = section.scale.serialize();\n        }\n        if (section.font) {\n            options['text-font'] =
section.font.serialize();\n        }\n        if (section.textColor) {\n            options['text-color'] =
section.textColor.serialize();\n        }\n        serialized.push(options);\n    }\n    return serialized;\n
}\n}\n", "// @flow\n\nimport { ResolvedImageType, StringType } from './types';\nimport ResolvedImage from
'./types/resolved_image';\nimport type { Expression } from './expression';\nimport type EvaluationContext from
'./evaluation_context';\nimport type ParsingContext from './parsing_context';\nimport type { Type } from
'./types';\n\nexport default class ImageExpression implements
Expression {\n    type: Type;\n    input: Expression;\n\n    constructor(input: Expression) {\n        this.type =
ResolvedImageType;\n        this.input = input;\n    }\n\n    static parse(args: $ReadOnlyArray<mixed>, context:
ParsingContext): ?Expression {\n        if (args.length !== 2) {\n            return context.error(`Expected two
arguments.`);\n        }\n\n        const name = context.parse(args[1], 1, StringType);\n        if (!name) return
context.error(`No image name provided.`);\n\n        return new ImageExpression(name);\n    }\n\n    evaluate(ctx:
EvaluationContext) {\n        const evaluatedImageName = this.input.evaluate(ctx);\n        let available = false;\n\n        if (ctx.availableImages && ctx.availableImages.indexOf(evaluatedImageName) > -1) {\n            available = true;\n
        }\n\n        return new ResolvedImage({ name: evaluatedImageName, available });\n    }\n\n    eachChild(fn:
(Expression) => void) {\n        fn(this.input);\n    }\n\n    possibleOutputs()\n    {\n        // The output of image is determined by the list of available images in the evaluation context\n        return
[undefined];\n    }\n\n    serialize() {\n        return ["image", this.input.serialize()];\n    }\n}\n", "// @flow\n\nimport
assert from 'assert';\nimport { BooleanType, ColorType, NumberType, StringType, ValueType } from
'./types';\nimport { Color, toString as valueToString, validateRGBA } from './values';\nimport RuntimeError from
'./runtime_error';\nimport Formatted from './types/formatted';\nimport FormatExpression from
'./definitions/format';\nimport ImageExpression from './definitions/image';\nimport ResolvedImage from
'./types/resolved_image';\nimport type { Expression } from './expression';\nimport type ParsingContext from
'./parsing_context';\nimport type EvaluationContext from './evaluation_context';\nimport type { Value } from
'./values';\nimport type { Type } from './types';\n\nconst types = {\n    'to-boolean': BooleanType,\n    'to-color':
ColorType,\n    'to-number': NumberType,\n    'to-string': StringType\n};\n\n/**\n * Special form for error-
coalescing coercion expressions \"to-number\", * \"to-color\". Since these coercions can fail at runtime, they
accept multiple\n * arguments, only evaluating one at a time until one succeeds.\n * * @private\n */\n\nclass
Coercion implements Expression {\n    type: Type;\n    args: Array<Expression>;\n\n    constructor(type: Type, args:
Array<Expression>) {\n        this.type = type;\n        this.args = args;\n    }\n\n    static parse(args:
$ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n        if (args.length < 2)\n            return
context.error(`Expected at least one argument.`);\n\n        const name: string = (args[0]: any);\n\n        assert(types[name], name);\n        if ((name === 'to-boolean' || name === 'to-string') && args.length !== 2)\n            return context.error(`Expected one argument.`);\n\n        const type = types[name];\n    }

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const parsed = [];\n    for (let i = 1; i < args.length; i++) {\n        const input = context.parse(args[i], i,\n        ValueType);\n        if (!input) return null;\n        parsed.push(input);\n    }\n    return new Coercion(type,\n    parsed);\n  }\n  evaluate(ctx: EvaluationContext) {\n    if (this.type.kind === 'boolean') {\n      return\n      Boolean(this.args[0].evaluate(ctx));\n    } else if (this.type.kind === 'color') {\n      let input;\n      let\n      error;\n      for (const arg of this.args) {\n        input = arg.evaluate(ctx);\n        error = null;\n      }\n      if (input instanceof Color) {\n        return input;\n      } else if (typeof input === 'string') {\n        const c = ctx.parseColor(input);\n        if (c) return c;\n      } else if (Array.isArray(input)) {\n        if (input.length < 3 || input.length > 4) {\n          error = `Invalid rgba value ${JSON.stringify(input)}: expected an array containing either three or four numeric\n          values.`;\n        } else {\n          error = validateRGBA(input[0], input[1], input[2], input[3]);\n        }\n        if (!error) {\n          return new Color((input[0]: any) / 255, (input[1]: any) / 255,\n          (input[2]: any) / 255, (input[3]: any));\n        }\n        throw new\n        RuntimeError(error || `Could not parse color from value '${typeof input === 'string' ? input :\n        String(JSON.stringify(input))}'`);\n      } else if (this.type.kind === 'number') {\n        let value = null;\n        for (const arg of this.args) {\n          value = arg.evaluate(ctx);\n          if (value === null) return 0;\n        }\n        const num = Number(value);\n        if (isNaN(num)) continue;\n        return num;\n      }\n      throw new RuntimeError(`Could not convert ${JSON.stringify(value)} to number.`);\n    } else if\n    (this.type.kind === 'formatted') {\n      // There is no explicit 'to-formatted' but this coercion can be implicitly\n      // created by properties that expect the 'formatted' type.\n      return\n      Formatted.fromString(valueToString(this.args[0].evaluate(ctx))); \n    } else if (this.type.kind ===\n    'resolvedImage') {\n      return ResolvedImage.fromString(valueToString(this.args[0].evaluate(ctx))); \n    }\n    else {\n      return valueToString(this.args[0].evaluate(ctx)); \n    }\n  }\n  eachChild(fn: (Expression) =>\n  void) {\n    this.args.forEach(fn);\n  }\n  possibleOutputs(): Array<Value | void> {\n    return\n    [].concat(...this.args.map((arg) => arg.possibleOutputs()));\n  }\n  serialize() {\n    if (this.type.kind ===\n    'formatted') {\n      return new FormatExpression([{\n        content: this.args[0],\n        scale: null,\n        font: null,\n        textColor: null\n      }]).serialize();\n    }\n    if (this.type.kind === 'resolvedImage') {\n      return new\n      ImageExpression(this.args[0]).serialize();\n    }\n    const serialized = [ `to-${this.type.kind}` ];\n    this.eachChild(child => {\n      serialized.push(child.serialize());\n    });\n    return serialized;\n  }\n}\n\nexport default\nCoercion;\n\n// @flow\nimport { Color } from './values';\nimport type { FormattedSection } from\n './types/formatted';\nimport type { GlobalProperties, Feature, FeatureState } from './index';\nconst geometryTypes =\n[ 'Unknown', 'Point', 'LineString', 'Polygon' ];\n\nclass EvaluationContext {\n  globals: GlobalProperties;\n  feature:\n  ?Feature;\n  featureState: ?FeatureState;\n  formattedSection: ?FormattedSection;\n  availableImages:\n  ?Array<string>;\n  _parseColorCache: {[string]: ?Color};\n  constructor() {\n    this.globals = (null: any);\n    this.feature = null;\n    this.featureState = null;\n\n    this.formattedSection = null;\n    this._parseColorCache = {};\n    this.availableImages = null;\n  }\n  id()\n  {\n    return this.feature && 'id' in this.feature ? this.feature.id : null;\n  }\n  geometryType() {\n    return\n    this.feature ? typeof this.feature.type === 'number' ? geometryTypes[this.feature.type] : this.feature.type : null;\n  }\n  properties() {\n    return this.feature && this.feature.properties || {};\n  }\n  parseColor(input: string):\n  ?Color {\n    let cached = this._parseColorCache[input];\n    if (!cached) {\n      cached =\n      this._parseColorCache[input] = Color.parse(input);\n    }\n    return cached;\n  }\n}\n\nexport default\nEvaluationContext;\n\n// @flow\nimport { toString } from './types';\nimport ParsingContext from\n './parsing_context';\nimport EvaluationContext from './evaluation_context';\nimport assert from 'assert';\nimport\n  type { Expression, ExpressionRegistry } from './expression';\nimport\n  type { Type } from './types';\nimport type { Value } from './values';\nexport type Varargs = { | type: Type | };\nntype\nSignature = Array<Type> | Varargs;\nntype Evaluate = (EvaluationContext, Array<Expression>) => Value;\nntype\nDefinition = [Type, Signature, Evaluate] | {\n  | type: Type,\n  | overloads: Array<[Signature, Evaluate]> | };\n\nclass\nCompoundExpression implements Expression {\n  name: string;\n  type: Type;\n  _evaluate: Evaluate;\n  args:\n  Array<Expression>;\n\n  static definitions: { [string]: Definition };\n  constructor(name: string, type: Type,\n
```

```

evaluate: Evaluate, args: Array<Expression> {\n    this.name = name;\n    this.type = type;\n    this._evaluate
= evaluate;\n    this.args = args;\n } \n\n evaluate(ctx: EvaluationContext) {\n    return this._evaluate(ctx,
this.args);\n } \n\n eachChild(fn: (Expression) => void) {\n    this.args.forEach(fn);\n } \n\n
possibleOutputs() {\n    return [undefined];\n } \n\n serialize():
Array<mixed> {\n    return [this.name].concat(this.args.map(arg => arg.serialize()));\n } \n\n static parse(args:
$ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n    const op: string = (args[0]: any);\n
const definition = CompoundExpression.definitions[op];\n    if (!definition) {\n        return
context.error(`Unknown expression \"${op}\". If you wanted a literal array, use [\"literal\", [...]].`, 0);\n    } \n\n
// Now check argument types against each signature\n    const type = Array.isArray(definition) ?\n
definition[0] : definition.type;\n    const availableOverloads = Array.isArray(definition) ?\n
[[definition[1], definition[2]]] :\n    definition.overloads;\n    const overloads =
availableOverloads.filter(([signature]) => (\n        !Array.isArray(signature) || // varargs\n        signature.length
=== args.length - 1 // correct param count\n    ));\n\n    let signatureContext: ParsingContext = (null: any);\n    for (const [params, evaluate] of overloads) {\n        //
Use a fresh context for each attempted signature so that, if\n        // we eventually succeed, we haven't polluted
`context.errors`.\n        signatureContext = new ParsingContext(context.registry, context.path, null,
context.scope);\n        // First parse all the args, potentially coercing to the\n        // types expected by this
overload.\n        const parsedArgs: Array<Expression> = [];\n        let argParseFailed = false;\n        for (let i
= 1; i < args.length; i++) {\n            const arg = args[i];\n            const expectedType = Array.isArray(params)
?\n            params[i - 1] :\n            params.type;\n            const parsed = signatureContext.parse(arg, 1
+ parsedArgs.length, expectedType);\n            if (!parsed) {\n                argParseFailed = true;\n                break;\n            }\n            parsedArgs.push(parsed);\n        }\n        if (argParseFailed) {\n            //
Couldn't coerce args of this overload to expected type, move\n            // on to next one.\n            continue;\n        }\n        if (Array.isArray(params)) {\n            if (params.length !== parsedArgs.length) {\n
signatureContext.error(`Expected ${params.length} arguments, but found ${parsedArgs.length} instead.`);\n            continue;\n        }\n        for (let i = 0; i < parsedArgs.length; i++) {\n            const
expected = Array.isArray(params) ? params[i] : params.type;\n            const arg = parsedArgs[i];\n            signatureContext.concat(i + 1).checkSubtype(expected, arg.type);\n        }\n        if
(signatureContext.errors.length === 0) {\n            return new CompoundExpression(op, type, evaluate,
parsedArgs);\n        }\n        }\n        }\n        assert(!signatureContext || signatureContext.errors.length > 0);\n        if (overloads.length
=== 1) {\n            context.errors.push(...signatureContext.errors);\n        } else {\n            const expected =
overloads.length ? overloads : availableOverloads;\n            const signatures = expected\n                .map(([params])
=> stringifySignature(params))\n                .join(' | ');\n            const actualTypes = [];\n            // For error
message, re-parse arguments without trying to\n            // apply any coercions\n            for (let i = 1; i < args.length;
i++) {\n                const parsed = context.parse(args[i], 1 + actualTypes.length);\n                if (!parsed) return null;\n                actualTypes.push(toString(parsed.type));\n            }\n            context.error(`Expected arguments of type
${signatures}, but found (${actualTypes.join(', ')}) instead.`);\n        }\n        }\n        return null;\n    } \n\n
static register(\n    registry: ExpressionRegistry,\n    definitions: { [string]: Definition } \n ) {\n
assert(!CompoundExpression.definitions);\n    CompoundExpression.definitions = definitions;\n    for (const
name in definitions) {\n        registry[name] = CompoundExpression;\n    }\n}\n\nfunction
stringifySignature(signature: Signature): string {\n    if (Array.isArray(signature)) {\n        return
`${signature.map(toString).join(', ')}`;\n    } else {\n        return `${toString(signature.type)}...`;\n    }\n}\n\nexport default CompoundExpression;\n", "@flow\n\nimport {StringType, BooleanType, CollatorType}
from './types';\nimport Collator from './types/collator';\nimport type {Expression} from './expression';\nimport
type EvaluationContext from './evaluation_context';\nimport type ParsingContext from './parsing_context';\nimport
type {Type} from './types';\n\nexport default class CollatorExpression implements Expression

```

```

{\n  type: Type;\n  caseSensitive: Expression;\n  diacriticSensitive: Expression;\n  locale: Expression | null;\n\n  constructor(caseSensitive: Expression, diacriticSensitive: Expression, locale: Expression | null) {\n    this.type = CollatorType;\n    this.locale = locale;\n    this.caseSensitive = caseSensitive;\n    this.diacriticSensitive = diacriticSensitive;\n  }\n\n  static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n    if (args.length !== 2)\n      return context.error(`Expected one argument.`);\n\n    const options = (args[1]: any);\n    if (typeof options !== \"object\" || Array.isArray(options))\n      return context.error(`Collator options argument must be an object.`);\n\n    const caseSensitive = context.parse(\n      options['case-sensitive'] === undefined ? false : options['case-sensitive'], 1, BooleanType);\n    if (!caseSensitive)\n      return null;\n\n    const diacriticSensitive = context.parse(\n      options['diacritic-sensitive'] === undefined ? false : options['diacritic-sensitive'], 1, BooleanType);\n    if (!diacriticSensitive) return null;\n\n    let locale = null;\n    if (options['locale']) {\n      locale = context.parse(options['locale'], 1, StringType);\n      if (!locale) return null;\n    }\n\n    return new CollatorExpression(caseSensitive, diacriticSensitive, locale);\n  }\n\n  evaluate(ctx: EvaluationContext) {\n    return new Collator(this.caseSensitive.evaluate(ctx), this.diacriticSensitive.evaluate(ctx), this.locale ? this.locale.evaluate(ctx) : null);\n  }\n\n  eachChild(fn: (Expression) => void) {\n    fn(this.caseSensitive);\n    fn(this.diacriticSensitive);\n    if (this.locale) {\n      fn(this.locale);\n    }\n  }\n\n  possibleOutputs() {\n    // Technically the set of possible outputs is the combinatoric set of Collators produced\n    // by all possibleOutputs of locale/caseSensitive/diacriticSensitive\n    // But for the primary use of Collators in comparison operators, we ignore the Collator's\n    // possibleOutputs anyway, so we can get away with leaving this undefined for now.\n    return [undefined];\n  }\n\n  serialize() {\n    const options = {};\n    options['case-sensitive'] = this.caseSensitive.serialize();\n    options['diacritic-sensitive'] = this.diacriticSensitive.serialize();\n    if (this.locale) {\n      options['locale'] = this.locale.serialize();\n    }\n    return [\"collator\", options];\n  }\n}\n\n\"\" @flow\n\nimport CompoundExpression from './compound_expression';\nimport type {Expression} from './expression.js';\n\nfunction isFeatureConstant(e: Expression) {\n  if (e instanceof CompoundExpression) {\n    if (e.name === 'get' && e.args.length === 1) {\n      return false;\n    } else if (e.name === 'feature-state') {\n      return false;\n    } else if (e.name === 'has' && e.args.length === 1) {\n      return false;\n    } else if (\n      e.name === 'properties' ||\n      e.name === 'geometry-type' ||\n      e.name === 'id'\n    ) {\n      return false;\n    } else if (/^filter-/ .test(e.name)) {\n      return false;\n    }\n  }\n\n  let result = true;\n  e.eachChild(arg => {\n    if (result && !isFeatureConstant(arg)) {\n      result = false;\n    }\n  });\n  return result;\n}\n\nfunction isStateConstant(e: Expression) {\n  if (e instanceof CompoundExpression) {\n    if (e.name === 'feature-state') {\n      return false;\n    }\n  }\n\n  let result = true;\n  e.eachChild(arg => {\n    if (result && !isStateConstant(arg)) {\n      result = false;\n    }\n  });\n  return result;\n}\n\nfunction isGlobalPropertyConstant(e: Expression, properties: Array<string>) {\n  if (e instanceof CompoundExpression && properties.indexOf(e.name) >= 0) {\n    return false;\n  }\n  let result = true;\n  e.eachChild((arg) => {\n    if (result && !isGlobalPropertyConstant(arg, properties)) {\n      result = false;\n    }\n  });\n  return result;\n}\n\nexport {isFeatureConstant, isGlobalPropertyConstant, isStateConstant};\n\n\"\" @flow\n\nimport type {Type} from './types';\nimport type {Expression} from './expression';\nimport type ParsingContext from './parsing_context';\nimport type EvaluationContext from './evaluation_context';\n\nclass Var implements Expression {\n  type: Type;\n  name: string;\n  boundExpression: Expression;\n\n  constructor(name: string, boundExpression: Expression) {\n    this.type = boundExpression.type;\n    this.name = name;\n    this.boundExpression = boundExpression;\n  }\n\n  static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n    if (args.length !== 2 || typeof args[1] !== 'string')\n      return context.error(`var expression requires exactly one string literal argument.`);\n\n    const name = args[1];\n    if (!context.scope.has(name)) {\n      return context.error(`Unknown variable \"${name}\". Make sure \"${name}\" has been bound in an enclosing \"let\" expression before using it.`);\n    }\n\n    return new Var(name, context.scope.get(name));\n  }\n}

```



```

(this.checkSubtype(expected, actual)) {\n
    return null;\n
}\n
}\n\n
// If an
expression's
arguments are all literals, we can evaluate\n
// it immediately and replace it with a literal value in the\n
// parsed/compiled result. Expressions that expect an image should\n
// not be resolved here so we can
later get the available images.\n
if (!(parsed instanceof Literal) && (parsed.type.kind !== 'resolvedImage')
&& isConstant(parsed)) {\n
    const ec = new EvaluationContext();\n
    try {\n
parsed = new Literal(parsed.type, parsed.evaluate(ec));\n
    } catch (e) {\n
this.error(e.message);\n
    return null;\n
}\n
}\n\n
return parsed;\n
}\n\n
return this.error(`Unknown expression "${op}". If you wanted a literal array, use ["literal", [...]].`,
0);\n
} else if (typeof expr === 'undefined') {\n
    return this.error(`undefined`
value invalid. Use null instead.);\n
} else if (typeof expr === 'object') {\n
    return this.error(`Bare objects
invalid. Use ["literal", {...}] instead.);\n
} else {\n
    return this.error(`Expected an array, but found
${typeof expr} instead.);\n
}\n
}\n\n
/**\n
 * Returns a copy of this context suitable for parsing the
subexpression at\n
 * index `index`, optionally appending to `let` binding map.\n
 * \n
 * Note that `errors`
property, intended for collecting errors while\n
 * parsing, is copied by reference rather than cloned.\n
 *
@private\n
 * \n
concat(index: number, expectedType?: ?Type, bindings?: Array<[string, Expression]>) {\n
const path = typeof index === 'number' ? this.path.concat(index) : this.path;\n
const scope = bindings ?
this.scope.concat(bindings) : this.scope;\n
return new ParsingContext(\n
    this.registry,\n
    path,\n
    expectedType
|| null,\n
    scope,\n
    this.errors\n
);}\n
}\n\n
/**\n
 * Push a parsing (or type checking) error into
the `this.errors`\n
 * @param error The message\n
 * @param keys Optionally specify the source of the error at a
child\n
 * of the current expression at `this.key`.\n
 * @private\n
 * \n
error(error: string, ...keys:
Array<number>) {\n
const key = `${this.key}${keys.map(k => `[${k}]`).join("")}`;\n
this.errors.push(new
ParsingError(key, error));\n
}\n\n
/**\n
 * Returns null if `t` is a subtype of `expected`; otherwise returns an\n
 * error message and also pushes it to `this.errors`.\n
 * \n
checkSubtype(expected: Type, t: Type): ?string {\n
const error = checkSubtype(expected, t);\n
if (error) this.error(error);\n
return error;\n
}\n\n
}\n\n
export
default ParsingContext;\n\n
function isConstant(expression: Expression) {\n
if (expression instanceof Var) {\n
return isConstant(expression.boundExpression);\n
} else if (expression instanceof CompoundExpression && expression.name === 'error') {\n
return false;\n
}
else if (expression instanceof CollatorExpression) {\n
// Although the results of a Collator expression with fixed
arguments\n
// generally shouldn't change between executions, we can't serialize them\n
// as constant
expressions because results change based on environment.\n
return false;\n
}\n\n
const isTypeAnnotation =
expression instanceof Coercion ||\n
expression instanceof Assertion;\n\n
let childrenConstant = true;\n
expression.eachChild(child => {\n
// We can _almost_ assume that if `expressions` children are constant,\n
// they would already have been evaluated to Literal values when they\n
// were parsed. Type annotations are
the exception, because they might\n
// have been inferred and added after a child was parsed.\n\n
// So we
recurse
into isConstant() for the children of type annotations,\n
// but otherwise simply check whether they are
Literals.\n
if (isTypeAnnotation) {\n
childrenConstant = childrenConstant && isConstant(child);\n
}
else {\n
childrenConstant = childrenConstant && child instanceof Literal;\n
}\n
});\n
if
(!childrenConstant) {\n
return false;\n
}\n\n
return isFeatureConstant(expression) &&\n
isGlobalPropertyConstant(expression, ['zoom', 'heatmap-density', 'line-progress', 'accumulated', 'is-supported-
script']);\n
}\n\n
", /* @flow\n\n
import RuntimeError from './runtime_error';\n\n
import type {Expression} from
'./expression';\n\n
export type Stops = Array<[number, Expression]>;\n\n
/**\n
 * Returns the index of the last stop <=
input, or 0 if it doesn't exist.\n
 * @private\n
 * \n
export function findStopLessThanOrEqualTo(stops:
Array<number>, input: number) {\n
const lastIndex = stops.length - 1;\n
let lowerIndex = 0;\n
let
upperIndex = lastIndex;\n
let currentIndex = 0;\n
let currentValue, nextValue;\n\n
while (lowerIndex <=
upperIndex) {\n
currentIndex = Math.floor((lowerIndex + upperIndex) / 2);\n
currentValue =

```

```

stops[currentIndex];\n    nextValue = stops[currentIndex + 1];\n\n    if (currentValue <= input) {\n        if
(currentIndex === lastIndex || input < nextValue) { // Search complete\n            return currentIndex;\n        }\n\n        lowerIndex = currentIndex + 1;\n    } else if (currentValue > input) {\n        upperIndex =
currentIndex - 1;\n    } else {\n        throw new RuntimeError('Input is not a number.');
```

```

FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, \n * EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, \n * PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR \n * PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY THEORY \n * OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT \n *
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE \n * OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. \n * \n * Ported from Webkit \n *
http://svn.webkit.org/repository/webkit/trunk/Source/WebCore/platform/graphics/UnitBezier.h \n
*/ \n \n module.exports = UnitBezier; \n \n function UnitBezier(p1x, p1y, p2x, p2y) { \n // Calculate the polynomial
coefficients, implicit first and last control points are (0,0) and (1,1). \n this.cx = 3.0 * p1x; \n this.bx = 3.0 * (p2x -
p1x) - this.cx; \n this.ax = 1.0 - this.cx - this.bx; \n \n this.cy = 3.0 * p1y; \n this.by = 3.0 * (p2y - p1y) - this.cy; \n
this.ay = 1.0 - this.cy - this.by; \n \n this.p1x = p1x; \n this.p1y = p1y; \n this.p2x = p2x; \n this.p2y =
p2y; \n } \n \n UnitBezier.prototype.sampleCurveX = function(t) { \n // `ax t^3 + bx t^2 + cx t` expanded using
Horner's rule. \n return ((this.ax * t + this.bx) * t + this.cx) * t; \n }; \n \n UnitBezier.prototype.sampleCurveY =
function(t) { \n return ((this.ay * t + this.by) * t + this.cy) *
t; \n }; \n \n UnitBezier.prototype.sampleCurveDerivativeX = function(t) { \n return (3.0 * this.ax * t + 2.0 * this.bx) *
t + this.cx; \n }; \n \n UnitBezier.prototype.solveCurveX
= function(x, epsilon) { \n if (typeof epsilon === 'undefined') epsilon = 1e-6; \n \n var t0, t1, t2, x2, i; \n // First
try a few iterations of Newton's method -- normally very fast. \n for (t2 = x, i = 0; i < 8; i++) { \n \n x2 =
this.sampleCurveX(t2) - x; \n if (Math.abs(x2) < epsilon) return t2; \n \n var d2 =
this.sampleCurveDerivativeX(t2); \n if (Math.abs(d2) < 1e-6) break; \n \n t2 = t2 - x2 / d2; \n } \n // Fall
back to the bisection method for reliability. \n t0 = 0.0; \n t1 = 1.0; \n t2 = x; \n \n if (t2 < t0) return t0; \n if (t2
> t1) return t1; \n \n while (t0 < t1) { \n \n x2 = this.sampleCurveX(t2); \n if (Math.abs(x2 - x) < epsilon)
return t2; \n \n if (x > x2) { \n t0 = t2; \n } else { \n t1 = t2; \n } \n \n t2 = (t1 - t0) * 0.5 +
t0; \n } \n // Failure. \n return t2; \n }; \n \n UnitBezier.prototype.solve = function(x, epsilon) { \n return
this.sampleCurveY(this.solveCurveX(x, epsilon)); \n }; \n \n // @flow \n \n import Color from './color'; \n \n export
function number(a: number, b: number, t: number) { \n return (a * (1 - t)) + (b * t); \n } \n \n export function
color(from: Color, to: Color, t: number) { \n return new Color( \n number(from.r, to.r, t), \n number(from.g,
to.g, t), \n number(from.b, to.b, t), \n number(from.a, to.a, t) \n ); \n } \n \n export function array(from:
Array<number>, to: Array<number>, t: number): Array<number> { \n return from.map((d, i) => { \n return
number(d, to[i], t); \n }); \n }; \n \n // @flow \n \n import Color from './color'; \n \n import { number as
interpolateNumber } from './interpolate'; \n \n type LABColor = { \n l: number, \n a: number, \n b: number, \n
alpha: number \n }; \n \n type HCLColor = { \n h: number, \n c: number, \n l: number, \n alpha: number \n }; \n \n //
Constants \n const Xn = 0.950470, // D65 standard referent \n Yn = 1, \n Zn = 1.088830, \n
t0 = 4 / 29, \n t1 = 6 / 29, \n t2 = 3 * t1 * t1, \n t3 = t1 * t1 * t1, \n deg2rad = Math.PI / 180, \n rad2deg = 180
/ Math.PI; \n \n // Utilities \n function xyz2lab(t: number) { \n return t > t3 ? Math.pow(t, 1 / 3) : t / t2 +
t0; \n } \n \n function lab2xyz(t: number) { \n return t > t1 ? t * t * t : t2 * (t - t0); \n } \n \n function xyz2rgb(x: number)
{ \n return 255 * (x <= 0.0031308 ? 12.92 * x : 1.055 * Math.pow(x, 1 / 2.4) - 0.055); \n } \n \n function rgb2xyz(x:
number) { \n x /= 255; \n return x <= 0.04045 ? x / 12.92 : Math.pow((x + 0.055) / 1.055, 2.4); \n } \n \n //
LAB \n function rgbToLab(rgbColor: Color): LABColor { \n const b = rgb2xyz(rgbColor.r), \n a =
rgb2xyz(rgbColor.g), \n l = rgb2xyz(rgbColor.b), \n x = xyz2lab((0.4124564 * b + 0.3575761 * a +
0.1804375 * l) / Xn), \n y = xyz2lab((0.2126729 * b + 0.7151522 * a + 0.0721750 * l) / Yn), \n z =
xyz2lab((0.0193339 * b + 0.1191920 * a + 0.9503041 * l) / Zn); \n \n return { \n l: 116 *
y - 16, \n a: 500 * (x - y), \n b: 200 * (y - z), \n alpha: rgbColor.alpha \n }; \n } \n \n function
labToRgb(labColor: LABColor): Color { \n let y = (labColor.l + 16) / 116, \n x = isNaN(labColor.a) ? y : y +
labColor.a / 500, \n z = isNaN(labColor.b) ? y : y - labColor.b / 200; \n y = Yn * lab2xyz(y); \n x = Xn *
lab2xyz(x); \n z = Zn * lab2xyz(z); \n return new Color( \n xyz2rgb(3.2404542 * x - 1.5371385 * y -
0.4985314 * z), // D65 -> sRGB \n xyz2rgb(-0.9692660 * x + 1.8760108 * y + 0.0415560 * z), \n
xyz2rgb(0.0556434 * x - 0.2040259 * y + 1.0572252 * z), \n labColor.alpha \n ); \n } \n \n function

```

```

interpolateLab(from: LABColor, to: LABColor, t: number) {\n  return {\n    l: interpolateNumber(from.l, to.l,
t),\n    a: interpolateNumber(from.a, to.a, t),\n    b: interpolateNumber(from.b, to.b, t),\n    alpha:
interpolateNumber(from.alpha, to.alpha, t)\n  };\n}\n\n// HCL\nfunction rgbToHcl(rgbColor: Color): HCLColor
{\n  const {l, a, b} = rgbToLab(rgbColor);\n  const h = Math.atan2(b, a) * rad2deg;\n  return {\n    h: h < 0 ? h
+ 360 : h,\n    c: Math.sqrt(a * a + b * b),\n    l,\n    alpha: rgbColor.a\n  };\n}\n\nfunction
hclToRgb(hclColor: HCLColor): Color {\n  const h = hclColor.h * deg2rad,\n    c = hclColor.c,\n    l =
hclColor.l;\n  return labToRgb({\n    l,\n    a: Math.cos(h) * c,\n    b: Math.sin(h) * c,\n    alpha:
hclColor.alpha\n  });\n}\n\nfunction interpolateHue(a: number, b: number, t: number) {\n  const d = b - a;\n
return a + t * (d > 180 || d < -180 ? d - 360 * Math.round(d / 360) : d);\n}\n\nfunction interpolateHcl(from:
HCLColor, to: HCLColor, t: number) {\n  return {\n    h: interpolateHue(from.h, to.h, t),\n    c:
interpolateNumber(from.c, to.c, t),\n    l: interpolateNumber(from.l, to.l, t),\n    alpha:
interpolateNumber(from.alpha, to.alpha, t)\n  };\n}\n\nexport const lab = {\n  forward:
rgbToLab,\n  reverse: labToRgb,\n  interpolate: interpolateLab\n};\n\nexport const hcl = {\n  forward:
rgbToHcl,\n  reverse: hclToRgb,\n  interpolate: interpolateHcl\n};\n\n", "// @flow\n\nimport UnitBezier from
'@mapbox/unitbezier';\n\nimport * as interpolate from './util/interpolate';\n\nimport {toString, NumberType,
ColorType} from './types';\n\nimport {findStopLessThanOrEqualTo} from './stops';\n\nimport {hcl, lab} from
'./util/color_spaces';\n\nimport type {Stops} from './stops';\n\nimport type {Expression} from
'./expression';\n\nimport type ParsingContext from './parsing_context';\n\nimport type EvaluationContext from
'./evaluation_context';\n\nimport type {Value} from './values';\n\nimport type {Type} from './types';\n\nexport type
InterpolationType =\n  {\n    name: 'linear' }\n  |\n  {\n    name: 'exponential',\n    base: number }\n  |\n  {\n    name: 'cubic-bezier',\n    controlPoints: [number, number, number, number] }\n};\n\nclass Interpolate implements Expression {\n  type:
Type;\n\n  operator: 'interpolate' | 'interpolate-hcl' | 'interpolate-lab';\n  interpolation: InterpolationType;\n  input:
Expression;\n  labels: Array<number>;\n  outputs: Array<Expression>;\n\n  constructor(type: Type, operator:
'interpolate' | 'interpolate-hcl' | 'interpolate-lab', interpolation: InterpolationType, input: Expression, stops: Stops) {\n
  this.type = type;\n  this.operator = operator;\n  this.interpolation = interpolation;\n  this.input =
input;\n\n  this.labels = [];\n  this.outputs = [];\n  for (const [label, expression] of stops) {\n
  this.labels.push(label);\n  this.outputs.push(expression);\n  }\n}\n\n  static
interpolationFactor(interpolation: InterpolationType, input: number, lower: number, upper: number) {\n  let t =
0;\n  if (interpolation.name === 'exponential') {\n    t = exponentialInterpolation(input, interpolation.base,
lower, upper);\n  } else if (interpolation.name
=== 'linear') {\n    t = exponentialInterpolation(input, 1, lower, upper);\n  } else if (interpolation.name
=== 'cubic-bezier') {\n    const c = interpolation.controlPoints;\n    const ub = new UnitBezier(c[0], c[1], c[2],
c[3]);\n    t = ub.solve(exponentialInterpolation(input, 1, lower, upper));\n  }\n  return t;\n}\n\n  static
parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n  let [operator, interpolation, input,
...rest] = args;\n\n  if (!Array.isArray(interpolation) || interpolation.length === 0) {\n    return
context.error(`Expected an interpolation type expression.`, 1);\n  }\n\n  if (interpolation[0] === 'linear') {\n
  interpolation = {name: 'linear'};\n  } else if (interpolation[0] === 'exponential') {\n    const base =
interpolation[1];\n    if (typeof base !== 'number')\n      return context.error(`Exponential interpolation
requires a numeric base.`, 1, 1);\n    interpolation = {\n      name: 'exponential',\n      base\n
};\n  } else if (interpolation[0] === 'cubic-bezier') {\n    const controlPoints = interpolation.slice(1);\n
if (\n      controlPoints.length !== 4 ||\n      controlPoints.some(t => typeof t !== 'number' || t < 0 || t >
1)\n    ) {\n      return context.error(`Cubic bezier interpolation requires four numeric arguments with
values between 0 and 1.`, 1);\n    }\n    interpolation = {\n      name: 'cubic-bezier',\n      controlPoints: (controlPoints: any)\n    };\n  } else {\n    return context.error(`Unknown interpolation
type ${String(interpolation[0])}`, 1, 0);\n  }\n\n  if (args.length - 1 < 4) {\n    return
context.error(`Expected at least 4 arguments, but found only ${args.length - 1}.`);\n  }\n}\n}

```

```

    if ((args.length - 1) % 2 !== 0) {
      return context.error('Expected an even number of arguments.');
```

}
 input = context.parse(input, 2, NumberType);
 if (!input) return null;
 const stops: Stops = [];
 let outputType: Type = (null: any);
 if (operator === 'interpolate-hcl' || operator === 'interpolate-lab') {
 outputType = ColorType;
 } else if (context.expectedType && context.expectedType.kind !== 'value') {
 outputType = context.expectedType;
 }
 for (let i = 0; i < rest.length; i += 2) {
 const label = rest[i];
 const value = rest[i + 1];
 const labelKey = i + 3;
 const valueKey = i + 4;
 if (typeof label !== 'number') {
 return context.error('Input/output pairs for "interpolate" expressions must be defined using literal numeric values (not computed expressions) for the input values.', labelKey);
 }
 if (stops.length && stops[stops.length - 1][0] >= label) {
 return context.error('Input/output pairs for "interpolate" expressions must be arranged with input values in strictly ascending order.', labelKey);
 }
 const parsed = context.parse(value, valueKey, outputType);
 if (!parsed) return null;
 outputType = outputType || parsed.type;
 stops.push([label, parsed]);
 }
 if (outputType.kind !== 'number' && outputType.kind !== 'color' && (outputType.kind === 'array' && outputType.itemType.kind === 'number' && typeof outputType.N === 'number')) {
 return context.error('Type \${toString(outputType)} is not interpolatable.');

}
 return new Interpolate(outputType, (operator: any), interpolation, input, stops);
 }

 evaluate(ctx: EvaluationContext) {
 const labels = this.labels;
 const outputs = this.outputs;
 if (labels.length === 1) {
 return outputs[0].evaluate(ctx);
 }
 const value = ((this.input.evaluate(ctx): any): number);
 if (value <= labels[0]) {
 return outputs[0].evaluate(ctx);
 }
 const stopCount = labels.length;
 if (value >= labels[stopCount - 1]) {
 return outputs[stopCount - 1].evaluate(ctx);
 }
 const index = findStopLessThanOrEqualTo(labels, value);
 const lower = labels[index];
 const upper = labels[index + 1];
 const t = Interpolate.interpolationFactor(this.interpolation, value, lower, upper);
 const outputLower = outputs[index].evaluate(ctx);
 const outputUpper = outputs[index + 1].evaluate(ctx);
 if (this.operator === 'interpolate') {
 return (interpolate[this.type.kind.toLowerCase()]: any)(outputLower, outputUpper, t); // eslint-disable-line import/namespace
 } else if (this.operator === 'interpolate-hcl') {
 return hcl.reverse(hcl.interpolate(hcl.forward(outputLower), hcl.forward(outputUpper), t));
 } else {
 return lab.reverse(lab.interpolate(lab.forward(outputLower), lab.forward(outputUpper), t));
 }
 }

 eachChild(fn: (Expression) => void) {
 fn(this.input);
 for (const expression of this.outputs) {
 fn(expression);
 }
 }

 possibleOutputs(): Array<Value | void> {
 return [].concat(...this.outputs.map((output) => output.possibleOutputs()));
 }

 serialize(): Array<mixed> {
 let interpolation;
 if (this.interpolation.name === 'linear') {
 interpolation = ["linear"];
 } else if (this.interpolation.name === 'exponential') {
 if (this.interpolation.base === 1) {
 interpolation = ["linear"];
 } else {
 interpolation = ["exponential", this.interpolation.base];
 }
 } else {
 interpolation = ["cubic-bezier"].concat(this.interpolation.controlPoints);
 }
 const serialized = [this.operator, interpolation, this.input.serialize()];
 for (let i = 0; i < this.labels.length; i++) {
 serialized.push(this.labels[i], this.outputs[i].serialize());
 }
 return serialized;
 }
}

/\*\*
 \* Returns a ratio that can be used to interpolate between exponential function
 \* stops.
 \* How it works: Two consecutive stop values define a (scaled and shifted) exponential function `f(x) = a \* base^x + b`, where `base` is the user-specified base,
 \* and `a` and `b` are constants affording sufficient degrees of freedom to fit
 \* the function to the given stops.
 \* Here's a bit of algebra that lets us compute
 \* `f(x)` directly from the stop values without explicitly solving for `a` and `b`:
 \* First stop value: `f(x0) = y0 = a \* base^x0 + b`
 \* Second stop value: `f(x1) = y1 = a \* base^x1 + b`
 \* => `y1 - y0 = a(base^x1 - base^x0)`
 \* => `a = (y1 - y0)/(base^x1 - base^x0)`
 \* Desired value: `f(x) = y = a \* base^x + b`
 \* => `f(x) = y0 + a \* (base^x - base^x0)`
 \* From the above, we can replace the `a` in `a \* (base^x - base^x0)` and do a little algebra:
 \* `a \* (base^x - base^x0) = (y1 - y0)/(base^x1 - base^x0) \* (base^x - base^x0)`
 \* =
 \* (y1 - y0) \* (base^x - base^x0) / (base^x1 - base^x0)`
 \* If we let `(base^x - base^x0) / (base^x1 - base^x0)`

base<sup>x0</sup>), then we have  $f(x) = y0 + (y1 - y0) * \text{ratio}$ . In other words, `ratio` may be treated as an interpolation factor between the two stops' output values. (Note: a slightly different form for `ratio`,  $(\text{base}^{(x-x0)} - 1) / (\text{base}^{(x1-x0)} - 1)$ , is equivalent, but requires fewer expensive `Math.pow()` operations.)

```

@private
function exponentialInterpolation(input, base,
lowerValue, upperValue) {
  const difference = upperValue - lowerValue;
  const progress = input - lowerValue;
  if (difference === 0) {
    return 0;
  } else if (base === 1) {
    return progress / difference;
  } else {
    return (Math.pow(base, progress) - 1) / (Math.pow(base, difference) - 1);
  }
}

export default Interpolate;
"// @flow
import assert from 'assert';
import {checkSubtype, ValueType} from './types';
import ResolvedImage from './types/resolved_image';
import type {Expression} from './expression';
import type ParsingContext from './parsing_context';
import type EvaluationContext from './evaluation_context';
import type {Value} from './values';
import type {Type} from './types';
class Coalesce implements Expression {
  type: Type;
  args: Array<Expression>;
  constructor(type: Type, args: Array<Expression>) {
    this.type = type;
    this.args = args;
  }
  static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {
    if (args.length < 2) {
      return context.error("Expected at least one argument.");
    }
    let outputType: Type = (null: any);
    const expectedType = context.expectedType;
    if (expectedType && expectedType.kind !== 'value') {
      outputType = expectedType;
    }
    const parsedArgs = [];
    for (const arg of args.slice(1)) {
      const parsed = context.parse(arg, 1 + parsedArgs.length, outputType, undefined, {typeAnnotation: 'omit'});
      if (!parsed) {
        outputType = outputType || parsed.type;
        parsedArgs.push(parsed);
      }
      assert(outputType);
      // Above, we parse arguments without inferred type annotation so that they don't produce a runtime error for `null`
      // input, which would preempt the desired null-coalescing behavior.
      // Thus, if any of our arguments would have needed an annotation, we need to wrap the enclosing coalesce expression with it instead.
      const needsAnnotation = expectedType && parsedArgs.some(arg => checkSubtype(expectedType, arg.type));
      return needsAnnotation ? new Coalesce(ValueType, parsedArgs) : new Coalesce((outputType: any), parsedArgs);
    }
    evaluate(ctx: EvaluationContext) {
      let result = null;
      let argCount = 0;
      let requestedImageName;
      for (const arg of this.args) {
        argCount++;
        result = arg.evaluate(ctx);
        // we need to keep track of the first requested image in a coalesce statement
        // if coalesce can't find a valid image, we return the first image name so styleimagemissing can fire
        if (result && result instanceof ResolvedImage && !result.available) {
          if (!requestedImageName) {
            requestedImageName = result.name;
          }
          result = null;
        }
        if (argCount === this.args.length) {
          if (result !== null) {
            break;
          }
          return result;
        }
      }
      eachChild(fn: (Expression) => void) {
        this.args.forEach(fn);
      }
      possibleOutputs(): Array<Value | void> {
        return [].concat(...this.args.map((arg) => arg.possibleOutputs()));
      }
      serialize() {
        const serialized = ["coalesce"];
        this.eachChild(child => {
          serialized.push(child.serialize());
        });
        return serialized;
      }
    }
  }
}

export default Coalesce;
"// @flow
import type {Type} from './types';
import type {Expression} from './expression';
import type ParsingContext from './parsing_context';
import type EvaluationContext from './evaluation_context';
class Let implements Expression {
  type: Type;
  bindings: Array<[string, Expression]>;
  result: Expression;
  constructor(bindings: Array<[string, Expression]>, result: Expression) {
    this.type = result.type;
    this.bindings = [].concat(bindings);
    this.result = result;
  }
  evaluate(ctx: EvaluationContext) {
    return this.result.evaluate(ctx);
  }
  eachChild(fn: (Expression) => void) {
    for (const binding of this.bindings) {
      fn(binding[1]);
    }
    fn(this.result);
  }
  static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {
    if (args.length < 4) {
      return context.error("Expected at least 3 arguments, but found ${args.length - 1} instead.");
    }
    const bindings: Array<[string, Expression]> = [];
    for (let i = 1; i < args.length - 1; i += 2) {
      const name = args[i];

```

```

    if (typeof name !== 'string') {\n        return context.error(`Expected string, but found ${typeof name}
instead.`);
    }\n\n    if (/^[a-zA-Z0-9_]/.test(name)) {\n        return context.error(`Variable names
must contain only alphanumeric characters or '_'`);
    }\n\n    const value = context.parse(args[i + 1], i
+ 1);\n    if (!value) return null;\n    bindings.push([name, value]);\n    }\n\n    const result =
context.parse(args[args.length - 1], args.length - 1, context.expectedType, bindings);\n    if (!result) return
null;\n\n    return new Let(bindings, result);\n    }\n\n    possibleOutputs() {\n        return
this.result.possibleOutputs();\n    }\n\n    serialize() {\n        const serialized = [\"let\"];\n        for (const [name, expr]
of this.bindings) {\n            serialized.push(name, expr.serialize());\n        }\n        serialized.push(this.result.serialize());\n
    }\n\n    return serialized;\n    }\n}\n\nexport default Let;\n\"\" @flow\n\nimport {array, ValueType, NumberType} from
'./types';\n\nimport RuntimeError from './runtime_error';\n\nimport type {Expression} from './expression';\nimport
type ParsingContext from './parsing_context';\nimport type EvaluationContext from './evaluation_context';\nimport
type {Type, ArrayType} from './types';\nimport type {Value} from './values';\n\nclass At implements Expression
{\n    type: Type;\n    index: Expression;\n    input: Expression;\n\n    constructor(type: Type, index: Expression,
input: Expression) {\n        this.type = type;\n        this.index = index;\n        this.input = input;\n    }\n\n    static
parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n        if (args.length !== 3)\n            return
context.error(`Expected 2 arguments, but found ${args.length - 1} instead.`);\n        const index =
context.parse(args[1], 1, NumberType);\n        const input = context.parse(args[2],
2, array(context.expectedType || ValueType));\n\n        if (!index || !input) return null;\n\n        const t: ArrayType =
(input.type: any);\n        return new At(t.itemType, index, input);\n    }\n\n    evaluate(ctx: EvaluationContext) {\n
        const index = ((this.index.evaluate(ctx): any): number);\n        const array = ((this.input.evaluate(ctx): any):
Array<Value>);\n\n        if (index < 0) {\n            throw new RuntimeError(`Array index out of bounds: ${index} <
0.`);\n        }\n\n        if (index >= array.length) {\n            throw new RuntimeError(`Array index out of bounds:
${index} > ${array.length - 1}.`);\n        }\n\n        if (index !== Math.floor(index)) {\n            throw new
RuntimeError(`Array index must be an integer, but found ${index} instead.`);\n        }\n\n        return array[index];\n
    }\n\n    eachChild(fn: (Expression) => void) {\n        fn(this.index);\n        fn(this.input);\n    }\n\n    possibleOutputs() {\n        return [undefined];\n
    }\n\n    serialize() {\n        return [\"at\", this.index.serialize(), this.input.serialize()];\n    }\n}\n\nexport default
At;\n\"\" @flow\n\nimport {ValueType, BooleanType, toString} from './types';\nimport RuntimeError from
'./runtime_error';\nimport {typeof} from './values';\n\nimport type {Expression} from './expression';\nimport type
ParsingContext from './parsing_context';\nimport type EvaluationContext from './evaluation_context';\nimport type
{Type} from './types';\nimport type {Value} from './values';\n\nfunction isComparableType(type: Type) {\n
return type.kind === 'boolean' ||\n        type.kind === 'string' ||\n        type.kind === 'number' ||\n        type.kind
=== 'null' ||\n        type.kind === 'value';\n}\n\nfunction isComparableRuntimeValue(needle: boolean | string |
number | null) {\n    return typeof needle === 'boolean' ||\n        typeof needle === 'string' ||\n        typeof needle
=== 'number';\n}\n\nfunction isSearchableRuntimeValue(haystack:
Array<Value> | string) {\n    return Array.isArray(haystack) ||\n        typeof haystack === 'string';\n}\n\nclass In
implements Expression {\n    type: Type;\n    needle: Expression;\n    haystack: Expression;\n\n    constructor(needle: Expression, haystack: Expression) {\n        this.type = BooleanType;\n        this.needle =
needle;\n        this.haystack = haystack;\n    }\n\n    static parse(args: $ReadOnlyArray<mixed>, context:
ParsingContext) {\n        if (args.length !== 3) {\n            return context.error(`Expected 2 arguments, but found
${args.length - 1} instead.`);\n        }\n\n        const needle = context.parse(args[1], 1, ValueType);\n        const
haystack = context.parse(args[2], 2, ValueType);\n\n        if (!needle || !haystack) return null;\n\n        if
(!isComparableType(needle.type)) {\n            return context.error(`Expected first argument to be of type boolean,
string, number or null, but found ${toString(needle.type)}
instead`);\n        }\n\n        return new In(needle, haystack);\n    }\n\n    evaluate(ctx: EvaluationContext) {\n
        const needle = (this.needle.evaluate(ctx): any);\n        const haystack = (this.haystack.evaluate(ctx): any);\n\n        if
(!needle || !haystack) return false;\n\n        if (!isComparableRuntimeValue(needle)) {\n            throw new

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RuntimeError(`Expected first argument to be of type boolean, string or number, but found
${toString(typeOf(needle))} instead.`);
}
if (!isSearchableRuntimeValue(haystack)) {
  throw
  new RuntimeError(`Expected second argument to be of type array or string, but found
${toString(typeOf(haystack))} instead.`);
}
return haystack.indexOf(needle) >= 0;
}
eachChild(fn: (Expression) => void) {
  fn(this.needle);
  fn(this.haystack);
}
possibleOutputs()
{
  return [true, false];
}
serialize()
{
  return ["in", this.needle.serialize(),
  this.haystack.serialize()];
}
}
export default In;
/** @flow
import assert from 'assert';
import {typeOf} from '../values';
import {ValueType, type Type} from '../types';
import type {Expression} from
'./expression';
import type ParsingContext from './parsing_context';
import type EvaluationContext from
'./evaluation_context';
import type {Value} from '../values';
// Map input label values to output expression
index
type Cases = {[number | string]: number};
class Match implements Expression {
  type: Type;
  inputType: Type;
  input: Expression;
  cases: Cases;
  outputs: Array<Expression>;
  otherwise:
  Expression;
  constructor(inputType: Type, outputType: Type, input: Expression, cases: Cases, outputs:
  Array<Expression>, otherwise: Expression) {
    this.inputType = inputType;
    this.type = outputType;
    this.input = input;
    this.cases = cases;
    this.outputs = outputs;
    this.otherwise
    = otherwise;
  }
  static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext)
  {
    if
    (args.length < 5)
      return context.error(`Expected at least 4 arguments, but found only ${args.length - 1}.`);
    if (args.length % 2 !== 1)
      return context.error(`Expected an even number of arguments.`);
    let
    inputType;
    let outputType;
    if (context.expectedType && context.expectedType.kind !== 'value')
      {
        outputType = context.expectedType;
      }
    const cases = {};
    const outputs = [];
    for (let i = 2;
    i < args.length - 1; i += 2)
      {
        let labels = args[i];
        const value = args[i + 1];
        if
        (!Array.isArray(labels))
          {
            labels = [labels];
          }
        const labelContext =
        context.concat(i);
        if (labels.length === 0)
          return labelContext.error(`Expected at least one
        branch label.`);
      }
    for (const label of labels)
      {
        if (typeof label !== 'number' && typeof label !== 'string')
          {
            return labelContext.error(`Branch labels must be numbers or strings.`);
          }
        else if (typeof
        label === 'number' && Math.abs(label) > Number.MAX_SAFE_INTEGER)
          {
            return
            labelContext.error(`Branch labels must be integers no larger than ${Number.MAX_SAFE_INTEGER}.`);
          }
        }
        else if (typeof label === 'number' && Math.floor(label) !== label)
          {
            return
            labelContext.error(`Numeric branch labels must be integer values.`);
          }
        }
        else if (!inputType)
          {
            inputType = typeOf(label);
          }
        }
        else if (labelContext.checkSubtype(inputType, typeOf(label)))
          {
            return
            null;
          }
        }
        if (typeof cases[String(label)] !== 'undefined')
          {
            return
            labelContext.error(`Branch
            labels must be unique.`);
          }
        cases[String(label)] = outputs.length;
      }
    const
    result = context.parse(value, i, outputType);
    if (!result)
      return null;
    outputType = outputType ||
    result.type;
    outputs.push(result);
  }
  const input = context.parse(args[1], 1, ValueType);
  if (!input)
    return null;
  const otherwise = context.parse(args[args.length - 1], args.length - 1, outputType);
  if (!otherwise)
    return null;
  assert(inputType && outputType);
  if (input.type.kind !== 'value' &&
  context.concat(1).checkSubtype((inputType: any), input.type))
    {
      return
      null;
    }
  return new
  Match((inputType: any), (outputType: any), input, cases, outputs, otherwise);
}
evaluate(ctx:
  EvaluationContext)
{
  const input = (this.input.evaluate(ctx): any);
  const output = (typeOf(input) ===
  this.inputType
  && this.outputs[this.cases[input]]) || this.otherwise;
  return output.evaluate(ctx);
}
eachChild(fn:
  (Expression) => void)
{
  fn(this.input);
  this.outputs.forEach(fn);
  fn(this.otherwise);
}
possibleOutputs(): Array<Value | void>
{
  return []
  .concat(...this.outputs.map((out) =>
  out.possibleOutputs()))
  .concat(this.otherwise.possibleOutputs());
}
serialize(): Array<mixed>
{
  const serialized = ["match", this.input.serialize()];
  // Sort so serialization has an arbitrary defined order,
  even though
  // branch order doesn't affect evaluation
  const sortedLabels =

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Object.keys(this.cases).sort();\n\n    // Group branches by unique match expression to support condensed\n    // serializations of the form [case1, case2, ...] -> matchExpression\n    const groupedByOutput: Array<[number,\n    Array<number | string>]> = [];\n    const outputLookup:\n    {[index: number]: number} = {};\n    // lookup index into groupedByOutput for a given output expression\n    for\n    (const label of sortedLabels) {\n        const outputIndex = outputLookup[this.cases[label]];\n        if\n        (outputIndex === undefined) {\n            // First time seeing this output, add it to the end of the grouped list\n            outputLookup[this.cases[label]] = groupedByOutput.length;\n            groupedByOutput.push([this.cases[label],\n            [label]]);\n        } else {\n            // We've seen this expression before, add the label to that output's group\n            groupedByOutput[outputIndex][1].push(label);\n        }\n    }\n\n    const coerceLabel = (label) =>\n    this.inputType.kind === 'number' ? Number(label) : label;\n\n    for (const [outputIndex, labels] of\n    groupedByOutput) {\n        if (labels.length === 1) {\n            // Only a single label matches this output\n            expression\n            serialized.push(coerceLabel(labels[0]));\n        } else {\n            // Array of literal labels pointing to this output expression\n            serialized.push(labels.map(coerceLabel));\n        }\n    }\n\n    serialized.push(this.outputs[outputIndex].serialize());\n    }\n    serialized.push(this.otherwise.serialize());\n\n    return serialized;\n  }\n}\n\nexport default Match;\n", "/* @flow\n\nimport assert from 'assert';\n\nimport\n    {BooleanType} from './types';\n\nimport type {Expression} from './expression';\n\nimport type ParsingContext from\n    './parsing_context';\n\nimport type EvaluationContext from './evaluation_context';\n\nimport type {Value} from\n    './values';\n\nimport type {Type} from './types';\n\ntype Branches = Array<[Expression, Expression]>;\n\nclass Case\n    implements Expression {\n    type: Type;\n    branches: Branches;\n    otherwise: Expression;\n\n    constructor(type: Type, branches: Branches, otherwise: Expression) {\n        this.type = type;\n        this.branches = branches;\n        this.otherwise = otherwise;\n    }\n\n    static parse(args:\n    $ReadOnlyArray<mixed>, context: ParsingContext) {\n        if (args.length < 4)\n            return\n            context.error(`Expected at least 3 arguments, but found only ${args.length - 1}.`);\n        if (args.length % 2 !== 0)\n            return context.error(`Expected an odd number of arguments.`);\n\n        let outputType: ?Type;\n        if\n        (context.expectedType && context.expectedType.kind !== 'value') {\n            outputType =\n            context.expectedType;\n        }\n\n        const branches = [];\n        for (let i = 1; i < args.length - 1; i += 2) {\n            const test = context.parse(args[i], i, BooleanType);\n            if (!test) return null;\n            const result =\n            context.parse(args[i + 1], i + 1, outputType);\n            if (!result) return null;\n            branches.push([test,\n            result]);\n            outputType = outputType || result.type;\n        }\n\n        const otherwise = context.parse(args[args.length - 1], args.length - 1, outputType);\n        if (!otherwise) return\n        null;\n        assert(outputType);\n        return new Case((outputType: any), branches, otherwise);\n    }\n\n    evaluate(ctx: EvaluationContext) {\n        for (const [test, expression] of this.branches) {\n            if\n            (test.evaluate(ctx)) {\n                return expression.evaluate(ctx);\n            }\n        }\n        return\n        this.otherwise.evaluate(ctx);\n    }\n\n    eachChild(fn: (Expression) => void) {\n        for (const [test, expression] of\n        this.branches) {\n            fn(test);\n            fn(expression);\n        }\n        fn(this.otherwise);\n    }\n\n    possibleOutputs(): Array<Value | void> {\n        return []\n            .concat(...this.branches.map(([, out]) =>\n            out.possibleOutputs()))\n            .concat(this.otherwise.possibleOutputs());\n    }\n\n    serialize() {\n        const\n        serialized = [\"case\"];\n        this.eachChild(child\n        => {\n            serialized.push(child.serialize());\n        });\n        return serialized;\n    }\n}\n\nexport default Case;\n", "/*\n@flow\n\nimport {toString, ValueType, BooleanType, CollatorType} from './types';\nimport Assertion from\n    './assertion';\nimport {typeof} from './values';\nimport RuntimeError from './runtime_error';\n\nimport type\n    {Expression} from './expression';\nimport type EvaluationContext from './evaluation_context';\nimport type\n    ParsingContext from './parsing_context';\nimport type {Type} from './types';\n\ntype ComparisonOperator = '===' |\n    '!=' | '<' | '>' | '<=' | '>=';\n\nfunction isComparableType(op: ComparisonOperator, type: Type) {\n    if (op === '===' |\n    '!=' | '<' | '>' | '<=' | '>=')\n        return type.kind === 'boolean' ||\n        type.kind === 'string' ||\n        type.kind === 'number' ||\n        type.kind === 'null' ||\n        type.kind === 'value';\n    } else {\n        //\n        ordering operator\n        return type.kind === 'string'\n    }\n}

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    type.kind === 'number' || type.kind === 'value';
  }
}

function eq(ctx, a, b) { return a === b; }
function neq(ctx, a, b) { return a !== b; }
function lt(ctx, a, b) { return a < b; }
function gt(ctx, a, b) { return a > b; }
function lteq(ctx, a, b) { return a <= b; }
function gteq(ctx, a, b) { return a >= b; }
function eqCollate(ctx, a, b, c) { return c.compare(a, b) === 0; }
function neqCollate(ctx, a, b, c) { return !eqCollate(ctx, a, b, c); }
function ltCollate(ctx, a, b, c) { return c.compare(a, b) < 0; }
function gtCollate(ctx, a, b, c) { return c.compare(a, b) > 0; }
function lteqCollate(ctx, a, b, c) { return c.compare(a, b) <= 0; }
function gteqCollate(ctx, a, b, c) { return c.compare(a, b) >= 0; }

/**
 * Special form for comparison operators, implementing the
 * signatures:
 * - (T, T, ?Collator) => boolean
 * - (T, value, ?Collator) => boolean
 * - (value, T, ?Collator) => boolean
 * For inequalities, T must be either
 * value, string, or number. For ==/!=, it can also be boolean or null.
 * Equality semantics are equivalent to Javascript's strict equality (===/!==) -- i.e., when the arguments' types don't match, == evaluates to false, != to true.
 * When types don't match in an ordering comparison, a runtime error is thrown.
 * @private
 */
function makeComparison(op: ComparisonOperator, compareBasic, compareWithCollator) {
  const isOrderComparison = op !== '=' && op !== '!';
  return class Comparison implements Expression {
    type: Type;
    lhs: Expression;
    rhs: Expression;
    collator: ?Expression;
    hasUntypedArgument: boolean;
    constructor(lhs: Expression, rhs: Expression, collator: ?Expression) {
      this.type = BooleanType;
      this.lhs = lhs;
      this.rhs = rhs;
      this.collator = collator;
      this.hasUntypedArgument = lhs.type.kind === 'value' || rhs.type.kind === 'value';
    }
    static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {
      if (args.length !== 3 && args.length !== 4) {
        return context.error(`Expected two or three arguments.`);
      }
      const op: ComparisonOperator = (args[0]: any);
      let lhs = context.parse(args[1], 1, ValueType);
      if (!lhs) return null;
      if (!isComparableType(op, lhs.type)) {
        return context.concat(1).error(`"${op}" comparisons are not supported for type '${toString(lhs.type)}'.`);
      }
      let rhs = context.parse(args[2], 2, ValueType);
      if (!rhs) return null;
      if (!isComparableType(op, rhs.type)) {
        return context.concat(2).error(`"${op}" comparisons are not supported for type '${toString(rhs.type)}'.`);
      }
      if (lhs.type.kind !== rhs.type.kind && lhs.type.kind !== 'value' && rhs.type.kind !== 'value') {
        return context.error(`Cannot compare types '${toString(lhs.type)}' and '${toString(rhs.type)}'.`);
      }
      if (isOrderComparison) {
        // typing rules specific to less/greater than operators
        if (lhs.type.kind === 'value' && rhs.type.kind !== 'value') {
          // (value, T)
          lhs = new Assertion(rhs.type, [lhs]);
        } else if (lhs.type.kind !== 'value' && rhs.type.kind === 'value') {
          // (T, value)
          rhs = new Assertion(lhs.type, [rhs]);
        }
      }
      let collator = null;
      if (args.length === 4) {
        if (lhs.type.kind !== 'string' && rhs.type.kind !== 'string' && lhs.type.kind !== 'value' && rhs.type.kind !== 'value') {
          return context.error(`Cannot use collator to compare non-string types.`);
        }
        collator = context.parse(args[3], 3, CollatorType);
        if (!collator) return null;
      }
      return new Comparison(lhs, rhs, collator);
    }
    evaluate(ctx: EvaluationContext) {
      const lhs = this.lhs.evaluate(ctx);
      const rhs = this.rhs.evaluate(ctx);
      if (isOrderComparison && this.hasUntypedArgument) {
        const lt = typeOf(lhs);
        const rt = typeOf(rhs);
        // check that type is string or number, and equal
        if (lt.kind !== rt.kind || !(lt.kind === 'string' || lt.kind === 'number')) {
          throw new RuntimeError(`Expected arguments for "${op}" to be (string, string) or (number, number), but found (${lt.kind}, ${rt.kind}) instead.`);
        }
      }
      if (this.collator && !isOrderComparison && this.hasUntypedArgument) {
        const lt = typeOf(lhs);
        const rt = typeOf(rhs);
        if (lt.kind !== 'string' || rt.kind !== 'string') {
          return compareBasic(ctx, lhs, rhs);
        }
        return this.collator ? compareWithCollator(ctx, lhs, rhs, this.collator.evaluate(ctx)) : compareBasic(ctx, lhs, rhs);
      }
      eachChild(fn: (Expression) => void) {
        fn(this.lhs);
        fn(this.rhs);
      }
      if (this.collator) {

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    fn(this.collator);\n        }\n        }\n        possibleOutputs() {\n            return [true, false];\n        }\n        serialize() {\n            const serialized = [op];\n            this.eachChild(child => { serialized.push(child.serialize());\n        });\n        return serialized;\n    }\n};\n\nexport const Equals = makeComparison('==',\n    eq, eqCollate);\nexport const NotEquals = makeComparison('!=', neq, neqCollate);\nexport const LessThan =\n    makeComparison('<', lt, ltCollate);\nexport const GreaterThan = makeComparison('>', gt, gtCollate);\nexport const\n    LessThanOrEqual = makeComparison('<=', lteq, lteqCollate);\nexport const GreaterThanOrEqual =\n    makeComparison('>=', gteq, gteqCollate);\n\n"/ @flow\n\nimport {StringType, NumberType} from\n    './types';\nimport type {Expression} from './expression';\nimport type EvaluationContext from\n    './evaluation_context';\nimport type ParsingContext from './parsing_context';\nimport type {Type} from\n    './types';\n\ndeclare var Intl: {\n    NumberFormat: Class<Intl$NumberFormat>\n};\n\ndeclare class\n    Intl$NumberFormat {\n    constructor (\n        locales?: string | string[],\n        options?: NumberFormatOptions\n    ):\n    Intl$NumberFormat;\n\n    static (\n        locales?: string | string[],\n        options?: NumberFormatOptions\n    ):\n    Intl$NumberFormat;\n\n    format(a:\n        number): string;\n\n    resolvedOptions(): any;\n}\n\ntype NumberFormatOptions = {\n    style?: 'decimal' |\n    'currency' | 'percent';\n    currency?: null | string;\n    minimumFractionDigits?: null | string;\n    maximumFractionDigits?: null | string;\n};\n\nexport default class NumberFormat implements Expression {\n    type: Type;\n    number: Expression;\n    locale: Expression | null; // BCP 47 language tag\n    currency: Expression\n    | null; // ISO 4217 currency code, required if style=currency\n    minFractionDigits: Expression | null; // Default 0\n    maxFractionDigits: Expression | null; // Default 3\n\n    constructor(number: Expression,\n        locale:\n        Expression | null,\n        currency: Expression | null,\n        minFractionDigits: Expression | null,\n        maxFractionDigits: Expression | null) {\n        this.type = StringType;\n        this.number = number;\n        this.locale\n        = locale;\n        this.currency = currency;\n        this.minFractionDigits\n        = minFractionDigits;\n        this.maxFractionDigits = maxFractionDigits;\n    }\n\n    static parse(args:\n    $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n        if (args.length !== 3)\n            return\n            context.error(`Expected two arguments.`);\n        const number = context.parse(args[1], 1, NumberType);\n        if\n        (!number) return null;\n        const options = (args[2]: any);\n        if (typeof options !== 'object' ||\n            Array.isArray(options))\n            return context.error(`NumberFormat options argument must be an object.`);\n        let locale = null;\n        if (options['locale']) {\n            locale = context.parse(options['locale'], 1, StringType);\n            if (!locale) return null;\n        }\n        let currency = null;\n        if (options['currency']) {\n            currency =\n            context.parse(options['currency'], 1, StringType);\n            if (!currency) return null;\n        }\n        let\n        minFractionDigits = null;\n        if (options['min-fraction-digits']) {\n            minFractionDigits = context.parse(options['min-fraction-digits'], 1,\n            NumberType);\n            if (!minFractionDigits) return null;\n        }\n        let maxFractionDigits = null;\n        if\n        (options['max-fraction-digits']) {\n            maxFractionDigits = context.parse(options['max-fraction-digits'], 1,\n            NumberType);\n            if (!maxFractionDigits) return null;\n        }\n        return new NumberFormat(number,\n        locale, currency, minFractionDigits, maxFractionDigits);\n    }\n\n    evaluate(ctx: EvaluationContext) {\n        return\n        new Intl.NumberFormat(this.locale ? this.locale.evaluate(ctx) : [],\n            {\n                style: this.currency ?\n                'currency' : 'decimal',\n                currency: this.currency ? this.currency.evaluate(ctx) : undefined,\n                minimumFractionDigits: this.minFractionDigits ? this.minFractionDigits.evaluate(ctx) : undefined,\n                maximumFractionDigits:\n                this.maxFractionDigits ? this.maxFractionDigits.evaluate(ctx) : undefined,\n            }\n        ).format(this.number.evaluate(ctx));\n    }\n\n    eachChild(fn: (Expression) => void) {\n        fn(this.number);\n        if (this.locale) {\n            fn(this.locale);\n        }\n        if (this.currency) {\n            fn(this.currency);\n        }\n        if (this.minFractionDigits) {\n            fn(this.minFractionDigits);\n        }\n        if (this.maxFractionDigits) {\n            fn(this.maxFractionDigits);\n        }\n    }\n\n    possibleOutputs() {\n        return [undefined];\n    }\n\n    serialize()\n    {\n        const options = {};\n        if (this.locale) {\n            options['locale'] = this.locale.serialize();\n        }\n        if\n        (this.currency) {\n            options['currency'] = this.currency.serialize();\n        }\n        if (this.minFractionDigits) {\n            options['min-fraction-digits'] = this.minFractionDigits.serialize();\n        }\n        if (this.maxFractionDigits)

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    {\n      options['max-fraction-digits'] = this.maxFractionDigits.serialize();\n    }\n    return ["number-
format", this.number.serialize(), options];\n  }\n}\n", "// @flow\n\nimport {NumberType, toString} from
'./types';\n\nimport {typeOf} from './values';\nimport RuntimeError from './runtime_error';\n\nimport type
{Expression} from './expression';\nimport type ParsingContext from './parsing_context';\nimport type
EvaluationContext from './evaluation_context';\nimport type {Type} from './types';\n\nclass Length implements
Expression {\n  type: Type;\n  input: Expression;\n\n  constructor(input: Expression) {\n    this.type =
NumberType;\n    this.input = input;\n  }\n\n  static parse(args: $ReadOnlyArray<mixed>, context:
ParsingContext) {\n    if (args.length !== 2)\n      return context.error(`Expected 1 argument, but found
${args.length - 1} instead.`);\n\n    const input = context.parse(args[1], 1);\n\n    if (!input) return null;\n\n    if (input.type.kind !== 'array' && input.type.kind !== 'string' && input.type.kind
!== 'value')\n      return context.error(`Expected argument of type string or array, but found
${toString(input.type)} instead.`);\n\n    return new Length(input);\n  }\n\n  evaluate(ctx: EvaluationContext)
{\n    const input = this.input.evaluate(ctx);\n    if (typeof input === 'string') {\n      return input.length;\n
    } else if (Array.isArray(input)) {\n      return input.length;\n    } else {\n      throw new
RuntimeError(`Expected value to be of type string or array, but found ${toString(typeOf(input))} instead.`);\n
    }\n  }\n\n  eachChild(fn: (Expression) => void) {\n    fn(this.input);\n  }\n\n  possibleOutputs() {\n    return
[undefined];\n  }\n\n  serialize() {\n    const serialized = ["length"];\n    this.eachChild(child => {\n
serialized.push(child.serialize());\n    });\n\n    return serialized;\n  }\n}\n\nexport default Length;\n", "// @flow\n\nimport {\n  type Type,\n
NumberType,\n StringType,\n BooleanType,\n ColorType,\n ObjectType,\n ValueType,\n ErrorType,\n
CollatorType,\n array,\n toString as typeToString\n} from './types';\n\nimport {typeOf, Color, validateRGBA,
toString as valueToString} from './values';\nimport CompoundExpression from './compound_expression';\nimport
RuntimeError from './runtime_error';\nimport Let from './let';\nimport Var from './var';\nimport Literal from
'./literal';\nimport Assertion from './assertion';\nimport Coercion from './coercion';\nimport At from './at';\nimport In
from './in';\nimport Match from './match';\nimport Case from './case';\nimport Step from './step';\nimport Interpolate
from './interpolate';\nimport Coalesce from './coalesce';\nimport {\n  Equals,\n  NotEquals,\n  LessThan,\n
GreaterThan,\n  LessThanOrEqual,\n  GreaterThanOrEqual\n} from './comparison';\nimport
CollatorExpression from './collator';\nimport NumberFormat from './number_format';\nimport FormatExpression
from './format';\nimport ImageExpression from './image';\nimport Length from './length';\n\nimport type {Varargs}
from './compound_expression';\nimport type {ExpressionRegistry} from './expression';\n\nconst expressions:
ExpressionRegistry = {\n  // special forms\n  '==': Equals,\n  '!=': NotEquals,\n  '>': GreaterThan,\n  '<':
LessThan,\n  '>=': GreaterThanOrEqual,\n  '<=': LessThanOrEqual,\n  'array': Assertion,\n  'at': At,\n
'boolean': Assertion,\n  'case': Case,\n  'coalesce': Coalesce,\n  'collator': CollatorExpression,\n  'format':
FormatExpression,\n  'image': ImageExpression,\n  'in': In,\n  'interpolate': Interpolate,\n  'interpolate-hcl':
Interpolate,\n  'interpolate-lab': Interpolate,\n  'length': Length,\n  'let': Let,\n  'literal': Literal,\n  'match':
Match,\n  'number': Assertion,\n  'number-format': NumberFormat,\n
'object': Assertion,\n  'step': Step,\n  'string': Assertion,\n  'to-boolean': Coercion,\n  'to-color': Coercion,\n
'to-number': Coercion,\n  'to-string': Coercion,\n  'var': Var\n};\n\nfunction rgba(ctx, [r, g, b, a]) {\n  r =
r.evaluate(ctx);\n  g = g.evaluate(ctx);\n  b = b.evaluate(ctx);\n  const alpha = a ? a.evaluate(ctx) : 1;\n  const
error = validateRGBA(r, g, b, alpha);\n  if (error) throw new RuntimeError(error);\n  return new Color(r / 255 *
alpha, g / 255 * alpha, b / 255 * alpha, alpha);\n}\n\nfunction has(key, obj) {\n  return key in obj;\n}\n\nfunction
get(key, obj) {\n  const v = obj[key];\n  return typeof v === 'undefined' ? null : v;\n}\n\nfunction binarySearch(v,
a, i, j) {\n  while (i <= j) {\n    const m = (i + j) >> 1;\n    if (a[m] === v)\n      return true;\n    if (a[m] >
v)\n      j = m - 1;\n    else\n      i = m + 1;\n  }\n  return false;\n}\n\nfunction varargs(type:
Type): Varargs {\n  return {type};\n}\n\nCompoundExpression.register(expressions, {\n  'error': [\n
ErrorType,\n [StringType],\n (ctx, [v]) => { throw new RuntimeError(v.evaluate(ctx));\n  }],\n  'typeof':
[\n StringType,\n [ValueType],\n (ctx, [v]) => typeToString(typeOf(v.evaluate(ctx)))\n ],\n  'to-
rgba': [\n array(NumberType, 4),\n [ColorType],\n (ctx, [v]) => {\n    return

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v.evaluate(ctx).toArray();\n    }\n  },\n  'rgb': [\n    ColorType,\n    [NumberType, NumberType,\n    NumberType],\n    rgba\n  ],\n  'rgba': [\n    ColorType,\n    [NumberType, NumberType, NumberType,\n    NumberType],\n    rgba\n  ],\n  'has': {\n    type: BooleanType,\n    overloads: [\n      [\n    [StringType],\n      (ctx, [key]) => has(key.evaluate(ctx), ctx.properties())\n    ], [\n      [StringType,\n    ObjectType],\n      (ctx,\n    [key, obj]) => has(key.evaluate(ctx), obj.evaluate(ctx))\n    ]\n    ]\n  },\n  'get': {\n    type:\n    ValueType,\n    overloads: [\n      [\n      [StringType],\n      (ctx, [key]) => get(key.evaluate(ctx),\n    ctx.properties())\n    ], [\n      [StringType, ObjectType],\n      (ctx, [key, obj]) =>\n    get(key.evaluate(ctx), obj.evaluate(ctx))\n    ]\n    ]\n  },\n  'feature-state': [\n    ValueType,\n    [StringType],\n    (ctx, [key]) => get(key.evaluate(ctx), ctx.featureState || {})\n  ],\n  'properties': [\n    ObjectType,\n    [],\n    (ctx) => ctx.properties()\n  ],\n  'geometry-type': [\n    StringType,\n    [],\n    (ctx) => ctx.geometryType()\n  ],\n  'id': [\n    ValueType,\n    [],\n    (ctx) => ctx.id()\n  ],\n  'zoom': [\n    NumberType,\n    [],\n    (ctx) => ctx.globals.zoom\n  ],\n  'heatmap-density': [\n    NumberType,\n    [],\n    (ctx) => ctx.globals.heatmapDensity || 0\n  ],\n  'line-progress': [\n    NumberType,\n    [],\n    (ctx) => ctx.globals.lineProgress || 0\n  ],\n  'accumulated': [\n    ValueType,\n    [],\n    (ctx) => ctx.globals.accumulated === undefined ? null : ctx.globals.accumulated\n  ],\n  '+': [\n    NumberType,\n    varargs(NumberType),\n    (ctx, args) => {\n      let result = 0;\n      for (const arg of\n    args) {\n        result += arg.evaluate(ctx);\n      }\n      return result;\n    }\n  ],\n  '*': [\n    NumberType,\n    varargs(NumberType),\n    (ctx, args) => {\n      let result = 1;\n      for (const arg of\n    args) {\n        result *= arg.evaluate(ctx);\n      }\n      return result;\n    }\n  ],\n  '-': {\n    type:\n    NumberType,\n    overloads: [\n      [\n      [NumberType, NumberType],\n      (ctx, [a, b]) => a.evaluate(ctx) - b.evaluate(ctx)\n    ], [\n      [NumberType],\n      (ctx,\n    [a]) => -a.evaluate(ctx)\n    ]\n    ]\n  },\n  '/': [\n    NumberType,\n    [NumberType, NumberType],\n    (ctx, [a, b]) => a.evaluate(ctx) / b.evaluate(ctx)\n  ],\n  '%': [\n    NumberType,\n    [NumberType,\n    NumberType],\n    (ctx, [a, b]) => a.evaluate(ctx) % b.evaluate(ctx)\n  ],\n  'ln2': [\n    NumberType,\n    [],\n    () => Math.LN2\n  ],\n  'pi': [\n    NumberType,\n    [],\n    () => Math.PI\n  ],\n  'e': [\n    NumberType,\n    [],\n    () => Math.E\n  ],\n  '^': [\n    NumberType,\n    [NumberType,\n    NumberType],\n    (ctx, [b, e]) => Math.pow(b.evaluate(ctx), e.evaluate(ctx))\n  ],\n  'sqrt': [\n    NumberType,\n    [NumberType],\n    (ctx, [x]) => Math.sqrt(x.evaluate(ctx))\n  ],\n  'log10': [\n    NumberType,\n    [NumberType],\n    (ctx, [n]) => Math.log(n.evaluate(ctx)) / Math.LN10\n  ],\n  'ln': [\n    NumberType,\n    [NumberType],\n    (ctx, [n]) => Math.log(n.evaluate(ctx))\n  ],\n  'log2': [\n    NumberType,\n    [NumberType],\n    (ctx, [n]) => Math.log(n.evaluate(ctx)) / Math.LN2\n  ],\n  'sin': [\n    NumberType,\n    [NumberType],\n    (ctx, [n]) => Math.sin(n.evaluate(ctx))\n  ],\n  'cos': [\n    NumberType,\n    [NumberType],\n    (ctx, [n]) => Math.cos(n.evaluate(ctx))\n  ],\n  'tan': [\n    NumberType,\n    [NumberType],\n    (ctx, [n]) => Math.tan(n.evaluate(ctx))\n  ],\n  'asin': [\n    NumberType,\n    [NumberType],\n    (ctx, [n]) => Math.asin(n.evaluate(ctx))\n  ],\n  'acos': [\n    NumberType,\n    [NumberType],\n    (ctx, [n]) => Math.acos(n.evaluate(ctx))\n  ],\n  'atan': [\n    NumberType,\n    [NumberType],\n    (ctx, [n]) =>\n    Math.atan(n.evaluate(ctx))\n  ],\n  'min': [\n    NumberType,\n    varargs(NumberType),\n    (ctx, args) =>\n    Math.min(...args.map(arg => arg.evaluate(ctx)))\n  ],\n  'max': [\n    NumberType,\n    varargs(NumberType),\n    (ctx, args) => Math.max(...args.map(arg => arg.evaluate(ctx)))\n  ],\n  'abs': [\n    NumberType,\n    [NumberType],\n    (ctx, [n]) => Math.abs(n.evaluate(ctx))\n  ],\n  'round': [\n    NumberType,\n    [NumberType],\n    (ctx, [n]) => {\n      const v = n.evaluate(ctx);\n      // Javascript's\n    Math.round() rounds towards +Infinity for halfway\n      // values, even when they're negative. It's more common\n    to round\n      // away from 0 (e.g., this is what python and C++ do)\n      return v < 0 ? -Math.round(-v) :\n    Math.round(v);\n    }\n  ],\n  'floor': [\n    NumberType,\n    [NumberType],\n    (ctx, [n]) =>\n    Math.floor(n.evaluate(ctx))\n  ],\n  'ceil':

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[\n    NumberType,\n    [NumberType],\n    (ctx, [n]) => Math.ceil(n.evaluate(ctx))\n ],\n 'filter-===': [\n    BooleanType,\n    [StringType, ValueType],\n    (ctx, [k, v]) => ctx.properties()[k].value === (v:\n any).value\n ],\n 'filter-id-===': [\n    BooleanType,\n    [ValueType],\n    (ctx, [v]) => ctx.id() === (v:\n any).value\n ],\n 'filter-type-===': [\n    BooleanType,\n    [StringType],\n    (ctx, [v]) =>\n ctx.geometryType() === (v: any).value\n ],\n 'filter-<': [\n    BooleanType,\n    [StringType, ValueType],\n    (ctx, [k, v]) => {\n        const a = ctx.properties()[k].value;\n        const b = (v: any).value;\n        return typeof a === typeof b && a < b;\n    }\n ],\n 'filter-id-<': [\n    BooleanType,\n    [ValueType],\n    (ctx, [v]) => {\n        const a = ctx.id();\n        const b = (v: any).value;\n        return typeof a === typeof\n b && a < b;\n    }\n ],\n 'filter->': [\n    BooleanType,\n    [StringType, ValueType],\n    (ctx, [k, v])\n => {\n        const a = ctx.properties()[k].value;\n        const b = (v: any).value;\n        return typeof a\n === typeof b && a > b;\n    }\n ],\n 'filter-id->': [\n    BooleanType,\n    [ValueType],\n    (ctx, [v]) =>\n {\n        const a = ctx.id();\n        const b = (v: any).value;\n        return typeof a === typeof b && a > b;\n    }\n ],\n 'filter-<=': [\n    BooleanType,\n    [StringType, ValueType],\n    (ctx, [k, v]) => {\n        const\n a = ctx.properties()[k].value;\n        const b = (v: any).value;\n        return typeof a === typeof b && a <= b;\n    }\n ],\n 'filter-id-<=': [\n    BooleanType,\n    [ValueType],\n    (ctx, [v]) => {\n        const a =\n ctx.id();\n        const b = (v: any).value;\n        return typeof\n a === typeof b && a <= b;\n    }\n ],\n 'filter->=': [\n    BooleanType,\n    [StringType, ValueType],\n    (ctx, [k, v]) => {\n        const a = ctx.properties()[k].value;\n        const b = (v: any).value;\n        return typeof a === typeof b && a >= b;\n    }\n ],\n 'filter-id->=': [\n    BooleanType,\n    [ValueType],\n    (ctx, [v]) => {\n        const a = ctx.id();\n        const b = (v: any).value;\n        return typeof a === typeof b\n && a >= b;\n    }\n ],\n 'filter-has': [\n    BooleanType,\n    [ValueType],\n    (ctx, [k]) => (k:\n any).value in ctx.properties()\n ],\n 'filter-has-id': [\n    BooleanType,\n    [],\n    (ctx) => ctx.id() !==\n null\n ],\n 'filter-type-in': [\n    BooleanType,\n    [array(StringType)],\n    (ctx, [v]) => (v:\n any).value.indexOf(ctx.geometryType()) >= 0\n ],\n 'filter-id-in': [\n    BooleanType,\n    [array(ValueType)],\n    (ctx, [v]) => (v: any).value.indexOf(ctx.id()) >= 0\n ],\n 'filter-in-small': [\n    BooleanType,\n    [StringType, array(ValueType)],\n    // assumes v is an array literal\n    (ctx, [k, v]) => (v:\n any).value.indexOf(ctx.properties()[k].value) >= 0\n ],\n 'filter-in-large': [\n    BooleanType,\n    [StringType, array(ValueType)],\n    // assumes v is a array literal with values sorted in ascending order and of a\n single type\n    (ctx, [k, v]) => binarySearch(ctx.properties()[k].value, (v: any).value, 0, (v:\n any).value.length - 1)\n ],\n 'all': {\n    type: BooleanType,\n    overloads: [\n        [\n            BooleanType, BooleanType,\n            (ctx, [a, b]) => a.evaluate(ctx) && b.evaluate(ctx)\n        ],\n        [\n            BooleanType,\n            varargs(BooleanType),\n            (ctx, args) => {\n                for (const arg of args) {\n                    if (!arg.evaluate(ctx))\n                        return false;\n                }\n                return true;\n            }\n        ]\n    ],\n    'any': {\n        type: BooleanType,\n        overloads: [\n            [\n                BooleanType,\n                BooleanType,\n                (ctx, [a, b]) => a.evaluate(ctx) || b.evaluate(ctx)\n            ],\n            [\n                BooleanType,\n                varargs(BooleanType),\n                (ctx, args) => {\n                    for (const arg of args) {\n                        if\n (arg.evaluate(ctx))\n                            return true;\n                    }\n                    return false;\n                }\n            ]\n        ],\n    },\n    '!': [\n        BooleanType,\n        [BooleanType],\n        (ctx, [b]) => !b.evaluate(ctx)\n    ],\n    'is-supported-script': [\n        BooleanType,\n        [StringType],\n        // At parse time this will always return true, so\n we need to exclude this expression with\n        isGlobalPropertyConstant\n        (ctx, [s]) => {\n            const isSupportedScript = ctx.globals &&\n ctx.globals.isSupportedScript;\n            if (isSupportedScript) {\n                return\n isSupportedScript(s.evaluate(ctx));\n            }\n            return true;\n        }\n ],\n    'uppercase': [\n        StringType,\n        [StringType],\n        (ctx, [s]) => s.evaluate(ctx).toUpperCase()\n ],\n    'downcase': [\n        StringType,\n        [StringType],\n        (ctx, [s]) => s.evaluate(ctx).toLowerCase()\n ],\n    'concat': [\n        StringType,\n        varargs(ValueType),\n        (ctx, args) => args.map(arg => valueToString(arg.evaluate(ctx))).join("")\n ],\n    'resolved-locale': [\n        StringType,\n        [CollatorType],\n        (ctx, [collator]) =>\n collator.evaluate(ctx).resolvedLocale()\n ]\n });\n\nexport default expressions;\n",\n    "// @flow\n\n/**\n * A type used

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for returning and propagating errors. The first element of the union\n * represents
success and contains a value, and the second represents an error and\n * contains an error value.\n * @private\n
*\nexport type Result<T, E> =\n  | {\n    result: 'success', value: T\n  }\n  | {\n    result: 'error', value: E\n  };\n\nexport
function success<T, E>(value: T): Result<T, E> {\n  return {\n    result: 'success', value: value;\n  }\n}\n\nexport function
error<T, E>(value: E): Result<T, E> {\n  return {\n    result: 'error', value: value;\n  }\n}\n\n"/ @flow\n\nimport type
{StylePropertySpecification} from './style-spec';\n\nexport function supportsPropertyExpression(spec:
StylePropertySpecification): boolean {\n  return spec['property-type'] === 'data-driven' || spec['property-type'] ===
'cross-faded-data-driven';\n}\n\nexport function supportsZoomExpression(spec: StylePropertySpecification):
boolean {\n  return !!spec.expression && spec.expression.parameters.indexOf('zoom') > -1;\n}\n\nexport function
supportsInterpolation(spec: StylePropertySpecification): boolean {\n  return !!spec.expression &&
spec.expression.interpolated;\n}\n\n"/ @flow\n\nexport default function getType(val: mixed): string {\n  if (val
instanceof Number) {\n    return 'number';\n  } else if (val instanceof String) {\n    return 'string';\n  } else if
(val instanceof Boolean) {\n    return 'boolean';\n  } else if (Array.isArray(val)) {\n    return 'array';\n  } else
if (val === null) {\n    return 'null';\n  } else {\n    return typeof val;\n  }\n}\n\n"/\n\nimport * as colorSpaces
from './util/color_spaces';\nimport Color from './util/color';\nimport extend from './util/extend';\nimport getType
from './util/get_type';\nimport * as interpolate from './util/interpolate';\nimport Interpolate from
'./expression/definitions/interpolate';\nimport Formatted from './expression/types/formatted';\nimport
ResolvedImage from './expression/types/resolved_image';\nimport {supportsInterpolation} from
'./util/properties';\nimport {findStopLessThanOrEqualTo} from './expression/stops';\n\nexport
function isFunction(value) {\n  return typeof value === 'object' && value !== null &&
!Array.isArray(value);\n}\n\nfunction identityFunction(x) {\n  return x;\n}\n\nexport function
createFunction(parameters, propertySpec) {\n  const isColor = propertySpec.type === 'color';\n  const
zoomAndFeatureDependent = parameters.stops && typeof parameters.stops[0][0] === 'object';\n  const
featureDependent = zoomAndFeatureDependent || parameters.property !== undefined;\n  const zoomDependent =
zoomAndFeatureDependent || !featureDependent;\n  const type = parameters.type ||
(supportsInterpolation(propertySpec) ? 'exponential' : 'interval');\n\n  if (isColor) {\n    parameters = extend({},
parameters);\n\n    if (parameters.stops) {\n      parameters.stops = parameters.stops.map((stop) => {\n
return [stop[0], Color.parse(stop[1]);\n      }]);\n    }\n\n    if (parameters.default) {\n
parameters.default = Color.parse(parameters.default);\n    }\n\n    } else {\n      parameters.default = Color.parse(propertySpec.default);\n    }\n\n  }\n\n  if
(parameters.colorSpace && parameters.colorSpace !== 'rgb' && !colorSpaces[parameters.colorSpace]) { // eslint-
disable-line import/namespace\n    throw new Error(`Unknown color space: ${parameters.colorSpace}`);\n  }\n\n  let innerFun;\n  let hashedStops;\n  let categoricalKeyType;\n  if (type === 'exponential') {\n
innerFun = evaluateExponentialFunction;\n  } else if (type === 'interval') {\n    innerFun =
evaluateIntervalFunction;\n  } else if (type === 'categorical') {\n    innerFun = evaluateCategoricalFunction;\n\n
// For categorical functions, generate an Object as a hashmap of the stops for fast searching\n    hashedStops =
Object.create(null);\n    for (const stop of parameters.stops) {\n      hashedStops[stop[0]] = stop[1];\n    }\n\n
// Infer key type based on first stop key--\n    used to enforce strict type checking later\n    categoricalKeyType = typeof parameters.stops[0][0];\n\n  } else if
(type === 'identity') {\n    innerFun = evaluateIdentityFunction;\n  } else {\n    throw new Error(`Unknown
function type \"${type}\"`);\n  }\n\n  if (zoomAndFeatureDependent) {\n    const featureFunctions = {};\n
const zoomStops = [];\n    for (let s = 0; s < parameters.stops.length; s++) {\n      const stop =
parameters.stops[s];\n      const zoom = stop[0].zoom;\n      if (featureFunctions[zoom] === undefined) {\n
featureFunctions[zoom] = {\n        zoom,\n        type: parameters.type,\n        property:
parameters.property,\n        default: parameters.default,\n        stops: []\n      };\n
zoomStops.push(zoom);\n      featureFunctions[zoom].stops.push([stop[0].value, stop[1]]);\n    }\n\n  }\n\n}

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const featureFunctionStops = [];\n    for (const z of zoomStops) {\n
featureFunctionStops.push([featureFunctions[z].zoom, createFunction(featureFunctions[z], propertySpec)];\n
}\n\n    const interpolationType = {name: 'linear'};\n    return {\n        kind: 'composite',\n        interpolationType,\n        interpolationFactor: Interpolate.interpolationFactor.bind(undefined,\n        interpolationType),\n        zoomStops: featureFunctionStops.map(s => s[0]),\n        evaluate: ({zoom},\n        properties) {\n            return evaluateExponentialFunction({\n                stops: featureFunctionStops,\n                base: parameters.base\n            }, propertySpec, zoom).evaluate(zoom, properties);\n        }\n    };\n } else\nif (zoomDependent) {\n    const interpolationType = type === 'exponential' ?\n    {name: 'exponential', base:\nparameters.base !== undefined ? parameters.base : 1} : null;\n    return {\n        kind: 'camera',\n        interpolationType,\n        interpolationFactor:\nInterpolate.interpolationFactor.bind(undefined, interpolationType),\n        zoomStops: parameters.stops.map(s =>\ns[0]),\n        evaluate: ({zoom}) => innerFun(parameters, propertySpec, zoom, hashedStops,\ncategoricalKeyType)\n    }; }\n } else {\n    return {\n        kind: 'source',\n        evaluate(_, feature) {\n            const value = feature && feature.properties ? feature.properties[parameters.property] : undefined;\n            if\n            (value === undefined) {\n                return coalesce(parameters.default, propertySpec.default);\n            }\n            return innerFun(parameters, propertySpec, value, hashedStops, categoricalKeyType);\n        }\n    };\n }\n}\n\nfunction coalesce(a, b, c) {\n    if (a !== undefined) return a;\n    if (b !== undefined) return b;\n    if (c !==\nundefined) return c;\n}\n\nfunction evaluateCategoricalFunction(parameters,\npropertySpec, input, hashedStops, keyType) {\n    const evaluated = typeof input === keyType ?\nhashedStops[input] : undefined;\n    // Enforce strict typing on input\n    return coalesce(evaluated, parameters.default,\npropertySpec.default);\n}\n\nfunction evaluateIntervalFunction(parameters, propertySpec, input) {\n    // Edge\ncases\n    if (getType(input) !== 'number') return coalesce(parameters.default, propertySpec.default);\n    const n =\nparameters.stops.length;\n    if (n === 1) return parameters.stops[0][1];\n    if (input <= parameters.stops[0][0])\nreturn parameters.stops[0][1];\n    if (input >= parameters.stops[n - 1][0]) return parameters.stops[n - 1][1];\n\nconst index = findStopLessThanOrEqualTo(parameters.stops.map((stop) => stop[0]), input);\n    return\nparameters.stops[index][1];\n}\n\nfunction evaluateExponentialFunction(parameters, propertySpec, input) {\n\nconst base = parameters.base !== undefined ? parameters.base : 1;\n\n    // Edge cases\n    if (getType(input) !== 'number') return coalesce(parameters.default, propertySpec.default);\n    const n =\nparameters.stops.length;\n    if (n === 1) return parameters.stops[0][1];\n    if (input <=\nparameters.stops[0][0]) return parameters.stops[0][1];\n    if (input >= parameters.stops[n - 1][0]) return\nparameters.stops[n - 1][1];\n\n    const index = findStopLessThanOrEqualTo(parameters.stops.map((stop) =>\nstop[0]), input);\n    const t = interpolationFactor(\n        input, base,\n        parameters.stops[index][0],\n        parameters.stops[index + 1][0]);\n\n    const outputLower = parameters.stops[index][1];\n    const outputUpper =\nparameters.stops[index + 1][1];\n    let interp = interpolate[propertySpec.type] || identityFunction; // eslint-disable-\nline import/namespace\n    if (parameters.colorSpace && parameters.colorSpace !== 'rgb') {\n        const\n        colorspace = colorSpaces[parameters.colorSpace]; // eslint-disable-line import/namespace\n        interp\n        = (a, b) => colorspace.reverse(colorspace.interpolate(colorspace.forward(a), colorspace.forward(b), t));\n    }\n\nif (typeof outputLower.evaluate === 'function') {\n    return {\n        evaluate(...args) {\n            const\n            evaluatedLower = outputLower.evaluate.apply(undefined, args);\n            const evaluatedUpper =\n            outputUpper.evaluate.apply(undefined, args);\n            // Special case for fill-outline-color, which has no spec\ndefault.\n            if (evaluatedLower === undefined || evaluatedUpper === undefined) {\n                return\n                undefined;\n            }\n            return interp(evaluatedLower, evaluatedUpper, t);\n        }\n    };\n }\n\nreturn interp(outputLower, outputUpper, t);\n}\n\nfunction evaluateIdentityFunction(parameters, propertySpec,\ninput) {\n    if (propertySpec.type === 'color') {\n        input = Color.parse(input);\n    } else if (propertySpec.type\n=== 'formatted') {\n        input = Formatted.fromString(input.toString());\n    }\n    } else if (propertySpec.type === 'resolvedImage') {\n        input = ResolvedImage.fromString(input.toString());\n    }\n    } else if (getType(input) !== propertySpec.type && (propertySpec.type !== 'enum' || !propertySpec.values[input]))\n{\n        input = undefined;\n    }\n    return coalesce(input, parameters.default, propertySpec.default);\n}\n\n/**\n *

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Returns a ratio that can be used to interpolate between exponential function stops. How it works: Two consecutive stop values define a (scaled and shifted) exponential function  $f(x) = a \cdot \text{base}^x + b$ , where `base` is the user-specified base, and `a` and `b` are constants affording sufficient degrees of freedom to fit the function to the given stops. Here's a bit of algebra that lets us compute  $f(x)$  directly from the stop values without explicitly solving for `a` and `b`:

First stop value:  $f(x_0) = y_0 = a \cdot \text{base}^{x_0} + b$

Second stop value:  $f(x_1)$

$$= y_1 = a \cdot \text{base}^{x_1} + b \Rightarrow y_1 - y_0 = a(\text{base}^{x_1} - \text{base}^{x_0}) \Rightarrow a = (y_1 - y_0) / (\text{base}^{x_1} - \text{base}^{x_0})$$

Desired value:  $f(x) = y = a \cdot \text{base}^x + b \Rightarrow f(x) = y_0 + a \cdot (\text{base}^x - \text{base}^{x_0})$

From the above, we can replace the `a` in  $a \cdot (\text{base}^x - \text{base}^{x_0})$  and do a little algebra:

$$a \cdot (\text{base}^x - \text{base}^{x_0}) = (y_1 - y_0) / (\text{base}^{x_1} - \text{base}^{x_0}) \cdot (\text{base}^x - \text{base}^{x_0}) = (y_1 - y_0) \cdot (\text{base}^x - \text{base}^{x_0}) / (\text{base}^{x_1} - \text{base}^{x_0})$$

If we let  $\text{ratio} = (\text{base}^x - \text{base}^{x_0}) / (\text{base}^{x_1} - \text{base}^{x_0})$ , then we have  $f(x) = y_0 + (y_1 - y_0) \cdot \text{ratio}$ . In other words, `ratio` may be treated as an interpolation factor between the two stops' output values. (Note: a slightly different form for `ratio`,  $(\text{base}^{(x-x_0)} - 1) / (\text{base}^{(x_1-x_0)} - 1)$ , is equivalent, but requires fewer expensive `Math.pow()` operations.)

```
@private
function interpolationFactor(input,
base, lowerValue, upperValue) {
  const difference = upperValue
  - lowerValue;
  const progress = input - lowerValue;
  if (difference === 0) {
    return 0;
  } else if
(base === 1) {
    return progress / difference;
  } else {
    return (Math.pow(base, progress) - 1) /
(Math.pow(base, difference) - 1);
  }
}

// @flow
import assert from 'assert';
import extend from './util/extend';
import ParsingError from './parsing_error';
import ParsingContext from './parsing_context';
import EvaluationContext from './evaluation_context';
import CompoundExpression from './compound_expression';
import Step from './definitions/step';
import Interpolate from './definitions/interpolate';
import Coalesce from './definitions/coalesce';
import Let from './definitions/let';
import definitions from './definitions';
import * as isConstant from './is_constant';
import RuntimeError from './runtime_error';
import {success, error} from './util/result';
import {supportsPropertyExpression,
supportsZoomExpression, supportsInterpolation}
from './util/properties';
import type {Type, EvaluationKind} from './types';
import type {Value} from './values';
import type {Expression} from './expression';
import type {StylePropertySpecification} from './style-spec';
import type {Result} from './util/result';
import type {InterpolationType} from './definitions/interpolate';
import type {PropertyValueSpecification} from './types';
import type {FormattedSection} from './types/formatted';
export type Feature = {
  +type: 1 | 2 | 3 | 'Unknown' | 'Point' |
'MultiPoint' | 'LineString' | 'MultiLineString' | 'Polygon' | 'MultiPolygon',
  +id?: any,
  +properties: {[string]: any},
  +patterns?: {[string]: {"min": string, "mid": string, "max": string}};
};
export type FeatureState = {
  [string]: any;
};
export type GlobalProperties = $ReadOnly<{
  zoom: number,
  heatmapDensity?: number,
  lineProgress?: number,
  isSupportedScript?: (string) => boolean,
  accumulated?: Value
}>;
export class StyleExpression {
  expression: Expression;
  _evaluator: EvaluationContext;
  _defaultValue: Value;
  _warningHistory: {[key: string]: boolean};
  _enumValues: ?{[string]: any};
  constructor(expression: Expression, propertySpec: ?StylePropertySpecification) {
    this.expression = expression;
    this._warningHistory = {};
    this._evaluator = new EvaluationContext();
    this._defaultValue = propertySpec ? getDefaultValue(propertySpec) : null;
    this._enumValues = propertySpec && propertySpec.type === 'enum' ? propertySpec.values : null;
  }
  evaluateWithoutErrorHandling(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, availableImages?: Array<string>, formattedSection?: FormattedSection): any {
    this._evaluator.globals = globals;
    this._evaluator.feature = feature;
    this._evaluator.featureState = featureState;
    this._evaluator.availableImages = availableImages || null;
    this._evaluator.formattedSection = formattedSection;
    return this.expression.evaluate(this._evaluator);
  }
  evaluate(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, availableImages?: Array<string>, formattedSection?: FormattedSection): any {
    this._evaluator.globals = globals;
    this._evaluator.feature = feature || null;
    this._evaluator.featureState = featureState || null;
    this._evaluator.availableImages = availableImages || null;
  }
}
```

```

this._evaluator.formattedSection = formattedSection || null;\n\n    try {\n        const val =
this.expression.evaluate(this._evaluator);\n        // eslint-disable-next-line no-self-compare\n        if (val ===
null || val === undefined || (typeof val === 'number' && val !== val)) {\n            return this._defaultValue;\n        }\n        if (this._enumValues && !(val in this._enumValues)) {\n            throw new RuntimeError(`Expected value to be one of ${Object.keys(this._enumValues).map(v =>
JSON.stringify(v)).join(', ')}, but found ${JSON.stringify(val)} instead.`);\n        }\n        return val;\n    }
catch (e) {\n        if (!this._warningHistory[e.message]) {\n            this._warningHistory[e.message] = true;\n            if (typeof console !== 'undefined') {\n                console.warn(e.message);\n            }\n        }\n        return this._defaultValue;\n    }\n}\n\nexport function isExpression(expression: mixed) {\n    return
Array.isArray(expression) && expression.length > 0 &&\n    typeof expression[0] === 'string' && expression[0]
in definitions;\n}\n\n/**\n * Parse and typecheck the given style spec JSON expression. If\n * options.defaultValue
is provided, then the resulting StyleExpression's\n * `evaluate()` method will handle errors by logging a warning
(once per\n * message) and returning the default
value. Otherwise, it will throw\n * evaluation errors.\n *\n * @private\n */\nexport function
createExpression(expression: mixed, propertySpec: ?StylePropertySpecification): Result<StyleExpression,
Array<ParsingError>> {\n    const parser = new ParsingContext(definitions, [], propertySpec ?
getExpectedType(propertySpec) : undefined);\n    // For string-valued properties, coerce to string at the top level
rather than asserting.\n    const parsed = parser.parse(expression, undefined, undefined, undefined,\n    propertySpec && propertySpec.type === 'string' ? {typeAnnotation: 'coerce'} : undefined);\n    if (!parsed) {\n        assert(parser.errors.length > 0);\n        return error(parser.errors);\n    }\n    return success(new
StyleExpression(parsed, propertySpec));\n}\n\nexport class ZoomConstantExpression<Kind: EvaluationKind> {\n    kind: Kind;\n    isStateDependent: boolean;\n    _styleExpression: StyleExpression;\n\n    constructor(kind: Kind,
expression: StyleExpression)
{\n        this.kind = kind;\n        this._styleExpression = expression;\n        this.isStateDependent = kind !==
('constant': EvaluationKind) && !isConstant.isStateConstant(expression.expression);\n    }\n\n    evaluateWithoutErrorHandling(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState,
availableImages?: Array<string>, formattedSection?: FormattedSection): any {\n        return
this._styleExpression.evaluateWithoutErrorHandling(globals, feature, featureState, availableImages,
formattedSection);\n    }\n\n    evaluate(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState,
availableImages?: Array<string>, formattedSection?: FormattedSection): any {\n        return
this._styleExpression.evaluate(globals, feature, featureState, availableImages, formattedSection);\n    }\n}\n\nexport
class ZoomDependentExpression<Kind: EvaluationKind> {\n    kind: Kind;\n    zoomStops: Array<number>;\n    isStateDependent: boolean;\n\n    _styleExpression:
StyleExpression;\n    interpolationType: ?InterpolationType;\n\n    constructor(kind: Kind, expression:
StyleExpression, zoomStops: Array<number>, interpolationType?: InterpolationType) {\n        this.kind = kind;\n        this.zoomStops = zoomStops;\n        this._styleExpression = expression;\n        this.isStateDependent = kind !==
('camera': EvaluationKind) && !isConstant.isStateConstant(expression.expression);\n        this.interpolationType =
interpolationType;\n    }\n\n    evaluateWithoutErrorHandling(globals: GlobalProperties, feature?: Feature,
featureState?: FeatureState, availableImages?: Array<string>, formattedSection?: FormattedSection): any {\n        return
this._styleExpression.evaluateWithoutErrorHandling(globals, feature, featureState, availableImages,
formattedSection);\n    }\n\n    evaluate(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState,
availableImages?: Array<string>, formattedSection?: FormattedSection): any {\n        return
this._styleExpression.evaluate(globals, feature, featureState, availableImages, formattedSection);\n    }\n\n    interpolationFactor(input: number, lower: number, upper: number): number {\n        if (this.interpolationType) {\n            return
Interpolate.interpolationFactor(this.interpolationType, input, lower, upper);\n        } else {\n            return
0;\n        }\n    }\n}\n\nexport type ConstantExpression = {\n    kind: 'constant',\n    +evaluate: (globals:
GlobalProperties, feature?: Feature, featureState?: FeatureState, availableImages?: Array<string>) =>
any,\n}\n\nexport type SourceExpression = {\n    kind: 'source',\n    isStateDependent: boolean,\n    +evaluate:

```

```

(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, availableImages?: Array<string>,
formattedSection?: FormattedSection) => any,\n};\n\nexport type CameraExpression = {\n  kind: 'camera',\n  +evaluate: (globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, availableImages?:
Array<string>) => any,\n  +interpolationFactor: (input: number, lower: number, upper: number) => number,\n  zoomStops: Array<number>,\n  interpolationType: ?InterpolationType\n};\n\nexport type CompositeExpression =
{\n  kind: 'composite',\n  isStateDependent: boolean,\n  +evaluate: (globals: GlobalProperties, feature?: Feature,
featureState?: FeatureState, availableImages?: Array<string>, formattedSection?: FormattedSection) => any,\n  +interpolationFactor: (input: number, lower: number, upper: number) => number,\n  zoomStops:
Array<number>,\n  interpolationType: ?InterpolationType\n};\n\nexport type StylePropertyExpression =\n |
ConstantExpression\n | SourceExpression\n | CameraExpression\n | CompositeExpression;\n\nexport function
createPropertyExpression(expression: mixed, propertySpec: StylePropertySpecification):
Result<StylePropertyExpression, Array<ParsingError>> {\n  expression = createExpression(expression,
propertySpec);\n  if
(expression.result === 'error') {\n    return expression;\n  }\n  const parsed = expression.value.expression;\n  const isFeatureConstant = isConstant.isFeatureConstant(parsed);\n  if (!isFeatureConstant &&
!supportsPropertyExpression(propertySpec)) {\n    return error([new ParsingError("", 'data expressions not
supported')]);\n  }\n  const isZoomConstant = isConstant.isGlobalPropertyConstant(parsed, ['zoom']);\n  if
(!isZoomConstant && !supportsZoomExpression(propertySpec)) {\n    return error([new ParsingError("", 'zoom
expressions not supported')]);\n  }\n  const zoomCurve = findZoomCurve(parsed);\n  if (!zoomCurve &&
!isZoomConstant) {\n    return error([new ParsingError("", "\"zoom\" expression may only be used as input to a
top-level \"step\" or \"interpolate\" expression.']));\n  } else if (zoomCurve instanceof ParsingError) {\n    return
error([zoomCurve]);\n  } else if (zoomCurve instanceof Interpolate && !supportsInterpolation(propertySpec))
{\n    return error([new ParsingError("", "\"interpolate\" expressions cannot be used with this property')]);\n  }\n  if (!zoomCurve) {\n    return success(isFeatureConstant ?\n      (new ZoomConstantExpression('constant',
expression.value): ConstantExpression) :\n      (new ZoomConstantExpression('source', expression.value):
SourceExpression));\n  }\n  const interpolationType = zoomCurve instanceof Interpolate ?
zoomCurve.interpolation : undefined;\n  return success(isFeatureConstant ?\n      (new
ZoomDependentExpression('camera', expression.value, zoomCurve.labels, interpolationType): CameraExpression)
:\n      (new ZoomDependentExpression('composite', expression.value, zoomCurve.labels, interpolationType):
CompositeExpression));\n}\n\nimport {isFunction, createFunction} from './function';\nimport {Color} from
'./values';\n\n// serialization wrapper for old-style stop functions normalized to the\n// expression interface\nexport
class StylePropertyFunction<T> {\n  _parameters: PropertyValueSpecification<T>;\n  _specification:
StylePropertySpecification;\n  kind: EvaluationKind;\n  evaluate: (globals: GlobalProperties, feature?: Feature)
=> any;\n  interpolationFactor: ?(input: number, lower: number, upper: number) => number;\n  zoomStops:
?Array<number>;\n  constructor(parameters: PropertyValueSpecification<T>, specification:
StylePropertySpecification) {\n    this._parameters = parameters;\n    this._specification = specification;\n  }\n  extend(this, createFunction(this._parameters, this._specification));\n  static deserialize(serialized:
{ _parameters: PropertyValueSpecification<T>, _specification: StylePropertySpecification}) {\n    return ((new
StylePropertyFunction(serialized._parameters, serialized._specification)): StylePropertyFunction<T>);\n  }\n  static serialize(input: StylePropertyFunction<T>) {\n    return {\n      _parameters: input._parameters,\n      _specification: input._specification\n    };\n  }\n}\n\nexport function
normalizePropertyExpression<T>(value: PropertyValueSpecification<T>, specification:
StylePropertySpecification): StylePropertyExpression {\n  if (isFunction(value)) {\n    return (new
StylePropertyFunction(value, specification): any);\n  } else if (isExpression(value)) {\n    const expression =
createPropertyExpression(value, specification);\n    if (expression.result === 'error') {\n      // this should have
been caught in validation\n      throw new Error(expression.value.map(err => `${err.key}:
${err.message}`).join(', '));\n    }\n    return expression.value;\n  } else {\n    let constant: any = value;\n    if (typeof value === 'string' && specification.type === 'color') {\n      constant = Color.parse(value);\n    }\n  }\n}

```

```

    return {\n      kind: 'constant',\n      evaluate: () => constant\n    };\n  }\n}\n\n//
Zoom-dependent expressions may only use ["zoom"] as the input to a top-level \"step\" or \"interpolate\"/\n
expression (collectively referred to as a \"curve\"). The curve may be wrapped in one or more \"let\" or/\n
\"coalesce\" expressions.\nfunction findZoomCurve(expression: Expression): Step | Interpolate | ParsingError | null
{\n  let result = null;\n  if (expression instanceof Let) {\n    result = findZoomCurve(expression.result);\n  }\n  else if (expression instanceof Coalesce) {\n    for (const arg of expression.args) {\n      result =
findZoomCurve(arg);\n      if (result) {\n        break;\n      }\n    }\n  } else if ((expression
instanceof Step || expression instanceof Interpolate) &&\n    expression.input instanceof CompoundExpression
&&\n    expression.input.name === 'zoom') {\n    result = expression;\n  }\n  if (result instanceof
ParsingError) {\n    return result;\n  }\n  expression.eachChild((child)
=> {\n    const childResult = findZoomCurve(child);\n    if (childResult instanceof ParsingError) {\n
result = childResult;\n    } else if (!result && childResult) {\n      result = new ParsingError(\" \"zoom\"
expression may only be used as input to a top-level \"step\" or \"interpolate\" expression.\");\n    } else if (result &&
childResult && result !== childResult) {\n      result = new ParsingError(\" 'Only one zoom-based \"step\" or
\"interpolate\" subexpression may be used in an expression.\");\n    }\n  });\n  return result;\n}\n\nimport
{ColorType, StringType, NumberType, BooleanType, ValueType, FormattedType, ResolvedImageType, array}
from './types';\nfunction getExpectedType(spec: StylePropertySpecification): Type {\n  const types = {\n
color: ColorType,\n  string: StringType,\n  number: NumberType,\n  enum: StringType,\n  boolean:
BooleanType,\n  formatted: FormattedType,\n
resolvedImage: ResolvedImageType\n  };\n  if (spec.type === 'array') {\n    return
array(types[spec.value] || ValueType, spec.length);\n  }\n  return types[spec.type];\n}\n\nfunction
getDefaultValue(spec: StylePropertySpecification): Value {\n  if (spec.type === 'color' &&
isFunction(spec.default)) {\n    // Special case for heatmap-color: it uses the 'default:' to define a\n    // default
color ramp, but createExpression expects a simple value to fall\n    // back to in case of runtime errors\n    return
new Color(0, 0, 0, 0);\n  } else if (spec.type === 'color') {\n    return Color.parse(spec.default) || null;\n  } else if
(spec.default === undefined) {\n    return null;\n  } else {\n    return spec.default;\n  }\n}\n\n\"//
@flow\n\nimport assert from 'assert';\nimport type {StylePropertySpecification} from './style-spec';\n\nexport
default convertFunction;\n\nfunction convertLiteral(value) {\n  return typeof value
=== 'object' ? ['literal', value] : value;\n}\n\nfunction convertFunction(parameters: any, propertySpec:
StylePropertySpecification) {\n  let stops = parameters.stops;\n  if (!stops) {\n    // identity function\n    return
convertIdentityFunction(parameters, propertySpec);\n  }\n  const zoomAndFeatureDependent = stops &&
typeof stops[0][0] === 'object';\n  const featureDependent = zoomAndFeatureDependent || parameters.property !==
undefined;\n  const zoomDependent = zoomAndFeatureDependent || !featureDependent;\n  stops =
stops.map((stop) => {\n    if (!featureDependent && propertySpec.tokens && typeof stop[1] === 'string') {\n
return [stop[0], convertTokenString(stop[1])];\n    }\n    return [stop[0], convertLiteral(stop[1])];\n  });\n  if
(zoomAndFeatureDependent) {\n    return convertZoomAndPropertyFunction(parameters, propertySpec,
stops);\n  } else if (zoomDependent) {\n    return convertZoomFunction(parameters, propertySpec,
stops);\n  } else {\n    return convertPropertyFunction(parameters, propertySpec, stops);\n  }\n}\n\nfunction
convertIdentityFunction(parameters, propertySpec): Array<mixed> {\n  const get = ['get',
parameters.property];\n  if (parameters.default === undefined) {\n    // By default, expressions for string-
valued properties get coerced. To preserve\n    // legacy function semantics, insert an explicit assertion instead.\n
return propertySpec.type === 'string' ? ['string', get] : get;\n  } else if (propertySpec.type === 'enum') {\n
return [\n    'match',\n    get,\n    Object.keys(propertySpec.values),\n    get,\n
parameters.default\n  ];\n  } else {\n    const expression = [propertySpec.type === 'color' ? 'to-color' :
propertySpec.type, get, convertLiteral(parameters.default)];\n    if (propertySpec.type === 'array') {\n
expression.splice(1, 0, propertySpec.value, propertySpec.length
|| null);\n    }\n    return expression;\n  }\n}\n\nfunction getInterpolateOperator(parameters) {\n  switch
(parameters.colorSpace) {\n    case 'hcl': return 'interpolate-hcl';\n    case 'lab': return 'interpolate-lab';\n    default:

```

```

return 'interpolate';\n  }\n}\n\nfunction convertZoomAndPropertyFunction(parameters, propertySpec, stops) {\n
const featureFunctionParameters = {};\n  const featureFunctionStops = {};\n  const zoomStops = [];\n  for (let s
= 0; s < stops.length; s++) {\n    const stop = stops[s];\n    const zoom = stop[0].zoom;\n    if
(featureFunctionParameters[zoom] === undefined) {\n      featureFunctionParameters[zoom] = {\n
zoom,\n        type: parameters.type,\n        property: parameters.property,\n        default:
parameters.default,\n      };\n      featureFunctionStops[zoom] = [];\n      zoomStops.push(zoom);\n
}\n    featureFunctionStops[zoom].push([stop[0].value,
stop[1]]);\n  }\n\n  // the interpolation type for the zoom dimension of a zoom-and-property\n  // function is
determined directly from the style property specification\n  // for which it's being used: linear for interpolatable
properties, step\n  // otherwise.\n  const functionType = getFunctionType({}, propertySpec);\n  if (functionType
=== 'exponential') {\n    const expression = [getInterpolateOperator(parameters), ['linear'], ['zoom']];\n\n    for
(const z of zoomStops) {\n      const output = convertPropertyFunction(featureFunctionParameters[z],
propertySpec, featureFunctionStops[z]);\n      appendStopPair(expression, z, output, false);\n    }\n\n
return expression;\n  } else {\n    const expression = ['step', ['zoom']];\n\n    for (const z of zoomStops) {\n
const output = convertPropertyFunction(featureFunctionParameters[z], propertySpec, featureFunctionStops[z]);\n
      appendStopPair(expression,
z, output, true);\n    }\n\n    fixupDegenerateStepCurve(expression);\n\n    return expression;\n  }\n}\n\nfunction coalesce(a, b) {\n  if (a !== undefined) return a;\n  if (b !== undefined) return b;\n}\n\nfunction
convertPropertyFunction(parameters, propertySpec, stops) {\n  const type = getFunctionType(parameters,
propertySpec);\n  const get = ['get', parameters.property];\n  if (type === 'categorical' && typeof stops[0][0] ===
'boolean') {\n    assert(parameters.stops.length > 0 && parameters.stops.length <= 2);\n    const expression =
['case'];\n    for (const stop of stops) {\n      expression.push(['=', get, stop[0]], stop[1]);\n    }\n
expression.push(convertLiteral(coalesce(parameters.default, propertySpec.default)));\n    return expression;\n  }
else if (type === 'categorical') {\n    const expression = ['match', get];\n    for (const stop of stops) {\n
appendStopPair(expression, stop[0],
stop[1], false);\n    }\n    expression.push(convertLiteral(coalesce(parameters.default,
propertySpec.default)));\n    return expression;\n  } else if (type === 'interval') {\n    const expression = ['step',
['number', get]];\n    for (const stop of stops) {\n      appendStopPair(expression, stop[0], stop[1], true);\n
}\n    fixupDegenerateStepCurve(expression);\n    return parameters.default === undefined ? expression : [\n
'case',\n      ['=', ['typeof', get], 'number'],\n      expression,\n      convertLiteral(parameters.default)\n
];\n  } else if (type === 'exponential') {\n    const base = parameters.base !== undefined ? parameters.base :
1;\n    const expression = [\n      getInterpolateOperator(parameters),\n      base === 1 ? ['linear'] :
['exponential', base],\n      ['number', get]\n    ];\n\n    for (const stop of stops) {\n
appendStopPair(expression,
stop[0], stop[1], false);\n    }\n    return parameters.default === undefined ? expression : [\n      'case',\n
['=', ['typeof', get], 'number'],\n      expression,\n      convertLiteral(parameters.default)\n    ];\n  } else
{\n    throw new Error(`Unknown property function type ${type}`);\n  }\n}\n\nfunction
convertZoomFunction(parameters, propertySpec, stops, input = ['zoom']) {\n  const type =
getFunctionType(parameters, propertySpec);\n  let expression;\n  let isStep = false;\n  if (type === 'interval') {\n
expression = ['step', input];\n    isStep = true;\n  } else if (type === 'exponential') {\n    const base =
parameters.base !== undefined ? parameters.base : 1;\n    expression = [getInterpolateOperator(parameters), base
=== 1 ? ['linear'] : ['exponential', base], input];\n\n  } else {\n    throw new Error(`Unknown zoom function
type \"${type}\"`);\n  }\n\n  for (const stop
of stops) {\n    appendStopPair(expression, stop[0], stop[1], isStep);\n  }\n\n  fixupDegenerateStepCurve(expression);\n  return expression;\n}\n\nfunction
fixupDegenerateStepCurve(expression) {\n  // degenerate step curve (i.e. a constant function): add a noop stop\n
if (expression[0] === 'step' && expression.length === 3) {\n    expression.push(0);\n
expression.push(expression[3]);\n  }\n}\n\nfunction appendStopPair(curve, input, output, isStep) {\n  // Skip

```

```

duplicate stop values. They were not validated for functions, but they are for expressions.\n //
https://github.com/mapbox/mapbox-gl-js/issues/4107\n if (curve.length > 3 && input === curve[curve.length - 2])
{\n   return;\n }\n // step curves don't get the first input value, as it is redundant.\n if (!(isStep &&
curve.length === 2)) {\n   curve.push(input);\n }\n curve.push(output);\n}\n\nfunction
getFunctionType(parameters, propertySpec) {\n  if (parameters.type)
{\n    return parameters.type;\n  } else {\n    assert(propertySpec.expression);\n    return
(propertySpec.expression: any).interpolated ? 'exponential' : 'interval';\n  }\n}\n\n// \"String with {name} token\"
=> [\"concat\", \"String with \", [\"get\", \"name\"], \" token\"]\n\nexport function convertTokenString(s: string) {\n
const result = ['concat'];\n  const re = /{([^{}]+)}/g;\n  let pos = 0;\n  for (let match = re.exec(s); match !== null;
match = re.exec(s)) {\n    const literal = s.slice(pos, re.lastIndex - match[0].length);\n    pos = re.lastIndex;\n
if (literal.length > 0) result.push(literal);\n    result.push(['get', match[1]]);\n  }\n\n  if (result.length === 1) {\n
return s;\n  }\n\n  if (pos < s.length) {\n    result.push(s.slice(pos));\n  } else if (result.length === 2) {\n
return ['to-string', result[1]];\n  }\n\n  return result;\n}\n\n\"// @flow\n\nimport {createExpression} from
'./expression';\n\nimport
type {GlobalProperties} from './expression';\n\nexport type FeatureFilter = (globalProperties: GlobalProperties,
feature: VectorTileFeature) => boolean;\n\nexport default createFilter;\n\nexport {isExpressionFilter};\n\nfunction
isExpressionFilter(filter: any) {\n  if (filter === true || filter === false) {\n    return true;\n  }\n\n  if
(!Array.isArray(filter) || filter.length === 0) {\n    return false;\n  }\n\n  switch (filter[0]) {\n    case 'has':\n
return filter.length >= 2 && filter[1] !== 'Sid' && filter[1] !== '$type';\n\n    case 'in':\n    return filter.length >= 3
&& Array.isArray(filter[2]);\n\n    case 'in':\n    case '!has':\n    case 'none':\n    return false;\n\n    case '=':\n    case
'!=':\n    case '>':\n    case '>=':\n    case '<':\n    case '<=':\n    return filter.length !== 3 || (Array.isArray(filter[1]) ||
Array.isArray(filter[2]));\n\n    case 'any':\n    case 'all':\n    for (const f of filter.slice(1)) {\n
      if (!isExpressionFilter(f) && typeof f !== 'boolean') {\n        return false;\n      }\n    }\n
return true;\n\n    default:\n    return true;\n  }\n}\n\nconst filterSpec = {\n  'type': 'boolean',\n  'default': false,\n
'transition': false,\n  'property-type': 'data-driven',\n  'expression': {\n    'interpolated': false,\n    'parameters':
['zoom', 'feature']\n  }\n};\n\n/**\n * Given a filter expressed as nested arrays, return a new function\n * that
evaluates whether a given feature (with a .properties or .tags property)\n * passes its test.\n *\n * @private\n *\n
@param {Array} filter mapbox gl filter\n * @returns {Function} filter-evaluating function\n *\nfunction
createFilter(filter: any): FeatureFilter {\n  if (filter === null || filter === undefined) {\n    return () => true;\n
}\n\n  if (!isExpressionFilter(filter)) {\n    filter = convertFilter(filter);\n  }\n\n  const compiled =
createExpression(filter,
filterSpec);\n  if (compiled.result === 'error') {\n    throw new Error(compiled.value.map(err => `${err.key}:
${err.message}`).join(', '));\n  } else {\n    return (globalProperties: GlobalProperties, feature: VectorTileFeature)
=> compiled.value.evaluate(globalProperties, feature);\n  }\n}\n\n// Comparison function to sort numbers and
strings\nfunction compare(a, b) {\n  return a < b ? -1 : a > b ? 1 : 0;\n}\n\nfunction convertFilter(filter:
?Array<any>): mixed {\n  if (!filter) return true;\n  const op = filter[0];\n  if (filter.length <= 1) return (op !==
'any');\n  const converted =\n    op === '=' ? convertComparisonOp(filter[1], filter[2], '=') :\n    op === '!=' ?
convertNegation(convertComparisonOp(filter[1], filter[2], '=')) :\n    op === '<' ||\n    op === '>' ||\n    op
=== '<=' ||\n    op === '>=' ? convertComparisonOp(filter[1], filter[2], op) :\n    op === 'any' ?
convertDisjunctionOp(filter.slice(1)) :\n
    op === 'all' ? ['all'].concat(filter.slice(1).map(convertFilter)) :\n    op === 'none' ?
['all'].concat(filter.slice(1).map(convertFilter).map(convertNegation)) :\n    op === 'in' ? convertInOp(filter[1],
filter.slice(2)) :\n    op === 'in' ? convertNegation(convertInOp(filter[1], filter.slice(2))) :\n    op === 'has' ?
convertHasOp(filter[1]) :\n    op === '!has' ? convertNegation(convertHasOp(filter[1])) :\n    true;\n  return
converted;\n}\n\nfunction convertComparisonOp(property: string, value: any, op: string) {\n  switch (property) {\n
case '$type':\n    return ['filter-type-${op}', value];\n  case '$id':\n    return ['filter-id-${op}', value];\n
default:\n    return ['filter-${op}', property, value];\n  }\n}\n\nfunction convertDisjunctionOp(filters:
Array<Array<any>>) {\n  return ['any'].concat(filters.map(convertFilter));\n}\n\nfunction convertInOp(property:

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converted;\n}\n\n// Given a set of feature properties and an expected type for each one,\n// construct an boolean
expression that tests whether each property has the\n// right type.\n// E.g.: for {name: 'string', population: 'number'},
return\n// [ 'all',\n// ['==', ['typeof', ['get', 'name'], 'string']],\n// ['==', ['typeof', ['get', 'population'], 'number']]\n//
]\nfunction runtimeTypeChecks(expectedTypes: ExpectedTypes) {\n  const conditions = [];\n  for (const property
in expectedTypes) {\n    const get = property === '$id' ? ['id'] : ['get', property];\n    conditions.push(['==',
['typeof',
get], expectedTypes[property]);\n  }\n  if (conditions.length === 0) return true;\n  if (conditions.length === 1)
return conditions[0];\n  return ['all'].concat(conditions);\n}\n\nfunction convertComparisonOp(property: string,
value: any, op: string, expectedTypes: ?ExpectedTypes) {\n  let get;\n  if (property === '$type') {\n    return
[op, ['geometry-type'], value];\n  } else if (property === '$id') {\n    get = ['id'];\n  } else {\n    get = ['get',
property];\n  }\n  if (expectedTypes && value !== null) {\n    const type = ((typeof value): any);\n    expectedTypes[property] = type;\n  }\n  if (op === '=' && property !== '$id' && value === null) {\n
return [\n    'all',\n    ['has', property], // missing property != null for legacy filters\n    ['==', get, null]\n  ];\n  } else if (op === '!' && property !== '$id' && value === null) {\n    return [\n    'any',\n    ['!',
['has', property]], // missing property != null for legacy filters\n    ['!=', get, null]\n  ];\n  }\n  return [op,
get, value];\n}\n\nfunction convertInOp(property: string, values: Array<any>, negate = false) {\n  if (values.length
=== 0) return negate;\n  let get;\n  if (property === '$type') {\n    get = ['geometry-type'];\n  } else if
(property === '$id') {\n    get = ['id'];\n  } else {\n    get = ['get', property];\n  }\n  // Determine if the list of
values to be searched is homogenously typed.\n  // If so (and if the type is string or number), then we can use a\n
// [match, input, [...values], true, false] construction rather than a\n  // bunch of `===` tests.\n  let uniformTypes =
true;\n  const type = typeof values[0];\n  for (const value of values) {\n    if (typeof value !== type) {\n
uniformTypes = false;\n    break;\n  }\n  }\n  if (uniformTypes && (type === 'string' || type
=== 'number')) {\n    // Match expressions must have unique values.\n    const uniqueValues =
values.sort().filter((v, i) => i === 0 || values[i - 1] !== v);\n    return ['match', get, uniqueValues, !negate,
negate];\n  }\n  return [negate ? 'all' : 'any'].concat(\n    values.map(v => [negate ? '!=' : '==', get, v])\n  );\n}\n\nfunction convertHasOp(property: string) {\n  if (property === '$type') {\n    return true;\n  } else if
(property === '$id') {\n    return ['!=', ['id'], null];\n  } else {\n    return ['has', property];\n  }\n}\n\n"/\n@flow\n\nimport {\n  eachLayer,\n  eachProperty\n} from './visit';\nimport {isExpression} from
'./expression';\nimport convertFunction, {convertTokenString} from './function/convert';\nimport convertFilter
from './feature_filter/convert';\nimport type {StyleSpecification} from './types';\n\n/**\n * Migrate the given style
object in place to use expressions. Specifically,\n * this will convert
(a) \"stop\" functions, and (b) legacy filters to their\n * expression equivalents.\n */\nexport default function(style:
StyleSpecification) {\n  const converted = [];\n  eachLayer(style, (layer) => {\n    if (layer.filter) {\n
layer.filter = (convertFilter(layer.filter): any);\n    }\n  });\n  eachProperty(style, {paint: true, layout: true},
({path, value, reference, set}) => {\n    if (isExpression(value)) return;\n    if (typeof value === 'object' &&
!Array.isArray(value)) {\n      set(convertFunction(value, reference));\n      converted.push(path.join('.'));\n    }
else if (reference.tokens && typeof value === 'string') {\n      set(convertTokenString(value));\n    }\n  });\n  return style;\n}\n\n\"\",\nimport migrateToV8 from './migrate/v8';\nimport migrateToExpressions from
'./migrate/expressions';\n\n/**\n * Migrate a Mapbox GL Style to the latest version.\n */\n * @private\n * @alias
migrate\n * @param {object}
style a Mapbox GL Style\n * @returns {Object} a migrated style\n * @example\n * var fs = require('fs');\n * var
migrate = require('mapbox-gl-style-spec').migrate;\n * var style = fs.readFileSync('./style.json', 'utf8');\n *
fs.writeFileSync('./style.json', JSON.stringify(migrate(style)));
\n */\nexport default function(style) {\n  let migrated
= false;\n  if (style.version === 7) {\n    style = migrateToV8(style);\n    migrated = true;\n  }\n  if
(style.version === 8) {\n    migrated = migrateToExpressions(style);\n    migrated = true;\n  }\n  if
(!migrated) {\n    throw new Error('cannot migrate from', style.version);\n  }\n  return style;\n}\n\n\"\",\nexport
default function (style) {\n  const styleIDs = [];\n  const sourceIDs = [];\n  const compositedSourceLayers =
[];\n  for (const id in style.sources) {\n    const source = style.sources[id];\n    if (source.type !==

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"vector")\n      continue;\n\n      const match
= /^mapbox:\/\|\/(.*)\/.exec(source.url);\n      if (!match)\n        continue;\n\n      styleIDs.push(id);\n      sourceIDs.push(match[1]);\n    }\n\n    if (styleIDs.length < 2)\n      return style;\n\n    styleIDs.forEach((id) => {\n      delete style.sources[id];\n    });\n\n    const compositeID = sourceIDs.join(",");\n\n    style.sources[compositeID]
= {\n  "type": "vector",\n  "url": `mapbox://${compositeID}`\n};\n\n    style.layers.forEach((layer) =>
{\n  if (styleIDs.indexOf(layer.source) >= 0)\n    layer.source = compositeID;\n\n  if ('source-layer'
in layer) {\n    if (compositedSourceLayers.indexOf(layer['source-layer']) >= 0)\n      throw new
Error('Conflicting source layer names');\n    } else {\n
compositedSourceLayers.push(layer['source-layer']);\n    }\n  }\n});\n\n    return
style;\n  }\n}, "\nexport default ['type',
'source', 'source-layer', 'minzoom', 'maxzoom', 'filter', 'layout'];\n", "\nimport refProperties from
'./util/ref_properties';\n\nfunction deref(layer, parent) {\n  const result = {};\n\n  for (const k in layer) {\n    if (k
!== 'ref') {\n      result[k] = layer[k];\n    }\n\n    refProperties.forEach((k) => {\n      if (k in parent) {\n
result[k] = parent[k];\n      }\n    });\n\n    return result;\n  }\n\n  export default derefLayers;\n\n  /**\n   * Given an
array of layers, some of which may contain `ref` properties\n   * whose value is the `id` of another property, return a
new array where\n   * such layers have been augmented with the `type`, `source`, etc. properties\n   * from the parent
layer, and the `ref` property has been removed.\n   *\n   * The input is not modified. The output may contain references
to portions\n   * of the input.\n   *\n   * @private\n   * @param {Array<Layer>} layers\n   * @returns {Array<Layer>}\n
   */\n  function derefLayers(layers) {\n
    layers = layers.slice();\n\n    const map = Object.create(null);\n\n    for (let i = 0; i < layers.length; i++) {\n
map[layers[i].id] = layers[i];\n    }\n\n    for (let i = 0; i < layers.length; i++) {\n      if ('ref' in layers[i]) {\n
layers[i] = deref(layers[i], map[layers[i].ref]);\n      }\n    }\n\n    return layers;\n  }\n\n  // @flow\n  /**\n   * Deeply
compares two object literals.\n   *\n   * @private\n   */\n  function deepEqual(a: ?mixed, b: ?mixed): boolean {\n    if
(Array.isArray(a)) {\n      if (!Array.isArray(b) || a.length !== b.length) return false;\n\n      for (let i = 0; i < a.length;
i++) {\n        if (!deepEqual(a[i], b[i])) return false;\n      }\n      return true;\n    }\n\n    if (typeof a === 'object'
&& a !== null && b !== null) {\n      if (!(typeof b === 'object')) return false;\n\n      const keys = Object.keys(a);\n\n      if (keys.length !== Object.keys(b).length) return false;\n\n      for (const key in a) {\n        if
(!deepEqual(a[key],
b[key])) return false;\n      }\n      return true;\n    }\n\n    return a === b;\n  }\n\n  export default
deepEqual;\n\n  "\n  import isEqual from './util/deep_equal';\n\n  const operations = {\n\n    /*\n     * { command:
'setStyle', args: [stylesheet] }\n     */\n    setStyle: 'setStyle',\n\n    /*\n     * { command: 'addLayer', args: [layer,
'beforeLayerId'] }\n     */\n    addLayer: 'addLayer',\n\n    /*\n     * { command: 'removeLayer', args: ['layerId'] }\n
     */\n    removeLayer: 'removeLayer',\n\n    /*\n     * { command: 'setPaintProperty', args: ['layerId', 'prop', value] }\n
     */\n    setPaintProperty: 'setPaintProperty',\n\n    /*\n     * { command: 'setLayoutProperty', args: ['layerId', 'prop',
value] }\n     */\n    setLayoutProperty: 'setLayoutProperty',\n\n    /*\n     * { command: 'setFilter', args: ['layerId',
'filter'] }\n     */\n    setFilter: 'setFilter',\n\n    /*\n     * { command: 'addSource', args: ['sourceId', source] }\n
     */\n    addSource: 'addSource',\n\n    /*\n     * { command: 'removeSource', args: ['sourceId'] }\n     */\n    removeSource:
'removeSource',\n\n    /*\n     * { command: 'setGeoJSONSourceData', args: ['sourceId', data] }\n     */\n    setGeoJSONSourceData:
'setGeoJSONSourceData',\n\n    /*\n     * { command: 'setLayerZoomRange', args: ['layerId', 0, 22] }\n     */\n    setLayerZoomRange:
'setLayerZoomRange',\n\n    /*\n     * { command: 'setLayerProperty', args: ['layerId', 'prop', value] }\n     */\n    setLayerProperty:
'setLayerProperty',\n\n    /*\n     * { command: 'setCenter', args: [[lon, lat] ] }\n     */\n    setCenter: 'setCenter',\n\n    /*\n
     * { command: 'setZoom', args: [zoom] }\n     */\n    setZoom: 'setZoom',\n\n    /*\n     * { command: 'setBearing', args: [bearing]
} }\n     */\n    setBearing: 'setBearing',\n\n    /*\n     * { command: 'setPitch', args: [pitch] }\n     */\n    setPitch: 'setPitch',\n\n    /*\n
     * { command: 'setSprite', args: ['spriteUrl'] }\n     */\n    setSprite: 'setSprite',\n\n    /*\n     * { command: 'setGlyphs', args: ['glyphsUrl'] }\n
     */\n    setGlyphs: 'setGlyphs',\n\n    /*\n     * { command: 'setTransition', args: [transition] }\n     */\n    setTransition:
'setTransition',\n\n    /*\n     * {

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command: 'setLighting', args: [lightProperties] }\n  */\n  setLight: 'setLight'\n\n\nfunction
addSource(sourceId, after, commands) {\n  commands.push({command: operations.addSource, args: [sourceId,
after[sourceId]]});\n}\n\nfunction removeSource(sourceId, commands, sourcesRemoved) {\n
commands.push({command: operations.removeSource, args: [sourceId]});\n  sourcesRemoved[sourceId] =
true;\n}\n\nfunction updateSource(sourceId, after, commands, sourcesRemoved) {\n  removeSource(sourceId,
commands, sourcesRemoved);\n  addSource(sourceId, after, commands);\n}\n\nfunction
canUpdateGeoJSON(before, after, sourceId) {\n  let prop;\n  for (prop in before[sourceId]) {\n    if
(!before[sourceId].hasOwnProperty(prop)) continue;\n
    if (prop !== 'data' && !isEqual(before[sourceId][prop], after[sourceId][prop])) {\n      return false;\n
    }\n  }\n  for (prop in after[sourceId]) {\n    if (!after[sourceId].hasOwnProperty(prop)) continue;\n    if (prop
!== 'data' && !isEqual(before[sourceId][prop], after[sourceId][prop])) {\n      return false;\n    }\n  }\n
return true;\n}\n\nfunction diffSources(before, after, commands, sourcesRemoved) {\n  before = before || {};\n
after = after || {};\n  let sourceId;\n  // look for sources to remove\n  for (sourceId in before) {\n    if
(!before.hasOwnProperty(sourceId)) continue;\n    if (!after.hasOwnProperty(sourceId)) {\n
removeSource(sourceId, commands, sourcesRemoved);\n    }\n  }\n  // look for sources to add/update\n  for
(sourceId in after) {\n    if (!after.hasOwnProperty(sourceId)) continue;\n    if
(!before.hasOwnProperty(sourceId)) {\n      addSource(sourceId,
after, commands);\n    } else if (!isEqual(before[sourceId], after[sourceId])) {\n      if (before[sourceId].type
=== 'geojson' && after[sourceId].type === 'geojson' && canUpdateGeoJSON(before, after, sourceId)) {\n
commands.push({command: operations.setGeoJSONSourceData, args: [sourceId, after[sourceId].data]});\n      }\n
    } else {\n      // no update command, must remove then add\n      updateSource(sourceId, after, commands,
sourcesRemoved);\n    }\n  }\n}\n\nfunction diffLayerPropertyChanges(before, after, commands,
layerId, klass, command) {\n  before = before || {};\n  after = after || {};\n  let prop;\n  for (prop in before)
{\n    if (!before.hasOwnProperty(prop)) continue;\n    if (!isEqual(before[prop], after[prop])) {\n
commands.push({command, args: [layerId, prop, after[prop], klass]});\n    }\n  }\n  for (prop in after) {\n    if
(!after.hasOwnProperty(prop) || before.hasOwnProperty(prop))
continue;\n    if (!isEqual(before[prop], after[prop])) {\n      commands.push({command, args: [layerId, prop,
after[prop], klass]});\n    }\n  }\n}\n\nfunction pluckId(layer) {\n  return layer.id;\n}\n\nfunction
indexById(group, layer) {\n  group[layer.id] = layer;\n  return group;\n}\n\nfunction diffLayers(before, after,
commands) {\n  before = before || [];\n  after = after || [];\n  // order of layers by id\n  const beforeOrder =
before.map(pluckId);\n  const afterOrder = after.map(pluckId);\n  // index of layer by id\n  const beforeIndex =
before.reduce(indexById, {});\n  const afterIndex = after.reduce(indexById, {});\n  // track order of layers as if
they have been mutated\n  const tracker = beforeOrder.slice();\n  // layers that have been added do not need to
be diffed\n  const clean = Object.create(null);\n  let i, d, layerId, beforeLayer, afterLayer, insertBeforeLayerId,
prop;\n  // remove
layers\n  for (i = 0, d = 0; i < beforeOrder.length; i++) {\n    layerId = beforeOrder[i];\n    if
(!afterIndex.hasOwnProperty(layerId)) {\n      commands.push({command: operations.removeLayer, args:
[layerId]});\n      tracker.splice(tracker.indexOf(layerId), d, 1);\n    } else {\n      // limit where in tracker
we need to look for a match\n      d++;\n    }\n  }\n  // add/reorder layers\n  for (i = 0, d = 0; i <
afterOrder.length; i++) {\n    // work backwards as insert is before an existing layer\n    layerId =
afterOrder[afterOrder.length - 1 - i];\n    if (tracker[tracker.length - 1 - i] === layerId) continue;\n    if
(beforeIndex.hasOwnProperty(layerId)) {\n      // remove the layer before we insert at the correct position\n
commands.push({command: operations.removeLayer, args: [layerId]});\n    }\n    tracker.splice(tracker.lastIndexOf(layerId), tracker.length - d, 1);\n    } else {\n
// limit where in tracker we need to look for a match\n      d++;\n    }\n    // add layer at correct
position\n    insertBeforeLayerId = tracker[tracker.length - i];\n    commands.push({command:
operations.addLayer, args: [afterIndex[layerId], insertBeforeLayerId]});\n    tracker.splice(tracker.length - i, 0,
layerId);\n    clean[layerId] = true;\n  }\n  // update layers\n  for (i = 0; i < afterOrder.length; i++) {\n

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operations.setLight, args: [after.light]);\n    }\n\n    // Handle changes to `sources`\n    // If a source is to be
removed, we also--before the removeSource\n    // command--need to remove all the style layers that depend on
it.\n    const sourcesRemoved
= {};\n\n    // First collect the {add,remove}Source commands\n    const removeOrAddSourceCommands =
[];\n    diffSources(before.sources, after.sources, removeOrAddSourceCommands, sourcesRemoved);\n\n    //
Push a removeLayer command for each style layer that depends on a\n    // source that's being removed.\n    //
Also, exclude any such layers them from the input to `diffLayers`\n    // below, so that diffLayers produces the
appropriate `addLayers`\n    // command\n    const beforeLayers = [];\n    if (before.layers) {\n
before.layers.forEach((layer) => {\n        if (sourcesRemoved[layer.source]) {\n
commands.push({command: operations.removeLayer, args: [layer.id]});\n        } else {\n
beforeLayers.push(layer);\n        }\n    });\n    }\n    commands =
commands.concat(removeOrAddSourceCommands);\n\n    // Handle changes to `layers`\n
diffLayers(beforeLayers, after.layers, commands);\n\n    } catch (e) {\n    // fall back to setStyle\n
console.warn('Unable to compute style diff:', e);\n    commands = [{command: operations.setStyle, args:
[after]}];\n    }\n\n    return commands;\n}\n\n\nexport default diffStyles;\nexport {operations};\n\n", "// @flow\n\n//
Note: Do not inherit from Error. It breaks when transpiling to ES5.\n\nexport default class ValidationError {\n
message: string;\n identifier: ?string;\n line: ?number;\n\n constructor(key: ?string, value: ?{ __line__: number
}, message: string, identifier: ?string) {\n    this.message = (key ? `${key}: ` : '') + message;\n    if (identifier)
this.identifier = identifier;\n\n    if (value !== null && value !== undefined && value.__line__) {\n
this.line = value.__line__;\n    }\n    }\n\n}\n\n", "// @flow\n\n// Note: Do not inherit from Error. It breaks when
transpiling to ES5.\n\nexport default class ParsingError {\n
message: string;\n error: Error;\n line: number;\n\n constructor(error: Error) {\n    this.error = error;\n
this.message = error.message;\n    const match = error.message.match(/line (\\d+)/);\n    this.line = match ?
parseInt(match[1], 10) : 0;\n    }\n\n}\n\n", "\nimport ValidationError from './error/validation_error';\n\nexport default
function validateConstants(options) {\n    const key = options.key;\n    const constants = options.value;\n\n    if
(constants) {\n    return [new ValidationError(key, constants, 'constants have been deprecated as of v8')];\n    }
else {\n    return [];\n    }\n\n}\n\n", "// @flow\n\n// Turn jsonlint-lines-primitives objects into primitive
objects\n\nexport function unbundle(value: mixed) {\n    if (value instanceof Number || value instanceof String || value
instanceof Boolean) {\n    return value.valueOf();\n    } else {\n    return value;\n    }\n\n}\n\n\nexport function
deepUnbundle(value: mixed): mixed {\n    if (Array.isArray(value))\n    {\n    return value.map(deepUnbundle);\n    } else if (value instanceof Object && !(value instanceof Number ||
value instanceof String || value instanceof Boolean)) {\n    const unbundledValue: { [key: string]: mixed } = {};\n
for (const key in value) {\n        unbundledValue[key] = deepUnbundle(value[key]);\n    }\n    return
unbundledValue;\n    }\n\n}\n\n return unbundle(value);\n\n}\n\n", "\nimport ValidationError from
'./error/validation_error';\n\nimport getType from './util/get_type';\n\nimport validateSpec from './validate';\n\nexport
default function validateObject(options) {\n    const key = options.key;\n    const object = options.value;\n    const
elementSpecs = options.valueSpec || {};\n    const elementValidators = options.objectElementValidators || {};\n
const style = options.style;\n    const styleSpec = options.styleSpec;\n    let errors = [];\n\n    const type =
getType(object);\n    if (type !== 'object') {\n    return
[new ValidationError(key, object, `object expected, ${type} found`)];\n    }\n\n    for (const objectKey in object) {\n
const elementSpecKey = objectKey.split('.')[0]; // treat `paint.*` as `paint`\n    const elementSpec =
elementSpecs[elementSpecKey] || elementSpecs['*'];\n\n    let validateElement;\n    if
(elementValidators[elementSpecKey]) {\n    validateElement = elementValidators[elementSpecKey];\n    }
else if (elementSpecs[elementSpecKey]) {\n    validateElement = validateSpec;\n    } else if
(elementValidators['*']) {\n    validateElement = elementValidators['*'];\n    } else if (elementSpecs['*']) {\n
validateElement = validateSpec;\n    } else {\n    errors.push(new ValidationError(key,
object[objectKey], `unknown property \\`${objectKey}\\``));\n    continue;\n    }\n\n    errors =
errors.concat(validateElement({\n        key: (key ? `${key}.` : key) + objectKey,\n        value:

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object[objectKey],\n      valueSpec: elementSpec,\n      style,\n      styleSpec,\n      object,\n      objectKey\n    }, object));\n  }\n\n  for (const elementSpecKey in elementSpecs) {\n    // Don't check\n    `required` when there's a custom validator for that property.\n    if (elementValidators[elementSpecKey]) {\n      continue;\n    }\n\n    if (elementSpecs[elementSpecKey].required &&\n      elementSpecs[elementSpecKey]['default'] === undefined && object[elementSpecKey] === undefined) {\n      errors.push(new ValidationError(key, object, `missing required property \"${elementSpecKey}\"`));\n    }\n\n    return errors;\n  }\n\n  ", "\nimport getType from './util/get_type';\nimport validate from './validate';\nimport\n  ValidationError from './error/validation_error';\n\nexport default function validateArray(options) {\n  const array =\n  options.value;\n  const arraySpec = options.valueSpec;\n  const style = options.style;\n\n  const styleSpec = options.styleSpec;\n  const key = options.key;\n  const validateArrayElement =\n  options.arrayElementValidator || validate;\n\n  if (getType(array) !== 'array') {\n    return [new\n  ValidationError(key, array, `array expected, ${getType(array)} found`)];\n  }\n\n  if (arraySpec.length &&\n  array.length !== arraySpec.length) {\n    return [new ValidationError(key, array, `array length\n  ${arraySpec.length} expected, length ${array.length} found`)];\n  }\n\n  if (arraySpec['min-length'] &&\n  array.length < arraySpec['min-length']) {\n    return [new ValidationError(key, array, `array length at least\n  ${arraySpec['min-length']} expected, length ${array.length} found`)];\n  }\n\n  let arrayElementSpec = {\n  `type`: arraySpec.value,\n  `values`: arraySpec.values\n  };\n\n  if (styleSpec.$version < 7) {\n  arrayElementSpec.function = arraySpec.function;\n  }\n\n  if (getType(arraySpec.value) === 'object') {\n    arrayElementSpec = arraySpec.value;\n  }\n\n  let errors = [];\n  for (let i = 0; i < array.length; i++) {\n  errors = errors.concat(validateArrayElement({\n    array,\n    arrayIndex: i,\n    value: array[i],\n    valueSpec: arrayElementSpec,\n    style,\n    styleSpec,\n    key: `_${key}[${i}]`\n  }));\n  }\n\n  return errors;\n}\n\n", "\nimport getType from './util/get_type';\nimport ValidationError from\n  './error/validation_error';\n\nexport default function validateNumber(options) {\n  const key = options.key;\n  const value = options.value;\n  const valueSpec = options.valueSpec;\n  let type = getType(value);\n\n  // eslint-\n  disable-next-line no-self-compare\n  if (type === 'number' && value !== value) {\n    type = 'NaN';\n  }\n\n  if\n  (type !== 'number') {\n    return [new ValidationError(key, value, `number expected, ${type} found`)];\n  }\n\n  if ('minimum' in valueSpec &&\n  value < valueSpec.minimum) {\n    return [new ValidationError(key, value, `${value} is less than the minimum\n  value ${valueSpec.minimum}`)];\n  }\n\n  if ('maximum' in valueSpec && value > valueSpec.maximum) {\n  return [new ValidationError(key, value, `${value} is greater than the maximum value\n  ${valueSpec.maximum}`)];\n  }\n\n  return [];\n}\n\n", "\nimport ValidationError from './error/validation_error';\nimport getType from\n  './util/get_type';\nimport validate from './validate';\nimport validateObject from './validate_object';\nimport\n  validateArray from './validate_array';\nimport validateNumber from './validate_number';\nimport {isExpression}\n  from './expression';\nimport {unbundle, deepUnbundle} from './util/unbundle_jsonlint';\nimport {\n  supportsPropertyExpression,\n  supportsZoomExpression,\n  supportsInterpolation\n} from\n  './util/properties';\n\nexport default function validateFunction(options) {\n  const functionValueSpec =\n  options.valueSpec;\n  const\n  functionType = unbundle(options.value.type);\n  let stopKeyType;\n  let stopDomainValues = {};\n  let\n  previousStopDomainValue;\n  let previousStopDomainZoom;\n\n  const isZoomFunction = functionType !==\n  'categorical' && options.value.property === undefined;\n  const isPropertyFunction = !isZoomFunction;\n  const\n  isZoomAndPropertyFunction =\n  getType(options.value.stops) === 'array' &&\n  getType(options.value.stops[0]) === 'array' &&\n  getType(options.value.stops[0][0]) === 'object';\n\n  const\n  errors = validateObject({\n    key: options.key,\n    value: options.value,\n    valueSpec:\n  options.valueSpec,\n    styleSpec: options.styleSpec,\n    style: options.style,\n    styleSpec: options.styleSpec,\n    objectElementValidators: {\n      stops: validateFunctionStops,\n      default: validateFunctionDefault\n    }\n  });\n\n  if (functionType === 'identity' && isZoomFunction) {\n    errors.push(new\n  ValidationError(options.key,\n
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options.value, 'missing required property \''property\'');\n  }\n\n  if (functionType !== 'identity' &&
!options.value.stops) {\n    errors.push(new ValidationError(options.key, options.value, 'missing required property
\'stops\'));}\n\n  if (functionType === 'exponential' && options.valueSpec.expression &&
!supportsInterpolation(options.valueSpec)) {\n    errors.push(new ValidationError(options.key, options.value,
'exponential functions not supported');}\n  }\n\n  if (options.styleSpec.$version >= 8) {\n    if
(isPropertyFunction && !supportsPropertyExpression(options.valueSpec)) {\n      errors.push(new
ValidationErrorMessage(options.key, options.value, 'property functions not supported');}\n    } else if (isZoomFunction
&& !supportsZoomExpression(options.valueSpec)) {\n      errors.push(new ValidationError(options.key,
options.value, 'zoom functions not supported');}\n    }\n  }\n\n  if ((functionType === 'categorical' ||
isZoomAndPropertyFunction)
&& options.value.property === undefined) {\n    errors.push(new ValidationError(options.key, options.value,
\'"property" property is required');)\n  }\n\n  return errors;\n\n  function validateFunctionStops(options) {\n
if (functionType === 'identity') {\n    return [new ValidationError(options.key, options.value, 'identity function
may not have a "stops" property)];\n  }\n\n  let errors = [];\n  const value = options.value;\n\n  errors = errors.concat(validateArray({\n    key: options.key,\n    value,\n    valueSpec:
options.valueSpec,\n    style: options.style,\n    styleSpec: options.styleSpec,\n
arrayElementValidator: validateFunctionStop\n  }));\n\n  if (getType(value) === 'array' && value.length
=== 0) {\n    errors.push(new ValidationError(options.key, value, 'array must have at least one stop'));\n
}\n\n  return errors;\n  }\n\n  function validateFunctionStop(options) {\n    let errors = [];\n    const value = options.value;\n    const key
= options.key;\n\n    if (getType(value) !== 'array') {\n      return [new ValidationError(key, value, `array
expected, ${getType(value)} found`)];\n    }\n\n    if (value.length !== 2) {\n      return [new
ValidationError(key, value, `array length 2 expected, length ${value.length} found`)];\n    }\n\n    if
(isZoomAndPropertyFunction) {\n      if (getType(value[0]) !== 'object') {\n        return [new
ValidationError(key, value, `object expected, ${getType(value[0])} found`)];\n      }\n      if (value[0].zoom
=== undefined) {\n        return [new ValidationError(key, value, 'object stop key must have zoom')];\n
}\n      if (value[0].value === undefined) {\n        return [new ValidationError(key, value, 'object stop key
must have value')];\n      }\n\n      if (previousStopDomainZoom && previousStopDomainZoom > unbundle(value[0].zoom)) {\n        return
[new ValidationError(key, value[0].zoom, 'stop zoom values must appear in ascending order')];\n      }\n\n      if (unbundle(value[0].zoom) !== previousStopDomainZoom) {\n        previousStopDomainZoom =
unbundle(value[0].zoom);\n        previousStopDomainValue = undefined;\n        stopDomainValues =
{};\n      }\n      errors = errors.concat(validateObject({\n        key: `${key}[0]`,\n        value:
value[0],\n        valueSpec: {zoom: {}},\n        style: options.style,\n        styleSpec:
options.styleSpec,\n        objectElementValidators: {zoom: validateNumber, value:
validateStopDomainValue}\n      }));\n    } else {\n      errors =
errors.concat(validateStopDomainValue({\n        key: `${key}[0]`,\n        value: value[0],\n
valueSpec:
{\n          style: options.style,\n          styleSpec: options.styleSpec\n        }, value));\n    }\n\n    if
(isExpression(deepUnbundle(value[1]))) {\n      return errors.concat([new ValidationError(`${key}[1]`, value[1],
'expressions are not allowed in function stops.']));\n    }\n\n    return errors.concat(validate({\n      key:
`${key}[1]`,\n      value: value[1],\n      valueSpec: functionValueSpec,\n      style: options.style,\n
styleSpec: options.styleSpec\n    }));\n  }\n\n  function validateStopDomainValue(options, stop) {\n    const
type = getType(options.value);\n    const value = unbundle(options.value);\n    const reportValue =
options.value !== null ? options.value : stop;\n\n    if (!stopKeyType) {\n      stopKeyType = type;\n    } else
if (type !== stopKeyType) {\n      return [new ValidationError(options.key, reportValue, `${type} stop domain
type

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must match previous stop domain type ${stopKeyType}));\n    }\n\n    if (type !== 'number' && type !==
'string' && type !== 'boolean') {\n        return [new ValidationError(options.key, reportValue, 'stop domain value
must be a number, string, or boolean)];\n    }\n\n    if (type !== 'number' && functionType !== 'categorical')
{\n        let message = `number expected, ${type} found`;\n        if
(supportsPropertyExpression(functionValueSpec) && functionType === undefined) {\n            message += `\nIf
you intended to use a categorical function, specify `"type": "categorical"`.`; \n        }\n        return [new
ValidationError(options.key, reportValue, message)];\n    }\n\n    if (functionType === 'categorical' && type
=== 'number' && (!isFinite(value) || Math.floor(value) !== value)) {\n        return [new
ValidationError(options.key, reportValue, `integer expected, found ${value}`)];\n    }\n\n    if (functionType
!== 'categorical' && type === 'number' && previousStopDomainValue !== undefined && value <
previousStopDomainValue) {\n        return [new ValidationError(options.key, reportValue, 'stop domain values
must appear in ascending order')];\n    } else {\n        previousStopDomainValue = value;\n    }\n\n    if
(functionType === 'categorical' && value in stopDomainValues) {\n        return [new
ValidationError(options.key, reportValue, 'stop domain values must be unique')];\n    } else {\n
stopDomainValues[value] = true;\n    }\n\n    return [];\n }\n\n function validateFunctionDefault(options)
{\n    return validate({\n        key: options.key,\n        value: options.value,\n        valueSpec:
functionValueSpec,\n        style: options.style,\n        styleSpec: options.styleSpec\n    });\n }\n}\n", "//
@flow\n\nimport ValidationError from '../error/validation_error';\n\nimport {createExpression,
createPropertyExpression}
from './expression';\nimport {deepUnbundle} from './util/unbundle_jsonlint';\nimport {isStateConstant,
isGlobalPropertyConstant, isFeatureConstant} from './expression/is_constant';\n\nexport default function
validateExpression(options: any): Array<ValidationError> {\n    const expression = (options.expressionContext ===
'property' ? createPropertyExpression : createExpression)(deepUnbundle(options.value), options.valueSpec);\n    if
(expression.result === 'error') {\n        return expression.value.map((error) => {\n            return new
ValidationError(` ${options.key} ${error.key}`, options.value, error.message);\n        });\n    }\n\n    const
expressionObj = (expression.value: any).expression || (expression.value: any)._styleExpression.expression;\n\n    if
(options.expressionContext === 'property' && (options.propertyKey === 'text-font') &&\n
expressionObj.possibleOutputs().indexOf(undefined) !== -1) {\n        return [new ValidationError(options.key,
options.value,
`Invalid data expression for "${options.propertyKey}". Output values must be contained as literals within the
expression.`)];\n    }\n\n    if (options.expressionContext === 'property' && options.propertyType === 'layout' &&\n
(!isStateConstant(expressionObj))) {\n        return [new ValidationError(options.key, options.value, `"feature-
state" data expressions are not supported with layout properties.`)];\n    }\n\n    if (options.expressionContext ===
'filter' && !isStateConstant(expressionObj)) {\n        return [new ValidationError(options.key, options.value,
`"feature-state" data expressions are not supported with filters.`)];\n    }\n\n    if (options.expressionContext &&
options.expressionContext.indexOf('cluster') === 0) {\n        if (!isGlobalPropertyConstant(expressionObj, ['zoom',
'feature-state'])) {\n            return [new ValidationError(options.key, options.value, `"zoom" and "feature-state"
expressions are not supported with cluster properties.`)];\n        }\n        if (options.expressionContext === 'cluster-initial' && !isFeatureConstant(expressionObj)) {\n
return [new ValidationError(options.key, options.value, 'Feature data expressions are not supported with initial
expression part of cluster properties.`)];\n        }\n    }\n\n    return [];\n }\n}\n", "\nimport getType from
'./util/get_type';\nimport ValidationError from '../error/validation_error';\n\nexport default function
validateBoolean(options) {\n    const value = options.value;\n    const key = options.key;\n    const type =
getType(value);\n\n    if (type !== 'boolean') {\n        return [new ValidationError(key, value, `boolean expected,
${type} found`)];\n    }\n\n    return [];\n }\n}\n", "\nimport ValidationError from '../error/validation_error';\nimport
getType from './util/get_type';\nimport {parseCSSColor} from 'csscolorparser';\n\nexport default function
validateColor(options) {\n    const key = options.key;\n    const value = options.value;\n

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const type = getType(value);\n\n if (type !== 'string') {\n    return [new ValidationError(key, value, `color
expected, ${type} found`)];\n  }\n\n if (parseCSSColor(value) === null) {\n    return [new
ValidationError(key, value, `color expected, \"${value}\" found`)];\n  }\n\n return [];\n}\n", "\nimport
ValidationError from './error/validation_error';\nimport {unbundle} from './util/unbundle_jsonlint';\n\nexport
default function validateEnum(options) {\n  const key = options.key;\n  const value = options.value;\n  const
valueSpec = options.valueSpec;\n  const errors = [];\n\n  if (Array.isArray(valueSpec.values)) { // <v7\n    if
(valueSpec.values.indexOf(unbundle(value)) === -1) {\n      errors.push(new ValidationError(key, value,
`expected one of [${valueSpec.values.join(', ')}], ${JSON.stringify(value)} found`));\n    } else { // >=v8\n
if (Object.keys(valueSpec.values).indexOf(unbundle(value)) === -1) {\n
errors.push(new ValidationError(key, value, `expected one of [${Object.keys(valueSpec.values).join(', ')}],
${JSON.stringify(value)} found`));\n    }\n  }\n  return errors;\n}\n", "\nimport ValidationError from
 './error/validation_error';\nimport validateExpression from './validate_expression';\nimport validateEnum from
 './validate_enum';\nimport getType from './util/get_type';\nimport {unbundle, deepUnbundle} from
 './util/unbundle_jsonlint';\nimport extend from './util/extend';\nimport {isExpressionFilter} from
 './feature_filter';\n\nexport default function validateFilter(options) {\n  if
(isExpressionFilter(deepUnbundle(options.value))) {\n    return validateExpression(extend({}, options, {\n
expressionContext: 'filter',\n    valueSpec: {value: 'boolean'}\n  }));\n  } else {\n    return
validateNonExpressionFilter(options);\n  }\n}\n\nfunction validateNonExpressionFilter(options) {\n  const value
= options.value;\n  const key =
options.key;\n\n  if (getType(value) !== 'array') {\n    return [new ValidationError(key, value, `array expected,
${getType(value)} found`)];\n  }\n\n  const styleSpec = options.styleSpec;\n  let type;\n\n  let errors = [];\n\n
if (value.length < 1) {\n    return [new ValidationError(key, value, 'filter array must have at least 1 element')];\n
}\n\n  errors = errors.concat(validateEnum({\n    key: `${key}[0]`,\n    value: value[0],\n    valueSpec:
styleSpec.filter_operator,\n    style: options.style,\n    styleSpec: options.styleSpec\n  }));\n\n  switch
(unbundle(value[0])) {\n    case '<':\n    case '<=':\n    case '>':\n    case '>=':\n      if (value.length >= 2 &&
unbundle(value[1]) === '$type') {\n        errors.push(new ValidationError(key, value, `\"$type\" cannot be use
with operator \"${value[0]}\"`));\n      } else /* falls through */\n      case '==':\n      case '!=':\n      if (value.length
!== 3) {\n        errors.push(new
ValidationError(key, value, `filter array for operator \"${value[0]}\" must have 3 elements`));\n      } else /* falls
through */\n      case 'in':\n      case '!in':\n      if (value.length >= 2) {\n        type = getType(value[1]);\n      if
(type !== 'string') {\n        errors.push(new ValidationError(`${key}[1]`, value[1], `string expected, ${type}
found`));\n      }\n      for (let i = 2; i < value.length; i++) {\n        type = getType(value[i]);\n      if
(unbundle(value[1]) === '$type') {\n        errors = errors.concat(validateEnum({\n          key:
`${key}[${i}]`,\n          value: value[i],\n          valueSpec: styleSpec.geometry_type,\n          style:
options.style,\n          styleSpec: options.styleSpec\n        }));\n      } else if (type !== 'string' && type
!== 'number' && type !== 'boolean') {\n        errors.push(new ValidationError(`${key}[${i}]`,
value[i], `string, number, or boolean expected, ${type} found`));\n      }\n      break;\n\n      case 'any':\n
case 'all':\n      case 'none':\n      for (let i = 1; i < value.length; i++) {\n        errors =
errors.concat(validateNonExpressionFilter({\n          key: `${key}[${i}]`,\n          value: value[i],\n
style: options.style,\n          styleSpec: options.styleSpec\n        }));\n      }\n      break;\n\n      case 'has':\n
case '!has':\n      type = getType(value[1]);\n      if (value.length !== 2) {\n        errors.push(new
ValidationError(key, value, `filter array for \"${value[0]}\" operator must have 2 elements`));\n      } else if (type
!== 'string') {\n        errors.push(new ValidationError(`${key}[1]`, value[1], `string expected, ${type} found`));\n
      }\n      break;\n\n    }\n\n  return errors;\n}\n", "\nimport validate from './validate';\nimport ValidationError
from './error/validation_error';\nimport getType from './util/get_type';\nimport {isFunction} from
 './function';\nimport {unbundle, deepUnbundle} from './util/unbundle_jsonlint';\nimport
{supportsPropertyExpression} from './util/properties';\n\nexport default function validateProperty(options,
propertyType) {\n  const key = options.key;\n  const style = options.style;\n  const styleSpec =

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return validateEnum({\n      key: `${key}.type`,\n      value: value.type,\n      valueSpec: { values:
['vector', 'raster', 'raster-dem', 'geojson', 'video', 'image']},\n      style,\n      styleSpec\n    });\n}\n\nfunction validatePromoteId({key, value}) {\n  if (getType(value)
=== 'string') {\n    return validateString({key, value});\n  } else {\n    const errors = [];\n    for (const prop
in value) {\n      errors.push(...validateString({key: `${key}.${prop}`, value: value[prop]}));\n    }\n    return errors;\n  }\n}\n\nimport ValidationError from './error/validation_error';\nimport getType from
 './util/get_type';\nimport validate from './validate';\n\nexport default function validateLight(options) {\n  const light
= options.value;\n  const styleSpec = options.styleSpec;\n  const lightSpec = styleSpec.light;\n  const style =
options.style;\n\n  let errors = [];\n\n  const rootType = getType(light);\n  if (light === undefined) {\n    return
errors;\n  } else if (rootType !== 'object') {\n    errors = errors.concat([new ValidationError('light', light, `object
expected, ${rootType} found`)]);\n    return errors;\n  }\n\n  for (const key in light) {\n    const
transitionMatch = key.match(/^(.*)-transition$/);\n\n    if (transitionMatch && lightSpec[transitionMatch[1]] && lightSpec[transitionMatch[1]].transition) {\n
errors = errors.concat(validate({\n      key,\n      value: light[key],\n      valueSpec:
styleSpec.transition,\n      style,\n      styleSpec\n    }));\n    } else if (lightSpec[key]) {\n
errors = errors.concat(validate({\n      key,\n      value: light[key],\n      valueSpec:
lightSpec[key],\n      style,\n      styleSpec\n    }));\n    } else {\n      errors =
errors.concat([new ValidationError(key, light[key], `unknown property \"${key}\"`)]);\n    }\n  }\n\n  return
errors;\n}\n\n// @flow\nimport validateExpression from './validate_expression';\nimport validateString from
 './validate_string';\n\nexport default function validateFormatted(options: any) {\n  if (validateString(options).length
=== 0) {\n    return [];\n  }\n\n  return validateExpression(options);\n}\n\n// @flow\nimport
validateExpression from './validate_expression';\nimport validateString from './validate_string';\n\nexport default
function validateImage(options: any) {\n  if (validateString(options).length === 0) {\n    return [];\n  }\n\n  return
validateExpression(options);\n}\n\nimport extend from './util/extend';\nimport {unbundle, deepUnbundle}
from './util/unbundle_jsonlint';\nimport {isExpression} from './expression';\nimport {isFunction} from
 './function';\nimport validateFunction from './validate_function';\nimport validateExpression from
 './validate_expression';\nimport validateObject from './validate_object';\nimport validateArray from
 './validate_array';\nimport validateBoolean from './validate_boolean';\nimport validateNumber from
 './validate_number';\nimport validateColor from './validate_color';\nimport validateConstants from
 './validate_constants';\nimport
validateEnum from './validate_enum';\nimport validateFilter from './validate_filter';\nimport validateLayer from
 './validate_layer';\nimport validateSource from './validate_source';\nimport validateLight from
 './validate_light';\nimport validateString from './validate_string';\nimport validateFormatted from
 './validate_formatted';\nimport validateImage from './validate_image';\n\nconst VALIDATORS = {\n  '*() {\n
return [];\n  },\n  'array': validateArray,\n  'boolean': validateBoolean,\n  'number': validateNumber,\n  'color':
validateColor,\n  'constants': validateConstants,\n  'enum': validateEnum,\n  'filter': validateFilter,\n  'function':
validateFunction,\n  'layer': validateLayer,\n  'object': validateObject,\n  'source': validateSource,\n  'light':
validateLight,\n  'string': validateString,\n  'formatted': validateFormatted,\n  'resolvedImage':
validateImage\n};\n\n// Main recursive validation function. Tracks:\n// - key: string representing
location of validation in style tree. Used only\n// for more informative error reporting.\n// - value: current value
from style being evaluated. May be anything from a\n// high level object that needs to be descended into deeper or
a simple\n// scalar value.\n// - valueSpec: current spec being evaluated. Tracks value.\n// - styleSpec: current full
spec being evaluated.\n\nexport default function validate(options) {\n  const value = options.value;\n  const
valueSpec = options.valueSpec;\n  const styleSpec = options.styleSpec;\n\n  if (valueSpec.expression &&
isFunction(unbundle(value))) {\n    return validateFunction(options);\n  } else if (valueSpec.expression &&
isExpression(deepUnbundle(value))) {\n    return validateExpression(options);\n  } else if (valueSpec.type &&
VALIDATORS[valueSpec.type]) {\n    return VALIDATORS[valueSpec.type](options);\n  } else {\n
const valid = validateObject(extend({}, options, {\n      valueSpec:

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valueSpec.type ? styleSpec[valueSpec.type] : valueSpec\n    });\n    return valid;\n  }\n}\n", "\nimport
ValidationError from './error/validation_error';\nimport validateString from './validate_string';\n\nexport default
function(options) {\n  const value = options.value;\n  const key = options.key;\n  const errors =
validateString(options);\n  if (errors.length) return errors;\n\n  if (value.indexOf('{fontstack}') === -1) {\n
errors.push(new ValidationError(key, value, "glyphs url must include a '{fontstack}' token")); \n  }\n\n  if
(value.indexOf('{range}') === -1) {\n    errors.push(new ValidationError(key, value, "glyphs url must include a
'{range}' token")); \n  }\n\n  return errors;\n}\n", "\nimport validateConstants from
'./validate/validate_constants';\nimport validate from './validate/validate';\nimport latestStyleSpec from
'./reference/latest';\nimport validateGlyphsURL from './validate/validate_glyphs_url';\nimport validateSource
from './validate/validate_source';\nimport validateLight from './validate/validate_light';\nimport validateLayer from
'./validate/validate_layer';\nimport validateFilter from './validate/validate_filter';\nimport validatePaintProperty from
'./validate/validate_paint_property';\nimport validateLayoutProperty from
'./validate/validate_layout_property';\n\n/**\n * Validate a Mapbox GL style against the style specification. This
entrypoint, \n * `mapbox-gl-style-spec/lib/validate_style.min`, is designed to produce as\n * small a browserify
bundle as possible by omitting unnecessary functionality\n * and legacy style specifications.\n * \n * @private\n *
@param {Object} style The style to be validated.\n * @param {Object} [styleSpec] The style specification to
validate against.\n *   If omitted, the latest style spec is used.\n * @returns {Array<ValidationError>}\n *
@example\n * var validate = require('mapbox-gl-style-spec/lib/validate_style.min');\n * var errors =
validate(style);\n\n*/\nfunction validateStyleMin(style, styleSpec = latestStyleSpec) {\n\n  let errors = [];\n\n  errors =
errors.concat(validate({\n    key: ",\n    value: style,\n    valueSpec: styleSpec.$root,\n    styleSpec,\n
style,\n    objectElementValidators: {\n      glyphs: validateGlyphsURL,\n      '*()' {\n        return [];\n
      }\n    }\n  }));\n\n  if (style.constants) {\n    errors = errors.concat(validateConstants({\n      key:
'constants',\n      value: style.constants,\n      style,\n      styleSpec\n    }));\n  }\n\n  return
sortErrors(errors);\n}\n\nvalidateStyleMin.source = wrapCleanErrors(validateSource);\nvalidateStyleMin.light =
wrapCleanErrors(validateLight);\nvalidateStyleMin.layer =
wrapCleanErrors(validateLayer);\nvalidateStyleMin.filter =
wrapCleanErrors(validateFilter);\nvalidateStyleMin.paintProperty =
wrapCleanErrors(validatePaintProperty);\nvalidateStyleMin.layoutProperty
= wrapCleanErrors(validateLayoutProperty);\n\nfunction sortErrors(errors) {\n  return [].concat(errors).sort((a, b)
=> {\n    return a.line - b.line;\n  });\n}\n\nfunction wrapCleanErrors(inner) {\n  return function(...args) {\n
return sortErrors(inner.apply(this, args));\n  };\n}\n\nexport default validateStyleMin;\n", "/* parser generated by
jison 0.4.15 */\n\nReturns a Parser object of the following structure:\n\nParser: {\n  yy: {}\n}\n\nParser.prototype: {\n  yy: {},\n  trace: function(),\n  symbols_: {associative list: name ==> number},\n
terminals_: {associative list: number ==> name},\n  productions_: [...],\n  performAction: function
anonymous(yytext, yyleng, yylineno, yy, yystate, $$, _$),\n  table: [...],\n  defaultActions: {...},\n  parseError:
function(str, hash),\n  parse: function(input),\n\n  lexer: {\n    EOF: 1,\n    parseError: function(str, hash),\n
setInput: function(input),\n
input: function(),\n    unput: function(str),\n    more: function(),\n    less: function(n),\n    pastInput:
function(),\n    upcomingInput: function(),\n    showPosition: function(),\n    test_match:
function(regex_match_array, rule_index),\n    next: function(),\n    lex: function(),\n    begin:
function(condition),\n    popState: function(),\n    _currentRules: function(),\n    topState: function(),\n
pushState: function(condition),\n\n    options: {\n      ranges: boolean (optional: true ==> token location
info will include a .range[] member)\n      flex: boolean (optional: true ==> flex-like lexing behaviour
where the rules are tested exhaustively to find the longest match)\n      backtrack_lexer: boolean (optional: true
==> lexer regexes are tested in order and for each matching regex the action code is invoked; the lexer terminates
the scan when a token is returned by the action

```

```

code)\n    },\n\n    performAction: function(yy, yy_, $avoiding_name_collisions, YY_START),\n    rules:
[...],\n    conditions: {associative list: name ==> set},\n    }\n }\n\n token location info (@$, _$, etc.): {\n
first_line: n,\n last_line: n,\n first_column: n,\n last_column: n,\n range: [start_number, end_number]
(where the numbers are indexes into the input string, regular zero-based)\n }\n\n the parseError function receives
a 'hash' object with these members for lexer and parser errors: {\n  text: (matched text)\n  token: (the
produced terminal token, if any)\n  line: (yylineno)\n }\n while parser (grammar) errors will also provide
these members, i.e. parser errors deliver a superset of attributes: {\n  loc: (yylloc)\n  expected: (string
describing the set of expected tokens)\n  recoverable: (boolean: TRUE when the parser has a error recovery rule
available for this particular error)\n
}\n*\nvar parser = (function()\nvar o=function(k,v,o,l){for(o=o||{ },l=k.length;l--;o[k[l]]=v);return
o},$V0=[1,12],$V1=[1,13],$V2=[1,9],$V3=[1,10],$V4=[1,11],$V5=[1,14],$V6=[1,15],$V7=[14,18,22,24],$V8=[1
8,22],$V9=[22,24];\nvar parser = {trace: function trace() { },\nnyy: { },\nsymbols_:
{"error":2,"JSONString":3,"STRING":4,"JSONNumber":5,"NUMBER":6,"JSONNullLiteral":7,"NULL":
8,"JSONBooleanLiteral":9,"TRUE":10,"FALSE":11,"JSONText":12,"JSONValue":13,"EOF":14,"JSONO
bject":15,"JSONArray":16,"{":17,"}":18,"JSONMemberList":19,"JSONMember":20,"":21,"":22,"[":23
,"]":24,"JSONElementList":25,"$accept":0,"$end":1},\nterminals_:
{2:"error",4:"STRING",6:"NUMBER",8:"NULL",10:"TRUE",11:"FALSE",14:"EOF",17:"{",18:"}",21
:":",22:"",23:"[",24:"]"},\nproductions_:
[0,[3,1],[5,1],[7,1],[9,1],[9,1],[12,2],[13,1],[13,1],[13,1],[13,1],[13,1],[13,1],[15,2],[15,3],[20,3],[19,1],[19,3],[16,2],
[16,3],[25,1],[25,3]],\nperformAction:
function anonymous(yytext, yyleng, yylineno, yy, yystate /* action[1] */, $$ /* vstack */, _$ /* lstack */) {\n/* this
== yyval *\n\nvar $0 = $.length - 1;\nswitch (yystate) {\ncase 1:\n // replace escaped characters with actual
character\n      this.$ = new String(yytext.replace(/\\(\\\\|\\\\"|\\'|\\t|\\r|\\n)/g, "\\$1"));
      .replace(/\\\\n/g, "\\n")\n
      .replace(/\\\\r/g, "\\r")\n
      .replace(/\\\\t/g, "\\t")\n
      .replace(/\\\\v/g, "\\v")\n
      .replace(/\\\\f/g, "\\f")\n
      .replace(/\\\\b/g, "\\b");\n      this.$.__line__ = this._$.first_line;\n
\nbreak;\ncase 2:\n\n      this.$ = new Number(yytext);\n      this.$.__line__ = this._$.first_line;\n
\nbreak;\ncase 3:\n\n      this.$ = null;\n      \nbreak;\ncase 4:\n\n      this.$ = new Boolean(true);\n
this.$.__line__ = this._$.first_line;\n      \nbreak;\ncase 5:\n\n      this.$
= new Boolean(false);\n      this.$.__line__ = this._$.first_line;\n      \nbreak;\ncase 6:\nreturn this.$ = $$[$0-
1];\nbreak;\ncase 13:\nthis.$ = { }; Object.defineProperty(this.$, '__line__', {\n      value: this._$.first_line,\n
enumerable: false\n    })\nbreak;\ncase 14: case 19:\nthis.$ = $$[$0-1]; Object.defineProperty(this.$, '__line__',
{\n      value: this._$.first_line,\n      enumerable: false\n    })\nbreak;\ncase 15:\nthis.$ = $$[$0-2],
$$[$0];\nbreak;\ncase 16:\nthis.$ = { }; this.$[$0][0] = $$[$0][1];\nbreak;\ncase 17:\nthis.$ = $$[$0-2]; $$[$0-
2][$0][0] = $$[$0][1];\nbreak;\ncase 18:\nthis.$ = []; Object.defineProperty(this.$, '__line__', {\n      value:
this._$.first_line,\n      enumerable: false\n    })\nbreak;\ncase 20:\nthis.$ = $$[$0];\nbreak;\ncase 21:\nthis.$
= $$[$0-2]; $$[$0-2].push($$[$0]);\nbreak;\n}\n},\ntable:
[{\n3:5,4:$V0,5:6,6:$V1,7:3,8:$V2,9:4,10:$V3,11:$V4,12:1,13:2,15:7,16:8,17:$V5,23:$V6},{1:[3]},{14:[1,16]},o($
V7,[2,7]),o($V7,[2,8]),o($V7,[2,9]),o($V7,[2,10]),o($V7,[2,11]),o($V7,[2,12]),o($V7,[2,3]),o($V7,[2,4]),o($V7,[2,
5]),o([14,18,21,22,24],[2,1]),o($V7,[2,2]),{3:20,4:$V0,18:[1,17],19:18,20:19},{3:5,4:$V0,5:6,6:$V1,7:3,8:$V2,9:4,
10:$V3,11:$V4,13:23,15:7,16:8,17:$V5,23:$V6,24:[1,21],25:22},{1:[2,6]},o($V7,[2,13]),{18:[1,24],22:[1,25]},o($
V8,[2,16]),{21:[1,26]},o($V7,[2,18]),{22:[1,28],24:[1,27]},o($V9,[2,20]),o($V7,[2,14]),{3:20,4:$V0,20:29},{3:5,4:
$V0,5:6,6:$V1,7:3,8:$V2,9:4,10:$V3,11:$V4,13:30,15:7,16:8,17:$V5,23:$V6},o($V7,[2,19]),{3:5,4:$V0,5:6,6:$V1
,7:3,8:$V2,9:4,10:$V3,11:$V4,13:31,15:7,16:8,17:$V5,23:$V6},o($V8,[2,17]),o($V8,[2,15]),o($V9,[2,21])],\ndefau
ltActions:
{16:[2,6]},\nparseError: function parseError(str, hash) {\n  if (hash.recoverable) {\n    this.trace(str);\n  } else
{\n    throw new Error(str);\n  }\n},\nparse: function parse(input) {\n  var self = this, stack = [0], tstack = [],
vstack = [null], lstack = [], table =

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```

this.table, yytext = "", yylineno = 0, yyleng = 0, recovering = 0, ERROR = 2, EOF = 1;\n  var args =
lstack.slice.call(arguments, 1);\n  var lexer = Object.create(this.lexer);\n  var sharedState = { yy: {} };\n  for (var
k in this.yy) {\n    if (Object.prototype.hasOwnProperty.call(this.yy, k)) {\n      sharedState.yy[k] =
this.yy[k];\n    }\n  }\n  lexer.setInput(input, sharedState.yy);\n  sharedState.yy.lexer = lexer;\n
sharedState.yy.parser = this;\n  if (typeof lexer.yylloc === 'undefined') {\n    lexer.yylloc = {};\n  }\n  var yyloc
= lexer.yylloc;\n  lstack.push(yyloc);\n  var ranges = lexer.options && lexer.options.ranges;\n  if (typeof
sharedState.yy.parseError === 'function') {\n    this.parseError = sharedState.yy.parseError;\n  } else {\n
this.parseError = Object.getPrototypeOf(this).parseError;\n  }\n  function popStack(n) {\n    stack.length =
stack.length - 2 * n;\n    vstack.length = vstack.length -
n;\n    lstack.length = lstack.length - n;\n  }\n  _token_stack:\n  function lex() {\n    var token;\n
token = lexer.lex() || EOF;\n    if (typeof token !== 'number') {\n      token = self.symbols_[token] ||
token;\n    }\n    return token;\n  }\n  var symbol, preErrorSymbol, state, action, a, r, yyval = {}, p,
len, newState, expected;\n  while (true) {\n    state = stack[stack.length - 1];\n    if (this.defaultActions[state])
{\n      action = this.defaultActions[state];\n    } else {\n      if (symbol === null || typeof symbol ==
'undefined') {\n        symbol = lex();\n      }\n      action = table[state] && table[state][symbol];\n    }\n
if (typeof action === 'undefined' || !action.length || !action[0]) {\n      var errStr = ";\n
expected = [];\n      for (p in table[state]) {\n        if (this.terminals_[p]
&& p > ERROR) {\n          expected.push("\\" + this.terminals_[p] + "\");\n        }\n      }\n
if (lexer.showPosition) {\n        errStr = 'Parse error on line ' + (yylineno + 1) + ':\\n' +
lexer.showPosition() + "\\nExpecting ' + expected.join(', ') + ', got \"" + (this.terminals_[symbol] || symbol) + "\";\n
      } else {\n        errStr = 'Parse error on line ' + (yylineno + 1) + ': Unexpected ' + (symbol === EOF ? 'end
of input' : "\"" + (this.terminals_[symbol] || symbol) + "\"");\n      }\n      this.parseError(errStr, {\n
text: lexer.match,\n        token: this.terminals_[symbol] || symbol,\n        line: lexer.yylineno,\n
loc: yyloc,\n        expected: expected\n      });\n    }\n    if (action[0] instanceof Array
&& action.length > 1) {\n      throw
new Error('Parse Error: multiple actions possible at state: ' + state + ', token: ' + symbol);\n    }\n    switch
(action[0]) {\n      case 1:\n        stack.push(symbol);\n        vstack.push(lexer.yytext);\n
lstack.push(lexer.yylloc);\n        stack.push(action[1]);\n        symbol = null;\n        if (!preErrorSymbol) {\n
          yyleng = lexer.yyleng;\n          yytext = lexer.yytext;\n          yylineno = lexer.yylineno;\n
yyloc = lexer.yylloc;\n          if (recovering > 0) {\n            recovering--;\n          }\n        } else {\n
          symbol = preErrorSymbol;\n          preErrorSymbol = null;\n        }\n        break;\n      case 2:\n
len = this.productions_[action[1]][1];\n        yyval.$ = vstack[vstack.length - len];\n        yyval._$ = {\n
first_line: lstack[lstack.length - (len || 1)].first_line,\n
last_line: lstack[lstack.length - 1].last_line,\n
first_column: lstack[lstack.length - (len ||
1)].first_column,\n
last_column: lstack[lstack.length - 1].last_column\n      };\n        if (ranges) {\n
          yyval._$.range = [\n            lstack[lstack.length - (len || 1)].range[0],\n            lstack[lstack.length -
1].range[1]\n          ];\n        }\n        r = this.performAction.apply(yyval, [\n          yytext,\n
yyleng,\n          yylineno,\n          sharedState.yy,\n          action[1],\n          vstack,\n          lstack\n
        ].concat(args));\n        if (typeof r !== 'undefined') {\n          return r;\n        }\n        if (len) {\n
          stack = stack.slice(0, -1 * len * 2);\n          vstack = vstack.slice(0, -1 * len);\n          lstack = lstack.slice(0,
-1 * len);\n        }\n        stack.push(this.productions_[action[1]][0]);\n        vstack.push(yyval.$);\n        lstack.push(yyval._$);\n
newState = table[stack[stack.length - 2]][stack[stack.length - 1]];
stack.push(newState);\n        break;\n      case 3:\n        return true;\n      }\n    }\n    return true;\n  };\n  /* generated by json-lex 0.3.4 */\nvar lexer =
(function() {\nvar lexer = ({\nEOF:1,\nparseError:function parseError(str, hash) {\n  if (this.yy.parser) {\n
this.yy.parser.parseError(str, hash);\n  } else {\n    throw new Error(str);\n  }\n},\n\n// resets the
lexer, sets new input\nsetInput:function (input, yy) {\n  this.yy = yy || this.yy || {};\n  this._input = input;\n
this._more = this._backtrack = this.done = false;\n  this.yylineno = this.yyleng = 0;\n  this.yytext =

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```

this.matched = this.match = ";\n    this.conditionStack = ['INITIAL'];\n    this.yylloc = {\n
    first_line: 1,\n    first_column: 0,\n    last_line: 1,\n    last_column: 0\n    };\n    if
(this.options.ranges) {\n    this.yylloc.range = [0,0];\n    }\n    this.offset = 0;\n    return this;\n    },\n\n//
consumes and returns one char from the input\ninput:function () {\n    var ch = this._input[0];\n    this.yytext +=
ch;\n    this.yyleng++;\n    this.offset++;\n    this.match += ch;\n    this.matched += ch;\n    var lines =
ch.match(/(?:\\r\\n?|\\n).*/g);\n    if (lines) {\n    this.yylineno++;;\n    this.yylloc.last_line++;;\n    }
else {\n    this.yylloc.last_column++;;\n    }\n    if (this.options.ranges) {\n    this.yylloc.range[1]++;;\n
    }\n\n    this._input = this._input.slice(1);\n    return ch;\n    },\n\n// unshifts one char (or a string) into the
input\nunput:function (ch) {\n    var len = ch.length;\n    var lines = ch.split(/(?:\\r\\n?|\\n)/g);\n\n
    this._input = ch + this._input;\n    this.yytext = this.yytext.substr(0, this.yytext.length - len);\n
//this.yyleng -= len;\n    this.offset -= len;\n    var oldLines = this.match.split(/(?:\\r\\n?|\\n)/g);\n    this.match
= this.match.substr(0, this.match.length - 1);\n    this.matched = this.matched.substr(0, this.matched.length -
1);\n\n    if (lines.length - 1) {\n    this.yylineno -= lines.length - 1;\n    }\n    var r =
this.yylloc.range;\n\n    this.yylloc = {\n    first_line: this.yylloc.first_line,\n    last_line: this.yylineno +
1,\n    first_column: this.yylloc.first_column,\n    last_column: lines ?\n    (lines.length ===
oldLines.length ? this.yylloc.first_column : 0)\n    + oldLines[oldLines.length - lines.length].length -
lines[0].length :\n    this.yylloc.first_column - len\n    };\n\n    if (this.options.ranges)
{\n    this.yylloc.range = [r[0], r[0] + this.yyleng - len];\n    }\n    this.yyleng = this.yytext.length;\n
return this;\n    },\n\n// When called from action, caches matched text and appends it on next action\nmore:function
() {\n    this._more = true;\n    return this;\n    },\n\n// When called from action, signals the lexer that this rule
fails to match the input, so the next matching rule (regex) should be tested instead.\nreject:function () {\n    if
(this.options.backtrack_lexer) {\n    this._backtrack = true;\n    } else {\n    return
this.parseError('Lexical error on line ' + (this.yylineno + 1) + '. You can only invoke reject() in the lexer when the
lexer is of the backtracking persuasion (options.backtrack_lexer = true).\\n' + this.showPosition(), {\n    text:
'"\n    token: null,\n    line: this.yylineno\n    });\n\n    }\n    return this;\n    },\n\n// retain
first n characters of the match\nless:function (n) {\n    this.unput(this.match.slice(n));\n    },\n\n// displays already
matched input, i.e. for error messages\npastInput:function () {\n    var past = this.matched.substr(0,
this.matched.length - this.match.length);\n    return (past.length > 20 ? '...:') + past.substr(-20).replace(/\\n/g,
'\\n');\n    },\n\n// displays upcoming input, i.e. for error messages\nupcomingInput:function () {\n    var next =
this.match;\n    if (next.length < 20) {\n    next += this._input.substr(0, 20-next.length);\n    }\n    return
(next.substr(0,20) + (next.length > 20 ? '...: ')).replace(/\\n/g, '\\n');\n    },\n\n// displays the character position where
the lexing error occurred, i.e. for error messages\nshowPosition:function () {\n    var pre = this.pastInput();\n
var c = new Array(pre.length + 1).join("-");\n    return pre + this.upcomingInput() + "\\n\\n" + c + "\\n^";\n
},\n\n// test the lexed
token: return FALSE when not a match, otherwise return token\ntest_match:function (match, indexed_rule) {\n
var token,\n    lines,\n    backup;\n\n    if (this.options.backtrack_lexer) {\n    // save context\n
backup = {\n    yylineno: this.yylineno,\n    yylloc: {\n    first_line: this.yylloc.first_line,\n
    last_line: this.last_line,\n    first_column: this.yylloc.first_column,\n    last_column:
this.yylloc.last_column\n    },\n    yytext: this.yytext,\n    match: this.match,\n
matches: this.matches,\n    matched: this.matched,\n    yyleng: this.yyleng,\n    offset:
this.offset,\n    _more: this._more,\n    _input: this._input,\n    yy: this.yy,\n
conditionStack: this.conditionStack.slice(0),\n    done:
this.done\n    };\n    if (this.options.ranges) {\n    backup.yylloc.range =
this.yylloc.range.slice(0);\n    }\n    }\n\n    lines = match[0].match(/(?:\\r\\n?|\\n).*/g);\n    if (lines) {\n
    this.yylineno += lines.length;\n    }\n    this.yylloc = {\n    first_line: this.yylloc.last_line,\n
last_line: this.yylineno + 1,\n    first_column: this.yylloc.last_column,\n    last_column: lines ?\n
lines[lines.length - 1].length - lines[lines.length - 1].match(/\\r?\\n?)/[0].length :\n
this.yylloc.last_column + match[0].length\n    };\n    this.yytext += match[0];\n    this.match += match[0];\n

```



```

\\xIf\\")*")/^(?:\\{}/^(?:\\})/^(?:\\[/^(?:\\])/^(?:,)/^(?::)/^(?:true\\b)/^(?:false\\b)/^(?:null\\b)/^(?:$)/^(?:
.)],\\nconditions: {\\\"INITIAL\\\":{\\\"rules\\\":[0,1,2,3,4,5,6,7,8,9,10,11,12,13],\\\"inclusive\\\":true}}\\n});\\nreturn
lexer;\\n})();\\nparser.lexer = lexer;\\nfunction Parser () {\\n  this.yy = {};\\n}\\n\\nParser.prototype = parser;parser.Parser
= Parser;\\nreturn new Parser;\\n})();\\n\\n\\nif (typeof require !== 'undefined' && typeof exports !== 'undefined')
{\\nexports.parser = parser;\\nexports.Parser = parser.Parser;\\nexports.parse = function () { return
parser.parse.apply(parser, arguments); };\\n}\\n\\n\",\\\"import ParsingError from './error/parsing_error';\\nimport jsonlint
from '@mapbox/jsonlint-lines-primitives';\\n\\nexport
default function readStyle(style) {\\n  if (style instanceof String || typeof style === 'string' || style instanceof Buffer)
{\\n    try {\\n      return jsonlint.parse(style.toString());\\n    } catch (e) {\\n      throw new
ParsingError(e);\\n    }\\n  }\\n  \\n  return style;\\n}\\n\\n\",\\\"import validateStyleMin from
'./validate_style.min';\\nimport {v8} from './style-spec';\\nimport readStyle from './read_style';\\n\\n/**\\n * Validate a
Mapbox GL style against the style specification.\\n *\\n * @private\\n * @alias validate\\n * @param
{Object|String|Buffer} style The style to be validated. If a `String`\\n *   or `Buffer` is provided, the returned errors
will contain line numbers.\\n * @param {Object} [styleSpec] The style specification to validate against.\\n *   If
omitted, the spec version is inferred from the stylesheet.\\n * @returns {Array<ValidationError|ParsingError>}\\n *
@example\\n * var validate = require('mapbox-gl-style-spec').validate;\\n
* var style = fs.readFileSync('./style.json', 'utf8');\\n * var errors = validate(style);\\n *\\n\\nexport default function
validateStyle(style, styleSpec = v8) {\\n  let s = style;\\n  try {\\n    s = readStyle(s);\\n  } catch (e) {\\n
return [e];\\n  }\\n  \\n  return validateStyleMin(s, styleSpec);\\n}\\n\\n\\nexport const source =
validateStyleMin.source;\\nexport const light = validateStyleMin.light;\\nexport const layer =
validateStyleMin.layer;\\nexport const filter = validateStyleMin.filter;\\nexport const paintProperty =
validateStyleMin.paintProperty;\\nexport const layoutProperty = validateStyleMin.layoutProperty;\\n\\n\",\\\"//
@flow\\n\\nimport validateStyle from './validate_style.min';\\nimport {v8} from './style-spec';\\nimport readStyle from
'./read_style';\\nimport ValidationError from './error/validation_error';\\nimport getType from
'./util/get_type';\\n\\nconst SUPPORTED_SPEC_VERSION = 8;\\nconst MAX_SOURCES_IN_STYLE =
15;\\nfunction isValid(value: ?string, regex:
RegExp): boolean {\\n  if (!value || getType(value) !== 'string') return true;\\n  return
!!value.match(regex);\\n}\\n\\nfunction getSourceCount(source: Object): number {\\n  if (source.url) {\\n    return
source.url.split(',').length;\\n  } else {\\n    return 0;\\n  }\\n}\\n\\nfunction getAllowedKeyErrors(obj: Object, keys:
Array<*>, path: ?string): Array<?ValidationError> {\\n  const allowed = new Set(keys);\\n  const errors = [];\\n
Object.keys(obj).forEach(k => {\\n    if (!allowed.has(k)) {\\n      const prop = path ? `_${path}.${k}` : null;\\n
      errors.push(new ValidationError(prop, obj[k], `Unsupported property \\`_${k}\\``));\\n    }\\n  });\\n  return
errors;\\n}\\n\\nfunction getSourceErrors(source: Object, i: number): Array<?ValidationError> {\\n  const errors =
[];\\n  \\n  /*\\n   * Inlined sources are not supported by the Mapbox Styles API, so only\\n   * `type`, `url`, and
`tileSize` properties are valid\\n   *\\n   const sourceKeys = ['type',
'url', 'tileSize'];\\n  errors.push(...getAllowedKeyErrors(source, sourceKeys, 'source'));\\n  \\n  /*\\n   * `source` is
required. Valid examples:\\n   * mapbox://mapbox.abcd1234\\n   * mapbox://penny.abcd1234\\n   *
mapbox://mapbox.abcd1234,penny.abcd1234\\n   *\\n   const sourceUrlPattern = /^mapbox:\\\\(\\\\[\\^\\*])$/;\\n  if
(!isValid(source.url, sourceUrlPattern)) {\\n    errors.push(new ValidationError(`sources[${i}]`, source.url, 'Source
url must be a valid Mapbox tileset url'));\\n  }\\n  \\n  return errors;\\n}\\n\\nfunction getSourcesErrors(sources: Object):
Array<?ValidationError> {\\n  const errors = [];\\n  let count = 0;\\n  \\n  Object.keys(sources).forEach((s: string, i:
number) => {\\n    const sourceErrors = getSourceErrors(sources[s], i);\\n    \\n    // If source has errors, skip
counting\\n    if (!sourceErrors.length) {\\n      count = count + getSourceCount(sources[s]);\\n    }\\n    \\n
errors.push(...sourceErrors);\\n  });\\n  \\n  if (count
> MAX_SOURCES_IN_STYLE) {\\n    errors.push(new ValidationError('sources', null, `Styles must contain
${MAX_SOURCES_IN_STYLE} or fewer sources`));\\n  }\\n  \\n  return errors;\\n}\\n\\nfunction getRootErrors(style:
Object, specKeys: Array<any>): Array<?ValidationError> {\\n  const errors = [];\\n  \\n  /*\\n   * The following keys
are optional but fully managed by the Mapbox Styles\\n   * API. Values on stylesheet on POST or PATCH will be

```



```

./expression';\nimport featureFilter from './feature_filter';\nimport convertFilter from
./feature_filter/convert';\nimport Color from './util/color';\nimport {createFunction, isFunction} from
./function';\nimport convertFunction from './function/convert';\nimport {eachSource, eachLayer, eachProperty}
from './visit';\n\nimport validate from './validate_style';\nimport
validateMapboxApiSupported from './validate_mapbox_api_supported';\n\nconst expression = {\n
StyleExpression,\n isExpression,\n createExpression,\n createPropertyExpression,\n
normalizePropertyExpression,\n ZoomConstantExpression,\n ZoomDependentExpression,\n
StylePropertyFunction\n};\n\nconst styleFunction = {\n convertFunction,\n createFunction,\n
isFunction\n};\n\nconst visit = {eachSource, eachLayer, eachProperty};\n\nexport {\n v8,\n latest,\n format,\n
migrate,\n composite,\n derefLayers,\n diff,\n ValidationError,\n ParsingError,\n expression,\n
featureFilter,\n convertFilter,\n Color,\n styleFunction as function,\n validate,\n
validateMapboxApiSupported,\n visit\n};\n\nvalidate.parsed = validate;\nvalidate.latest =
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0JA,AAAE,SAAS6f,0BAAT,CAAoCvuB,KAApC,EAA4E;IACvFc,IAAI4D,CAAA,GAAlIE,KAARc,CADuF;IAE vF,IAAI;QACA4D,CAAA,GAAlkoB,SAAA,CAAUloB,CAAV,CAAJ,CADA;KAAJ,CAEE,OAAOwK,CAAP,EA AU;QACR,OAAO,CAACA,CAAD,CAAP,CADQ;KAJ2E;IAQvFpO,IAAI4N,MAAA,GAASqe,gBAAA,CAAcroB ,CAAd,EAAiBsoB,EAAjB,EACRhoB,MADQ,CACD+oB,aAAA,CAAcrcB,CAAd,EAAiB5C,MAAA,CAAOC,IA AP,CAAYirB,EAAA,CAAG9sB,KAAf,CAAjB,CADC,CAABy,CAruF;IAWvF,IAAI4D,CAAA,CAAEnD,OAAN ,EAAe;QACXmN,MAAA,GAASA,MAAA,CAA0IJ,MAAP,CAAc4oB,gBAAA,CAAiB1pB,CAAA,CAAEnD,OA AnB,CAAd,CAAT,CADW;KAXwE;IAevF,OAAOmN,MAAP,CAfuF;;;ICzErF/I,YAAA,GAAa;qBACfwX,eADe;k BAEfS,YAFe;sBAGfC,gBAHe;8BAIfO,wBAJe;iCAKfS,2BALe;4BAMfb,sBANe;6BAOfG,uBAPe;2BAQfK,qBA Re;CAAnB7e,CAjFA;AA4FAA,IAAM6uB,aAAA,GAAgB;qBACiBnP,eADkB;oBAEiBnE,cAFkB;gBAGiBvY,Y AHkB;CAAtBhD,CA5FA;AAkGAA,IAAM8uB,KAAA,GAAQ;gBAACrtB,UAAD;eAAaI,SAAb;kBAAwBC,YA AxB;CAAd9B,CAIGA;AAoGA,AAoBAwoB,aAAA,CAASzc,MAAT,GAakByc,aAAlB,CAXHA;AAyHAA,aAAA ,CAASuG,MAAT,GAakBvG,aAAlB;;;"} }

Found

in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1050648890\_1591796810.08/0/mapbox-mapbox-gl-style-spec-13-12-0-tgz/package/dist/index.es.js.map

No license file was found, but licenses were detected in source scan.

```
{ "version": 3, "file": "index.js", "sources": [ "../../../../node_modules/json-stringify-pretty-compact/index.js", "../../../../format.js", "../../../../node_modules/url/node_modules/punycode/punycode.js", "../../../../node_modules/url/util.js", "../../../../node_modules/qsstring/decode.js", "../../../../node_modules/qsstring/encode.js", "../../../../node_modules/qsstring/index.js", "../../../../node_modules/url/url.js", "../../../../visit.js", "../../../../migrate/v8.js", "../../../../util/extend.js", "../../../../expression/parsing_error.js", "../../../../expression/scope.js", "../../../../expression/types.js", "../../../../node_modules/csscolorparser/csscolorparser.js", "../../../../util/color.js", "../../../../expression/types/collator.js", "../../../../expression/types/formatted.js", "../../../../expression/types/resolved_image.js", "../../../../expression/values.js", "../../../../expression/definitions/literal.js", "../../../../expression/runtime_error.js", "../../../../expression/definitions/assertion.js", "../../../../expression/definitions/format.js", "../../../../expression/definitions/image.js", "../../../../expression/definitions/coercion.js", "../../../../expression/evaluation_context.js", "../../../../expression/compound_expression.js", "../../../../expression/definitions/collator.js", "../../../../expression/is_constant.js", "../../../../expression/definitions/var.js", "../../../../expression/parsing_context.js", "../../../../expression/stops.js", "../../../../expression/definitions/step.js", "../../../../node_modules/@mapbox/unitbezier/index.js", "../../../../util/interpolate.js", "../../../../util/color_spaces.js", "../../../../expression/definitions/interpolate.js", "../../../../expression/definitions/coalesce.js", "../../../../expression/definitions/let.js", "../../../../expression/definitions/at.js", "../../../../expression/definitions/in.js", "../../../../expression/definitions/match.js", "../../../../expression/definitions/case.js", "../../../../expression/definitions/comparison.js", "../../../../expression/definitions/number_format.js", "../../../../expression/definitions/length.js", "../../../../expression/definitions/index.js", "../../../../util/result.js", "../../../../util/properties.js", "../../../../util/get_type.js", "../../../../function/index.js", "../../../../expression/index.js", "../../../../function/convert.js", "../../../../feature_filter/index.js", "../../../../feature_filter/convert.js", "../../../../migrate/expressions.js", "../../../../migrate.js", "../../../../composite.js", "../../../../util/ref_properties.js", "../../../../deref.js", "../../../../util/deep_equal.js", "../../../../diff.js", "../../../../error/validation_error.js", "../../../../error/parsing_error.js", "../../../../validate/validate_constants.js", "../../../../util/unbundle_jsonlint.js", "../../../../validate/validate_object.js", "../../../../validate/validate_array.js", "../../../../validate/validate_number.js", "../../../../validate/validate_function.js", "../../../../validate/validate_expression.js", "../../../../validate/validate_boolean.js", "../../../../validate/validate_color.js", "../../../../validate/validate_enum.js", "../../../../validate/validate_filter.js", "../../../../validate/validate_property.js", "../../../../validate/validate_paint_property.js", "../../../../validate/validate_layout_property.js", "../../../../validate/validate_layer.js", "../../../../validate/validate_string.js", "../../../../validate/validate_source.js", "../../../../validate/validate_light.js", "../../../../validate/validate_formatted.js", "../../../../validate/validate_image.js", "../../../../validate/validate.js", "../../../../validate/validate_glyphs_url.js", "../../../../validate_style.min.js", "../../../../node_modules/@mapbox/jsonlint-line-primitives/lib/jsonlint.js", "../../../../read_style.js", "../../../../validate_style.js", "../../../../validate_mapbox_api_supported.js", "../../../../style-spec.js"], "sourcesContent": ["" "use strict";\n\n// Note: This regex matches even invalid JSON strings, but since we're\n// working on the output of\n`JSON.stringify` we know that only valid strings\n// are present (unless the user supplied a weird `options.indent`
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but in\n// that case we don't care since the output would be invalid anyway).\nvar stringOrChar =
/(\\"(?:[^\\"\\\\]|\\\\.)*\\")[:.]/g;\n\nmodule.exports = function stringify(passedObj, options) {\n  var indent, maxLength,
replacer;\n\n  options = options || {};\n  indent = JSON.stringify(\n  [1],\n  undefined,\n  options.indent ===
undefined ? 2 : options.indent\n  ).slice(2, -3);\n  maxLength =\n  indent === \"\"\n  ? Infinity\n  :
options.maxLength === undefined\n  ? 80\n  : options.maxLength;\n  replacer = options.replacer;\n\n  return
(function _stringify(obj, currentIndent, reserved) {\n    // prettier-ignore\n    var end, index, items, key, keyPart,
keys, length, nextIndent, prettified, start, string, value;\n\n    if (obj && typeof obj.toJSON === \"function\") {\n
obj = obj.toJSON();\n    }\n\n    string = JSON.stringify(obj, replacer);\n\n    if (string === undefined) {\n      return
string;\n    }\n\n    length = maxLength - currentIndent.length - reserved;\n\n    if (string.length <= length) {\n
prettified = string.replace(stringOrChar, function(match, stringLiteral) {\n      return stringLiteral || match + \" \";\n
    });\n\n    if (prettified.length <= length) {\n      return prettified;\n    }\n\n    if (replacer != null) {\n      obj =
JSON.parse(string);\n      replacer = undefined;\n    }\n\n    if (typeof obj === \"object\" && obj != null) {\n
nextIndent = currentIndent + indent;\n    items = [];\n    index = 0;\n\n    if (Array.isArray(obj)) {\n      start =
\"[\";\n      end = \"]\";\n      length = obj.length;\n      for (; index < length; index++) {\n        items.push(\n
_stringify(obj[index], nextIndent, index === length - 1 ? 0 : 1) ||\n        \"null\"\n      );\n    } else {\n
start = \"{\";\n      end = \"}\";\n      keys = Object.keys(obj);\n      length = keys.length;\n      for (; index <
length; index++) {\n        key = keys[index];\n        keyPart = JSON.stringify(key) + \":\";\n        value =
_stringify(\n          obj[key],\n          nextIndent,\n          keyPart.length + (index === length - 1 ? 0 : 1)\n
);\n        if (value != undefined) {\n          items.push(keyPart + value);\n        }\n      }\n\n    if
(items.length > 0) {\n      return [start, indent + items.join(\",\n\" + nextIndent), end].join(\n        \"\n\" +
currentIndent\n      );\n    }\n\n    return string;\n  })(passedObj, \"\", 0);\n};\n\nimport
reference from './reference/latest.js';\nimport stringifyPretty from 'json-stringify-pretty-compact';\n\nfunction
sortKeysBy(obj, reference) {\n  const result = {};\n  for (const key in reference) {\n    if (obj[key] !=
undefined) {\n      result[key] = obj[key];\n    }\n  }\n  for (const key in obj) {\n    if (result[key] ===
undefined) {\n      result[key] = obj[key];\n    }\n  }\n  return result;\n}\n\n/**\n * Format a Mapbox GL
Style. Returns a stringified style with its keys\n * sorted in the same order as the reference style.\n * The
optional `space` argument is passed to\n * [JSON.stringify](https://developer.mozilla.org/en-
US/docs/Web/JavaScript/Reference/Global_Objects/JSON/stringify)\n * to generate formatted output.\n * If
`space` is unspecified, a default of `2` spaces will be used.\n * @private\n * @param {Object} style a Mapbox
GL Style\n * @param {number} [space] space argument to pass to `JSON.stringify`\n
* @returns {string} stringified formatted JSON\n * @example\n * var fs = require('fs');\n * var format =
require('mapbox-gl-style-spec').format;\n * var style = fs.readFileSync('./source.json', 'utf8');\n *
fs.writeFileSync('./dest.json', format(style));\n * fs.writeFileSync('./dest.min.json', format(style, 0));\n *\nfunction
format(style, space = 2) {\n  style = sortKeysBy(style, reference.$root);\n\n  if (style.layers) {\n    style.layers =
style.layers.map((layer) => sortKeysBy(layer, reference.layer));\n  }\n\n  return stringifyPretty(style, {indent:
space});\n}\n\nexport default format;\n\n\"/\"! https://mths.be/punycode v1.3.2 by @mathias *\n;(function(root)
{\n\n  /** Detect free variables */\n  var freeExports = typeof exports == 'object' && exports
&&\n  exports.nodeType && exports;\n  var freeModule = typeof module == 'object' && module
&&\n  module.nodeType && module;\n  var freeGlobal = typeof global == 'object' && global;\n  if
(\n  !freeGlobal\n  ||\n  !freeGlobal.window\n  === freeGlobal\n  ||\n  !freeGlobal.self\n  === freeGlobal\n  ) {\n    root =
freeGlobal;\n  }\n\n  /**\n   * The `punycode` object.\n   * @name punycode\n   * @type Object\n   */\n  var
punycode;\n\n  /**\n   * Highest positive signed 32-bit float value\n   */\n  var maxInt = 2147483647, // aka.
0x7FFFFFFF\n  ||\n  2^31-1\n  /**\n   * Bootstring parameters\n   */\n  var base = 36,\n      min = 1,\n      max = 26,\n      skew = 38,\n      damp =
700,\n      initialBias = 72,\n      initialN = 128, // 0x80\n      delimiter = '-', // '\x2D'\n      /**\n   * Regular expressions\n
   */\n  var regexPunycode = /^[xn-]/,\n      regexNonASCII = /[^\x20-\x7E]/, // unprintable ASCII chars + non-ASCII
chars\n      regexSeparators = /[\\x2E\\u3002\\uFF0E\\uFF61]/g, // RFC 3490 separators\n      /**\n   * Error messages\n
   */\n  var errors = {\n    overflow: 'Overflow: input needs wider integers to process',\n    not-basic: 'Illegal input >=

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0x80 (not a basic code point)',\n\t'invalid-input': 'Invalid input'\n\t},\n\t\n\t/\*\* Convenience shortcuts  
 \*\n\tbaseMinusTMin = base - tMin,\n\tffloor = Math.floor,\n\ttstringFromCharCode =  
 String.fromCharCode,\n\t\n\t/\*\* Temporary variable \*\n\ttkey;\n\t\n\t\*/-----  
 -----\*\n\t\n\t/\*\*\n\t \* A generic error utility function.\n\t \* @private\n\t \* @param {String} type The error  
 type.\n\t \* @returns {Error} Throws a `RangeError` with the applicable error message.\n\t \*/\n\tfunction error(type)  
 {\n\t\tthrow RangeError(errors[type]);\n\t}\n\t\n\t\n\t/\*\*\n\t \* A generic `Array#map` utility function.\n\t \* @private\n\t \* @param {Array} array The array to iterate over.\n\t \* @param {Function} callback The function that gets called for  
 every array\n\t \* item.\n\t \* @returns {Array} A new array of values returned by the callback function.\n\t \*/\n\tfunction map(array, fn) {\n\t\tlet length = array.length;\n\t\tlet result = [];\n\t\twhile (length--)\n\t\t\tresult[length] = fn(array[length]);\n\t\treturn result;\n\t}\n\t\n\t\n\t/\*\*\n\t \* A simple `Array#map`-like  
 wrapper to work with domain name strings or email\n\t \* addresses.\n\t \* @private\n\t \* @param {String} domain  
 The domain name or email address.\n\t \* @param {Function} callback The function that gets called for every\n\t \*  
 character.\n\t \* @returns {Array} A new string of characters returned by the callback\n\t \* function.\n\t \*/\n\tfunction mapDomain(string, fn) {\n\t\tlet parts = string.split('@');\n\t\tlet result = '';\n\t\tif (parts.length > 1)  
 {\n\t\t\t// In email addresses, only the domain name should be punycode'd. Leave\n\t\t\t// the local part (i.e.  
 everything up to `@`) intact.\n\t\t\tresult = parts[0] + '@';\n\t\t\tstring = parts[1];\n\t\t\t// Avoid `split(regex)` for  
 IE8 compatibility. See #17.\n\t\t\tstring = string.replace(regexpSeparators, '\\x2E');\n\t\t\tlet labels =  
 string.split('.');\n\t\t\tlet encoded = map(labels, fn).join('.');\n\t\t\treturn result + encoded;\n\t\t}\n\t\t\n\t\t\n\t\t/\*\*\n\t\t \* Creates an  
 array containing the numeric code points of each Unicode\n\t\t \* character  
 in the string. While JavaScript uses UCS-2 internally,\n\t\t \* this function will convert a pair of surrogate halves  
 (each of which\n\t\t \* UCS-2 exposes as separate characters) into a single code point,\n\t\t \* matching UTF-16.\n\t\t \*  
 @see `punycode.ucs2.encode`\n\t\t \* @see <<https://mathiasbynens.be/notes/javascript-encoding>>\n\t\t \* @memberOf  
 punycode.ucs2\n\t\t \* @name decode\n\t\t \* @param {String} string The Unicode input string (UCS-2).\n\t\t \* @returns  
 {Array} The new array of code points.\n\t\t \*/\n\t\tfunction ucs2decode(string) {\n\t\t\tlet output = [],\n\t\t\t\tcounter =  
 0,\n\t\t\t\tlength = string.length,\n\t\t\t\tvalue,\n\t\t\t\textra;\n\t\t\twhile (counter < length) {\n\t\t\t\tvalue =  
 string.charCodeAt(counter++);\n\t\t\t\tif (value >= 0xD800 && value <= 0xDBFF && counter < length) {\n\t\t\t\t\t//  
 high surrogate, and there is a next character\n\t\t\t\t\textra = string.charCodeAt(counter++);\n\t\t\t\t\tif ((extra &  
 0xFC00) == 0xDC00) { // low surrogate\n\t\t\t\t\t\toutput.push(((value & 0x3FF) << 10)  
 + (extra & 0x3FF) + 0x10000);\n\t\t\t\t\t} else {\n\t\t\t\t\t\t// unmatched surrogate; only append this code unit, in case  
 the next\n\t\t\t\t\t\t// code unit is the high surrogate of a surrogate pair\n\t\t\t\t\t\toutput.push(value);\n\t\t\t\t\t\tcounter--  
 ;\n\t\t\t\t\t}\n\t\t\t\t} else {\n\t\t\t\t\toutput.push(value);\n\t\t\t\t}\n\t\t\t}\n\t\t\treturn output;\n\t\t}\n\t\t\n\t\t\n\t\t/\*\*\n\t\t \* Creates a string  
 based on an array of numeric code points.\n\t\t \* @see `punycode.ucs2.decode`\n\t\t \* @memberOf punycode.ucs2\n\t\t \* @name encode\n\t\t \* @param {Array} codePoints The array of numeric code points.\n\t\t \* @returns {String} The  
 new Unicode string (UCS-2).\n\t\t \*/\n\t\tfunction ucs2encode(array) {\n\t\t\treturn map(array, function(value)  
 {\n\t\t\t\tlet output = '';\n\t\t\t\tif (value > 0xFFFF) {\n\t\t\t\t\tvalue -= 0x10000;\n\t\t\t\t\toutput +=  
 string.fromCharCode(value >>> 10 & 0x3FF | 0xD800);\n\t\t\t\t\tvalue = 0xDC00 | value &  
 0x3FF;\n\t\t\t\t}\n\t\t\t\toutput += string.fromCharCode(value);\n\t\t\t\treturn output;\n\t\t\t}).join('');\n\t\t}\n\t\t\n\t\t\n\t\t/\*\*\n\t\t \* Converts a basic code point into a digit/integer.\n\t\t \* @see `digitToBasic()`\n\t\t \* @private\n\t\t \* @param  
 {Number} codePoint The basic numeric code point value.\n\t\t \* @returns {Number} The numeric value of a basic  
 code point (for use in\n\t\t \* representing integers) in the range `0` to `base - 1`, or `base` if\n\t\t \* the code point does  
 not represent a value.\n\t\t \*/\n\t\tfunction basicToDigit(codePoint) {\n\t\t\tif (codePoint - 48 < 10) {\n\t\t\t\treturn  
 codePoint - 22;\n\t\t\t}\n\t\t\tif (codePoint - 65 < 26) {\n\t\t\t\treturn codePoint - 65;\n\t\t\t}\n\t\t\tif (codePoint - 97 < 26)  
 {\n\t\t\t\treturn codePoint - 97;\n\t\t\t}\n\t\t\treturn base;\n\t\t}\n\t\t\n\t\t\n\t\t/\*\*\n\t\t \* Converts a digit/integer into a basic code  
 point.\n\t\t \* @see `basicToDigit()`\n\t\t \* @private\n\t\t \* @param {Number} digit The numeric value of a basic code  
 point.\n\t\t \* @returns {Number} The basic code point whose value (when used for\n\t\t \* representing integers) is  
 `digit`, which needs to be in the range\n\t\t \* `0` to `base - 1`. If `flag` is  
 non-zero, the uppercase form is\n\t\t \* used; else, the lowercase form is used. The behavior is undefined\n\t\t \* if `flag`  
 is non-zero and `digit` has no uppercase form.\n\t\t \*/\n\t\tfunction digitToBasic(digit, flag) {\n\t\t\t// 0..25 map to





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NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE. If obj.hasOwnProperty has been overridden, then calling obj.hasOwnProperty(prop) will break. See:

<https://github.com/joyent/node/issues/1707>

```
function hasOwnProperty(obj, prop) {\n  return\n  Object.prototype.hasOwnProperty.call(obj, prop);\n}\n\nmodule.exports = function(qs, sep, eq, options) {\n  sep =\n  sep || '&';\n  eq = eq || '=';\n  var obj = {};\n  if (typeof qs !== 'string' || qs.length === 0) {\n    return obj;\n  }\n  var regexp = /^[+&g];\n  qs = qs.split(sep);\n  var maxKeys = 1000;\n  if (options && typeof options.maxKeys ===\n  'number') {\n    maxKeys = options.maxKeys;\n  }\n  var len = qs.length;\n  // maxKeys <= 0 means that we should\n  not limit keys
```

```
  count\n  if (maxKeys > 0 && len > maxKeys) {\n    len = maxKeys;\n  }\n  for (var i = 0; i < len; ++i) {\n    var x\n    = qs[i].replace(regexp, '%20'),\n    idx = x.indexOf(eq),\n    kstr, vstr, k, v;\n    if (idx >= 0) {\n      kstr =\n      x.substr(0, idx);\n      vstr = x.substr(idx + 1);\n    } else {\n      kstr = x;\n      vstr = ";\n    }\n    k =\n    decodeURIComponent(kstr);\n    v = decodeURIComponent(vstr);\n    if (!hasOwnProperty(obj, k)) {\n      obj[k]\n      = v;\n    } else if (Array.isArray(obj[k])) {\n      obj[k].push(v);\n    } else {\n      obj[k] = [obj[k], v];\n    }\n  }\n  return obj;\n};\n\n", "// Copyright Joyent, Inc. and other Node contributors.\n\nPermission is hereby granted, free of\n  charge, to any person obtaining a copy of this software and associated documentation files (the\n  "\Software"),\n  to deal in the Software without restriction, including\n  without limitation the rights to use, copy, modify, merge,\n  publish,\n  distribute, sublicense, and/or
```

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```
use strict;\n\nvar stringifyPrimitive =\nfunction(v) {\n  switch (typeof v) {\n    case 'string':\n      return v;\n    case 'boolean':\n      return v ? 'true':\n      'false';\n    case 'number':\n      return isFinite(v)
```

```
  ? v : ";\n    default:\n      return ";\n  }\n};\n\nmodule.exports = function(obj, sep, eq, name) {\n  sep = sep || '&';\n  eq = eq || '=';\n  if (obj === null) {\n    obj = undefined;\n  }\n  if (typeof obj === 'object') {\n    return\n    Object.keys(obj).map(function(k) {\n      var ks = encodeURIComponent(stringifyPrimitive(k)) + eq;\n      if\n      (Array.isArray(obj[k])) {\n        return obj[k].map(function(v) {\n          return ks +\n          encodeURIComponent(stringifyPrimitive(v));\n        }).join(sep);\n      } else {\n        return ks +\n        encodeURIComponent(stringifyPrimitive(obj[k]));\n      }\n    }).join(sep);\n  }\n  if (!name) return ";\n  return\n  encodeURIComponent(stringifyPrimitive(name)) + eq +\n  encodeURIComponent(stringifyPrimitive(obj));\n};\n\n", "use strict";\n\nexports.decode = exports.parse =\nrequire('./decode');\nexports.encode = exports.stringify = require('./encode');\n\n", "// Copyright Joyent, Inc. and other\n  Node contributors.\n\nPermission is hereby
```

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```

WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
'use strict';
var punycode = require('punycode');
var util = require('./util');
exports.parse = urlParse;
exports.resolve = urlResolve;
exports.resolveObject = urlResolveObject;
exports.format = urlFormat;
exports.Url = Url;
function Url() {
  this.protocol = null;
  this.slashes = null;
  this.auth = null;
  this.host = null;
  this.port = null;
  this.hostname = null;
  this.hash = null;
  this.search = null;
  this.query = null;
  this.pathname = null;
  this.path = null;
  this.href = null;
}
// Reference: RFC 3986, RFC 1808, RFC 2396
// define these here so at least they only have to be compiled once on the first module load.
protocolPattern = /^[a-z0-9.+-]+:/i,
portPattern = /^[0-9]*$/i,
// Special case for a simple path URL
simplePathPattern = /^(\\|\/|?|!|\\|)[^\\|?|s]*)(\\|?|s)*?$/i,
// RFC 2396: characters reserved for delimiting URLs.
// We actually just auto-escape these.
delims = ['<', '>', '"', "'", '\\r', '\\n', '\\t'],
// RFC 2396: characters not allowed for various reasons.
unwise = ['{', '}', '|', '\\\\', '^', '\\'].concat(delims),
// Allowed by RFCs, but cause of XSS attacks. Always escape these.
autoEscape = ['\\'].concat(unwise),
// Characters that are never ever allowed in a hostname.
// Note that any invalid chars are also handled, but these
// are the ones that are *expected* to be seen, so we fast-path them.
nonHostChars = ['%', '/', '?', ';', '#'].concat(autoEscape),
hostEndingChars = ['/', '?', '#'],
hostnameMaxLen = 255,
hostnamePartPattern = /^[+a-z0-9A-Z_-]{0,63}$/i,
hostnamePartStart = /^[+a-z0-9A-Z_-]{0,63}(.*)$/i,
// protocols that can allow "unsafe" and "unwise" chars.
unsafeProtocol = {
  'javascript': true,
},
// protocols that never have a hostname.
hostlessProtocol = {
  'javascript': true,
},
// protocols that always contain a bit.
slashedProtocol = {
  'http': true,
  'https': true,
  'ftp': true,
  'gopher': true,
  'file': true,
  'http:': true,
  'https:': true,
  'ftp:': true,
  'gopher:': true,
  'file:': true,
},
querystring = require('querystring');
function urlParse(url, parseQueryString, slashesDenoteHost) {
  if (url && util.isObject(url) && url instanceof Url) return url;
  var u = new Url;
  u.parse(url, parseQueryString, slashesDenoteHost);
  return u;
}
Url.prototype.parse = function(url, parseQueryString, slashesDenoteHost) {
  if (!util.isString(url)) throw new TypeError("Parameter 'url' must be a string, not " + typeof url);
  // Copy chrome, IE, opera backslash-handling behavior. Back slashes before the query string get converted to forward slashes.
  See: https://code.google.com/p/chromium/issues/detail?id=25916
  var queryIndex = url.indexOf('?'),
      splitter =
        (queryIndex !== -1 && queryIndex < url.indexOf('#')) ? '?' : '#',
      uSplit = url.split(splitter),
      slashRegex = /\\/g;
  uSplit[0] = uSplit[0].replace(slashRegex, '/');
  url = uSplit.join(splitter);
  var rest = url;
  // trim before proceeding. This is to support parse stuff like " http://foo.com \n"
  rest = rest.trim();
  if (!slashesDenoteHost && url.split('#').length === 1) {
    // Try fast path regexp
    var simplePath = simplePathPattern.exec(rest);
    if (simplePath) {
      this.path = rest;
      this.href = rest;
      this.pathname = simplePath[1];
      if (simplePath[2]) {
        this.search = simplePath[2];
        if (parseQueryString) {
          this.query = querystring.parse(this.search.substr(1));
        } else {
          this.query = this.search.substr(1);
        }
      } else {
        this.query = {};
      }
      return this;
    }
  }
  var proto = protocolPattern.exec(rest);
  if (proto) {
    proto = proto[0];
    var lowerProto = proto.toLowerCase();
    this.protocol = lowerProto;
    rest = rest.substr(proto.length);
  }
  // figure out if it's got a host

```



```

// escaped, even if encodeURIComponent doesn't think they need to be.
for (var i = 0, l = autoEscape.length; i < l; i++) {
    var ae = autoEscape[i];
    if (rest.indexOf(ae) === -1) continue;
    var esc = encodeURIComponent(ae);
    if (esc === ae) {
        esc = escape(ae);
    }
    rest = rest.split(ae).join(esc);
}
// chop off from the tail first.
var hash = rest.indexOf('#');
if (hash !== -1) {
    // got a fragment string.
    this.hash = rest.substr(hash);
    rest = rest.slice(0, hash);
}
var qm = rest.indexOf('?');
if (qm !== -1) {
    this.search = rest.substr(qm);
    this.query = rest.substr(qm + 1);
    if (parseQueryString) {
        this.query = querystring.parse(this.query);
    }
    rest = rest.slice(0, qm);
} else if (parseQueryString) {
    // no query string, but parseQueryString still requested
    this.search = "";
    this.query = {};
}
if (rest) this.pathname = rest;
if (slashedProtocol[lowerProto] && this.hostname && !this.pathname) {
    this.pathname = '/';
}
//to support http.request
if (this.pathname || this.search) {
    var p = this.pathname || "";
    var s = this.search || "";
    this.path = p + s;
}
// finally, reconstruct the href based on what has been validated.
this.href = this.format();
return this;
}
// format a parsed object into a url string
function urlFormat(obj) {
    // ensure it's an object, and not a string url.
    // If it's an obj, this is a no-op.
    // this way, you can call url_format() on strings
    // to clean up potentially wonky urls.
    if (util.isString(obj)) obj = urlParse(obj);
    if (!(obj instanceof Url)) return Url.prototype.format.call(obj);
    return obj.format();
}
Url.prototype.format = function() {
    var auth = this.auth || "";
    if (auth) {
        auth = encodeURIComponent(auth);
        auth = auth.replace(/%3A/i, ':');
        auth += '@';
    }
    var protocol = this.protocol || "",
        pathname = this.pathname || "",
        hash = this.hash || "",
        host = false,
        query = "";
    if (this.host) {
        host = auth + this.host;
    } else if (this.hostname) {
        host = auth + (this.hostname.indexOf(':') === -1 ? '[' + this.hostname + ']') :
            (this.port ? host += ':' + this.port;);
    }
    if (this.query && util.isObject(this.query) && Object.keys(this.query).length) {
        query = querystring.stringify(this.query);
    }
    var search = this.search || (query && ('?' + query)) || "";
    if (protocol && protocol.substr(-1) !== ':') protocol += ':';
    // only the slashedProtocols get the //. Not mailto:, xmpp:, etc.
    // unless they had them to begin with.
    if (this.slashes || (!protocol || slashedProtocol[protocol]) && host !== false) {
        host = '/' + (host || "");
        if (pathname && pathname.charAt(0) !== '/') pathname = '/' + pathname;
    } else if (!host) {
        host = "";
    }
    if (hash && hash.charAt(0) !== '#') hash = '#' + hash;
    if (search && search.charAt(0) !== '?') search = '?' + search;
    pathname = pathname.replace(/[?#]/g, function(match) {
        return encodeURIComponent(match);
    });
    search = search.replace('#', '%23');
    return protocol + host + pathname + search + hash;
}
function urlResolve(source, relative) {
    return urlParse(source, false, true).resolve(relative);
}
Url.prototype.resolve = function(relative) {
    return this.resolveObject(urlParse(relative, false, true)).format();
}
function urlResolveObject(source, relative) {
    if (!source) return relative;
    return urlParse(source, false, true).resolveObject(relative);
}
Url.prototype.resolveObject = function(relative) {
    if (util.isString(relative)) {
        var rel = new Url();
        rel.parse(relative, false, true);
        relative = rel;
    }
    var result = new Url();
    var tkeys = Object.keys(this);
    for (var tk = 0; tk < tkeys.length; tk++) {
        var key = tkeys[tk];
        result[key] = this[key];
    }
    // hash is always overridden, no matter what.
    // even href="" will remove it.
    result.hash = relative.hash;
    // if the relative url is empty, then there's nothing left to do here.
    if (relative.href === "") {
        result.href = result.format();
    }
    return result;
}
// hrefs like //foo/bar always cut to the protocol.
if (relative.slashes && !relative.protocol) {
    // take everything except the protocol from relative
    var rkeys = Object.keys(relative);
    for (var rk = 0; rk < rkeys.length; rk++) {
        var rkey = rkeys[rk];
        if (rkey !== 'protocol') result[rkey] = relative[rkey];
    }
    //urlParse appends trailing / to urls like http://www.example.com
    if (slashedProtocol[result.protocol] && !result.hostname && !result.pathname) {
        result.path = result.pathname = '/';
    }
    result.href = result.format();
    return result;
}
if (relative.protocol && relative.protocol !== result.protocol) {
    // if it's a known url protocol, then changing
    // the protocol does weird things
    // first, if it's not file:, then we MUST have a

```

```

host,\n // and if there was a path\n // to begin with, then we MUST have a path.\n // if it is file:, then the host is
dropped,\n // because that's known to be hostless.\n // anything else is assumed to be absolute.\n if
(!slashedProtocol[relative.protocol]) {\n var keys = Object.keys(relative);\n for (var v = 0; v < keys.length;
v++) {\n var k = keys[v];\n result[k] = relative[k];\n }\n result.href = result.format();\n return
result;\n }\n result.protocol = relative.protocol;\n if (!relative.host && !hostlessProtocol[relative.protocol])
{\n var relPath = (relative.pathname || "").split('/');\n while (relPath.length && !(relative.host =
relPath.shift()));\n if (!relative.host) relative.host = ";\n if (!relative.hostname) relative.hostname = ";\n if
(relPath[0] !== "") relPath.unshift("");\n if (relPath.length < 2) relPath.unshift("");\n result.pathname =
relPath.join('/');\n } else
{\n result.pathname = relative.pathname;\n }\n result.search = relative.search;\n result.query =
relative.query;\n result.host = relative.host || ";\n result.auth = relative.auth;\n result.hostname =
relative.hostname || relative.host;\n result.port = relative.port;\n // to support http.request\n if (result.pathname ||
result.search) {\n var p = result.pathname || ";\n var s = result.search || ";\n result.path = p + s;\n }\n
result.slashes = result.slashes || relative.slashes;\n result.href = result.format();\n return result;\n }\n\n var
isSourceAbs = (result.pathname && result.pathname.charAt(0) === '/'),\n isRelAbs = (\n relative.host ||\n
relative.pathname && relative.pathname.charAt(0) === '/'\n ),\n mustEndAbs = (isRelAbs || isSourceAbs
||\n (result.host && relative.pathname)),\n removeAllDots = mustEndAbs,\n srcPath =
result.pathname && result.pathname.split('/')
|| [],\n relPath = relative.pathname && relative.pathname.split('/') || [],\n psychotic = result.protocol &&
!slashedProtocol[result.protocol];\n\n // if the url is a non-slashed url, then relative\n // links like ../. should be
able\n // to crawl up to the hostname, as well. This is strange.\n // result.protocol has already been set by now.\n //
Later on, put the first path part into the host field.\n if (psychotic) {\n result.hostname = ";\n result.port = null;\n
if (result.host) {\n if (srcPath[0] === "") srcPath[0] = result.host;\n else srcPath.unshift(result.host);\n }\n
result.host = ";\n if (relative.protocol) {\n relative.hostname = null;\n relative.port = null;\n if
(relative.host) {\n if (relPath[0] === "") relPath[0] = relative.host;\n else relPath.unshift(relative.host);\n
}\n relative.host = null;\n }\n mustEndAbs = mustEndAbs && (relPath[0] === "" || srcPath[0] === "");\n
}\n\n if (isRelAbs) {\n // it's absolute.\n result.host = (relative.host || relative.host === "") ?\n
relative.host : result.host;\n result.hostname = (relative.hostname || relative.hostname === "") ?\n
relative.hostname : result.hostname;\n result.search = relative.search;\n result.query = relative.query;\n srcPath
= relPath;\n // fall through to the dot-handling below.\n } else if (relPath.length) {\n // it's relative\n // throw
away the existing file, and take the new path instead.\n if (!srcPath) srcPath = [];\n srcPath.pop();\n srcPath =
srcPath.concat(relPath);\n result.search = relative.search;\n result.query = relative.query;\n } else if
(!util.isNullOrUndefined(relative.search)) {\n // just pull out the search.\n // like href=?foo'.\n // Put this after
the other two cases because it simplifies the booleans\n if (psychotic) {\n result.hostname = result.host =
srcPath.shift();\n\n //occasionally the auth can get stuck only in host\n //this especially happens in cases like\n
//url.resolveObject('mailto:local1@domain1', 'local2@domain2')\n var authInHost = result.host &&
result.host.indexOf('@') > 0 ?\n result.host.split('@') : false;\n if (authInHost) {\n result.auth =
authInHost.shift();\n result.host = result.hostname = authInHost.shift();\n }\n }\n result.search =
relative.search;\n result.query = relative.query;\n //to support http.request\n if (!util.isNull(result.pathname) ||
!util.isNull(result.search)) {\n result.path = (result.pathname ? result.pathname : "") +\n (result.search ?
result.search : "");\n }\n result.href = result.format();\n return result;\n }\n\n if (!srcPath.length) {\n // no path
at all. easy.\n // we've already handled the other stuff above.\n result.pathname = null;\n //to support
http.request\n if (result.search)
{\n result.path = '/' + result.search;\n } else {\n result.path = null;\n }\n result.href = result.format();\n
return result;\n }\n\n // if a url ENDS in . or .., then it must get a trailing slash.\n // however, if it ends in anything
else non-slasy,\n // then it must NOT get a trailing slash.\n var last = srcPath.slice(-1)[0];\n var hasTrailingSlash
= (\n (result.host || relative.host || srcPath.length > 1) &&\n (last === '.' || last === '..') || last === "");\n\n // strip

```



```

=== 'string' && value[0] === '@') {\n    return resolveConstant(style, style.constants[value]);\n  } else {\n
return value;\n  }\n}\n\nfunction isFunction(value) {\n  return Array.isArray(value.stops);\n}\n\nfunction
renameProperty(obj, from, to) {\n  obj[to] = obj[from]; delete obj[from];\n}\n\n\nexport default function(style) {\n
style.version = 8;\n\n  // Rename properties, reverse coordinates in source and layers\n  eachSource(style, (source)
=> {\n    if (source.type === 'video' && source.url !== undefined) {\n      renameProperty(source, 'url',
'urls');\n    }\n    if (source.type === 'video') {\n      source.coordinates.forEach((coord) => {\n
return coord.reverse();\n      });\n    }\n  });\n\n  eachLayer(style, (layer) => {\n    eachLayout(layer,
(layout) => {\n      if (layout['symbol-min-distance'] !== undefined) {\n        renameProperty(layout,
'symbol-min-distance', 'symbol-spacing');\n
      }\n    });\n\n    eachPaint(layer, (paint) => {\n      if (paint['background-image'] !== undefined) {\n
renameProperty(paint, 'background-image', 'background-pattern');\n      }\n      if (paint['line-image']
!== undefined) {\n        renameProperty(paint, 'line-image', 'line-pattern');\n      }\n      if (paint['fill-
image'] !== undefined) {\n        renameProperty(paint, 'fill-image', 'fill-pattern');\n      }\n    });\n  });\n\n  // Inline Constants\n  eachProperty(style, {paint: true, layout: true}, (property) => {\n    const value =
resolveConstant(style, property.value);\n    if (isFunction(value)) {\n      value.stops.forEach((stop) => {\n
stop[1] = resolveConstant(style, stop[1]);\n      });\n    }\n    property.set(value);\n  });\n  delete
style.constants;\n\n  eachLayer(style, (layer) => {\n    // get rid of text-max-size,
icon-max-size\n    // turn text-size, icon-size into layout properties\n    // https://github.com/mapbox/mapbox-
gl-style-spec/issues/255\n    eachLayout(layer, (layout) => {\n      delete layout['text-max-size'];\n
delete layout['icon-max-size'];\n    });\n\n    eachPaint(layer, (paint) => {\n      if (paint['text-size']) {\n
if (!layer.layout) layer.layout = {};\n      layer.layout['text-size'] = paint['text-size'];\n      delete
paint['text-size'];\n    }\n\n      if (paint['icon-size']) {\n        if (!layer.layout) layer.layout = {};\n
layer.layout['icon-size'] = paint['icon-size'];\n        delete paint['icon-size'];\n      }\n    });\n  });\n\n
function migrateFontstackURL(input) {\n  const inputParsed = URL.parse(input);\n  const
inputPathnameParts = inputParsed.pathname.split('/');\n  if (inputParsed.protocol !==
'mapbox:') {\n    return input;\n  } else if (inputParsed.hostname === 'fontstack') {\n
assert(decodeURI(inputParsed.pathname) === '/{fontstack}/{range}.pbf');\n    return
'mapbox://fonts/mapbox/{fontstack}/{range}.pbf';\n  } else if (inputParsed.hostname === 'fonts') {\n
assert(inputPathnameParts[1] === 'v1');\n    assert(decodeURI(inputPathnameParts[3]) === '{fontstack}');\n
assert(decodeURI(inputPathnameParts[4]) === '{range}.pbf');\n    return
`mapbox://fonts/${inputPathnameParts[2]}/{fontstack}/{range}.pbf`; \n  } else {\n    assert(false);\n  }
}\n\n  function assert(predicate) {\n    if (!predicate) {\n      throw new Error(`Invalid font url:
"${input}"`);\n    }\n  }\n\n  if (style.glyphs) {\n    style.glyphs =
migrateFontstackURL(style.glyphs);\n  }\n\n  function migrateFontStack(font) {\n    function
splitAndTrim(string) {\n      return string.split(',').map((s) => {\n        return s.trim();\n      });\n    }\n\n    if
(Array.isArray(font)) {\n      // Assume it's a previously migrated font-array.\n      return font;\n    } else
if (typeof font === 'string') {\n      return splitAndTrim(font);\n    } else if (typeof font === 'object') {\n
font.stops.forEach((stop) => {\n      stop[1] = splitAndTrim(stop[1]);\n    });\n    return font;\n  }
else {\n    throw new Error("unexpected font value");\n  }\n}\n\n  eachLayer(style, (layer) => {\n
eachLayout(layer, (layout) => {\n    if (layout['text-font']) {\n      layout['text-font'] =
migrateFontStack(layout['text-font']);\n    }\n  });\n}\n\n  // Reverse order of symbol layers. This is an
imperfect migration.\n  //\n  // The order of a symbol layer in the layers list affects two things:\n
  // - how it is drawn relative to other layers (like oneway arrows below bridges)\n  // - the placement priority
compared to other layers\n  //\n  // It's impossible to reverse the placement priority without breaking the draw
order\n  // in some cases. This migration only reverses the order of symbol layers that\n  // are above all other
types of layers.\n  //\n  // Symbol layers that are at the top of the map preserve their priority.\n  // Symbol layers
that are below another type (line, fill) of layer preserve their draw order.\n\n  let firstSymbolLayer = 0;\n  for (let i

```



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http://www.w3.org/TR/css3-color/nvar kCSSColorTable = {\n  \"transparent\": [0,0,0,0], \"aliceblue\": [240,248,255,1],\n  \"antiquewhite\": [250,235,215,1], \"aqua\": [0,255,255,1],\n  \"aquamarine\": [127,255,212,1], \"azure\": [240,255,255,1],\n  \"beige\": [245,245,220,1], \"bisque\": [255,228,196,1],\n  \"black\": [0,0,0,1], \"blanchedalmond\": [255,235,205,1],\n  \"blue\": [0,0,255,1], \"blueviolet\": [138,43,226,1],\n  \"brown\": [165,42,42,1], \"burlywood\": [222,184,135,1],\n  \"cadetblue\": [95,158,160,1], \"chartreuse\": [127,255,0,1],\n  \"chocolate\": [210,105,30,1], \"coral\": [255,127,80,1],\n  \"cornflowerblue\": [100,149,237,1], \"cornsilk\": [255,248,220,1],\n  \"crimson\": [220,20,60,1], \"cyan\": [0,255,255,1],\n  \"darkblue\": [0,0,139,1], \"darkcyan\": [0,139,139,1],\n  \"darkgoldenrod\": [184,134,11,1], \"darkgray\": [169,169,169,1],\n  \"darkgreen\": [0,100,0,1], \"darkgrey\": [169,169,169,1],\n  \"darkkhaki\": [189,183,107,1], \"darkmagenta\": [139,0,139,1],\n  \"darkolivegreen\": [85,107,47,1], \"darkorange\": [255,140,0,1],\n  \"darkorchid\": [153,50,204,1], \"darkred\": [139,0,0,1],\n  \"darksalmon\": [233,150,122,1], \"darkseagreen\": [143,188,143,1],\n  \"darkslateblue\": [72,61,139,1], \"darkslategray\": [47,79,79,1],\n  \"darkslategrey\": [47,79,79,1], \"darkturquoise\": [0,206,209,1],\n  \"darkviolet\": [148,0,211,1], \"deeppink\": [255,20,147,1],\n  \"deepskyblue\": [0,191,255,1], \"dimgray\": [105,105,105,1],\n  \"dimgrey\": [105,105,105,1], \"dodgerblue\": [30,144,255,1],\n  \"firebrick\": [178,34,34,1], \"floralwhite\": [255,250,240,1],\n  \"forestgreen\": [34,139,34,1], \"fuchsia\": [255,0,255,1],\n  \"gainsboro\": [220,220,220,1], \"ghostwhite\": [248,248,255,1],\n  \"gold\": [255,215,0,1], \"goldenrod\": [218,165,32,1],\n  \"gray\": [128,128,128,1], \"green\": [0,128,0,1],\n  \"greenyellow\": [173,255,47,1], \"grey\": [128,128,128,1],\n  \"honeydew\": [240,255,240,1], \"hotpink\": [255,105,180,1],\n  \"indianred\": [205,92,92,1], \"indigo\": [75,0,130,1],\n  \"ivory\": [255,255,240,1], \"khaki\": [240,230,140,1],\n  \"lavender\": [230,230,250,1], \"lavenderblush\": [255,240,245,1],\n  \"lawngreen\": [124,252,0,1], \"lemonchiffon\": [255,250,205,1],\n  \"lightblue\": [173,216,230,1], \"lightcoral\": [240,128,128,1],\n  \"lightcyan\": [224,255,255,1], \"lightgoldenrodyellow\": [250,250,210,1],\n  \"lightgray\": [211,211,211,1], \"lightgreen\": [144,238,144,1],\n  \"lightgrey\": [211,211,211,1], \"lightpink\": [255,182,193,1],\n  \"lightsalmon\": [255,160,122,1], \"lightseagreen\": [32,178,170,1],\n  \"lightskyblue\": [135,206,250,1], \"lightslategray\": [119,136,153,1],\n  \"lightslategrey\": [119,136,153,1], \"lightsteelblue\": [176,196,222,1],\n  \"lightyellow\": [255,255,224,1], \"lime\": [0,255,0,1],\n  \"limegreen\": [50,205,50,1], \"linen\": [250,240,230,1],\n  \"magenta\": [255,0,255,1], \"maroon\": [128,0,0,1],\n  \"mediumaquamarine\": [102,205,170,1], \"mediumblue\": [0,0,205,1],\n  \"mediumorchid\": [186,85,211,1], \"mediumpurple\": [147,112,219,1],\n  \"mediumseagreen\": [60,179,113,1], \"mediumslateblue\": [123,104,238,1],\n  \"mediumspringgreen\": [0,250,154,1], \"mediumturquoise\": [72,209,204,1],\n  \"mediumvioletred\": [199,21,133,1], \"midnightblue\": [25,25,112,1],\n  \"mintcream\": [245,255,250,1], \"mistyrose\": [255,228,225,1],\n  \"moccasin\": [255,228,181,1], \"navajowhite\": [255,222,173,1],\n  \"navy\": [0,0,128,1], \"oldlace\": [253,245,230,1],\n  \"olive\": [128,128,0,1], \"olivedrab\": [107,142,35,1],\n  \"orange\": [255,165,0,1], \"orangered\": [255,69,0,1],\n  \"orchid\": [218,112,214,1], \"palegoldenrod\": [238,232,170,1],\n  \"palegreen\": [152,251,152,1], \"paleturquoise\": [175,238,238,1],\n  \"palevioletred\": [219,112,147,1], \"papayawhip\": [255,239,213,1],\n  \"peachpuff\": [255,218,185,1], \"peru\": [205,133,63,1],\n  \"pink\": [255,192,203,1], \"plum\": [221,160,221,1],\n  \"powderblue\": [176,224,230,1], \"purple\": [128,0,128,1],\n  \"rebeccapurple\": [102,51,153,1],\n  \"red\": [255,0,0,1], \"rosybrown\":
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[188,143,143,1],\n \"royalblue\": [65,105,225,1], \"saddlebrown\": [139,69,19,1],\n \"salmon\": [250,128,114,1],
\"sandybrown\": [244,164,96,1],\n \"seagreen\": [46,139,87,1], \"seashell\": [255,245,238,1],\n \"sienna\":
[160,82,45,1], \"silver\": [192,192,192,1],\n \"skyblue\": [135,206,235,1], \"slateblue\": [106,90,205,1],\n
\"slategray\": [112,128,144,1], \"slategrey\": [112,128,144,1],\n \"snow\": [255,250,250,1], \"springgreen\":
[0,255,127,1],\n \"steelblue\": [70,130,180,1], \"tan\": [210,180,140,1],\n \"teal\": [0,128,128,1], \"thistle\":
[216,191,216,1],\n \"tomato\": [255,99,71,1], \"turquoise\": [64,224,208,1],\n \"violet\": [238,130,238,1], \"wheat\":
[245,222,179,1],\n \"white\": [255,255,255,1], \"whitesmoke\": [245,245,245,1],\n \"yellow\": [255,255,0,1],
\"yellowgreen\": [154,205,50,1]}\n\nfunction clamp_css_byte(i) { // Clamp to integer 0 .. 255.\n i = Math.round(i);
// Seems to be what Chrome does (vs truncation).\n return i < 0 ? 0 : i > 255 ? 255 : i;\n}\n\nfunction
clamp_css_float(f) { // Clamp to float 0.0 .. 1.0.\n return f < 0 ? 0 : f > 1 ? 1 : f;\n}\n\nfunction
parse_css_int(str) { // int or percentage.\n if (str[str.length - 1] === '%')\n return clamp_css_byte(parseFloat(str) /
100 * 255);\n return clamp_css_byte(parseInt(str));\n}\n\nfunction parse_css_float(str) { // float or percentage.\n if
(str[str.length - 1] === '%')\n return clamp_css_float(parseFloat(str) / 100);\n return
clamp_css_float(parseFloat(str));\n}\n\nfunction css_hue_to_rgb(m1, m2, h) {\n if (h < 0) h += 1;\n else if (h > 1)
h -= 1;\n if (h * 6 < 1) return m1 + (m2 - m1) * h * 6;\n if (h * 2 < 1) return m2;\n if (h * 3 < 2) return m1 + (m2
- m1) * (2/3 - h) * 6;\n return m1;\n}\n\nfunction parseCSSColor(css_str) {\n // Remove all whitespace, not
compliant, but should just be more accepting.\n var str = css_str.replace(/g, '').toLowerCase();\n // Color
keywords (and transparent) lookup.\n if (str in kCSSColorTable) return kCSSColorTable[str].slice(); // dup.\n\n //
#abc and #abc123 syntax.\n if (str[0] === '#') {\n if (str.length
=== 4) {\n var iv = parseInt(str.substr(1), 16); // TODO(deanm): Stricter parsing.\n if (!(iv >= 0 && iv <=
0xffff)) return null; // Covers NaN.\n return [(iv & 0xf0) >> 4] | ((iv & 0xf0) >> 8),\n (iv & 0xf0) | ((iv
& 0xf0) >> 4),\n (iv & 0xf) | ((iv & 0xf) << 4),\n 1];\n } else if (str.length === 7) {\n var iv =
parseInt(str.substr(1), 16); // TODO(deanm): Stricter parsing.\n if (!(iv >= 0 && iv <= 0xfffffff)) return null; //
Covers NaN.\n return [(iv & 0xff0000) >> 16,\n (iv & 0xff00) >> 8,\n iv & 0xff,\n 1];\n }\n\n return null;\n }\n\n var op = str.indexOf('('), ep = str.indexOf('');\n if (op !== -1 && ep + 1 === str.length)
{\n var fname = str.substr(0, op);\n var params = str.substr(op+1, ep-(op+1)).split(',');\n var alpha = 1; // To
allow case fallthrough.\n switch (fname) {\n case 'rgba':\n if (params.length !== 4) return
null;\n alpha = parse_css_float(params.pop());\n // Fall through.\n case 'rgb':\n if (params.length !==
3) return null;\n return [parse_css_int(params[0]),\n parse_css_int(params[1]),\n
parse_css_int(params[2]),\n alpha];\n case 'hsla':\n if (params.length !== 4) return null;\n alpha
= parse_css_float(params.pop());\n // Fall through.\n case 'hsl':\n if (params.length !== 3) return null;\n
var h = (((parseFloat(params[0]) % 360) + 360) % 360) / 360; // 0 .. 1\n // NOTE(deanm): According to the
CSS spec s/l should only be\n // percentages, but we don't bother and let float or percentage.\n var s =
parse_css_float(params[1]);\n var l = parse_css_float(params[2]);\n var m2 = 1 <= 0.5 ? 1 * (s + 1) : 1 + s - 1
* s;\n var m1 = 1 * 2 - m2;\n return [clamp_css_byte(css_hue_to_rgb(m1, m2, h+1/3) * 255),\n
clamp_css_byte(css_hue_to_rgb(m1,
m2, h) * 255),\n clamp_css_byte(css_hue_to_rgb(m1, m2, h-1/3) * 255),\n alpha];\n
default:\n return null;\n }\n }\n\n return null;\n }\n\ntry { exports.parseCSSColor = parseCSSColor } catch(e)
{ }\n\n/**\n * @flow\n\nimport {parseCSSColor} from 'csscolorparser';\n\n/**\n * An RGBA color value. Create
instances from color strings using the static\n * method `Color.parse`. The constructor accepts RGB channel values
in the range\n * `[0, 1]`, premultiplied by A.\n * @param {number} r The red channel.\n * @param {number} g
The green channel.\n * @param {number} b The blue channel.\n * @param {number} a The alpha channel.\n *
@private\n */\n\nclass Color {\n r: number;\n g: number;\n b: number;\n a: number;\n\n constructor(r:
number, g: number, b: number, a: number = 1) {\n this.r = r;\n this.g = g;\n this.b = b;\n this.a =
a;\n }\n\n static black: Color;\n static
white: Color;\n static transparent: Color;\n static red: Color;\n\n /**\n * Parses valid CSS color strings and
returns a `Color` instance.\n * @returns A `Color` instance, or `undefined` if the input is not a valid color string.\n
*/\n static parse(input?: string | Color | null): Color | void {\n if (!input) {\n return undefined;\n

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}\n\n    if (input instanceof Color) {\n        return input;\n    }\n\n    if (typeof input !== 'string') {\n        return undefined;\n    }\n\n    const rgba = parseCSSColor(input);\n    if (!rgba) {\n        return undefined;\n    }\n\n    return new Color(\n        rgba[0] / 255 * rgba[3],\n        rgba[1] / 255 * rgba[3],\n        rgba[2] / 255 * rgba[3],\n        rgba[3]\n    );\n}\n\n/**\n * Returns an RGBA string representing the color value.\n * @returns An RGBA string.\n * @example\n * var purple = new Color.parse('purple');\n * purple.toString(); // = \"rgba(128,0,128,1)\"\n * var translucentGreen = new Color.parse('rgba(26, 207, 26, .73)');\n * translucentGreen.toString(); // = \"rgba(26,207,26,0.73)\"\n * ^\n toString(): string {\n    const [r, g, b, a] = this.toArray();\n    return `rgba(${Math.round(r)},${Math.round(g)},${Math.round(b)},${a})`;\n}\n\ntoArray(): [number, number, number, number] {\n    const {r, g, b, a} = this;\n    return a === 0 ? [0, 0, 0, 0] : [r * 255 / a, g * 255 / a, b * 255 / a, a];\n}\n}\n\nColor.black = new Color(0, 0, 0, 1);\nColor.white = new Color(1, 1, 1, 1);\nColor.transparent = new Color(0, 0, 0, 0);\nColor.red = new Color(1, 0, 0, 1);\n\nexport default Color;\n", "// @flow\n\n// Flow type declarations for Intl cribbed from\n// https://github.com/facebook/flow/issues/1270\n\ndeclare var Intl: {\n    Collator:\n        Class<Intl$Collator>};\n\n\n    declare\n        class Intl$Collator {\n            constructor (\n                locales?: string | string[],\n                options?: CollatorOptions\n            ):\n                Intl$Collator;\n\n            static (\n                locales?: string | string[],\n                options?: CollatorOptions\n            ): Intl$Collator;\n\n            compare (a: string, b: string): number;\n\n            resolvedOptions(): any;\n\n            type CollatorOptions = {\n                localeMatcher?: 'lookup' | 'best fit',\n                usage?: 'sort' | 'search',\n                sensitivity?: 'base' | 'accent' | 'case' | 'variant',\n                ignorePunctuation?: boolean,\n                numeric?: boolean,\n                caseFirst?: 'upper' | 'lower' | 'false'\n            }\n\n            export default\n                class Collator {\n                    locale: string | null;\n                    sensitivity: 'base' | 'accent' | 'case' | 'variant';\n                    collator:\n                        Intl$Collator;\n\n                    constructor(caseSensitive: boolean, diacriticSensitive: boolean, locale: string | null) {\n                        if (caseSensitive)\n                            this.sensitivity = diacriticSensitive ? 'variant' : 'case';\n                        else\n                            this.sensitivity = diacriticSensitive\n                                ? 'accent' : 'base';\n\n                        this.locale = locale;\n                        this.collator = new Intl.Collator(this.locale ? this.locale : [],\n                            {sensitivity: this.sensitivity, usage: 'search'});\n                    }\n\n                    compare(lhs: string, rhs: string): number {\n                        return this.collator.compare(lhs, rhs);\n                    }\n\n                    resolvedLocale(): string {\n                        // We create a Collator without \"usage: search\" because we don't want\n                        // the search options encoded in our result (e.g. \"en-u-co-search\")\n                        return new Intl.Collator(this.locale ? this.locale : [])\n                            .resolvedOptions().locale;\n                    }\n                }\n\n            @flow\n            import type Color from './../util/color';\n            import type ResolvedImage from './types/resolved_image';\n\n            export class FormattedSection {\n                text: string;\n                image: ResolvedImage | null;\n                scale: number | null;\n                fontStack: string | null;\n                textColor: Color | null;\n\n                constructor(text: string, image: ResolvedImage | null, scale: number | null, fontStack: string | null, textColor: Color | null) {\n                    this.text = text;\n                    this.image = image;\n                    this.scale = scale;\n                    this.fontStack = fontStack;\n                    this.textColor = textColor;\n                }\n\n                export default class Formatted {\n                    sections: Array<FormattedSection>;\n\n                    constructor(sections: Array<FormattedSection>) {\n                        this.sections = sections;\n                    }\n\n                    static fromString(unformatted: string): Formatted {\n                        return new Formatted([new FormattedSection(unformatted, null, null, null, null)];\n                    }\n\n                    isEmpty(): boolean {\n                        if (this.sections.length === 0) return true;\n                        return !this.sections.some(section => section.text.length !== 0 ||\n                            (section.image && section.image.name.length !== 0));\n                    }\n\n                    static factory(text: Formatted | string): Formatted {\n                        if (text instanceof Formatted) {\n                            return text;\n                        } else {\n                            return Formatted.fromString(text);\n                        }\n                    }\n\n                    toString(): string {\n                        if (this.sections.length === 0) return \"\";\n                        return this.sections.map(section => section.text).join(\"\");\n                    }\n\n                    serialize(): Array<mixed> {\n                        const serialized: Array<mixed> = [\"format\"];

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color\"] = ([\"rgba\"]: Array<mixed>).concat(section.textColor.toArray());\n    }\n    serialized.push(options);\n\n    }\n    return serialized;\n  }\n}\n\"\", \"// @flow\n\nexport type ResolvedImageOptions = {\n  name: string,\n  available: boolean\n};\n\nexport default class ResolvedImage {\n  name: string;\n  available: boolean;\n\n  constructor(options: ResolvedImageOptions) {\n    this.name = options.name;\n    this.available =\n    options.available;\n  }\n\n  toString(): string {\n    return this.name;\n  }\n\n  static fromString(name: string):\n  ResolvedImage {\n    return new ResolvedImage({name, available: false});\n  }\n\n  serialize(): Array<string>\n  {\n    return [\"image\", this.name];\n  }\n}\n\"\", \"// @flow\n\nimport assert from 'assert';\nimport Color from\n'./util/color';\nimport Collator from './types/collator';\nimport Formatted from './types/formatted';\nimport\nResolvedImage from './types/resolved_image';\nimport {NullType, NumberType, StringType, BooleanType,\nColorType, ObjectType, ValueType, CollatorType, FormattedType,\nResolvedImageType, array} from './types';\n\nimport type {Type} from './types';\n\nexport function\nvalidateRGBA(r: mixed, g: mixed, b: mixed, a?: mixed): string | null {\n  if (!(typeof r === 'number' && r\n>= 0 && r <= 255 &&\n    typeof g === 'number' && g >= 0 && g <= 255 &&\n    typeof b === 'number' &&\nb >= 0 && b <= 255\n  )) {\n    const value = typeof a === 'number' ? [r, g, b, a] : [r, g, b];\n    return `Invalid\nrgba value [${value.join(', ')}]: 'r', 'g', and 'b' must be between 0 and 255.`;\n  }\n\n  if (!(typeof a ===\n'undefined' || (typeof a === 'number' && a >= 0 && a <= 1)\n  )) {\n    return `Invalid rgba value [${[r, g, b,\na].join(', ')}]: 'a' must be between 0 and 1.`;\n  }\n\n  return null;\n}\n\nexport type Value = null | string | boolean |\nnumber | Color | Collator | Formatted | ResolvedImage | $ReadOnlyArray<Value> | {+[string]: Value}\n\nexport\nfunction isValue(mixed: mixed): boolean {\n  if (mixed\n=== null) {\n    return true;\n  } else if (typeof mixed === 'string') {\n    return true;\n  } else if (typeof\nmixed === 'boolean') {\n    return true;\n  } else if (typeof mixed === 'number') {\n    return true;\n  } else if\n(mixed instanceof Color) {\n    return true;\n  } else if (mixed instanceof Collator) {\n    return true;\n  } else\nif (mixed instanceof Formatted) {\n    return true;\n  } else if (mixed instanceof ResolvedImage) {\n    return\ntrue;\n  } else if (Array.isArray(mixed)) {\n    for (const item of mixed) {\n      if (!isValue(item)) {\n        return\nfalse;\n      }\n    }\n    return true;\n  } else if (typeof mixed === 'object') {\n    for (const key in\nmixed) {\n      if (!isValue(mixed[key])) {\n        return false;\n      }\n    }\n    return true;\n  } else\n{\n    return false;\n  }\n}\n\nexport function typeOf(value: Value): Type {\n\n  if (value === null) {\n    return NullType;\n  } else if (typeof value === 'string') {\n    return StringType;\n  }\n  else if (typeof value === 'boolean') {\n    return BooleanType;\n  } else if (typeof value === 'number') {\n\n    return NumberType;\n  } else if (value instanceof Color) {\n    return ColorType;\n  } else if (value instanceof\nCollator) {\n    return CollatorType;\n  } else if (value instanceof Formatted) {\n    return FormattedType;\n  }\n  else if (value instanceof ResolvedImage) {\n    return ResolvedImageType;\n  } else if (Array.isArray(value))\n{\n    const length = value.length;\n    let itemType: Type | typeof undefined;\n\n    for (const item of value)\n{\n      const t = typeOf(item);\n      if (!itemType) {\n        itemType = t;\n      } else if (itemType\n=== t) {\n        continue;\n      } else {\n        itemType = ValueType;\n        break;\n      }\n    }\n\n    return array(itemType || ValueType, length);\n  } else {\n    assert(typeof value ===\n'object');\n    return ObjectType;\n  }\n}\n\nexport function toString(value: Value) {\n  const type = typeof\nvalue;\n  if (value === null) {\n    return \"\";\n  } else if (type === 'string' || type === 'number' || type ===\n'boolean') {\n    return String(value);\n  } else if (value instanceof Color || value instanceof Formatted || value\ninstanceof ResolvedImage) {\n    return value.toString();\n  } else {\n    return JSON.stringify(value);\n  }\n}\n\nexport {Color, Collator};\n\"\", \"// @flow\n\nimport assert from 'assert';\nimport {isValue, typeOf, Color}\nfrom './values';\nimport Formatted from './types/formatted';\nimport type {Type} from './types';\nimport type\n{Value} from './values';\nimport type {Expression} from './expression';\nimport type ParsingContext from\n'./parsing_context';\n\nclass Literal implements Expression {\n  type: Type;\n  value: Value;\n\n  constructor(type: Type, value: Value) {\n    this.type = type;\n    this.value = value;\n  }\n\n  static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n    if\n(args.length !== 2)\n    return context.error(`literal` expression requires exactly one argument, but found

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    ${args.length - 1} instead.`);
    if (!isValue(args[1])) return context.error(`invalid value`);
    const value = (args[1]: any); let type = typeOf(value); // special case: infer the item type if possible
    for zero-length arrays
    const expected = context.expectedType; if (type.kind === 'array' && type.N === 0 && expected && expected.kind === 'array' && (typeof expected.N !== 'number' || expected.N === 0)) { type = expected; } return new Literal(type, value);
  }
  evaluate() { return this.value; }
  eachChild() {}
  possibleOutputs() { return [this.value]; }
  serialize(): Array<mixed> { if (this.type.kind === 'array' || this.type.kind === 'object') { return ["literal", this.value]; } else if (this.value instanceof Color) { // Constant-folding can generate Literal expressions that you // couldn't actually generate with a "literal" expression, // so we have to implement an equivalent serialization here return ["rgba"].concat(this.value.toArray()); } else if (this.value instanceof Formatted) { // Same as Color return this.value.serialize(); } else { assert(this.value === null || typeof this.value === 'string' || typeof this.value === 'number' || typeof this.value === 'boolean'); return (this.value: any); } }
}
export default Literal;
""" @flow
class RuntimeError {
  name: string;
  message: string;
  constructor(message: string) {
    this.name = 'ExpressionEvaluationError';
    this.message = message;
  }
  toJSON() { return this.message; }
}
export default RuntimeError;
""" @flow
import assert from 'assert';
import { ObjectType, ValueType, StringType, NumberType, BooleanType, checkSubtype, toString, array } from './types';
import RuntimeError from './runtime_error';
import { typeOf } from './values';
import type { Expression } from './expression';
import type ParsingContext from './parsing_context';
import type EvaluationContext from './evaluation_context';
import type { Value } from './values';
import type { Type } from './types';
const types = {
  string: StringType,
  number: NumberType,
  boolean: BooleanType,
  object: ObjectType
};
class Assertion implements Expression {
  type: Type;
  args: Array<Expression>;
  constructor(type: Type, args: Array<Expression>) {
    this.type = type;
    this.args = args;
  }
  static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {
    if (args.length < 2) return context.error(`Expected at least one argument.`);
    let i = 1; let type; const name: string = (args[0]: any);
    if (name === 'array') {
      let itemType;
      if (args.length > 2) {
        const type = args[1];
        if (typeof type !== 'string' || !(type in types) || type === 'object') return context.error("The item type argument of \"array\" must be one of string, number, boolean", 1);
        itemType = types[type];
        i++;
      } else {
        itemType = ValueType;
      }
      let N;
      if (args.length > 3) {
        if (args[2] !== null && (typeof args[2] !== 'number' || args[2] < 0 || args[2] !== Math.floor(args[2]))) return context.error("The length argument to \"array\" must be a positive integer literal", 2);
        N = args[2];
        i++;
      }
      type = array(itemType, N);
    } else {
      assert(types[name], name);
      type = types[name];
    }
    const parsed = [];
    for (; i < args.length; i++) {
      const input = context.parse(args[i], i, ValueType);
      if (!input) return null;
      parsed.push(input);
    }
    return new Assertion(type, parsed);
  }
  evaluate(ctx: EvaluationContext) {
    for (let i = 0; i < this.args.length; i++) {
      const value = this.args[i].evaluate(ctx);
      const error = checkSubtype(this.type, typeOf(value));
      if (!error) return value;
    }
    if (i === this.args.length - 1) throw new RuntimeError(`Expected value to be of type ${toString(this.type)}, but found ${toString(typeOf(value))} instead.`);
    assert(false);
    return null;
  }
  eachChild(fn: (Expression) => void) {
    this.args.forEach(fn);
  }
  possibleOutputs(): Array<Value | void> {
    return [].concat(...this.args.map((arg) => arg.possibleOutputs()));
  }
  serialize(): Array<mixed> {
    const type = this.type;
    const serialized = [type.kind];
    if (type.kind === 'array') {
      const itemType = type.itemType;
      if (itemType.kind === 'string' || itemType.kind === 'number' || itemType.kind === 'boolean') {

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serialized.push(itemType.kind);\n
    const N = type.N;\n        if (typeof N === 'number' || this.args.length > 1) {\n
serialized.push(N);\n        }\n        }\n        }\n        return serialized.concat(this.args.map(arg =>\n
arg.serialize()));\n    }\n}\n\nexport default Assertion;\n", "// @flow\n\nimport { NumberType, ValueType,\nFormattedType, array, StringType, ColorType, ResolvedImageType } from './types';\nimport Formatted,\n{ FormattedSection } from './types/formatted';\nimport { toString, typeOf } from './values';\nimport type\n{ Expression } from './expression';\nimport type EvaluationContext from './evaluation_context';\nimport type\nParsingContext from './parsing_context';\nimport type { Type } from './types';\n\ntype FormattedSectionExpression\n= {\n    // Content of a section may be Image expression or other\n    // type of expression that is coercable to\n    'string'\n    content: Expression,\n    scale: Expression | null;\n    font: Expression\n    | null;\n    textColor: Expression | null;\n}\n\nexport default class FormatExpression implements Expression {\n    type: Type;\n    sections: Array<FormattedSectionExpression>;\n\n    constructor(sections:\nArray<FormattedSectionExpression>) {\n        this.type = FormattedType;\n        this.sections = sections;\n    }\n\n    static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n        if (args.length < 2) {\n            return context.error(`Expected at least one argument.`);\n        }\n        const firstArg = args[1];\n        if\n(!Array.isArray(firstArg) && typeof firstArg === 'object') {\n            return context.error(`First argument must be\nan image or text section.`);\n        }\n        const sections: Array<FormattedSectionExpression> = [];\n        let\nnextTokenMaybeObject = false;\n        for (let i = 1; i <= args.length - 1; ++i) {\n            const arg = (args[i]:\nany);\n            if (nextTokenMaybeObject && typeOf arg === \"object\"\n&& !Array.isArray(arg)) {\n                nextTokenMaybeObject = false;\n                let scale = null;\n                if\n(arg['font-scale']) {\n                    scale = context.parse(arg['font-scale'], 1, NumberType);\n                    if (!scale)\nreturn null;\n                }\n                let font = null;\n                if (arg['text-font']) {\n                    font =\ncontext.parse(arg['text-font'], 1, array(StringType));\n                    if (!font) return null;\n                }\n                let\ntextColor = null;\n                if (arg['text-color']) {\n                    textColor = context.parse(arg['text-color'], 1,\nColorType);\n                    if (!textColor) return null;\n                }\n                const lastExpression =\nsections[sections.length - 1];\n                lastExpression.scale = scale;\n                lastExpression.font = font;\n                lastExpression.textColor = textColor;\n            } else\n{\n                const content = context.parse(args[i], 1, ValueType);\n                if (!content) return null;\n                const kind = content.type.kind;\n                if (kind !== 'string' && kind !== 'value' && kind !== 'null' && kind !==\n'resolvedImage')\n                    return context.error(`Formatted text type must be 'string', 'value', 'image' or\n'null'.`);\n                nextTokenMaybeObject = true;\n                sections.push({content, scale: null, font: null,\ntextColor: null});\n            }\n        }\n        return new FormatExpression(sections);\n    }\n\n    evaluate(ctx:\nEvaluationContext) {\n        const evaluateSection = section => {\n            const evaluatedContent =\nsection.content.evaluate(ctx);\n            if (typeOf(evaluatedContent) === ResolvedImageType) {\n                return\nnew FormattedSection(\"\", evaluatedContent, null, null, null);\n            }\n            return new FormattedSection(\n                toString(evaluatedContent),\n                null,\n                section.scale ? section.scale.evaluate(ctx) : null,\n                section.font ?\nsection.font.evaluate(ctx).join(',') : null,\n                section.textColor ? section.textColor.evaluate(ctx) : null\n            );\n        };\n        return new Formatted(this.sections.map(evaluateSection));\n    }\n\n    eachChild(fn:\n(Expression) => void) {\n        for (const section of this.sections) {\n            fn(section.content);\n            if\n(section.scale) {\n                fn(section.scale);\n            }\n            if (section.font) {\n                fn(section.font);\n            }\n            if (section.textColor) {\n                fn(section.textColor);\n            }\n        }\n    }\n\n    possibleOutputs() {\n        // Technically the combinatoric set of all children\n        // Usually, this.text will be\n        undefined anyway\n        return [undefined];\n    }\n\n    serialize() {\n        const serialized = [\"format\"];\n        for (const section of this.sections) {\n            serialized.push(section.content.serialize());\n            const options = {};\n            if (section.scale) {\n                options['font-scale'] = section.scale.serialize();\n            }\n            if (section.font) {\n                options['text-font'] =\nsection.font.serialize();\n            }\n            if (section.textColor) {\n                options['text-color'] =\n

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section.textColor.serialize();\n        }\n        serialized.push(options);\n    }\n    return serialized;\n}\n}\n", "// @flow\n\nimport { ResolvedImageType, StringType } from './types';\nimport ResolvedImage from './types/resolved_image';\nimport type { Expression } from './expression';\nimport type EvaluationContext from './evaluation_context';\nimport type ParsingContext from './parsing_context';\nimport type { Type } from './types';\n\nexport default class ImageExpression implements Expression {\n    type: Type;\n    input: Expression;\n\n    constructor(input: Expression) {\n        this.type = ResolvedImageType;\n        this.input = input;\n    }\n\n    static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n        if (args.length !== 2) {\n            return context.error(`Expected two arguments.`);\n        }\n\n        const name = context.parse(args[1], 1, StringType);\n        if (!name) return context.error(`No image name provided.`);\n\n        return new ImageExpression(name);\n    }\n\n    evaluate(ctx: EvaluationContext) {\n        const evaluatedImageName = this.input.evaluate(ctx);\n        let available = false;\n\n        if (ctx.availableImages && ctx.availableImages.indexOf(evaluatedImageName) > -1) {\n            available = true;\n        }\n\n        return new ResolvedImage({ name: evaluatedImageName, available });\n    }\n\n    eachChild(fn: (Expression) => void) {\n        fn(this.input);\n    }\n\n    possibleOutputs()\n    {\n        // The output of image is determined by the list of available images in the evaluation context\n        return [undefined];\n    }\n\n    serialize()\n    {\n        return ["image", this.input.serialize()];\n    }\n}\n", "// @flow\n\nimport assert from 'assert';\nimport { BooleanType, ColorType, NumberType, StringType, ValueType } from './types';\nimport { Color, toString as valueToString, validateRGBA } from './values';\nimport RuntimeError from './runtime_error';\nimport Formatted from './types/formatted';\nimport FormatExpression from './definitions/format';\nimport ImageExpression from './definitions/image';\nimport ResolvedImage from './types/resolved_image';\nimport type { Expression } from './expression';\nimport type ParsingContext from './parsing_context';\nimport type EvaluationContext from './evaluation_context';\nimport type { Value } from './values';\nimport type { Type } from './types';\n\nconst types = {\n    'to-boolean': BooleanType,\n    'to-color': ColorType,\n    'to-number': NumberType,\n    'to-string': StringType\n};\n\n/**\n * Special form for error-coalescing coercion expressions \"to-number\", \"to-color\". Since these coercions can fail at runtime, they accept multiple arguments, only evaluating one at a time until one succeeds.\n */\n\n@private\nclass Coercion implements Expression {\n    type: Type;\n    args: Array<Expression>;\n\n    constructor(type: Type, args: Array<Expression>) {\n        this.type = type;\n        this.args = args;\n    }\n\n    static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n        if (args.length < 2)\n            return context.error(`Expected at least one argument.`);\n\n        const name: string = (args[0]: any);\n        assert(types[name], name);\n        if ((name === 'to-boolean' || name === 'to-string') && args.length !== 2)\n            return context.error(`Expected one argument.`);\n\n        const type = types[name];\n\n        const parsed = [];\n        for (let i = 1; i < args.length; i++) {\n            const input = context.parse(args[i], i, ValueType);\n            if (!input) return null;\n            parsed.push(input);\n        }\n\n        return new Coercion(type, parsed);\n    }\n\n    evaluate(ctx: EvaluationContext) {\n        if (this.type.kind === 'boolean') {\n            return Boolean(this.args[0].evaluate(ctx));\n        } else if (this.type.kind === 'color') {\n            let input;\n            let error;\n\n            for (const arg of this.args) {\n                input = arg.evaluate(ctx);\n                error = null;\n\n                if (input instanceof Color) {\n                    return input;\n                } else if (typeof input === 'string') {\n                    const c = ctx.parseColor(input);\n                    if (c) return c;\n                } else if (Array.isArray(input)) {\n                    if (input.length < 3 || input.length > 4) {\n                        error = `Invalid rgba value ${JSON.stringify(input)}: expected an array containing either three or four numeric values.`;\n                    } else {\n                        error = validateRGBA(input[0], input[1], input[2], input[3]);\n                    }\n\n                    if (!error) {\n                        return new Color((input[0]: any) / 255, (input[1]: any) / 255, (input[2]: any) / 255, (input[3]: any));\n                    }\n\n                    throw new RuntimeError(error || `Could not parse color from value '${typeof input === 'string' ? input : String(JSON.stringify(input))}'`);\n                } else if (this.type.kind === 'number') {\n                    let value = null;\n\n                    for (const arg of this.args) {\n                        value = arg.evaluate(ctx);\n                        if (value === null) return 0;\n                        const num = Number(value);\n                        if (isNaN(num)) continue;\n                        return num;\n                    }\n                }\n            }\n        }\n    }\n}

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    throw new RuntimeError(`Could not convert ${JSON.stringify(value)} to number.`);\n    } else if (this.type.kind
=== 'formatted') {\n        // There is no explicit 'to-formatted' but this coercion can be implicitly\n        // created
by properties that expect the 'formatted' type.\n        return
Formatted.fromString(valueToString(this.args[0].evaluate(ctx));\n    } else if (this.type.kind ===
'resolvedImage') {\n        return ResolvedImage.fromString(valueToString(this.args[0].evaluate(ctx));\n    }
else {\n        return valueToString(this.args[0].evaluate(ctx));\n    }\n}\n\n eachChild(fn: (Expression) =>
void) {\n    this.args.forEach(fn);\n}\n\n possibleOutputs(): Array<Value | void> {\n    return
[].concat(...this.args.map((arg) => arg.possibleOutputs()));\n}\n\n serialize() {\n    if (this.type.kind ===
'formatted') {\n        return new FormatExpression({content: this.args[0], scale: null, font: null,
textColor: null}).serialize();\n    }\n\n    if (this.type.kind === 'resolvedImage') {\n        return new
ImageExpression(this.args[0]).serialize();\n    }\n\n    const serialized = [ `to-${this.type.kind}` ];\n
this.eachChild(child => { serialized.push(child.serialize()); });\n    return serialized;\n}\n}\n\nexport default
Coercion;\n", "\n @flow\n\nimport { Color } from './values';\nimport type { FormattedSection } from
'./types/formatted';\nimport type { GlobalProperties, Feature, FeatureState } from './index';\n\nconst geometryTypes =
['Unknown', 'Point', 'LineString', 'Polygon'];\n\nclass EvaluationContext {\n    globals: GlobalProperties;\n    feature:
?Feature;\n    featureState: ?FeatureState;\n    formattedSection: ?FormattedSection;\n    availableImages:
?Array<string>;\n\n    _parseColorCache: {[string]: ?Color};\n\n    constructor() {\n        this.globals = (null: any);\n
        this.feature = null;\n        this.featureState = null;\n\n        this.formattedSection = null;\n        this._parseColorCache = {};\n        this.availableImages = null;\n    }\n\n    id()
{\n        return this.feature && 'id' in this.feature ? this.feature.id : null;\n    }\n\n    geometryType() {\n        return
this.feature ? typeof this.feature.type === 'number' ? geometryTypes[this.feature.type] : this.feature.type : null;\n
    }\n\n    properties() {\n        return this.feature && this.feature.properties || {};\n    }\n\n    parseColor(input: string):
?Color {\n        let cached = this._parseColorCache[input];\n        if (!cached) {\n            cached =
this._parseColorCache[input] = Color.parse(input);\n        }\n        return cached;\n    }\n}\n\nexport default
EvaluationContext;\n", "\n @flow\n\nimport { toString } from './types';\nimport ParsingContext from
'./parsing_context';\nimport EvaluationContext from './evaluation_context';\nimport assert from 'assert';\nimport
type { Expression, ExpressionRegistry } from './expression';\nimport
type { Type } from './types';\nimport type { Value } from './values';\n\nexport type Varargs = { | type: Type |};\nntype
Signature = Array<Type> | Varargs;\nntype Evaluate = (EvaluationContext, Array<Expression>) => Value;\nntype
Definition = [Type, Signature, Evaluate] |\n    { | type: Type, overloads: Array<[Signature, Evaluate]> |};\n\nclass
CompoundExpression implements Expression {\n    name: string;\n    type: Type;\n    _evaluate: Evaluate;\n    args:
Array<Expression>;\n\n    static definitions: { [string]: Definition };\n\n    constructor(name: string, type: Type,
evaluate: Evaluate, args: Array<Expression>) {\n        this.name = name;\n        this.type = type;\n        this._evaluate
= evaluate;\n        this.args = args;\n    }\n\n    evaluate(ctx: EvaluationContext) {\n        return this._evaluate(ctx,
this.args);\n    }\n\n    eachChild(fn: (Expression) => void) {\n        this.args.forEach(fn);\n    }\n\n    possibleOutputs() {\n        return [undefined];\n    }\n\n    serialize():
Array<mixed> {\n        return [this.name].concat(this.args.map(arg => arg.serialize()));\n    }\n\n    static parse(args:
$ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n        const op: string = (args[0]: any);\n
        const definition = CompoundExpression.definitions[op];\n        if (!definition) {\n            return
context.error(`Unknown expression \"${op}\". If you wanted a literal array, use [\"literal\", [...]].`, 0);\n        }\n\n        // Now check argument types against each signature\n        const type = Array.isArray(definition) ?\n        definition[0] : definition.type;\n\n        const availableOverloads = Array.isArray(definition) ?\n        [[definition[1], definition[2]]] :\n        definition.overloads;\n\n        const overloads =
availableOverloads.filter(([signature]) => (\n            !Array.isArray(signature) || // varargs\n            signature.length
=== args.length - 1 // correct param count\n        ));\n\n        let
signatureContext: ParsingContext = (null: any);\n        for (const [params, evaluate] of overloads) {\n            // Use
a fresh context for each attempted signature so that, if\n            // we eventually succeed, we haven't polluted
`context.errors`.\n            signatureContext = new ParsingContext(context.registry, context.path, null,

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context.scope);\n        // First parse all the args, potentially coercing to the\n        // types expected by this
overload.\n        const parsedArgs: Array<Expression> = [];\n        let argParseFailed = false;\n        for (let i
= 1; i < args.length; i++) {\n            const arg = args[i];\n            const expectedType = Array.isArray(params)
?\n            params[i - 1] :\n            params.type;\n            const parsed = signatureContext.parse(arg, 1
+ parsedArgs.length, expectedType);\n            if (!parsed) {\n                argParseFailed = true;\n                break;\n            }\n            parsedArgs.push(parsed);\n        }\n        if (argParseFailed) {\n            //
Couldn't coerce args of this overload to expected type, move\n            // on to next one.\n            continue;\n        }\n        if (Array.isArray(params)) {\n            if (params.length !== parsedArgs.length) {\n
signatureContext.error(`Expected ${params.length} arguments, but found ${parsedArgs.length} instead.`);\n            continue;\n        }\n        }\n        for (let i = 0; i < parsedArgs.length; i++) {\n            const
expected = Array.isArray(params) ? params[i] : params.type;\n            const arg = parsedArgs[i];\n            signatureContext.concat(i + 1).checkSubtype(expected, arg.type);\n        }\n        if
(signatureContext.errors.length === 0) {\n            return new CompoundExpression(op, type, evaluate,
parsedArgs);\n        }\n        }\n        }\n        assert(!signatureContext || signatureContext.errors.length > 0);\n        if (overloads.length
=== 1) {\n            context.errors.push(...signatureContext.errors);\n        } else {\n            const expected =
overloads.length ? overloads : availableOverloads;\n            const signatures = expected\n            .map((params)\n            => stringifySignature(params))\n            .join(' | ');\n            const actualTypes = [];\n            // For error
message, re-parse arguments without trying to\n            // apply any coercions\n            for (let i = 1; i < args.length;\n            i++) {\n                const parsed = context.parse(args[i], 1 + actualTypes.length);\n                if (!parsed) return null;\n                actualTypes.push(toString(parsed.type));\n            }\n            context.error(`Expected arguments of type
${signatures}, but found (${actualTypes.join(', ')}) instead.`);\n        }\n        }\n        return null;\n    }\n    }\n    static register(\n        registry: ExpressionRegistry,\n        definitions: { [string]: Definition } ) {\n        assert(!CompoundExpression.definitions);\n        CompoundExpression.definitions = definitions;\n        for (const
name in definitions) {\n            registry[name] = CompoundExpression;\n        }\n    }\n}\n\nfunction
stringifySignature(signature: Signature): string {\n    if (Array.isArray(signature)) {\n        return
`${signature.map(toString).join(', ')}`;\n    } else {\n        return `${toString(signature.type)}...`;\n    }\n}\n\nexport default CompoundExpression;\n\n"/ @flow\n\nimport {StringType, BooleanType, CollatorType}
from './types';\nimport Collator from './types/collator';\nimport type {Expression} from './expression';\nimport
type EvaluationContext from './evaluation_context';\nimport type ParsingContext from './parsing_context';\nimport
type {Type} from './types';\n\nexport default class CollatorExpression implements Expression\n{\n    type: Type;\n    caseSensitive: Expression;\n    diacriticSensitive: Expression;\n    locale: Expression | null;\n\n    constructor(caseSensitive: Expression, diacriticSensitive: Expression, locale: Expression | null) {\n        this.type =
CollatorType;\n        this.locale = locale;\n        this.caseSensitive = caseSensitive;\n        this.diacriticSensitive =
diacriticSensitive;\n    }\n\n    static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression\n{\n    if (args.length !== 2)\n        return context.error(`Expected one argument.`);\n\n    const options =
(args[1]: any);\n    if (typeof options !== \"object\" || Array.isArray(options))\n        return
context.error(`Collator options argument must be an object.`);\n\n    const caseSensitive = context.parse(\n
options['case-sensitive'] === undefined ? false : options['case-sensitive'], 1, BooleanType);\n    if (!caseSensitive)\n        return null;\n\n    const diacriticSensitive
= context.parse(\n        options['diacritic-sensitive'] === undefined ? false : options['diacritic-sensitive'], 1,\n        BooleanType);\n    if (!diacriticSensitive) return null;\n\n    let locale = null;\n    if (options['locale']) {\n        locale = context.parse(options['locale'], 1, StringType);\n        if (!locale) return null;\n    }\n\n    return new
CollatorExpression(caseSensitive, diacriticSensitive, locale);\n    }\n\n    evaluate(ctx: EvaluationContext) {\n        return new Collator(this.caseSensitive.evaluate(ctx), this.diacriticSensitive.evaluate(ctx), this.locale ?
this.locale.evaluate(ctx) : null);\n    }\n\n    eachChild(fn: (Expression) => void) {\n        fn(this.caseSensitive);\n        fn(this.diacriticSensitive);\n        if (this.locale) {\n            fn(this.locale);\n        }\n    }\n\n    possibleOutputs() {\n        // Technically the set of possible outputs is the combinatoric set of Collators produced\n        // by

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all possibleOutputs of locale/caseSensitive/diacriticSensitive\n // But for the primary use of Collators in
comparison operators, we ignore the Collator's\n // possibleOutputs anyway, so we can get away with leaving
this undefined for now.\n return [undefined];\n }\n\n serialize() {\n const options = {};\n
options['case-sensitive'] = this.caseSensitive.serialize();\n options['diacritic-sensitive'] =
this.diacriticSensitive.serialize();\n if (this.locale) {\n options['locale'] = this.locale.serialize();\n }\n
return ["collator", options];\n }\n\n", "// @flow\n\nimport CompoundExpression from
'./compound_expression';\n\nimport type {Expression} from './expression.js';\n\nfunction isFeatureConstant(e:
Expression) {\n if (e instanceof CompoundExpression) {\n if (e.name === 'get' && e.args.length === 1) {\n
return false;\n } else if (e.name === 'feature-state') {\n return
false;\n } else if (e.name === 'has' && e.args.length === 1) {\n return false;\n } else if (\n
e.name === 'properties' ||\n e.name === 'geometry-type' ||\n e.name === 'id'\n ) {\n return
false;\n } else if (/^filter-/\.test(e.name)) {\n return false;\n }\n }\n\n let result = true;\n
e.eachChild(arg => {\n if (result && !isFeatureConstant(arg)) { result = false; }\n });\n return
result;\n }\n\nfunction isStateConstant(e: Expression) {\n if (e instanceof CompoundExpression) {\n if (e.name
=== 'feature-state') {\n return false;\n }\n }\n let result = true;\n e.eachChild(arg => {\n if
(result && !isStateConstant(arg)) { result = false; }\n });\n return result;\n }\n\nfunction
isGlobalPropertyConstant(e: Expression, properties: Array<string>) {\n if (e instanceof CompoundExpression &&
properties.indexOf(e.name) >= 0)
{ return false; }\n let result = true;\n e.eachChild((arg) => {\n if (result && !isGlobalPropertyConstant(arg,
properties)) { result = false; }\n });\n return result;\n }\n\nexport {isFeatureConstant, isGlobalPropertyConstant,
isStateConstant};\n", "// @flow\n\nimport type {Type} from './types';\nimport type {Expression} from
'./expression';\nimport type ParsingContext from './parsing_context';\nimport type EvaluationContext from
'./evaluation_context';\n\nclass Var implements Expression {\n type: Type;\n name: string;\n
boundExpression: Expression;\n\n constructor(name: string, boundExpression: Expression) {\n this.type =
boundExpression.type;\n this.name = name;\n this.boundExpression = boundExpression;\n }\n\n static
parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n if (args.length !== 2 || typeof args[1] !==
'string')\n return context.error(`var` expression requires exactly one string literal
argument.`);\n\n const name = args[1];\n if (!context.scope.has(name)) {\n return
context.error(`Unknown variable "${name}`. Make sure "${name}` has been bound in an enclosing `let`
expression before using it.` , 1);\n }\n\n return new Var(name, context.scope.get(name));\n }\n\n
evaluate(ctx: EvaluationContext) {\n return this.boundExpression.evaluate(ctx);\n }\n\n eachChild() {\n\n
possibleOutputs() {\n return [undefined];\n }\n\n serialize() {\n return ["var", this.name];\n
}\n\n}\n\nexport default Var;\n", "// @flow\n\nimport Scope from './scope';\nimport {checkSubtype} from
'./types';\nimport ParsingError from './parsing_error';\nimport Literal from './definitions/literal';\nimport Assertion
from './definitions/assertion';\nimport Coercion from './definitions/coercion';\nimport EvaluationContext from
'./evaluation_context';\nimport CompoundExpression from './compound_expression';\nimport
CollatorExpression from './definitions/collator';\nimport {isGlobalPropertyConstant, isFeatureConstant} from
'./is_constant';\nimport Var from './definitions/var';\nimport type {Expression, ExpressionRegistry} from
'./expression';\nimport type {Type} from './types';\n\n/**\n * State associated parsing at a given point in an
expression tree.\n * @private\n */\nclass ParsingContext {\n registry: ExpressionRegistry;\n path:
Array<number>;\n key: string;\n scope: Scope;\n errors: Array<ParsingError>;\n\n // The expected type of
this expression. Provided only to allow Expression\n // implementations to infer argument types:\n
Expression#parse() need not\n // check that the output type of the parsed expression matches\n //
`expectedType`\n expectedType: ?Type;\n\n constructor(\n registry: ExpressionRegistry,\n path:
Array<number> = [],\n expectedType: ?Type,\n scope: Scope = new Scope(),\n errors:
Array<ParsingError> = []\n
) {\n this.registry = registry;\n this.path = path;\n this.key = path.map(part => `${part}`).join("");\n
this.scope = scope;\n this.errors = errors;\n this.expectedType = expectedType;\n }\n\n /**\n *

```

```

@param expr the JSON expression to parse\n
 * @param index the optional argument index if this expression is
an argument of a parent expression that's being parsed\n
 * @param options\n
 * @param
options.omitTypeAnnotations set true to omit inferred type annotations. Caller beware: with this option set, the
parsed expression's type will NOT satisfy `expectedType` if it would normally be wrapped in an inferred
annotation.\n
 * @private\n
 */\n
parse(\n
  expr: mixed,\n
  index?: number,\n
  expectedType?:
?Type,\n
  bindings?: Array<[string, Expression]>,\n
  options: {typeAnnotation?: 'assert' | 'coerce' | 'omit'} =
{\n
})\n
): ?Expression {\n
  if (index) {\n
    return this.concat(index,\n
expectedType, bindings)._parse(expr, options);\n
  }\n
  return this._parse(expr, options);\n
}\n
\n
_parse(expr: mixed, options: {typeAnnotation?: 'assert' | 'coerce' | 'omit'}): ?Expression {\n
  if (expr === null ||\n
typeof expr === 'string' || typeof expr === 'boolean' || typeof expr === 'number') {\n
    expr = ['literal', expr];\n
  }\n
\n
  function annotate(parsed, type, typeAnnotation: 'assert' | 'coerce' | 'omit') {\n
    if (typeAnnotation
=== 'assert') {\n
      return new Assertion(type, [parsed]);\n
    } else if (typeAnnotation === 'coerce') {\n
      return new Coercion(type, [parsed]);\n
    } else {\n
      return parsed;\n
    }\n
  }\n
\n
  if
(Array.isArray(expr)) {\n
    if (expr.length === 0) {\n
      return this.error(`Expected an array with at least
one element. If you wanted a literal array, use ["literal", []].`);\n
    }\n
\n
    const op = expr[0];\n
    if (typeof op !== 'string') {\n
      this.error(`Expression name must be a
string, but found ${typeof op} instead. If you wanted a literal array, use ["literal", [...]].`, 0);\n
      return
null;\n
    }\n
\n
    const Expr = this.registry[op];\n
    if (Expr) {\n
      let parsed =
Expr.parse(expr, this);\n
      if (!parsed) return null;\n
      if (this.expectedType) {\n
        const
expected = this.expectedType;\n
        const actual = parsed.type;\n
        // When we expect a
number, string, boolean, or array but have a value, wrap it in an assertion.\n
        // When we expect a color
or formatted string, but have a string or value, wrap it in a coercion.\n
        // Otherwise, we do static type-
checking.\n
        //\n
        // These behaviors are overridable for:\n
        // * The "coalesce" operator, which needs to omit type annotations.\n
        // * String-valued
properties (e.g. `text-field`), where coercion is more convenient than assertion.\n
        //\n
        if
((expected.kind === 'string' || expected.kind === 'number' || expected.kind === 'boolean' || expected.kind ===
'object' || expected.kind === 'array') && actual.kind === 'value') {\n
          parsed = annotate(parsed,\n
expected, options.typeAnnotation || 'assert');\n
        } else if ((expected.kind === 'color' || expected.kind ===
'formatted' || expected.kind === 'resolvedImage') && (actual.kind === 'value' || actual.kind === 'string')) {\n
          parsed = annotate(parsed, expected, options.typeAnnotation || 'coerce');\n
        } else if
(this.checkSubtype(expected, actual)) {\n
          return null;\n
        }\n
      }\n
\n
      // If an
expression's
arguments are all literals, we can evaluate\n
      // it immediately and replace it with a literal value in the\n
      // parsed/compiled result. Expressions that expect an image should\n
      // not be resolved here so we can
later get the available images.\n
      if (!(parsed instanceof Literal) && (parsed.type.kind !== 'resolvedImage')
&& isConstant(parsed)) {\n
        const ec = new EvaluationContext();\n
        try {\n
          parsed = new Literal(parsed.type, parsed.evaluate(ec));\n
        } catch (e) {\n
          this.error(e.message);\n
          return null;\n
        }\n
      }\n
\n
      return parsed;\n
    }\n
\n
    return this.error(`Unknown expression "${op}". If you wanted a literal array, use ["literal", [...]].`,
0);\n
  } else if (typeof expr === 'undefined') {\n
    return this.error(`undefined`
value invalid. Use null instead.`);\n
  } else if (typeof expr === 'object') {\n
    return this.error(`Bare objects
invalid. Use ["literal", {...}] instead.`);\n
  } else {\n
    return this.error(`Expected an array, but found
${typeof expr} instead.`);\n
  }\n
}\n
\n
/**\n
 * Returns a copy of this context suitable for parsing the
subexpression at\n
 * index `index`, optionally appending to 'let' binding map.\n
 * \n
 * Note that `errors`
property, intended for collecting errors while\n
 * parsing, is copied by reference rather than cloned.\n
 *
 * @private\n
 */\n
concat(index: number, expectedType?: ?Type, bindings?: Array<[string, Expression]>) {\n
const path = typeof index === 'number' ? this.path.concat(index) : this.path;\n
const scope = bindings ?
this.scope.concat(bindings) : this.scope;\n
return new ParsingContext(\n
  this.registry,\n
  path,\n

```

```

    expectedType
    || null,\n    scope,\n    this.errors\n    );\n    }\n\n    /**\n    * Push a parsing (or type checking) error into
    the `this.errors`\n    * @param error The message\n    * @param keys Optionally specify the source of the error at a
    child\n    * of the current expression at `this.key`.\n    * @private\n    */\n    error(error: string, ...keys:
    Array<number>) {\n    const key = `${this.key}${keys.map(k => `[${k}]`).join("")}`;\n    this.errors.push(new
    ParsingError(key, error));\n    }\n\n    /**\n    * Returns null if `t` is a subtype of `expected`; otherwise returns an\n
    * error message and also pushes it to `this.errors`.\n    */\n    checkSubtype(expected: Type, t: Type): ?string {\n
    const error = checkSubtype(expected, t);\n    if (error) this.error(error);\n    return error;\n    }\n\n\nexport
    default ParsingContext;\n\nfunction isConstant(expression: Expression) {\n    if (expression instanceof Var) {\n
    return isConstant(expression.boundExpression);\n
    } else if (expression instanceof CompoundExpression && expression.name === 'error') {\n    return false;\n    }
    else if (expression instanceof CollatorExpression) {\n    // Although the results of a Collator expression with fixed
    arguments\n    // generally shouldn't change between executions, we can't serialize them\n    // as constant
    expressions because results change based on environment.\n    return false;\n    }\n\n    const isTypeAnnotation =
    expression instanceof Coercion ||\n    expression instanceof Assertion;\n\n    let childrenConstant = true;\n
    expression.eachChild(child => {\n    // We can _almost_ assume that if `expressions` children are constant,\n
    // they would already have been evaluated to Literal values when they\n    // were parsed. Type annotations are
    the exception, because they might\n    // have been inferred and added after a child was parsed.\n    // So we
    recurse into
    isConstant() for the children of type annotations,\n    // but otherwise simply check whether they are Literals.\n
    if (isTypeAnnotation) {\n    childrenConstant = childrenConstant && isConstant(child);\n    } else {\n
    childrenConstant = childrenConstant && child instanceof Literal;\n    }\n    });\n    if (!childrenConstant) {\n
    return false;\n    }\n\n    return isFeatureConstant(expression) &&\n    isGlobalPropertyConstant(expression,
    ['zoom', 'heatmap-density', 'line-progress', 'accumulated', 'is-supported-script']);\n\n    };\n\n    "" @flow\n\nimport
    RuntimeError from './runtime_error';\n\nimport type {Expression} from './expression';\n\nexport type Stops =
    Array<[number, Expression]>;\n\n/**\n    * Returns the index of the last stop <= input, or 0 if it doesn't exist.\n    */\n
    @private\n    */\n\nexport function findStopLessThanOrEqualTo(stops: Array<number>, input: number) {\n    const
    lastIndex = stops.length - 1;\n    let lowerIndex = 0;\n    let upperIndex
    = lastIndex;\n    let currentIndex = 0;\n    let currentValue, nextValue;\n\n    while (lowerIndex <= upperIndex) {\n
    currentIndex = Math.floor((lowerIndex + upperIndex) / 2);\n    currentValue = stops[currentIndex];\n
    nextValue = stops[currentIndex + 1];\n\n    if (currentValue <= input) {\n    if (currentIndex === lastIndex ||
    input < nextValue) { // Search complete\n    return currentIndex;\n    }\n\n    lowerIndex =
    currentIndex + 1;\n    } else if (currentValue > input) {\n    upperIndex = currentIndex - 1;\n    } else {\n
    throw new RuntimeError('Input is not a number.);\n    }\n    }\n\n    return 0;\n\n    };\n\n    "" @flow\n\nimport
    {NumberType} from './types';\n\nimport {findStopLessThanOrEqualTo} from './stops';\n\nimport type {Stops}
    from './stops';\n\nimport type {Expression} from './expression';\n\nimport type ParsingContext from
    './parsing_context';\n\nimport type EvaluationContext from
    './evaluation_context';\n\nimport type {Value} from './values';\n\nimport type {Type} from './types';\n\nclass Step
    implements Expression {\n    type: Type;\n\n    input: Expression;\n    labels: Array<number>;\n    outputs:
    Array<Expression>;\n\n    constructor(type: Type, input: Expression, stops: Stops) {\n    this.type = type;\n
    this.input = input;\n\n    this.labels = [];\n    this.outputs = [];\n    for (const [label, expression] of stops) {\n
    this.labels.push(label);\n    this.outputs.push(expression);\n    }\n    }\n\n    static parse(args:
    $ReadOnlyArray<mixed>, context: ParsingContext) {\n    if (args.length - 1 < 4) {\n    return
    context.error(`Expected at least 4 arguments, but found only ${args.length - 1}.`);\n    }\n\n    if ((args.length -
    1) % 2 !== 0) {\n    return context.error(`Expected an even number of arguments.`);\n    }\n\n    const input
    = context.parse(args[1], 1, NumberType);\n
    if (!input) return null;\n\n    const stops: Stops = [];\n\n    let outputType: Type = (null: any);\n    if
    (context.expectedType && context.expectedType.kind !== 'value') {\n    outputType =

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context.expectedType;\n    }\n\n    for (let i = 1; i < args.length; i += 2) {\n        const label = i === 1 ? -
Infinity : args[i];\n        const value = args[i + 1];\n        const labelKey = i;\n        const valueKey = i +
1;\n        if (typeof label !== 'number') {\n            return context.error('Input/output pairs for \"step\"
expressions must be defined using literal numeric values (not computed expressions) for the input values.',
labelKey);\n        }\n        if (stops.length && stops[stops.length - 1][0] >= label) {\n            return
context.error('Input/output pairs for \"step\" expressions must be arranged with input values in strictly ascending
order.', labelKey);\n        }\n        const
parsed = context.parse(value, valueKey, outputType);\n        if (!parsed) return null;\n        outputType =
outputType || parsed.type;\n        stops.push([label, parsed]);\n    }\n\n    return new Step(outputType, input,
stops);\n}\n\nevaluate(ctx: EvaluationContext) {\n    const labels = this.labels;\n    const outputs =
this.outputs;\n    if (labels.length === 1) {\n        return outputs[0].evaluate(ctx);\n    }\n\n    const value
= ((this.input.evaluate(ctx): any): number);\n    if (value <= labels[0]) {\n        return outputs[0].evaluate(ctx);\n
    }\n\n    const stopCount = labels.length;\n    if (value >= labels[stopCount - 1]) {\n        return
outputs[stopCount - 1].evaluate(ctx);\n    }\n\n    const index = findStopLessThanOrEqualTo(labels, value);\n
    return outputs[index].evaluate(ctx);\n}\n\neachChild(fn: (Expression) => void) {\n    fn(this.input);\n}
for (const
expression of this.outputs) {\n    fn(expression);\n}\n}\n\npossibleOutputs(): Array<Value | void>
{\n    return [].concat(...this.outputs.map((output) => output.possibleOutputs()));\n}\n\nserialize() {\n
const serialized = [\"step\", this.input.serialize()];\n    for (let i = 0; i < this.labels.length; i++) {\n        if (i > 0)
{\n            serialized.push(this.labels[i]);\n        }\n        serialized.push(this.outputs[i].serialize());\n    }\n
    return serialized;\n}\n}\n\nexport default Step;\n\";/*\n * Copyright (C) 2008 Apple Inc. All Rights Reserved.\n
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SERVICES; LOSS OF USE, DATA, OR\n * PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY THEORY\n * OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT\n *
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE\n * OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.\n *\n * Ported from Webkit\n *
http://svn.webkit.org/repository/webkit/trunk/Source/WebCore/platform/graphics/UnitBezier.h\n
*\n\nmodule.exports = UnitBezier;\n\nfunction UnitBezier(p1x, p1y, p2x, p2y) {\n    // Calculate the polynomial
coefficients, implicit first and last control points are (0,0) and (1,1).\n    this.cx = 3.0 * p1x;\n    this.bx = 3.0 * (p2x -
p1x) - this.cx;\n    this.ax = 1.0 - this.cx - this.bx;\n\n    this.cy = 3.0 * p1y;\n    this.by = 3.0 * (p2y - p1y) - this.cy;\n
    this.ay = 1.0 - this.cy - this.by;\n\n    this.p1x = p1x;\n    this.p1y = p1y;\n    this.p2x = p2x;\n    this.p2y =
p2y;\n}\n\nUnitBezier.prototype.sampleCurveX = function(t) {\n    // `ax t^3 + bx t^2 + cx t` expanded using
Horner's rule.\n    return ((this.ax * t + this.bx) * t + this.cx) * t;\n}\n\nUnitBezier.prototype.sampleCurveY =
function(t) {\n    return ((this.ay * t + this.by) * t + this.cy) *
t;\n}\n\nUnitBezier.prototype.sampleCurveDerivativeX = function(t) {\n    return (3.0 * this.ax * t + 2.0 * this.bx) *
t + this.cx;\n}\n\nUnitBezier.prototype.solveCurveX
= function(x, epsilon) {\n    if (typeof epsilon === 'undefined') epsilon = 1e-6;\n\n    var t0, t1, t2, x2, i;\n\n    // First
try a few iterations of Newton's method -- normally very fast.\n    for (t2 = x, i = 0; i < 8; i++) {\n        x2 =
this.sampleCurveX(t2) - x;\n        if (Math.abs(x2) < epsilon) return t2;\n        var d2 =

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this.sampleCurveDerivativeX(t2);\n    if (Math.abs(d2) < 1e-6) break;\n    t2 = t2 - x2 / d2;\n  }\n  // Fall
back to the bisection method for reliability.\n  t0 = 0.0;\n  t1 = 1.0;\n  t2 = x;\n  if (t2 < t0) return t0;\n  if (t2
> t1) return t1;\n  while (t0 < t1) {\n    x2 = this.sampleCurveX(t2);\n    if (Math.abs(x2 - x) < epsilon)
return t2;\n    if (x > x2) {\n      t0 = t2;\n    } else {\n      t1 = t2;\n    }\n    t2 = (t1 - t0) * 0.5 +
t0;\n  }\n  // Failure.\n  return t2;\n};\n\nUnitBezier.prototype.solve = function(x, epsilon) {\n  return
this.sampleCurveY(this.solveCurveX(x, epsilon));\n};\n\n"/ @flow\n\nimport Color from './color';\n\nexport
function number(a: number, b: number, t: number) {\n  return (a * (1 - t)) + (b * t);\n}\n\nexport function
color(from: Color, to: Color, t: number) {\n  return new Color(\n    number(from.r, to.r, t),\n    number(from.g,
to.g, t),\n    number(from.b, to.b, t),\n    number(from.a, to.a, t)\n  );\n}\n\nexport function array(from:
Array<number>, to: Array<number>, t: number): Array<number> {\n  return from.map((d, i) => {\n    return
number(d, to[i], t);\n  });\n}\n\n"/ @flow\n\nimport Color from './color';\n\nimport {number as
interpolateNumber} from './interpolate';\n\ntype LABColor = {\n  l: number,\n  a: number,\n  b: number,\n  alpha: number\n};\n\ntype HCLColor = {\n  h: number,\n  c: number,\n  l: number,\n  alpha: number\n};\n\n//
Constants\nconst Xn = 0.950470, // D65 standard referent\n  Yn = 1,\n  Zn = 1.088830,\n  t0
= 4 / 29,\n  t1 = 6 / 29,\n  t2 = 3 * t1 * t1,\n  t3 = t1 * t1 * t1,\n  deg2rad = Math.PI / 180,\n  rad2deg = 180 /
Math.PI;\n\n// Utilities\nfunction xyz2lab(t: number) {\n  return t > t3 ? Math.pow(t, 1 / 3) : t / t2 +
t0;\n}\n\nfunction lab2xyz(t: number) {\n  return t > t1 ? t * t * t : t2 * (t - t0);\n}\n\nfunction xyz2rgb(x: number)
{\n  return 255 * (x <= 0.0031308 ? 12.92 * x : 1.055 * Math.pow(x, 1 / 2.4) - 0.055);\n}\n\nfunction rgb2xyz(x:
number) {\n  x /= 255;\n  return x <= 0.04045 ? x / 12.92 : Math.pow((x + 0.055) / 1.055, 2.4);\n}\n\n//
LAB\nfunction rgbToLab(rgbColor: Color): LABColor {\n  const b = rgb2xyz(rgbColor.r),\n    a =
rgb2xyz(rgbColor.g),\n    l = rgb2xyz(rgbColor.b),\n    x = xyz2lab((0.4124564 * b + 0.3575761 * a +
0.1804375 * l) / Xn),\n    y = xyz2lab((0.2126729 * b + 0.7151522 * a + 0.0721750 * l) / Yn),\n    z =
xyz2lab((0.0193339 * b + 0.1191920 * a + 0.9503041 * l) / Zn);\n  return {\n    l: 116 * y
- 16,\n    a: 500 * (x - y),\n    b: 200 * (y - z),\n    alpha: rgbColor.alpha\n  };}\n\nfunction
labToRgb(labColor: LABColor): Color {\n  let y = (labColor.l + 16) / 116,\n    x = isNaN(labColor.a) ? y : y +
labColor.a / 500,\n    z = isNaN(labColor.b) ? y : y - labColor.b / 200;\n  y = Yn * lab2xyz(y);\n  x = Xn *
lab2xyz(x);\n  z = Zn * lab2xyz(z);\n  return new Color(\n    xyz2rgb(3.2404542 * x - 1.5371385 * y -
0.4985314 * z), // D65 -> sRGB\n    xyz2rgb(-0.9692660 * x + 1.8760108 * y + 0.0415560 * z),\n    xyz2rgb(0.0556434 * x - 0.2040259 * y + 1.0572252 * z),\n    labColor.alpha\n  );}\n\nfunction
interpolateLab(from: LABColor, to: LABColor, t: number) {\n  return {\n    l: interpolateNumber(from.l, to.l,
t),\n    a: interpolateNumber(from.a, to.a, t),\n    b: interpolateNumber(from.b, to.b, t),\n    alpha:
interpolateNumber(from.alpha, to.alpha, t)\n  };}\n\n// HCL\nfunction rgbToHcl(rgbColor: Color): HCLColor
{\n  const {l, a, b} = rgbToLab(rgbColor);\n  const h = Math.atan2(b, a) * rad2deg;\n  return {\n    h: h < 0 ? h
+ 360 : h,\n    c: Math.sqrt(a * a + b * b),\n    l,\n    alpha: rgbColor.alpha\n  };}\n\nfunction
hclToRgb(hclColor: HCLColor): Color {\n  const h = hclColor.h * deg2rad,\n    c = hclColor.c,\n    l =
hclColor.l;\n  return labToRgb({\n    l,\n    a: Math.cos(h) * c,\n    b: Math.sin(h) * c,\n    alpha:
hclColor.alpha\n  });}\n\nfunction interpolateHue(a: number, b: number, t: number) {\n  const d = b - a;\n  return a + t * (d > 180 ? d - 360 : d < -180 ? d + 360 : d);\n}\n\nfunction interpolateHcl(from:
HCLColor, to: HCLColor, t: number) {\n  return {\n    h: interpolateHue(from.h, to.h, t),\n    c:
interpolateNumber(from.c, to.c, t),\n    l: interpolateNumber(from.l, to.l, t),\n    alpha:
interpolateNumber(from.alpha, to.alpha, t)\n  };}\n\nexport const lab = {\n  forward:
rgbToLab,\n  reverse: labToRgb,\n  interpolate: interpolateLab\n};\n\nexport const hcl = {\n  forward:
rgbToHcl,\n  reverse: hclToRgb,\n  interpolate: interpolateHcl\n};\n\n"/ @flow\n\nimport UnitBezier from
'@mapbox/unitbezier';\n\nimport * as interpolate from './util/interpolate';\n\nimport {toString, NumberType,
ColorType} from './types';\n\nimport {findStopLessThanOrEqualTo} from './stops';\n\nimport {hcl, lab} from
'./util/color_spaces';\n\nimport type {Stops} from './stops';\n\nimport type {Expression} from
'./expression';\n\nimport type ParsingContext from './parsing_context';\n\nimport type EvaluationContext from
'./evaluation_context';\n\nimport type {Value} from './values';\n\nimport type {Type} from './types';\n\nexport type

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InterpolationType =\n  { name: 'linear' } |\n  { name: 'exponential', base: number } |\n  { name: 'cubic-bezier',
controlPoints: [number, number, number, number] };
\nclass Interpolate implements Expression {\n  type:
Type;\n\n  operator:
'interpolate' | 'interpolate-hcl' | 'interpolate-lab';\n  interpolation: InterpolationType;\n  input: Expression;\n  labels: Array<number>;\n  outputs: Array<Expression>;\n\n  constructor(type: Type, operator: 'interpolate' |
'interpolate-hcl' | 'interpolate-lab', interpolation: InterpolationType, input: Expression, stops: Stops) {\n    this.type
= type;\n    this.operator = operator;\n    this.interpolation = interpolation;\n    this.input = input;\n\n    this.labels = [];\n    this.outputs = [];\n    for (const [label, expression] of stops) {\n
this.labels.push(label);\n    this.outputs.push(expression);\n    }\n  }\n\n  static
interpolationFactor(interpolation: InterpolationType, input: number, lower: number, upper: number) {\n    let t =
0;\n    if (interpolation.name === 'exponential') {\n      t = exponentialInterpolation(input, interpolation.base,
lower, upper);\n    } else if (interpolation.name
=== 'linear') {\n      t = exponentialInterpolation(input, 1, lower, upper);\n    } else if (interpolation.name ===
'cubic-bezier') {\n      const c = interpolation.controlPoints;\n      const ub = new UnitBezier(c[0], c[1], c[2],
c[3]);\n      t = ub.solve(exponentialInterpolation(input, 1, lower, upper));\n    }\n    return t;\n  }\n\n  static
parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n    let [operator, interpolation, input,
...rest] = args;\n\n    if (!Array.isArray(interpolation) || interpolation.length === 0) {\n      return
context.error(`Expected an interpolation type expression.`, 1);\n    }\n\n    if (interpolation[0] === 'linear') {\n
interpolation = {name: 'linear'};\n    } else if (interpolation[0] === 'exponential') {\n      const base =
interpolation[1];\n      if (typeof base !== 'number')\n        return context.error(`Exponential interpolation
requires
a numeric base.`, 1, 1);\n      interpolation = {\n        name: 'exponential',\n        base\n      };\n    } else if (interpolation[0] === 'cubic-bezier') {\n      const controlPoints = interpolation.slice(1);\n      if (\n
controlPoints.length !== 4 ||\n      controlPoints.some(t => typeof t !== 'number' || t < 0 || t > 1)\n      )\n        return context.error(`Cubic bezier interpolation requires four numeric arguments with values between 0
and 1.`, 1);\n      interpolation = {\n        name: 'cubic-bezier',\n        controlPoints:
(controlPoints: any)\n      };\n    } else {\n      return context.error(`Unknown interpolation type
${String(interpolation[0])}`, 1, 0);\n    }\n\n    if (args.length - 1 < 4) {\n      return context.error(`Expected
at least 4 arguments, but found only ${args.length - 1}.`);\n    }\n\n    if ((args.length - 1) % 2 !== 0) {\n      return context.error(`Expected an even number of arguments.`);\n    }\n\n    input = context.parse(input, 2, NumberType);\n    if (!input) return null;\n\n    const stops: Stops =
[];\n\n    let outputType: Type = (null: any);\n    if (operator === 'interpolate-hcl' || operator === 'interpolate-
lab') {\n      outputType = ColorType;\n    } else if (context.expectedType && context.expectedType.kind !==
'value') {\n      outputType = context.expectedType;\n    }\n\n    for (let i = 0; i < rest.length; i += 2) {\n
const label = rest[i];\n      const value = rest[i + 1];\n      const labelKey = i + 3;\n      const valueKey =
i + 4;\n\n      if (typeof label !== 'number') {\n        return context.error(`Input/output pairs for \"interpolate\"
expressions must be defined using literal numeric values (not computed expressions) for the input values.`,
labelKey);\n      }\n\n      if (stops.length && stops[stops.length - 1][0] >= label) {\n        return
context.error(`Input/output pairs for \"interpolate\" expressions must be arranged with input values in strictly
ascending order.`, labelKey);\n      }\n\n      const parsed = context.parse(value, valueKey, outputType);\n      if (!parsed) return null;\n      outputType = outputType || parsed.type;\n      stops.push([label, parsed]);\n    }\n\n    if (outputType.kind !== 'number' &&\n      outputType.kind !== 'color' &&\n      !(\n
outputType.kind === 'array' &&\n      outputType.itemType.kind === 'number' &&\n      typeof
outputType.N === 'number'\n      ))\n      return context.error(`Type ${toString(outputType)} is not
interpolatable.`);\n\n    return new Interpolate(outputType, (operator: any), interpolation, input, stops);\n  }\n\n  evaluate(ctx:

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EvaluationContext) {\n    const labels = this.labels;\n    const outputs = this.outputs;\n\n    if (labels.length\n    === 1) {\n        return outputs[0].evaluate(ctx);\n    }\n\n    const value = ((this.input.evaluate(ctx): any):\n    number);\n    if (value <= labels[0]) {\n        return outputs[0].evaluate(ctx);\n    }\n\n    const stopCount =\n    labels.length;\n    if (value >= labels[stopCount - 1]) {\n        return outputs[stopCount - 1].evaluate(ctx);\n    }\n\n    const index = findStopLessThanOrEqualTo(labels, value);\n    const lower = labels[index];\n    const\n    upper = labels[index + 1];\n    const t = Interpolate.interpolationFactor(this.interpolation, value, lower, upper);\n\n    const outputLower = outputs[index].evaluate(ctx);\n    const outputUpper = outputs[index +\n    1].evaluate(ctx);\n\n    if (this.operator === 'interpolate') {\n        return\n    (interpolate[this.type.kind.toLowerCase()]:\n    any)(outputLower, outputUpper, t); // eslint-disable-line import/namespace\n    } else if (this.operator ===\n    'interpolate-hcl') {\n        return hcl.reverse(hcl.interpolate(hcl.forward(outputLower), hcl.forward(outputUpper),\n    t));\n    } else {\n        return lab.reverse(lab.interpolate(lab.forward(outputLower), lab.forward(outputUpper),\n    t));\n    }\n}\n\n    eachChild(fn: (Expression) => void) {\n        fn(this.input);\n        for (const expression of\n    this.outputs) {\n            fn(expression);\n        }\n    }\n\n    possibleOutputs(): Array<Value | void> {\n        return\n    [].concat(...this.outputs.map((output) => output.possibleOutputs()));\n    }\n\n    serialize(): Array<mixed> {\n        let interpolation;\n        if (this.interpolation.name === 'linear') {\n            interpolation = ["linear"];\n        } else if\n    (this.interpolation.name === 'exponential') {\n            if (this.interpolation.base === 1) {\n                interpolation =\n    ["linear"];\n            } else {\n                interpolation = ["exponential", this.interpolation.base];\n            }\n        } else {\n            interpolation = ["cubic-bezier" ].concat(this.interpolation.controlPoints);\n        }\n\n        const serialized =\n    [this.operator, interpolation, this.input.serialize()];\n\n        for (let i = 0; i < this.labels.length; i++) {\n            serialized.push(\n                this.labels[i],\n                this.outputs[i].serialize());\n        }\n\n        return\n    serialized;\n    }\n}\n\n/**\n * Returns a ratio that can be used to interpolate between exponential function\n * stops.\n * How it works: Two consecutive stop values define a (scaled and shifted) exponential function `f(x) = a *\n    base^x + b`, where `base` is the user-specified base,\n * and `a` and `b` are constants affording sufficient degrees of\n    freedom to fit\n * the function to the given stops.\n * Here's a bit of algebra that lets us compute `f(x)`\n    directly from the stop\n * values without explicitly solving for `a` and `b`:\n * First stop value: `f(x0) = y0 = a *\n    base^x0 + b`\n * Second stop value: `f(x1) = y1 = a *\n    base^x1 + b`\n * => `y1 - y0 = a(base^x1 - base^x0)`\n * =>\n    `a = (y1 - y0)/(base^x1 - base^x0)`\n * Desired value: `f(x) = y = a *\n    base^x + b`\n * => `f(x) = y0 + a * (base^x\n    - base^x0)`\n * From the above, we can replace the `a` in `a * (base^x - base^x0)` and do a\n    little algebra:\n * ``\n * a * (base^x - base^x0) = (y1 - y0)/(base^x1 - base^x0) * (base^x - base^x0)\n * = (y1 - y0) *\n    (base^x - base^x0) / (base^x1 - base^x0)`\n * ``\n * If we let `(base^x - base^x0) / (base^x1 - base^x0)`, then we\n    have\n * `f(x) = y0 + (y1 - y0) * ratio`. In other words, `ratio` may be treated as\n    an interpolation factor between\n    the two stops' output values.\n * (Note: a slightly different form for `ratio`,\n * `(base^(x-x0) - 1) / (base^(x1-x0)\n    - 1)`, is equivalent, but requires fewer\n    * expensive `Math.pow()` operations.)\n * @private\n */\nfunction exponentialInterpolation(input, base,\n    lowerValue, upperValue) {\n    const difference = upperValue - lowerValue;\n    const progress = input -\n    lowerValue;\n\n    if (difference === 0) {\n        return 0;\n    } else if (base === 1) {\n        return progress /\n    difference;\n    } else {\n        return (Math.pow(base, progress) - 1) / (Math.pow(base, difference) - 1);\n    }\n}\n\nexport default Interpolate;\n\n/** @flow\n */\nimport assert from 'assert';\nimport {checkSubtype,\n    ValueType} from './types';\nimport ResolvedImage from './types/resolved_image';\nimport type {Expression}\n    from './expression';\nimport type ParsingContext from './parsing_context';\nimport type EvaluationContext from\n    './evaluation_context';\nimport type {Value} from './values';\nimport type {Type} from './types';\n\nclass Coalesce\n    implements Expression {\n    type: Type;\n    args: Array<Expression>;\n\n    constructor(type: Type,\n        args: Array<Expression>) {\n        this.type = type;\n        this.args = args;\n    }\n\n    static parse(args:\n    $ReadOnlyArray<mixed>, context: ParsingContext) {\n        if (args.length < 2) {\n            return\n        context.error("Expected at least one argument.");\n        }\n\n        let outputType: Type = (null: any);\n        const\n        expectedType = context.expectedType;\n        if (expectedType && expectedType.kind !== 'value') {\n

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context.error(`Expected 2 arguments, but found ${args.length - 1} instead.`);\n\n    const index =
context.parse(args[1], 1, NumberType);\n    const input = context.parse(args[2],
2, array(context.expectedType || ValueType));\n\n    if (!index || !input) return null;\n\n    const t: ArrayType =
(input.type: any);\n    return new At(t.itemType, index, input);\n  }\n\n  evaluate(ctx: EvaluationContext) {\n
const index = ((this.index.evaluate(ctx): any): number);\n    const array = ((this.input.evaluate(ctx): any):
Array<Value>);\n\n    if (index < 0) {\n      throw new RuntimeError(`Array index out of bounds: ${index} <
0.`);\n    }\n\n    if (index >= array.length) {\n      throw new RuntimeError(`Array index out of bounds:
${index} > ${array.length - 1}.`);\n    }\n\n    if (index !== Math.floor(index)) {\n      throw new
RuntimeError(`Array index must be an integer, but found ${index} instead.`);\n    }\n\n    return array[index];\n
  }\n\n  eachChild(fn: (Expression) => void) {\n    fn(this.index);\n    fn(this.input);\n  }\n\n  possibleOutputs() {\n
return [undefined];\n  }\n\n  serialize() {\n    return ["at", this.index.serialize(), this.input.serialize()];\n  }\n}\n\nexport default
At;\n", "// @flow\n\nimport { ValueType, BooleanType, toString } from './types';\nimport RuntimeError from
'./runtime_error';\nimport { typeOf } from './values';\nimport type { Expression } from './expression';\nimport type
ParsingContext from './parsing_context';\nimport type EvaluationContext from './evaluation_context';\nimport type
{ Type } from './types';\nimport type { Value } from './values';\n\nfunction isComparableType(type: Type) {\n
return type.kind === 'boolean' ||\n    type.kind === 'string' ||\n    type.kind === 'number' ||\n    type.kind
=== 'null' ||\n    type.kind === 'value';\n}\n\nfunction isComparableRuntimeValue(needle: boolean | string |
number | null) {\n  return typeof needle === 'boolean' ||\n    typeof needle === 'string' ||\n    typeof needle
=== 'number';\n}\n\nfunction isSearchableRuntimeValue(haystack:
Array<Value> | string) {\n  return Array.isArray(haystack) ||\n    typeof haystack === 'string';\n}\n\n\nclass In
implements Expression {\n  type: Type;\n  needle: Expression;\n  haystack: Expression;\n\n  constructor(needle: Expression, haystack: Expression) {\n    this.type = BooleanType;\n    this.needle =
needle;\n    this.haystack = haystack;\n  }\n\n  static parse(args: $ReadOnlyArray<mixed>, context:
ParsingContext) {\n    if (args.length !== 3) {\n      return context.error(`Expected 2 arguments, but found
${args.length - 1} instead.`);\n    }\n\n    const needle = context.parse(args[1], 1, ValueType);\n    const
haystack = context.parse(args[2], 2, ValueType);\n\n    if (!needle || !haystack) return null;\n\n    if
(!isComparableType(needle.type)) {\n      return context.error(`Expected first argument to be of type boolean,
string, number or null, but found ${toString(needle.type)} instead`);\n    }\n\n    return new In(needle, haystack);\n  }\n\n  evaluate(ctx: EvaluationContext) {\n    const needle =
(this.needle.evaluate(ctx): any);\n    const haystack = (this.haystack.evaluate(ctx): any);\n\n    if (!needle ||
!haystack) return false;\n\n    if (!isComparableRuntimeValue(needle)) {\n      throw new
RuntimeError(`Expected first argument to be of type boolean, string or number, but found
${toString(typeOf(needle))} instead.`);\n    }\n\n    if (!isSearchableRuntimeValue(haystack)) {\n      throw
new RuntimeError(`Expected second argument to be of type array or string, but found
${toString(typeOf(haystack))} instead.`);\n    }\n\n    return haystack.indexOf(needle) >= 0;\n  }\n\n  eachChild(fn: (Expression) => void) {\n    fn(this.needle);\n    fn(this.haystack);\n  }\n\n  possibleOutputs()
{\n    return [true, false];\n  }\n\n  serialize() {\n    return ["in", this.needle.serialize(),
this.haystack.serialize()];\n  }\n}\n\nexport default In;\n", "// @flow\n\nimport assert from 'assert';\nimport
{ typeOf } from './values';\nimport { ValueType, type Type } from './types';\nimport type { Expression } from
'./expression';\nimport type ParsingContext from './parsing_context';\nimport type EvaluationContext from
'./evaluation_context';\nimport type { Value } from './values';\n\n// Map input label values to output expression
index\ntype Cases = {[number | string]: number};\n\nclass Match implements Expression {\n  type: Type;\n  inputType: Type;\n  input: Expression;\n  cases: Cases;\n  outputs: Array<Expression>;\n  otherwise:
Expression;\n\n  constructor(inputType: Type, outputType: Type, input: Expression, cases: Cases, outputs:
Array<Expression>, otherwise: Expression) {\n    this.inputType = inputType;\n    this.type = outputType;\n
this.input = input;\n    this.cases = cases;\n    this.outputs = outputs;\n    this.otherwise

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= otherwise;\n  }\n\n  static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n    if\n    (args.length < 5)\n      return context.error(`Expected at least 4 arguments, but found only ${args.length - 1}.`);\n    if (args.length % 2 !== 1)\n      return context.error(`Expected an even number of arguments.`);\n    let\n    inputType;\n    let outputType;\n    if (context.expectedType && context.expectedType.kind !== 'value') {\n      outputType = context.expectedType;\n    }\n    const cases = {};\n    const outputs = [];\n    for (let i = 2;\n    i < args.length - 1; i += 2) {\n      let labels = args[i];\n      const value = args[i + 1];\n      if\n      (!Array.isArray(labels)) {\n        labels = [labels];\n      }\n      const labelContext =\n      context.concat(i);\n      if (labels.length === 0) {\n        return labelContext.error(`Expected at least one\n      branch label.`);\n      }\n      for (const label of labels) {\n        if (typeof label !== 'number' && typeof label !== 'string')\n        {\n          return labelContext.error(`Branch labels must be numbers or strings.`);\n        } else if (typeof\n        label === 'number' && Math.abs(label) > Number.MAX_SAFE_INTEGER) {\n          return\n          labelContext.error(`Branch labels must be integers no larger than ${Number.MAX_SAFE_INTEGER}.`);\n        } else if (typeof label === 'number' && Math.floor(label) !== label) {\n          return\n          labelContext.error(`Numeric branch labels must be integer values.`);\n        } else if (!inputType) {\n          inputType = typeOf(label);\n        } else if (labelContext.checkSubtype(inputType, typeOf(label))) {\n          return\n          null;\n        }\n        if (typeof cases[String(label)] !== 'undefined') {\n          return\n          labelContext.error(`Branch\n        labels must be unique.`);\n        }\n        cases[String(label)] = outputs.length;\n      }\n      const\n      result = context.parse(value, i, outputType);\n      if (!result) return null;\n      outputType = outputType ||\n      result.type;\n      outputs.push(result);\n    }\n    const input = context.parse(args[1], 1, ValueType);\n    if (!input) return null;\n    const otherwise = context.parse(args[args.length - 1], args.length - 1, outputType);\n    if (!otherwise) return null;\n    assert(inputType && outputType);\n    if (input.type.kind !== 'value' &&\n    context.concat(1).checkSubtype((inputType: any), input.type)) {\n      return\n      null;\n    }\n    return\n    new\n    Match((inputType: any), (outputType: any), input, cases, outputs, otherwise);\n  }\n\n  evaluate(ctx:\n  EvaluationContext) {\n    const input = (this.input.evaluate(ctx): any);\n    const output = (typeOf(input) ===\n    this.inputType\n    && this.outputs[this.cases[input]]) || this.otherwise;\n    return\n    output.evaluate(ctx);\n  }\n\n  eachChild(fn:\n  (Expression) => void) {\n    fn(this.input);\n    this.outputs.forEach(fn);\n    fn(this.otherwise);\n  }\n\n  possibleOutputs(): Array<Value | void> {\n    return\n    [].concat(...this.outputs.map((out) =>\n    out.possibleOutputs()))\n    .concat(this.otherwise.possibleOutputs());\n  }\n\n  serialize(): Array<mixed> {\n    const serialized = ["match", this.input.serialize()];\n    // Sort so serialization has an arbitrary defined order,\n    even though\n    // branch order doesn't affect evaluation\n    const sortedLabels =\n    Object.keys(this.cases).sort();\n    // Group branches by unique match expression to support condensed\n    // serializations of the form [case1, case2, ...] -> matchExpression\n    const groupedByOutput: Array<[number,\n    Array<number | string>]> = [];\n    const\n    outputLookup:\n    {[index: number]: number} = {};\n    // lookup index into groupedByOutput for a given output expression\n    for\n    (const label of sortedLabels) {\n      const outputIndex = outputLookup[this.cases[label]];\n      if\n      (outputIndex === undefined) {\n        // First time seeing this output, add it to the end of the grouped list\n        outputLookup[this.cases[label]] = groupedByOutput.length;\n        groupedByOutput.push([this.cases[label],\n        [label]]);\n      } else {\n        // We've seen this expression before, add the label to that output's group\n        groupedByOutput[outputIndex][1].push(label);\n      }\n    }\n    const\n    coerceLabel = (label) =>\n    this.inputType.kind === 'number' ? Number(label) : label;\n    for (const [outputIndex, labels] of\n    groupedByOutput) {\n      if (labels.length === 1) {\n        // Only a single label matches this output\n        expression\n        serialized.push(coerceLabel(labels[0]));\n      } else {\n        // Array of literal labels pointing to this output expression\n        serialized.push(labels.map(coerceLabel));\n      }\n    }\n    serialized.push(this.outputs[outputIndex].serialize());\n    serialized.push(this.otherwise.serialize());\n  }

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return serialized;\n  }\n}\n\nexport default Match;\n", "// @flow\n\nimport assert from 'assert';\nimport\n{BooleanType} from '../types';\nimport type {Expression} from './expression';\nimport type ParsingContext from\n './parsing_context';\nimport type EvaluationContext from './evaluation_context';\nimport type {Value} from\n './values';\nimport type {Type} from '../types';\n\nntype Branches = Array<[Expression, Expression]>;\nnclass Case\n implements Expression {\n  type: Type;\n  branches: Branches;\n  otherwise: Expression;\n\n  constructor(type: Type, branches: Branches, otherwise: Expression) {\n    this.type = type;\n    this.branches = branches;\n    this.otherwise = otherwise;\n  }\n\n  static parse(args:\n $ReadOnlyArray<mixed>, context: ParsingContext) {\n    if (args.length < 4)\n      return\n      context.error(`Expected at least 3 arguments, but found only ${args.length - 1}.`);\n    if (args.length % 2 !== 0)\n      return context.error(`Expected an odd number of arguments.`);\n    let outputType: ?Type;\n    if\n      (context.expectedType && context.expectedType.kind !== 'value') {\n      outputType =\n      context.expectedType;\n    }\n\n    const branches = [];\n    for (let i = 1; i < args.length - 1; i += 2) {\n      const test = context.parse(args[i], i, BooleanType);\n      if (!test) return null;\n      const result =\n      context.parse(args[i + 1], i + 1, outputType);\n      if (!result) return null;\n      branches.push([test,\n      result]);\n      outputType = outputType || result.type;\n    }\n\n    const otherwise = context.parse(args[args.length - 1], args.length - 1, outputType);\n    if (!otherwise) return\n    null;\n    assert(outputType);\n    return new Case((outputType: any), branches, otherwise);\n  }\n\n  evaluate(ctx: EvaluationContext) {\n    for (const [test, expression] of this.branches) {\n      if\n      (test.evaluate(ctx)) {\n      return expression.evaluate(ctx);\n      }\n    }\n    return\n    this.otherwise.evaluate(ctx);\n  }\n\n  eachChild(fn: (Expression) => void) {\n    for (const [test, expression] of\n    this.branches) {\n      fn(test);\n      fn(expression);\n    }\n    fn(this.otherwise);\n  }\n\n  possibleOutputs(): Array<Value | void> {\n    return []\n      .concat(...this.branches.map(([, out]) =>\n      out.possibleOutputs()))\n      .concat(this.otherwise.possibleOutputs());\n  }\n\n  serialize() {\n    const\n    serialized = ["case"];\n    this.eachChild(child\n    => { serialized.push(child.serialize()); });\n    return serialized;\n  }\n}\n\nexport default Case;\n", "//\n@flow\n\nimport {toString, ValueType, BooleanType, CollatorType} from '../types';\nimport Assertion from\n './assertion';\nimport {typeof} from './values';\nimport RuntimeError from './runtime_error';\nimport type\n{Expression} from './expression';\nimport type EvaluationContext from './evaluation_context';\nimport type\nParsingContext from './parsing_context';\nimport type {Type} from '../types';\n\nntype ComparisonOperator = '===' |\n '!==' | '<' | '>' | '<=' | '>=';\n\nfunction isComparableType(op: ComparisonOperator, type: Type) {\n  if (op === '===' |\n  op === '!==') {\n    // equality operator\n    return type.kind === 'boolean' ||\n    type.kind === 'string' ||\n    type.kind === 'number' ||\n    type.kind === 'null' ||\n    type.kind === 'value';\n  } else {\n    //\n    ordering operator\n    return type.kind === 'string'\n    ||\n    type.kind === 'number' ||\n    type.kind === 'value';\n  }\n}\n\nfunction eq(ctx, a, b) { return a ===\n b; }\nfunction neq(ctx, a, b) { return a !== b; }\nfunction lt(ctx, a, b) { return a < b; }\nfunction gt(ctx, a, b) { return\n a > b; }\nfunction lteq(ctx, a, b) { return a <= b; }\nfunction gteq(ctx, a, b) { return a >= b; }\n\nfunction\n    eqCollate(ctx, a, b, c) { return c.compare(a, b) === 0; }\nfunction neqCollate(ctx, a, b, c) { return !eqCollate(ctx, a,\n    b, c); }\nfunction ltCollate(ctx, a, b, c) { return c.compare(a, b) < 0; }\nfunction gtCollate(ctx, a, b, c) { return\n    c.compare(a, b) > 0; }\nfunction lteqCollate(ctx, a, b, c) { return c.compare(a, b) <= 0; }\nfunction gteqCollate(ctx,\n    a, b, c) { return c.compare(a, b) >= 0; }\n\n/**\n * Special form for comparison operators, implementing the\n    signatures:\n    * - (T, T, ?Collator) => boolean\n    * - (T, value, ?Collator) => boolean\n    * - (value, T, ?Collator) =>\n    boolean\n    * For inequalities, T must be either\n    value, string, or number. For ===/!==, it\n    * can also be boolean or null.\n    * Equality semantics are equivalent to\n    Javascript's strict equality (===/!==)\n    * -- i.e., when the arguments' types don't match, == evaluates to false, != to\n    * true.\n    * When types don't match in an ordering comparison, a runtime error is thrown.\n    *\n    @private\n    *\n    ^\nfunction makeComparison(op: ComparisonOperator, compareBasic, compareWithCollator) {\n  const\n  isOrderComparison = op !== '===' && op !== '!==';\n  return class Comparison implements Expression {\n    type: Type;\n    lhs: Expression;\n    rhs: Expression;\n    collator: ?Expression;\n    hasUntypedArgument:

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boolean;\n\n    constructor(lhs: Expression, rhs: Expression, collator: ?Expression) {\n        this.type =
BooleanType;\n        this.lhs = lhs;\n        this.rhs = rhs;\n        this.collator = collator;\n
this.hasUntypedArgument = lhs.type.kind === 'value' || rhs.type.kind ===
'value';\n    }\n\n    static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n
if (args.length !== 3 && args.length !== 4)\n        return context.error(`Expected two or three
arguments.`);\n\n        const op: ComparisonOperator = (args[0]: any);\n        let lhs = context.parse(args[1],
1, ValueType);\n        if (!lhs) return null;\n        if (!isComparableType(op, lhs.type)) {\n            return
context.concat(1).error(`"${op}" comparisons are not supported for type '${toString(lhs.type)}'.`);\n        }\n
        let rhs = context.parse(args[2], 2, ValueType);\n        if (!rhs) return null;\n        if (!isComparableType(op,
rhs.type)) {\n            return context.concat(2).error(`"${op}" comparisons are not supported for type
'${toString(rhs.type)}'.`);\n        }\n\n        if (\n            lhs.type.kind !== rhs.type.kind &&\n
lhs.type.kind !== 'value'
&&\n            rhs.type.kind !== 'value'\n        ) {\n            return context.error(`Cannot compare types
'${toString(lhs.type)}' and '${toString(rhs.type)}'.`);\n        }\n\n        if (isOrderComparison) {\n            //
typing rules specific to less/greater than operators\n            if (lhs.type.kind === 'value' && rhs.type.kind !==
'value') {\n                // (value, T)\n                lhs = new Assertion(rhs.type, [lhs]);\n            } else if
(lhs.type.kind !== 'value' && rhs.type.kind === 'value') {\n                // (T, value)\n                rhs = new
Assertion(lhs.type, [rhs]);\n            }\n\n            let collator = null;\n            if (args.length === 4) {\n
                if (\n                    lhs.type.kind !== 'string' &&\n                    rhs.type.kind !== 'string' &&\n
lhs.type.kind !== 'value' &&\n                    rhs.type.kind !== 'value'\n                ) {\n                    return context.error(`Cannot use collator to compare non-string types.`);\n                }\n
                collator = context.parse(args[3], 3, CollatorType);\n                if (!collator) return null;\n            }\n\n            return new Comparison(lhs, rhs, collator);\n        }\n\n        evaluate(ctx: EvaluationContext) {\n            const lhs =
this.lhs.evaluate(ctx);\n            const rhs = this.rhs.evaluate(ctx);\n\n            if (isOrderComparison &&
this.hasUntypedArgument) {\n                const lt = typeOf(lhs);\n                const rt = typeOf(rhs);\n                //
check that type is string or number, and equal\n                if (lt.kind !== rt.kind || (lt.kind === 'string' || lt.kind ===
'number')) {\n                    throw new RuntimeError(`Expected arguments for "${op}" to be (string, string) or
(number, number), but found (${lt.kind}, ${rt.kind}) instead.`);\n                }\n            }\n\n            if (this.collator && !isOrderComparison && this.hasUntypedArgument) {\n                const lt = typeOf(lhs);\n                const rt = typeOf(rhs);\n                if (lt.kind !== 'string' || rt.kind !== 'string') {\n                    return
compareBasic(ctx, lhs, rhs);\n                }\n            }\n\n            return this.collator ?\n                compareWithCollator(ctx, lhs, rhs, this.collator.evaluate(ctx)) :\n                compareBasic(ctx, lhs, rhs);\n        }\n\n        eachChild(fn: (Expression) => void) {\n            fn(this.lhs);\n            fn(this.rhs);\n            if (this.collator) {\n                fn(this.collator);\n            }\n        }\n\n        possibleOutputs() {\n            return [true, false];\n        }\n\n        serialize() {\n            const serialized = [op];\n            this.eachChild(child => { serialized.push(child.serialize());
});\n            return serialized;\n        }\n    };\n\n    export const Equals = makeComparison('==',
eq, eqCollate);\n    export const NotEquals = makeComparison('!=', neq, neqCollate);\n    export const LessThan =
makeComparison('<', lt, ltCollate);\n    export const GreaterThan = makeComparison('>', gt, gtCollate);\n    export const
LessThanOrEqual = makeComparison('<=', lteq, lteqCollate);\n    export const GreaterThanOrEqual =
makeComparison('>=', gteq, gteqCollate);\n"}\n\n// @flow\n\nimport {StringType, NumberType} from
'./types';\n\nimport type {Expression} from './expression';\n\nimport type EvaluationContext from
'./evaluation_context';\n\nimport type ParsingContext from './parsing_context';\n\nimport type {Type} from
'./types';\n\ndeclare var Intl: {\n    NumberFormat: Class<Intl$NumberFormat>\n};\n\ndeclare class
Intl$NumberFormat {\n    constructor (\n        locales?: string | string[],\n        options?: NumberFormatOptions\n    ):\n    Intl$NumberFormat;\n\n    static (\n        locales?: string | string[],\n        options?: NumberFormatOptions\n    ):\n    Intl$NumberFormat;\n\n    format(a: number):\n    string;\n\n    resolvedOptions(): any;\n}\n\ntype NumberFormatOptions = {\n    style?: 'decimal' | 'currency' |
'percent';\n    currency?: null | string;\n    minimumFractionDigits?: null | string;\n    maximumFractionDigits?: null |

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string;\n};\n\nexport default class NumberFormat implements Expression {\n  type: Type;\n  number: Expression;\n  locale: Expression | null; // BCP 47 language tag\n  currency: Expression | null; // ISO 4217 currency code, required if style=currency\n  minFractionDigits: Expression | null; // Default 0\n  maxFractionDigits: Expression | null; // Default 3\n  constructor(number: Expression, locale: Expression | null, currency: Expression | null, minFractionDigits: Expression | null, maxFractionDigits: Expression | null) {\n    this.type = StringType;\n    this.number = number;\n    this.locale = locale;\n    this.currency = currency;\n    this.minFractionDigits = minFractionDigits;\n    this.maxFractionDigits = maxFractionDigits;\n  }\n  static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n    if (args.length !== 3)\n      return context.error(`Expected two arguments.`);\n    const number = context.parse(args[1], 1, NumberType);\n    if (!number) return null;\n    const options = (args[2]: any);\n    if (typeof options !== \"object\" || Array.isArray(options))\n      return context.error(`NumberFormat options argument must be an object.`);\n    let locale = null;\n    if (options['locale']) {\n      locale = context.parse(options['locale'], 1, StringType);\n      if (!locale) return null;\n    }\n    let currency = null;\n    if (options['currency']) {\n      currency = context.parse(options['currency'], 1, StringType);\n      if (!currency) return null;\n    }\n    let minFractionDigits = null;\n    if (options['min-fraction-digits']) {\n      minFractionDigits = context.parse(options['min-fraction-digits'], 1, NumberType);\n      if (!minFractionDigits) return null;\n    }\n    let maxFractionDigits = null;\n    if (options['max-fraction-digits']) {\n      maxFractionDigits = context.parse(options['max-fraction-digits'], 1, NumberType);\n      if (!maxFractionDigits) return null;\n    }\n    return new NumberFormat(number, locale, currency, minFractionDigits, maxFractionDigits);\n  }\n  evaluate(ctx: EvaluationContext) {\n    return new Intl.NumberFormat(this.locale ? this.locale.evaluate(ctx) : [], {\n      style: this.currency ? \"currency\" : \"decimal\", \n      currency: this.currency ? this.currency.evaluate(ctx) : undefined, \n      minimumFractionDigits: this.minFractionDigits ? this.minFractionDigits.evaluate(ctx) : undefined, \n      maximumFractionDigits: this.maxFractionDigits ? this.maxFractionDigits.evaluate(ctx) : undefined, \n    }).format(this.number.evaluate(ctx));\n  }\n  eachChild(fn: (Expression) => void) {\n    fn(this.number);\n    if (this.locale) {\n      fn(this.locale);\n    }\n    if (this.currency) {\n      fn(this.currency);\n    }\n    if (this.minFractionDigits) {\n      fn(this.minFractionDigits);\n    }\n    if (this.maxFractionDigits) {\n      fn(this.maxFractionDigits);\n    }\n  }\n  possibleOutputs() {\n    return [undefined];\n  }\n  serialize() {\n    const options = {};\n    if (this.locale) {\n      options['locale'] = this.locale.serialize();\n    }\n    if (this.currency) {\n      options['currency'] = this.currency.serialize();\n    }\n    if (this.minFractionDigits) {\n      options['min-fraction-digits'] = this.minFractionDigits.serialize();\n    }\n    if (this.maxFractionDigits) {\n      options['max-fraction-digits'] = this.maxFractionDigits.serialize();\n    }\n    return [\"number-format\", this.number.serialize(), options];\n  }\n}\n\n\"/\" @flow\n\nimport { NumberType, toString } from './types';\n\nimport { typeOf } from './values';\n\nimport RuntimeError from './runtime_error';\n\nimport type { Expression } from './expression';\n\nimport type ParsingContext from './parsing_context';\n\nimport type EvaluationContext from './evaluation_context';\n\nimport type { Type } from './types';\n\n\nclass Length implements Expression {\n  type: Type;\n  input: Expression;\n\n  constructor(input: Expression) {\n    this.type = NumberType;\n    this.input = input;\n  }\n\n  static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n    if (args.length !== 2)\n      return context.error(`Expected 1 argument, but found ${args.length - 1} instead.`);\n    const input = context.parse(args[1], 1);\n    if (!input) return null;\n    if (input.type.kind !== 'array' && input.type.kind !== 'string' && input.type.kind !== 'value')\n      return context.error(`Expected argument of type string or array, but found ${toString(input.type)} instead.`);\n    return new Length(input);\n  }\n\n  evaluate(ctx: EvaluationContext) {\n    const input = this.input.evaluate(ctx);\n    if (typeof input === 'string') {\n      return input.length;\n    } else if (Array.isArray(input)) {\n      return input.length;\n    } else {\n      throw new RuntimeError(`Expected value to be of type string or array, but found ${toString(typeOf(input))} instead.`);\n    }\n  }\n}

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}\n }\n\n eachChild(fn: (Expression) => void) {\n   fn(this.input);\n }\n\n possibleOutputs() {\n   return
[undefined];\n }\n\n serialize() {\n   const serialized = [\"length\"];\n   this.eachChild(child => {
serialized.push(child.serialize()); });\n
   return serialized;\n }\n}\n\nexport default Length;\n\"\",// @flow\n\nimport {\n  type Type,\n  NumberType,\n  StringType,\n  BooleanType,\n  ColorType,\n  ObjectType,\n  ValueType,\n  ErrorType,\n  CollatorType,\n  array,\n  toString as typeToString\n} from './types';\n\nimport {typeOf, Color, validateRGBA, toString as
valueToString} from './values';\n\nimport CompoundExpression from './compound_expression';\n\nimport
RuntimeError from './runtime_error';\n\nimport Let from './let';\n\nimport Var from './var';\n\nimport Literal from
 './literal';\n\nimport Assertion from './assertion';\n\nimport Coercion from './coercion';\n\nimport At from './at';\n\nimport In
from './in';\n\nimport Match from './match';\n\nimport Case from './case';\n\nimport Step from './step';\n\nimport Interpolate
from './interpolate';\n\nimport Coalesce from './coalesce';\n\nimport {\n  Equals,\n  NotEquals,\n  LessThan,\n  GreaterThan,\n  LessThanOrEqual,\n  GreaterThanOrEqual\n} from './comparison';\n\nimport
CollatorExpression from './collator';\n\nimport NumberFormat from './number_format';\n\nimport FormatExpression
from './format';\n\nimport ImageExpression from './image';\n\nimport Length from './length';\n\nimport type {Varargs}
from './compound_expression';\n\nimport type {ExpressionRegistry} from './expression';\n\nconst expressions:
ExpressionRegistry = {\n  // special forms\n  '==': Equals,\n  '!=': NotEquals,\n  '>': GreaterThan,\n  '<':
LessThan,\n  '>=': GreaterThanOrEqual,\n  '<=': LessThanOrEqual,\n  'array': Assertion,\n  'at': At,\n  'boolean': Assertion,\n  'case': Case,\n  'coalesce': Coalesce,\n  'collator': CollatorExpression,\n  'format':
FormatExpression,\n  'image': ImageExpression,\n  'in': In,\n  'interpolate': Interpolate,\n  'interpolate-hcl':
Interpolate,\n  'interpolate-lab': Interpolate,\n  'length': Length,\n  'let': Let,\n  'literal': Literal,\n  'match':
Match,\n  'number': Assertion,\n  'number-format': NumberFormat,\n
  'object': Assertion,\n  'step': Step,\n  'string': Assertion,\n  'to-boolean': Coercion,\n  'to-color': Coercion,\n
  'to-number': Coercion,\n  'to-string': Coercion,\n  'var': Var\n};\n\nfunction rgba(ctx, [r, g, b, a]) {\n  r =
r.evaluate(ctx);\n  g = g.evaluate(ctx);\n  b = b.evaluate(ctx);\n  const alpha = a ? a.evaluate(ctx) : 1;\n  const
error = validateRGBA(r, g, b, alpha);\n  if (error) throw new RuntimeError(error);\n  return new Color(r / 255 *
alpha, g / 255 * alpha, b / 255 * alpha, alpha);\n}\n\nfunction has(key, obj) {\n  return key in obj;\n}\n\nfunction
get(key, obj) {\n  const v = obj[key];\n  return typeof v === 'undefined' ? null : v;\n}\n\nfunction binarySearch(v,
a, i, j) {\n  while (i <= j) {\n    const m = (i + j) >> 1;\n    if (a[m] === v)\n      return true;\n    if (a[m] >
v)\n      j = m - 1;\n    else\n      i = m + 1;\n  }\n  return false;\n}\n\nfunction varargs(type: Type):
Varargs {\n  return {type};\n}\n\nCompoundExpression.register(expressions, {\n  'error': [\n    ErrorType,\n
[StringType],\n    (ctx, [v]) => { throw new RuntimeError(v.evaluate(ctx)); }\n  ],\n  'typeof': [\n
StringType,\n    [ValueType],\n    (ctx, [v]) => typeToString(typeOf(v.evaluate(ctx)))\n  ],\n  'to-rgba': [\n
array(NumberType, 4),\n    [ColorType],\n    (ctx, [v]) => {\n      return v.evaluate(ctx).toArray();\n    }\n  ],\n
  'rgb': [\n    ColorType,\n    [NumberType, NumberType, NumberType],\n    rgba\n  ],\n  'rgba': [\n
ColorType,\n    [NumberType, NumberType, NumberType, NumberType],\n    rgba\n  ],\n  'has': {\n
type: BooleanType,\n    overloads: [\n      [\n        [StringType],\n        (ctx, [key]) =>
has(key.evaluate(ctx), ctx.properties())\n      ],\n      [\n        [StringType, ObjectType],\n        (ctx, [key,
obj]) => has(key.evaluate(ctx), obj.evaluate(ctx))\n      ]\n    ],\n    'get': {\n      type: ValueType,\n
overloads: [\n        [\n          [StringType],\n          (ctx, [key]) => get(key.evaluate(ctx), ctx.properties())\n
        ],\n        [\n          [StringType, ObjectType],\n          (ctx, [key, obj]) => get(key.evaluate(ctx),
obj.evaluate(ctx))\n        ]\n      ],\n    },\n  'feature-state': [\n    ValueType,\n    [StringType],\n    (ctx,
[key]) => get(key.evaluate(ctx), ctx.featureState || {})\n  ],\n  'properties': [\n    ObjectType,\n    [],\n
(ctx) => ctx.properties()\n  ],\n  'geometry-type': [\n    StringType,\n    [],\n    (ctx) =>
ctx.geometryType()\n  ],\n  'id': [\n    ValueType,\n    [],\n    (ctx) => ctx.id()\n  ],\n  'zoom': [\n
NumberType,\n    [],\n    (ctx) => ctx.globals.zoom\n  ],\n  'heatmap-density': [\n
NumberType,\n    [],\n    (ctx) => ctx.globals.heatmapDensity || 0\n  ],\n  'line-progress': [\n
NumberType,\n    [],\n    (ctx) => ctx.globals.lineProgress || 0\n  ],\n  'accumulated': [\n    ValueType,\n
[],\n    (ctx) => ctx.globals.accumulated === undefined ? null : ctx.globals.accumulated\n  ],\n  '+': [\n

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NumberType,\n    varargs(NumberType),\n    (ctx, args) => {\n        let result = 0;\n        for (const arg of\nargs) {\n            result += arg.evaluate(ctx);\n        }\n        return result;\n    }\n },\n '*': [\nNumberType,\n    varargs(NumberType),\n    (ctx, args) => {\n        let result = 1;\n        for (const arg of\nargs) {\n            result *= arg.evaluate(ctx);\n        }\n        return result;\n    }\n ],\n '-': {\n    type:\nNumberType,\n    overloads: [\n        [\n            [NumberType, NumberType],\n            (ctx,\n[a]) => -a.evaluate(ctx)\n        ],\n        [\n            [NumberType],\n            (ctx,\n[a, b]) => a.evaluate(ctx) - b.evaluate(ctx)\n        ],\n        [\n            [NumberType, NumberType],\n            (ctx,\n[a, b]) => a.evaluate(ctx) / b.evaluate(ctx)\n        ],\n        [\n            NumberType,\n            [NumberType, NumberType],\n            (ctx,\n[a, b]) => a.evaluate(ctx) % b.evaluate(ctx)\n        ],\n        [\n            NumberType,\n            [NumberType,\nNumberType],\n            (ctx,\n[a, b]) => Math.LN2\n        ],\n        [\n            NumberType,\n            [],\n            () => Math.PI\n        ],\n        [\n            NumberType,\n            [NumberType,\nNumberType],\n            (ctx,\n[b, e]) => Math.pow(b.evaluate(ctx), e.evaluate(ctx))\n        ],\n        [\n            NumberType,\n            [NumberType],\n            (ctx,\n[x]) => Math.sqrt(x.evaluate(ctx))\n        ],\n        [\n            NumberType,\n            [NumberType],\n            (ctx,\n[n]) => Math.log(n.evaluate(ctx)) / Math.LN10\n        ],\n        [\n            NumberType,\n            [NumberType],\n            (ctx,\n[n]) => Math.log(n.evaluate(ctx))\n        ],\n        [\n            NumberType,\n            [NumberType],\n            (ctx,\n[n]) => Math.log(n.evaluate(ctx)) / Math.LN2\n        ],\n        [\n            NumberType,\n            [NumberType],\n            (ctx,\n[n]) => Math.sin(n.evaluate(ctx))\n        ],\n        [\n            NumberType,\n            [NumberType],\n            (ctx,\n[n]) => Math.cos(n.evaluate(ctx))\n        ],\n        [\n            NumberType,\n            [NumberType],\n            (ctx,\n[n]) => Math.tan(n.evaluate(ctx))\n        ],\n        [\n            NumberType,\n            [NumberType],\n            (ctx,\n[n]) => Math.asin(n.evaluate(ctx))\n        ],\n        [\n            NumberType,\n            [NumberType],\n            (ctx,\n[n]) => Math.acos(n.evaluate(ctx))\n        ],\n        [\n            NumberType,\n            [NumberType],\n            (ctx,\n[n]) => Math.atan(n.evaluate(ctx))\n        ],\n        [\n            NumberType,\n            varargs(NumberType),\n            (ctx, args) => Math.min(...args.map(arg =>\narg.evaluate(ctx)))\n        ],\n        [\n            NumberType,\n            varargs(NumberType),\n            (ctx, args) =>\nMath.max(...args.map(arg => arg.evaluate(ctx)))\n        ],\n        [\n            NumberType,\n            [NumberType],\n            (ctx,\n[n]) => Math.abs(n.evaluate(ctx))\n        ],\n        [\n            NumberType,\n            [NumberType],\n            (ctx,\n[n]) => {\n                const v = n.evaluate(ctx);\n                // Javascript's Math.round() rounds towards +Infinity for\nhalfway\n                // values, even when they're negative. It's more common to round\n                // away from 0 (e.g., this\n                // is what python and C++ do)\n                return v < 0 ? -Math.round(-v) : Math.round(v);\n            }\n        ],\n        [\n            NumberType,\n            [NumberType],\n            (ctx,\n[n]) => Math.floor(n.evaluate(ctx))\n        ],\n        [\n            NumberType,\n            [NumberType],\n            (ctx,\n[n]) => Math.ceil(n.evaluate(ctx))\n        ],\n        [\n            BooleanType,\n            [StringType, ValueType],\n            (ctx,\n[k, v]) => ctx.properties()[k].value === (v:\nany).value\n        ],\n        [\n            BooleanType,\n            [ValueType],\n            (ctx,\n[v]) => ctx.id() === (v:\nany).value\n        ],\n        [\n            BooleanType,\n            [StringType],\n            (ctx,\n[v]) =>\nctx.geometryType() === (v: any).value\n        ],\n        [\n            BooleanType,\n            [StringType, ValueType],\n            (ctx,\n[k, v]) => {\n                const a = ctx.properties()[k].value;\n                const b = (v: any).value;\n                return typeof a === typeof b && a < b;\n            }\n        ],\n        [\n            BooleanType,\n            [ValueType],\n            (ctx,\n[v]) => {\n                const a = ctx.id();\n                const b = (v: any).value;\n                return typeof a === typeof\nb && a < b;\n            }\n        ],\n        [\n            BooleanType,\n            [StringType, ValueType],\n            (ctx,\n[k, v])\n=> {\n                const a = ctx.properties()[k].value;\n                const b = (v: any).value;\n                return typeof a\n=== typeof b && a > b;\n            }\n        ],\n        [\n            BooleanType,\n            [ValueType],\n            (ctx,\n[v]) =>\n{\n                const a = ctx.id();\n                const b = (v: any).value;\n                return typeof a === typeof b && a > b;\n            }\n        ],\n        [\n            BooleanType,\n            [StringType, ValueType],\n            (ctx,\n[k, v]) => {\n                const\na = ctx.properties()[k].value;\n                const b = (v: any).value;\n                return typeof a === typeof b && a <=\nb;\n            }\n        ],\n        [\n            BooleanType,\n            [ValueType],\n            (ctx,\n[v]) => {\n                const a =\nctx.id();\n                const b = (v: any).value;\n                return typeof

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a === typeof b && a <= b;\n    }\n ],\n 'filter->': [\n    BooleanType,\n    [StringType, ValueType],\n    (ctx, [k, v]) => {\n        const a = ctx.properties()[(k: any).value];\n        const b = (v: any).value;\n    return typeof a === typeof b && a >= b;\n    }\n ],\n 'filter-id->': [\n    BooleanType,\n    [ValueType],\n    (ctx, [v]) => {\n        const a = ctx.id();\n        const b = (v: any).value;\n        return typeof a === typeof b && a >= b;\n    }\n ],\n 'filter-has': [\n    BooleanType,\n    [ValueType],\n    (ctx, [k]) => (k: any).value in ctx.properties()\n ],\n 'filter-has-id': [\n    BooleanType,\n    [],\n    (ctx) => ctx.id() !== null\n ],\n 'filter-type-in': [\n    BooleanType,\n    [array(StringType)],\n    (ctx, [v]) => (v: any).value.indexOf(ctx.geometryType()) >= 0\n ],\n 'filter-id-in': [\n    BooleanType,\n    [array(ValueType)],\n    (ctx, [v]) => (v: any).value.indexOf(ctx.id()) >= 0\n ],\n 'filter-in-small': [\n    BooleanType,\n    [StringType, array(ValueType)],\n    // assumes v is an array literal\n    (ctx, [k, v]) => (v: any).value.indexOf(ctx.properties()[(k: any).value]) >= 0\n ],\n 'filter-in-large': [\n    BooleanType,\n    [StringType, array(ValueType)],\n    // assumes v is a array literal with values sorted in ascending order and of a single type\n    (ctx, [k, v]) => binarySearch(ctx.properties()[(k: any).value], (v: any).value, 0, (v: any).value.length - 1)\n ],\n 'all': {\n    type: BooleanType,\n    overloads: [\n        [\n            [BooleanType, BooleanType],\n            (ctx, [a, b]) => a.evaluate(ctx) && b.evaluate(ctx)\n        ],\n        [\n            varargs(BooleanType),\n            (ctx, args) => {\n                for (const arg of args) {\n                    if (!arg.evaluate(ctx))\n                        return false;\n                }\n                return true;\n            }\n        ]\n    ],\n    '\n ],\n 'any': {\n    type: BooleanType,\n    overloads: [\n        [\n            [BooleanType, BooleanType],\n            (ctx, [a, b]) => a.evaluate(ctx) || b.evaluate(ctx)\n        ],\n        [\n            varargs(BooleanType),\n            (ctx, args) => {\n                for (const arg of args) {\n                    if (arg.evaluate(ctx))\n                        return true;\n                }\n                return false;\n            }\n        ]\n    ]\n },\n '!': [\n    BooleanType,\n    [BooleanType],\n    (ctx, [b]) => !b.evaluate(ctx)\n ],\n 'is-supported-script': [\n    BooleanType,\n    [StringType],\n    // At parse time this will always return true, so we need to exclude this expression with\n    isGlobalPropertyConstant\n    (ctx, [s]) => {\n        const isSupportedScript = ctx.globals && ctx.globals.isSupportedScript;\n        if (isSupportedScript) {\n            return isSupportedScript(s.evaluate(ctx));\n        }\n        return true;\n    }\n ],\n 'uppercase': [\n    StringType,\n    [StringType],\n    (ctx, [s]) => s.evaluate(ctx).toUpperCase()\n ],\n 'downcase': [\n    StringType,\n    [StringType],\n    (ctx, [s]) => s.evaluate(ctx).toLowerCase()\n ],\n 'concat': [\n    StringType,\n    varargs(ValueType),\n    (ctx, args) => args.map(arg => valueToString(arg.evaluate(ctx))).join("\n ],\n 'resolved-locale': [\n    StringType,\n    [CollatorType],\n    (ctx, [collator]) => collator.evaluate(ctx).resolvedLocale()\n ]});\n\nexport default expressions;\n", "// @flow\n\n/**\n * A type used for returning and propagating errors. The first element of the union\n * represents success and contains a value, and the second represents an error and\n * contains an error value.\n * @private\n */\nexport type Result<T, E> =\n    | {\n        result: 'success',\n        value: T\n    }\n    | {\n        result: 'error',\n        value: E\n    };\n\nexport function success<T, E>(value: T): Result<T, E> {\n    return {\n        result: 'success',\n        value\n    };\n}\n\nexport function error<T, E>(value: E): Result<T, E> {\n    return {\n        result: 'error',\n        value\n    };\n}\n\n", "// @flow\n\nimport type {StylePropertySpecification} from './style-spec';\n\nexport function supportsPropertyExpression(spec: StylePropertySpecification): boolean {\n    return spec['property-type'] === 'data-driven' || spec['property-type'] === 'cross-faded-data-driven';\n}\n\nexport function supportsZoomExpression(spec: StylePropertySpecification): boolean {\n    return !!spec.expression && spec.expression.parameters.indexOf('zoom') > -1;\n}\n\nexport function supportsInterpolation(spec: StylePropertySpecification): boolean {\n    return !!spec.expression && spec.expression.interpolated;\n}\n\n", "// @flow\n\nexport default function getType(val: mixed): string {\n    if (val instanceof Number) {\n        return 'number';\n    } else if (val instanceof String) {\n        return 'string';\n    } else if (val instanceof Boolean) {\n        return 'boolean';\n    } else if (Array.isArray(val)) {\n        return 'array';\n    } else if (val === null) {\n        return 'null';\n    } else {\n        return typeof val;\n    }\n}\n\n", "\nimport * as colorSpaces from './util/color_spaces';\nimport

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Color from './util/color';\nimport extend from './util/extend';\nimport getType from './util/get_type';\nimport * as
interpolate from './util/interpolate';\nimport Interpolate from './expression/definitions/interpolate';\nimport
Formatted from './expression/types/formatted';\nimport ResolvedImage from
 './expression/types/resolved_image';\nimport {supportsInterpolation} from './util/properties';\nimport
{findStopLessThanOrEqualTo} from './expression/stops';\n\nexport
function isFunction(value) {\n  return typeof value === 'object' && value !== null &&
!Array.isArray(value);\n}\n\nfunction identityFunction(x) {\n  return x;\n}\n\nexport function
createFunction(parameters, propertySpec) {\n  const isColor = propertySpec.type === 'color';\n  const
zoomAndFeatureDependent = parameters.stops && typeof parameters.stops[0][0] === 'object';\n  const
featureDependent = zoomAndFeatureDependent || parameters.property !== undefined;\n  const zoomDependent =
zoomAndFeatureDependent || !featureDependent;\n  const type = parameters.type ||
(supportsInterpolation(propertySpec) ? 'exponential' : 'interval');\n\n  if (isColor) {\n    parameters = extend({},
parameters);\n\n    if (parameters.stops) {\n      parameters.stops = parameters.stops.map((stop) => {\n
return [stop[0], Color.parse(stop[1])];\n      });\n    }\n\n    if (parameters.default) {\n
parameters.default = Color.parse(parameters.default);\n    }\n\n    } else {\n      parameters.default = Color.parse(propertySpec.default);\n    }\n  }\n\n  if
(parameters.colorSpace && parameters.colorSpace !== 'rgb' && !colorSpaces[parameters.colorSpace]) { // eslint-
disable-line import/namespace\n    throw new Error(`Unknown color space: ${parameters.colorSpace}`);\n  }\n\n  let innerFun;\n  let hashedStops;\n  let categoricalKeyType;\n  if (type === 'exponential') {\n
innerFun = evaluateExponentialFunction;\n  } else if (type === 'interval') {\n    innerFun =
evaluateIntervalFunction;\n  } else if (type === 'categorical') {\n    innerFun = evaluateCategoricalFunction;\n\n
// For categorical functions, generate an Object as a hashmap of the stops for fast searching\n    hashedStops =
Object.create(null);\n    for (const stop of parameters.stops) {\n      hashedStops[stop[0]] = stop[1];\n    }\n\n    // Infer key type based on first stop key--
used to enforce strict type checking later\n    categoricalKeyType = typeof parameters.stops[0][0];\n\n  } else if
(type === 'identity') {\n    innerFun = evaluateIdentityFunction;\n  } else {\n    throw new Error(`Unknown
function type \"${type}\"`);\n  }\n\n  if (zoomAndFeatureDependent) {\n    const featureFunctions = {};\n
const zoomStops = [];\n    for (let s = 0; s < parameters.stops.length; s++) {\n      const stop =
parameters.stops[s];\n      const zoom = stop[0].zoom;\n      if (featureFunctions[zoom] === undefined) {\n
featureFunctions[zoom] = {\n        zoom,\n        type: parameters.type,\n        property:
parameters.property,\n        default: parameters.default,\n        stops: []\n      };\n
zoomStops.push(zoom);\n      featureFunctions[zoom].stops.push([stop[0].value, stop[1]]);\n    }\n\n
const featureFunctionStops = [];\n    for (const z of zoomStops) {\n
featureFunctionStops.push([featureFunctions[z].zoom, createFunction(featureFunctions[z], propertySpec)]);\n
}\n\n    const interpolationType = {name: 'linear'};\n    return {\n      kind: 'composite',\n
interpolationType,\n      interpolationFactor: Interpolate.interpolationFactor.bind(undefined,
interpolationType),\n      zoomStops: featureFunctionStops.map(s => s[0]),\n      evaluate: ({ zoom },
properties) {\n        return evaluateExponentialFunction({\n          stops: featureFunctionStops,\n
base: parameters.base\n        }, propertySpec, zoom).evaluate(zoom, properties);\n      }\n    };\n  } else
if (zoomDependent) {\n    const interpolationType = type === 'exponential' ? {name: 'exponential', base:
parameters.base !== undefined ? parameters.base : 1} : null;\n    return
{\n      kind: 'camera',\n      interpolationType,\n      interpolationFactor:
Interpolate.interpolationFactor.bind(undefined, interpolationType),\n      zoomStops: parameters.stops.map(s =>
s[0]),\n      evaluate: ({ zoom }) => innerFun(parameters, propertySpec, zoom, hashedStops,
categoricalKeyType)\n    };\n  } else {\n    return {\n      kind: 'source',\n      evaluate(_, feature) {\n
const value = feature && feature.properties ? feature.properties[parameters.property] : undefined;\n      if
(value === undefined) {\n        return coalesce(parameters.default, propertySpec.default);\n      }\n

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lowerValue;\n  const progress = input - lowerValue;\n\n  if (difference === 0) {\n    return 0;\n  } else if (base
=== 1) {\n    return progress / difference;\n  } else {\n    return (Math.pow(base, progress) - 1) /
(Math.pow(base, difference) - 1);\n  }\n}\n", "// @flow\n\nimport assert from 'assert';\n\nimport extend from
'./util/extend';\nimport ParsingError from './parsing_error';\nimport ParsingContext from
'./parsing_context';\nimport EvaluationContext from './evaluation_context';\nimport CompoundExpression from
'./compound_expression';\nimport Step from './definitions/step';\nimport Interpolate from
'./definitions/interpolate';\nimport Coalesce from './definitions/coalesce';\nimport Let from './definitions/let';\nimport
definitions from './definitions';\nimport * as isConstant from './is_constant';\nimport RuntimeError from
'./runtime_error';\nimport {success, error} from './util/result';\nimport {supportsPropertyExpression,
supportsZoomExpression, supportsInterpolation}
from './util/properties';\n\nimport type {Type, EvaluationKind} from './types';\nimport type {Value} from
'./values';\nimport type {Expression} from './expression';\nimport type {StylePropertySpecification} from './style-
spec';\nimport type {Result} from './util/result';\nimport type {InterpolationType} from
'./definitions/interpolate';\nimport type {PropertyValueSpecification} from './types';\nimport type
{FormattedSection} from './types/formatted';\n\nexport type Feature = {\n  +type: 1 | 2 | 3 | 'Unknown' | 'Point' |
'MultiPoint' | 'LineString' | 'MultiLineString' | 'Polygon' | 'MultiPolygon',\n  +id?: any,\n  +properties: {[string]:
any},\n  +patterns?: {[string]: {"min": string, "mid": string, "max": string}}\n};\n\nexport type FeatureState =
{[string]: any};\n\nexport type GlobalProperties = $ReadOnly<{\n  zoom: number,\n  heatmapDensity?:
number,\n  lineProgress?: number,\n  isSupportedScript?: (string) => boolean,\n  accumulated?:
Value\n}>;\n\nexport
class StyleExpression {\n  expression: Expression;\n\n  _evaluator: EvaluationContext;\n  _defaultValue:
Value;\n  _warningHistory: {[key: string]: boolean};\n  _enumValues: ?{[string]: any};\n\n  constructor(expression: Expression, propertySpec: ?StylePropertySpecification) {\n    this.expression =
expression;\n    this._warningHistory = {};\n    this._evaluator = new EvaluationContext();\n    this._defaultValue = propertySpec ? getDefaultValue(propertySpec) : null;\n    this._enumValues = propertySpec
&& propertySpec.type === 'enum' ? propertySpec.values : null;\n  }\n\n  evaluateWithoutErrorHandling(globals:
GlobalProperties, feature?: Feature, featureState?: FeatureState, availableImages?: Array<string>,
formattedSection?: FormattedSection): any {\n    this._evaluator.globals = globals;\n    this._evaluator.feature =
feature;\n    this._evaluator.featureState = featureState;\n    this._evaluator.availableImages
= availableImages || null;\n    this._evaluator.formattedSection = formattedSection;\n\n    return
this.expression.evaluate(this._evaluator);\n  }\n\n  evaluate(globals: GlobalProperties, feature?: Feature,
featureState?: FeatureState, availableImages?: Array<string>, formattedSection?: FormattedSection): any {\n
this._evaluator.globals = globals;\n    this._evaluator.feature = feature || null;\n    this._evaluator.featureState =
featureState || null;\n    this._evaluator.availableImages = availableImages || null;\n    this._evaluator.formattedSection = formattedSection || null;\n\n    try {\n      const val =
this.expression.evaluate(this._evaluator);\n      // eslint-disable-next-line no-self-compare\n      if (val ===
null || val === undefined || (typeof val === 'number' && val !== val)) {\n        return this._defaultValue;\n      }\n      if (this._enumValues && !(val in this._enumValues)) {\n
throw new RuntimeError(`Expected value to be one of ${Object.keys(this._enumValues).map(v =>
JSON.stringify(v)).join(', ')}, but found ${JSON.stringify(val)} instead.`);\n      }\n      return val;\n    }
catch (e) {\n      if (!this._warningHistory[e.message]) {\n        this._warningHistory[e.message] = true;\n        if (typeof console !== 'undefined') {\n          console.warn(e.message);\n        }\n      }\n    }\n    return this._defaultValue;\n  }\n}\n\nexport function isExpression(expression: mixed) {\n  return
Array.isArray(expression) && expression.length > 0 &&\n  typeof expression[0] === 'string' && expression[0]
in definitions;\n}\n\n/**\n * Parse and typecheck the given style spec JSON expression. If\n * options.defaultValue
is provided, then the resulting StyleExpression's\n * `evaluate()` method will handle errors by logging a warning
(once per\n * message) and returning the default

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value. Otherwise, it will throw\n * evaluation errors.\n *\n * @private\n */\nexport function
createExpression(expression: mixed, propertySpec: ?StylePropertySpecification): Result<StyleExpression,
Array<ParsingError>> {\n  const parser = new ParsingContext(definitions, [], propertySpec ?
getExpectedType(propertySpec) : undefined);\n\n  // For string-valued properties, coerce to string at the top level
rather than asserting.\n  const parsed = parser.parse(expression, undefined, undefined, undefined,\npropertySpec && propertySpec.type === 'string' ? {typeAnnotation: 'coerce'} : undefined);\n\n  if (!parsed) {\n
assert(parser.errors.length > 0);\n    return error(parser.errors);\n  }\n\n  return success(new
StyleExpression(parsed, propertySpec));\n}\n\nexport class ZoomConstantExpression<Kind: EvaluationKind> {\n
kind: Kind;\n  isStateDependent: boolean;\n  _styleExpression: StyleExpression;\n\n  constructor(kind: Kind,
expression: StyleExpression)\n  {\n    this.kind = kind;\n    this._styleExpression = expression;\n    this.isStateDependent = kind !==
('constant': EvaluationKind) && !isConstant.isStateConstant(expression.expression);\n  }\n\n  evaluateWithoutErrorHandling(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState,
availableImages?: Array<string>, formattedSection?: FormattedSection): any {\n    return
this._styleExpression.evaluateWithoutErrorHandling(globals, feature, featureState, availableImages,
formattedSection);\n  }\n\n  evaluate(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState,
availableImages?: Array<string>, formattedSection?: FormattedSection): any {\n    return
this._styleExpression.evaluate(globals, feature, featureState, availableImages, formattedSection);\n  }\n}\n\nexport
class ZoomDependentExpression<Kind: EvaluationKind> {\n  kind: Kind;\n  zoomStops: Array<number>;\n
isStateDependent: boolean;\n\n  _styleExpression:
StyleExpression;\n  interpolationType: ?InterpolationType;\n\n  constructor(kind: Kind, expression:
StyleExpression, zoomStops: Array<number>, interpolationType?: InterpolationType) {\n    this.kind = kind;\n
this.zoomStops = zoomStops;\n    this._styleExpression = expression;\n    this.isStateDependent = kind !==
('camera': EvaluationKind) && !isConstant.isStateConstant(expression.expression);\n    this.interpolationType =
interpolationType;\n  }\n\n  evaluateWithoutErrorHandling(globals: GlobalProperties, feature?: Feature,
featureState?: FeatureState, availableImages?: Array<string>, formattedSection?: FormattedSection): any {\n
return this._styleExpression.evaluateWithoutErrorHandling(globals, feature, featureState, availableImages,
formattedSection);\n  }\n\n  evaluate(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState,
availableImages?: Array<string>, formattedSection?: FormattedSection): any {\n    return
this._styleExpression.evaluate(globals,
feature, featureState, availableImages, formattedSection);\n  }\n\n  interpolationFactor(input: number, lower:
number, upper: number): number {\n    if (this.interpolationType) {\n      return
Interpolate.interpolationFactor(this.interpolationType, input, lower, upper);\n    } else {\n      return 0;\n
}\n  }\n}\n\nexport type ConstantExpression = {\n  kind: 'constant',\n  +evaluate: (globals: GlobalProperties,
feature?: Feature, featureState?: FeatureState, availableImages?: Array<string>) => any,\n}\n\nexport type
SourceExpression = {\n  kind: 'source',\n  isStateDependent: boolean,\n  +evaluate: (globals: GlobalProperties,
feature?: Feature, featureState?: FeatureState, availableImages?: Array<string>, formattedSection?:
FormattedSection) => any,\n};\n\nexport type CameraExpression = {\n  kind: 'camera',\n  +evaluate: (globals:
GlobalProperties, feature?: Feature, featureState?: FeatureState, availableImages?:
Array<string>) => any,\n  +interpolationFactor: (input: number, lower: number, upper: number) => number,\n
zoomStops: Array<number>,\n  interpolationType: ?InterpolationType\n};\n\nexport type CompositeExpression =
{\n  kind: 'composite',\n  isStateDependent: boolean,\n  +evaluate: (globals: GlobalProperties, feature?: Feature,
featureState?: FeatureState, availableImages?: Array<string>, formattedSection?: FormattedSection) => any,\n
+interpolationFactor: (input: number, lower: number, upper: number) => number,\n  zoomStops:
Array<number>,\n  interpolationType: ?InterpolationType\n};\n\nexport type StylePropertyExpression =\n |
ConstantExpression\n | SourceExpression\n | CameraExpression\n | CompositeExpression;\n\nexport function
createPropertyExpression(expression: mixed, propertySpec: StylePropertySpecification):
Result<StylePropertyExpression, Array<ParsingError>> {\n  expression = createExpression(expression,

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propertySpec);\n  if (expression.result
=== 'error') {\n    return expression;\n  }\n\n  const parsed = expression.value.expression;\n\n  const
isFeatureConstant = isConstant.isFeatureConstant(parsed);\n  if (!isFeatureConstant &&
!supportsPropertyExpression(propertySpec)) {\n    return error([new ParsingError(", 'data expressions not
supported')]);\n  }\n\n  const isZoomConstant = isConstant.isGlobalPropertyConstant(parsed, ['zoom']);\n  if
(!isZoomConstant && !supportsZoomExpression(propertySpec)) {\n    return error([new ParsingError(", 'zoom
expressions not supported')]);\n  }\n\n  const zoomCurve = findZoomCurve(parsed);\n  if (!zoomCurve &&
!isZoomConstant) {\n    return error([new ParsingError(", \"zoom\" expression may only be used as input to a
top-level \"step\" or \"interpolate\" expression.']);\n  } else if (zoomCurve instanceof ParsingError) {\n    return
error([zoomCurve]);\n  } else if (zoomCurve instanceof Interpolate && !supportsInterpolation(propertySpec))
{\n    return error([new ParsingError(", \"interpolate\" expressions cannot be used with this property')]);\n  }\n}\n\n
if (!zoomCurve) {\n  return success(isFeatureConstant ?\n    (new ZoomConstantExpression('constant',
expression.value): ConstantExpression) :\n    (new ZoomConstantExpression('source', expression.value):
SourceExpression));\n}\n\n  const interpolationType = zoomCurve instanceof Interpolate ?
zoomCurve.interpolation : undefined;\n\n  return success(isFeatureConstant ?\n    (new
ZoomDependentExpression('camera', expression.value, zoomCurve.labels, interpolationType): CameraExpression)
:\n    (new ZoomDependentExpression('composite', expression.value, zoomCurve.labels, interpolationType):
CompositeExpression));\n}\n\nimport {isFunction, createFunction} from './function';\nimport {Color} from
'./values';\n\n// serialization wrapper for old-style stop functions normalized to the\n// expression interface\nexport
class StylePropertyFunction<T> {\n  _parameters: PropertyValueSpecification<T>;\n  _specification:
StylePropertySpecification;\n\n  kind: EvaluationKind;\n  evaluate: (globals: GlobalProperties, feature?: Feature)
=> any;\n  interpolationFactor: ?(input: number, lower: number, upper: number) => number;\n  zoomStops:
?Array<number>;\n\n  constructor(parameters: PropertyValueSpecification<T>, specification:
StylePropertySpecification) {\n    this._parameters = parameters;\n    this._specification = specification;\n  }\n  extend(this, createFunction(this._parameters, this._specification));\n}\n\n  static deserialize(serialized:
{ _parameters: PropertyValueSpecification<T>, _specification: StylePropertySpecification }) {\n    return ((new
StylePropertyFunction(serialized._parameters, serialized._specification)): StylePropertyFunction<T>);\n  }\n\n  static serialize(input: StylePropertyFunction<T>) {\n    return {\n      _parameters: input._parameters,\n      _specification: input._specification\n    };\n  }\n}\n\nexport function
normalizePropertyExpression<T>(value: PropertyValueSpecification<T>, specification:
StylePropertySpecification): StylePropertyExpression {\n  if (isFunction(value)) {\n    return (new
StylePropertyFunction(value, specification): any);\n  } else if (isExpression(value)) {\n    const expression =
createPropertyExpression(value, specification);\n    if (expression.result === 'error') {\n      // this should have
been caught in validation\n      throw new Error(expression.value.map(err => `${err.key}:
${err.message}`).join(', '));\n    }\n    return expression.value;\n  } else {\n    let constant: any = value;\n    if (typeof value === 'string' && specification.type === 'color') {\n      constant = Color.parse(value);\n    }\n    return {\n      kind: 'constant',\n      evaluate: () => constant\n    };\n  }\n}\n\n//
Zoom-dependent expressions may only use [\"zoom\"] as the input to a top-level \"step\" or \"interpolate\" expression
(collectively referred to as a \"curve\"). The curve may be wrapped in one or more \"let\" or\n//
\"coalesce\" expressions.\nfunction findZoomCurve(expression: Expression): Step | Interpolate | ParsingError | null
{\n  let result = null;\n  if (expression instanceof Let) {\n    result = findZoomCurve(expression.result);\n  }
else if (expression instanceof Coalesce) {\n    for (const arg of expression.args) {\n      result =
findZoomCurve(arg);\n      if (result) {\n        break;\n      }\n    }\n  } else if ((expression
instanceof Step || expression instanceof Interpolate) &&\n    expression.input instanceof CompoundExpression
&&\n    expression.input.name === 'zoom') {\n    result = expression;\n  }\n\n  if (result instanceof
ParsingError) {\n    return result;\n  }\n\n  expression.eachChild((child)
=> {\n    const childResult = findZoomCurve(child);\n    if (childResult instanceof ParsingError) {\n
result = childResult;\n    } else if (!result && childResult) {\n      result = new ParsingError(", \"zoom\"

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expression may only be used as input to a top-level \"step\" or \"interpolate\" expression.);\n    } else if (result &&
childResult && result !== childResult) {\n        result = new ParsingError(\" 'Only one zoom-based \"step\" or
\"interpolate\" subexpression may be used in an expression.);\n    }\n    });\n    }\n    }\n    return result;\n}\n\nimport
{ColorType, StringType, NumberType, BooleanType, ValueType, FormattedType, ResolvedImageType, array}
from './types';\n\nfunction getExpectedType(spec: StylePropertySpecification): Type {\n    const types = {\n        color: ColorType,\n        string: StringType,\n        number: NumberType,\n        enum: StringType,\n        boolean:
BooleanType,\n        formatted: FormattedType,\n        resolvedImage: ResolvedImageType\n    };\n    if (spec.type === 'array') {\n        return
array(types[spec.value] || ValueType, spec.length);\n    }\n    return types[spec.type];\n}\n\nfunction
getDefaultValue(spec: StylePropertySpecification): Value {\n    if (spec.type === 'color' &&
isFunction(spec.default)) {\n        // Special case for heatmap-color: it uses the 'default:' to define a\n        // default
color ramp, but createExpression expects a simple value to fall\n        // back to in case of runtime errors\n        return
new Color(0, 0, 0, 0);\n    } else if (spec.type === 'color') {\n        return Color.parse(spec.default) || null;\n    } else if
(spec.default === undefined) {\n        return null;\n    } else {\n        return spec.default;\n    }\n}\n\n\"//
@flow\n\nimport assert from 'assert';\nimport type {StylePropertySpecification} from './style-spec';\n\nexport
default convertFunction;\n\nfunction convertLiteral(value) {\n    return typeof value ===
'object' ? ['literal', value] : value;\n}\n\nfunction convertFunction(parameters: any, propertySpec:
StylePropertySpecification) {\n    let stops = parameters.stops;\n    if (!stops) {\n        // identity function\n        return
convertIdentityFunction(parameters, propertySpec);\n    }\n    const zoomAndFeatureDependent = stops &&
typeof stops[0][0] === 'object';\n    const featureDependent = zoomAndFeatureDependent || parameters.property !==
undefined;\n    const zoomDependent = zoomAndFeatureDependent || !featureDependent;\n    stops =
stops.map((stop) => {\n        if (!featureDependent && propertySpec.tokens && typeof stop[1] === 'string') {\n
            return [stop[0], convertTokenString(stop[1])];\n        }\n        return [stop[0], convertLiteral(stop[1])];\n    });\n    if
(zoomAndFeatureDependent) {\n        return convertZoomAndPropertyFunction(parameters, propertySpec,
stops);\n    } else if (zoomDependent) {\n        return convertZoomFunction(parameters, propertySpec,
stops);\n    } else {\n        return convertPropertyFunction(parameters, propertySpec, stops);\n    }\n}\n\nfunction
convertIdentityFunction(parameters, propertySpec): Array<mixed> {\n    const get = ['get',
parameters.property];\n    if (parameters.default === undefined) {\n        // By default, expressions for string-
valued properties get coerced. To preserve\n        // legacy function semantics, insert an explicit assertion instead.\n        return
propertySpec.type === 'string' ? ['string', get] : get;\n    } else if (propertySpec.type === 'enum') {\n
        return [\n            'match',\n            get,\n            Object.keys(propertySpec.values),\n            get,\n            parameters.default\n        ];\n    } else {\n        const expression = [propertySpec.type === 'color' ? 'to-color' :
propertySpec.type, get, convertLiteral(parameters.default)];\n        if (propertySpec.type === 'array') {\n
            expression.splice(1, 0, propertySpec.value, propertySpec.length
            || null);\n        }\n        return expression;\n    }\n}\n\nfunction getInterpolateOperator(parameters) {\n    switch
(parameters.colorSpace) {\n        case 'hcl': return 'interpolate-hcl';\n        case 'lab': return 'interpolate-lab';\n        default:
return 'interpolate';\n    }\n}\n\nfunction convertZoomAndPropertyFunction(parameters, propertySpec, stops) {\n
    const featureFunctionParameters = {};\n    const featureFunctionStops = {};\n    const zoomStops = [];\n    for (let s
= 0; s < stops.length; s++) {\n        const stop = stops[s];\n        const zoom = stop[0].zoom;\n        if
(featureFunctionParameters[zoom] === undefined) {\n            featureFunctionParameters[zoom] = {\n                zoom,\n                type: parameters.type,\n                property: parameters.property,\n                default:
parameters.default,\n            }; \n            featureFunctionStops[zoom] = [];\n            zoomStops.push(zoom);\n        }\n        featureFunctionStops[zoom].push([stop[0].value,
stop[1]]);\n    }\n    // the interpolation type for the zoom dimension of a zoom-and-property\n    // function is
determined directly from the style property specification\n    // for which it's being used: linear for interpolatable
properties, step\n    // otherwise.\n    const functionType = getFunctionType({}, propertySpec);\n    if (functionType
=== 'exponential') {\n        const expression = [getInterpolateOperator(parameters), ['linear'], ['zoom']];\n        for
(const z of zoomStops) {\n            const output = convertPropertyFunction(featureFunctionParameters[z],

```

```

propertySpec, featureFunctionStops[z]);\n      appendStopPair(expression, z, output, false);\n    }\n\n    return expression;\n  } else {\n    const expression = ['step', ['zoom']];\n    for (const z of zoomStops) {\n      const output = convertPropertyFunction(featureFunctionParameters[z], propertySpec, featureFunctionStops[z]);\n      appendStopPair(expression,\n        z, output, true);\n    }\n    fixupDegenerateStepCurve(expression);\n    return expression;\n  }\n}\n\nfunction coalesce(a, b) {\n  if (a !== undefined) return a;\n  if (b !== undefined) return b;\n}\n\nfunction\nconvertPropertyFunction(parameters, propertySpec, stops) {\n  const type = getFunctionType(parameters,\n    propertySpec);\n  const get = ['get', parameters.property];\n  if (type === 'categorical' && typeof stops[0][0] ===\n    'boolean') {\n    assert(parameters.stops.length > 0 && parameters.stops.length <= 2);\n    const expression =\n      ['case'];\n    for (const stop of stops) {\n      expression.push(['=', get, stop[0]], stop[1]);\n    }\n    expression.push(convertLiteral(coalesce(parameters.default, propertySpec.default)));\n    return expression;\n  }\n  else if (type === 'categorical') {\n    const expression = ['match', get];\n    for (const stop of stops) {\n      appendStopPair(expression, stop[0],\n        stop[1], false);\n    }\n    expression.push(convertLiteral(coalesce(parameters.default,\n      propertySpec.default)));\n    return expression;\n  } else if (type === 'interval') {\n    const expression = ['step',\n      ['number', get]];\n    for (const stop of stops) {\n      appendStopPair(expression, stop[0], stop[1], true);\n    }\n    fixupDegenerateStepCurve(expression);\n    return parameters.default === undefined ? expression : [\n      'case',\n      ['=', ['typeof', get], 'number'],\n      expression,\n      convertLiteral(parameters.default)\n    ];\n  } else if (type === 'exponential') {\n    const base = parameters.base !== undefined ? parameters.base :\n      1;\n    const expression = [\n      getInterpolateOperator(parameters),\n      base === 1 ? ['linear'] :\n      ['exponential', base],\n      ['number', get]\n    ];\n    for (const stop of stops) {\n      appendStopPair(expression,\n        stop[0], stop[1], false);\n    }\n    return parameters.default === undefined ? expression : [\n      'case',\n      ['=', ['typeof', get], 'number'],\n      expression,\n      convertLiteral(parameters.default)\n    ];\n  } else\n  {\n    throw new Error(`Unknown property function type ${type}`);\n  }\n}\n\nfunction\nconvertZoomFunction(parameters, propertySpec, stops, input = ['zoom']) {\n  const type =\n    getFunctionType(parameters, propertySpec);\n  let expression;\n  let isStep = false;\n  if (type === 'interval') {\n    expression = ['step', input];\n    isStep = true;\n  } else if (type === 'exponential') {\n    const base =\n      parameters.base !== undefined ? parameters.base :\n      1;\n    expression = [getInterpolateOperator(parameters), base\n      === 1 ? ['linear'] : ['exponential', base], input];\n  } else {\n    throw new Error(`Unknown zoom function\n    type \"${type}\"`);\n  }\n  for (const stop\n    of stops) {\n    appendStopPair(expression, stop[0], stop[1], isStep);\n  }\n  fixupDegenerateStepCurve(expression);\n  return expression;\n}\n\nfunction\nfixupDegenerateStepCurve(expression) {\n  // degenerate step curve (i.e. a constant function): add a noop stop\n  if (expression[0] === 'step' && expression.length === 3) {\n    expression.push(0);\n    expression.push(expression[3]);\n  }\n}\n\nfunction appendStopPair(curve, input, output, isStep) {\n  // Skip\n  duplicate stop values. They were not validated for functions, but they are for expressions.\n  //\n  https://github.com/mapbox/mapbox-gl-js/issues/4107\n  if (curve.length > 3 && input === curve[curve.length - 2])\n  {\n    return;\n  }\n  // step curves don't get the first input value, as it is redundant.\n  if (!(isStep &&\n    curve.length === 2)) {\n    curve.push(input);\n  }\n  curve.push(output);\n}\n\nfunction\ngetFunctionType(parameters, propertySpec) {\n  if (parameters.type)\n  {\n    return parameters.type;\n  } else {\n    assert(propertySpec.expression);\n    return\n    (propertySpec.expression: any).interpolated ? 'exponential' : 'interval';\n  }\n}\n\n// \"String with {name} token\"\n=> ['concat', 'String with ', ['get', 'name'], ' token']\n\nexport function convertTokenString(s: string) {\n  const result = ['concat'];\n  const re = /{([{}]+)}/g;\n  let pos = 0;\n  for (let match = re.exec(s); match !== null;\n    match = re.exec(s)) {\n    const literal = s.slice(pos, re.lastIndex - match[0].length);\n    pos = re.lastIndex;\n    if (literal.length > 0) result.push(literal);\n    result.push(['get', match[1]]);\n  }\n  if (result.length === 1) {\n    return s;\n  }\n  if (pos < s.length) {\n    result.push(s.slice(pos));\n  } else if (result.length === 2) {\n

```

```

return ['to-string', result[1]];
}

return result;
}

@flow
import {createExpression} from
'./expression';
import
type {GlobalProperties} from './expression';
export type FeatureFilter = (globalProperties: GlobalProperties,
feature: VectorTileFeature) => boolean;
export default createFilter;
export {isExpressionFilter};

function
isExpressionFilter(filter: any) {
  if (filter === true || filter === false) {
    return true;
  }

  if
  (!Array.isArray(filter) || filter.length === 0) {
    return false;
  }

  switch (filter[0]) {
    case 'has':
      return filter.length >= 2 && filter[1] !== '$id' && filter[1] !== '$type';

    case 'in':
      return filter.length >= 3
      && Array.isArray(filter[2]);

    case 'in':
    case '!has':
    case 'none':
      return false;

    case '=':
    case '!=':
    case '>':
    case '>=':
    case '<':
    case '<=':
      return filter.length !== 3 || (Array.isArray(filter[1]) ||
      Array.isArray(filter[2]));

    case 'any':
    case 'all':
      for (const f of filter.slice(1)) {
        if (!isExpressionFilter(f) && typeof f !== 'boolean') {
          return false;
        }
      }

      return
      true;

    default:
      return true;
  }
}

const filterSpec = {
  type: 'boolean',
  default: false,
  transition: false,
  property-type: 'data-driven',
  expression: {
    interpolated: false,
    parameters:
    ['zoom', 'feature']
  }
};

/**
 * Given a filter expressed as nested arrays, return a new function
 * that evaluates whether a given feature (with a .properties or .tags property)
 * passes its test.
 */
@private
@param {Array} filter mapbox gl filter
@returns {Function} filter-evaluating function

function
createFilter(filter: any): FeatureFilter {
  if (filter === null || filter === undefined) {
    return () => true;
  }

  if (!isExpressionFilter(filter)) {
    filter = convertFilter(filter);
  }

  const compiled =
  createExpression(filter,
  filterSpec);

  if (compiled.result === 'error') {
    throw new Error(compiled.value.map(err => `${err.key}:
    ${err.message}`).join(', '));
  } else {
    return (globalProperties: GlobalProperties, feature: VectorTileFeature)
    => compiled.value.evaluate(globalProperties, feature);
  }
}

// Comparison function to sort numbers and
strings
function compare(a, b) {
  return a < b ? -1 : a > b ? 1 : 0;
}

function convertFilter(filter:
?Array<any>): mixed {
  if (!filter) return true;

  const op = filter[0];

  if (filter.length <= 1) return (op !==
'any');

  const converted =
  op === '=' ? convertComparisonOp(filter[1], filter[2], '=') :
  op === '!=' ?
  convertNegation(convertComparisonOp(filter[1], filter[2], '=')) :
  op === '<' ||
  op === '>' ||
  op
  === '<=' ||
  op === '>=' ? convertComparisonOp(filter[1], filter[2], op) :
  op === 'any' ?
  convertDisjunctionOp(filter.slice(1)) :
  op === 'all' ? ['all'].concat(filter.slice(1).map(convertFilter)) :
  ['all'].concat(filter.slice(1).map(convertFilter).map(convertNegation)) :
  op === 'in' ? convertInOp(filter[1],
  filter.slice(2)) :
  op === 'in' ? convertNegation(convertInOp(filter[1], filter.slice(2))) :
  op === 'has' ?
  convertHasOp(filter[1]) :
  op === '!has' ? convertNegation(convertHasOp(filter[1])) :
  true;

  return
  converted;
}

function convertComparisonOp(property: string, value: any, op: string) {
  switch (property) {
    case '$type':
      return ['filter-type-${op}', value];
    case '$id':
      return ['filter-id-${op}', value];
    default:
      return ['filter-${op}', property, value];
  }
}

function convertDisjunctionOp(filters:
Array<Array<any>>) {
  return ['any'].concat(filters.map(convertFilter));
}

function convertInOp(property:
string, values: Array<any>) {
  if (values.length === 0) {
    return
    false;
  }

  switch (property) {
    case '$type':
      return ['filter-type-in', ['literal', values]];
    case '$id':
      return
      ['filter-id-in', ['literal', values]];
    default:
      if (values.length > 200 && !values.some(v => typeof v !==
      typeof values[0])) {
        return ['filter-in-large', property, ['literal', values.sort(compare)]];
      } else {
        return
        ['filter-in-small', property, ['literal', values]];
      }
  }
}

function convertHasOp(property: string) {
  switch (property) {
    case '$type':
      return true;
    case '$id':
      return ['filter-has-id'];
    default:
      return
      ['filter-has', property];
  }
}

function convertNegation(filter: mixed) {
  return ['!', filter];
}

@flow
import {isExpressionFilter} from './index';
import type {FilterSpecification} from './types';

type
ExpectedTypes = {[string]: 'string' | 'number' | 'boolean'};

/**
 * Convert the given
legacy filter to (the JSON representation of) an equivalent expression
 */
@private
export default function
convertFilter(filter: FilterSpecification): mixed {
  return _convertFilter(filter, {});
}

/**
 * Convert the given
filter to an expression, storing the expected types for any feature
properties referenced in expectedTypes.
 */

```

These expected types are needed in order to construct preflight type checks needed for handling 'any' filters. A preflight type check is necessary in order to mimic legacy filters' semantics around expected type mismatches. For example, consider the legacy filter: `["any", ["all", [">", "y", 0], [">", "x", 0]]`. Naively, we might convert this to the expression: `["any", ["all", [">", ["get", "y"], 0], [">", ["get", "z"], 0], [">", ["get", "x"], 0]]`. But if we tried to evaluate this against, say `{x: 1, y: null, z: 0}`, the `[">", ["get", "x"], 0]`

would cause an evaluation error, leading to the entire filter returning false. Legacy filter semantics, though, ask for `[">", "y", 0]` to simply return `false` when `y` is of the wrong type, allowing the subsequent terms of the outer `"any"` expression to be evaluated (resulting, in this case, in a `true` value, because `x > 0`). We account for this by inserting a preflight type-checking expression before each `"any"` term, allowing us to avoid evaluating the actual converted filter if any type mismatches would cause it to produce an evaluation error:

```
["any", ["case", ["all", ["==", ["typeof", ["get", "y"]], "number"], ["==", ["typeof", ["get", "z"], "number"], ["all", [">", ["get", "y"], 0], [">", ["get", "z"], 0]], false], ["case", ["==", ["typeof", ["get", "x"], "number"]],
```

`[">", ["get", "x"], 0], false]`. An alternative, possibly more direct approach would be to use type checks in the conversion of each comparison operator, so that the converted version of each individual `==`, `>`, etc. would mimic the legacy filter semantics. The downside of this approach is that it can lead to many more type checks than would otherwise be necessary: outside the context of an `"any"` expression, bailing out due to a runtime type error (expression semantics) and returning `false` (legacy filter semantics) are equivalent: they cause the filter to produce a `false` result.

```
function _convertFilter(filter: FilterSpecification, expectedTypes: ExpectedTypes): mixed {
  if (isExpressionFilter(filter)) { return filter; }
  if (!filter) return true;
  const op = filter[0];
  if (filter.length <= 1) return (op !== 'any');
  let converted;
  if (op === '=' || op === '!=' || op === '<' || op === '>' || op === '<=' || op === '>=' ) {
    const [, property, value] = (filter: any);
    converted = convertComparisonOp(property, value, op, expectedTypes);
  } else if (op === 'any') {
    const children = (filter: any).slice(1).map(f => {
      const types = {};
      const child = _convertFilter(f, types);
      const typechecks = runtimeTypeChecks(types);
      return typechecks === true ? child : ['case', typechecks, child, false];
    });
    return ['any'].concat(children);
  } else if (op === 'all') {
    const children = (filter: any).slice(1).map(f => _convertFilter(f, expectedTypes));
    return children.length > 1 ? ['all'].concat(children) : [].concat(...children);
  } else if (op === 'none') {
    return ['!', _convertFilter(['any'].concat(filter.slice(1)), {})];
  } else if (op === 'in') {
    converted = convertInOp((filter[1]: any), filter.slice(2));
  } else if (op === 'in') {
    converted = convertInOp((filter[1]: any), filter.slice(2), true);
  } else if (op === 'has') {
    converted = convertHasOp((filter[1]: any));
  } else if (op === '!has') {
    converted = ['!', convertHasOp((filter[1]: any))];
  } else {
    converted = true;
  }
  return converted;
}
```

Given a set of feature properties and an expected type for each one, construct a boolean expression that tests whether each property has the right type. E.g.: for `{name: 'string', population: 'number'}`, return `['all', ['==', ['typeof', ['get', 'name'], 'string']], ['==', ['typeof', ['get', 'population'], 'number']]`.

```
function runtimeTypeChecks(expectedTypes: ExpectedTypes) {
  const conditions = [];
  for (const property in expectedTypes) {
    const get = property === '$id' ? 'id' : ['get', property];
    conditions.push(['==', ['typeof', get], expectedTypes[property]]);
  }
  if (conditions.length === 0) return true;
  if (conditions.length === 1) return conditions[0];
  return ['all'].concat(conditions);
}

function convertComparisonOp(property: string, value: any, op: string, expectedTypes: ?ExpectedTypes) {
  let get;
  if (property === '$type') {
    return [op, ['geometry-type', value]];
  } else if (property === '$id') {
    get = 'id';
  } else {
    get = ['get', property];
  }
  if (expectedTypes && value !== null) {
    const type = ((typeof value): any);
    expectedTypes[property] = type;
  }
  if (op === '=' && property !== '$id' && value === null) {

```

```

return [\n      'all',\n      ['has', property], // missing property != null for legacy filters\n      ['==', get, null]\n    ];\n  } else if (op === '=' && property !== '$id' && value === null) {\n    return [\n      'any',\n      ['!',\n      ['has', property]], // missing property != null for legacy filters\n      ['!=', get, null]\n    ];\n  }\n\n  return [op,\n  get, value];\n}\n\nfunction convertInOp(property: string, values: Array<any>, negate = false) {\n  if (values.length\n  === 0) return negate;\n\n  let get;\n  if (property === '$type') {\n    get = ['geometry-type'];\n  } else if\n  (property === '$id') {\n    get = ['id'];\n  } else {\n    get = ['get', property];\n  }\n\n  // Determine if the list of\n  values to be searched is homogenously typed.\n  // If so (and if the type is string or number), then we can use a\n  // [match, input, [...values], true, false] construction rather than a\n  // bunch of `===` tests.\n  let uniformTypes =\n  true;\n  const type = typeof values[0];\n  for (const value of values) {\n    if (typeof value !== type) {\n      uniformTypes = false;\n      break;\n    }\n  }\n\n  if (uniformTypes && (type === 'string' || type ===\n  'number')) {\n    // Match expressions must have unique values.\n    const uniqueValues = values.sort().filter((v,\n  i) => i === 0 || values[i - 1] !== v);\n    return ['match', get, uniqueValues, !negate, negate];\n  }\n\n  return [\n  negate ? 'all' : 'any'].concat(\n    values.map(v => [negate ? '!=' : '==', get, v])\n  );\n}\n\nfunction\n  convertHasOp(property: string) {\n  if (property === '$type') {\n    return true;\n  } else if (property === '$id')\n  {\n    return ['!=', ['id'], null];\n  } else {\n    return ['has', property];\n  }\n}\n\n// @flow\n\nimport {\n  eachLayer,\n  eachProperty\n} from './visit';\nimport {isExpression} from './expression';\nimport convertFunction,\n  {convertTokenString} from './function/convert';\nimport convertFilter from './feature_filter/convert';\nimport\n  type {StyleSpecification} from './types';\n\n/**\n * Migrate the given style object in place to use expressions.\n  Specifically,\n  * this will convert\n  (a) \"stop\" functions, and (b) legacy filters to their\n  * expression equivalents.\n  */\n\nexport default function(style:\n  StyleSpecification) {\n  const converted = [];\n\n  eachLayer(style, (layer) => {\n    if (layer.filter) {\n      layer.filter = (convertFilter(layer.filter): any);\n    }\n  });\n\n  eachProperty(style, {paint: true, layout: true},\n  ({path, value, reference, set}) => {\n    if (isExpression(value)) return;\n    if (typeof value === 'object' &&\n    !Array.isArray(value)) {\n      set(convertFunction(value, reference));\n      converted.push(path.join('.'));\n    }\n    else if (reference.tokens && typeof value === 'string') {\n      set(convertTokenString(value));\n    }\n  });\n\n  return style;\n}\n\n/**\n * Migrate a Mapbox GL Style to the latest version.\n  */\n\n@private\n * @alias\n  migrate\n * @param {object}\n  style a Mapbox GL Style\n  * @returns {Object} a migrated style\n  * @example\n  * var fs = require('fs');\n  * var\n  migrate = require('mapbox-gl-style-spec').migrate;\n  * var style = fs.readFileSync('./style.json', 'utf8');\n  * fs.writeFileSync('./style.json', JSON.stringify(migrate(style)));\n  */\n\nexport default function(style) {\n  let migrated\n  = false;\n\n  if (style.version === 7) {\n    style = migrateToV8(style);\n    migrated = true;\n  }\n\n  if\n  (style.version === 8) {\n    migrated = migrateToExpressions(style);\n    migrated = true;\n  }\n\n  if\n  (!migrated) {\n    throw new Error('cannot migrate from', style.version);\n  }\n\n  return style;\n}\n\nexport\n  default function (style) {\n  const styleIDs = [];\n  const sourceIDs = [];\n  const compositedSourceLayers =\n  [];\n\n  for (const id in style.sources) {\n    const source = style.sources[id];\n\n    if (source.type !==\n  'vector')\n    continue;\n\n    const match\n  = /^mapbox:\\\\(\\(.*\\)\\.exec(source.url));\n    if (!match)\n    continue;\n\n    styleIDs.push(id);\n    sourceIDs.push(match[1]);\n  }\n\n  if (styleIDs.length < 2)\n  return style;\n\n  styleIDs.forEach((id) => {\n    delete style.sources[id];\n  });\n\n  const compositeID = sourceIDs.join(',');\n\n  style.sources[compositeID]\n  = {\n    \"type\": \"vector\",\n    \"url\": `mapbox://${compositeID}`\n  }; \n\n  style.layers.forEach((layer) =>\n  {\n    if (styleIDs.indexOf(layer.source) >= 0)\n    layer.source = compositeID;\n\n    if ('source-layer'\n  in layer) {\n      if (compositedSourceLayers.indexOf(layer['source-layer']) >= 0)\n      throw new\n      Error('Conflicting source layer names');\n    } else {\n      compositedSourceLayers.push(layer['source-layer']);\n    }\n  }\n  );\n\n  return\n  style;\n}\n\nexport default ['type',\n  'source', 'source-layer', 'minzoom', 'maxzoom', 'filter', 'layout'];\n\n/**\n * @private\n  */\n\nimport refProperties from\n  './util/ref_properties';\n\nfunction deref(layer, parent) {\n  const result = {};\n\n  for (const k in layer) {\n    if (k

```

```

!=='ref') {\n      result[k] = layer[k];\n    }\n  }\n\n  refProperties.forEach((k) => {\n    if (k in parent) {\n      result[k] = parent[k];\n    }\n  });\n\n  return result;\n}\n\nexport default derefLayers;\n\n/**\n * Given an array of layers, some of which may contain `ref` properties\n * whose value is the `id` of another property, return a new array where\n * such layers have been augmented with the 'type', 'source', etc. properties\n * from the parent layer, and the `ref` property has been removed.\n *\n * The input is not modified. The output may contain references to portions\n * of the input.\n *\n * @private\n * @param {Array<Layer>} layers\n * @returns {Array<Layer>}\n */\nfunction derefLayers(layers) {\n  layers = layers.slice();\n\n  const map = Object.create(null);\n  for (let i = 0; i < layers.length; i++) {\n    map[layers[i].id] = layers[i];\n  }\n\n  for (let i = 0; i < layers.length; i++) {\n    if ('ref' in layers[i]) {\n      layers[i] = deref(layers[i], map[layers[i].ref]);\n    }\n  }\n\n  return layers;\n}\n\n", "/* @flow\n\n**\n * Deeply compares two object literals.\n *\n * @private\n */\nfunction deepEqual(a: ?mixed, b: ?mixed): boolean {\n  if (Array.isArray(a)) {\n    if (!Array.isArray(b) || a.length !== b.length) return false;\n    for (let i = 0; i < a.length; i++) {\n      if (!deepEqual(a[i], b[i])) return false;\n    }\n    return true;\n  }\n  if (typeof a === 'object' && a !== null && b !== null) {\n    if (!(typeof b === 'object')) return false;\n    const keys = Object.keys(a);\n    if (keys.length !== Object.keys(b).length) return false;\n    for (const key in a) {\n      if (!deepEqual(a[key], b[key])) return false;\n    }\n    return true;\n  }\n  return a === b;\n}\n\nexport default deepEqual;\n\n", "\nimport isEqual from './util/deep_equal';\n\nconst operations = {\n  /*\n   * { command: 'setStyle', args: [stylesheet] }\n   */\n  setStyle: 'setStyle',\n  /*\n   * { command: 'addLayer', args: [layer, 'beforeLayerId'] }\n   */\n  addLayer: 'addLayer',\n  /*\n   * { command: 'removeLayer', args: ['layerId'] }\n   */\n  removeLayer: 'removeLayer',\n  /*\n   * { command: 'setPaintProperty', args: ['layerId', 'prop', value] }\n   */\n  setPaintProperty: 'setPaintProperty',\n  /*\n   * { command: 'setLayoutProperty', args: ['layerId', 'prop', value] }\n   */\n  setLayoutProperty: 'setLayoutProperty',\n  /*\n   * { command: 'setFilter', args: ['layerId', filter] }\n   */\n  setFilter: 'setFilter',\n  /*\n   * { command: 'addSource', args: ['sourceId', source] }\n   */\n  addSource: 'addSource',\n\n  /*\n   * { command: 'removeSource', args: ['sourceId'] }\n   */\n  removeSource: 'removeSource',\n\n  /*\n   * { command: 'setGeoJSONSourceData', args: ['sourceId', data] }\n   */\n  setGeoJSONSourceData: 'setGeoJSONSourceData',\n\n  /*\n   * { command: 'setLayerZoomRange', args: ['layerId', 0, 22] }\n   */\n  setLayerZoomRange: 'setLayerZoomRange',\n  /*\n   * { command: 'setLayerProperty', args: ['layerId', 'prop', value] }\n   */\n  setLayerProperty: 'setLayerProperty',\n  /*\n   * { command: 'setCenter', args: [[lon, lat] ] }\n   */\n  setCenter: 'setCenter',\n  /*\n   * { command: 'setZoom', args: [zoom] }\n   */\n  setZoom: 'setZoom',\n  /*\n   * { command: 'setBearing', args: [bearing] }\n   */\n  setBearing: 'setBearing',\n\n  /*\n   * { command: 'setPitch', args: [pitch] }\n   */\n  setPitch: 'setPitch',\n\n  /*\n   * { command: 'setSprite', args: ['spriteUrl'] }\n   */\n  setSprite: 'setSprite',\n\n  /*\n   * { command: 'setGlyphs', args: ['glyphsUrl'] }\n   */\n  setGlyphs: 'setGlyphs',\n\n  /*\n   * { command: 'setTransition', args: [transition] }\n   */\n  setTransition: 'setTransition',\n\n  /*\n   * { command: 'setLighting', args: [lightProperties] }\n   */\n  setLight: 'setLight'\n};\n\nfunction addSource(sourceId, after, commands) {\n  commands.push({command: operations.addSource, args: [sourceId, after[sourceId]]});\n}\n\nfunction removeSource(sourceId, commands, sourcesRemoved) {\n  commands.push({command: operations.removeSource, args: [sourceId]});\n  sourcesRemoved[sourceId] = true;\n}\n\nfunction updateSource(sourceId, after, commands, sourcesRemoved) {\n  removeSource(sourceId, commands, sourcesRemoved);\n  addSource(sourceId, after, commands);\n}\n\nfunction canUpdateGeoJSON(before, after, sourceId) {\n  let prop;\n  for (prop in before[sourceId]) {\n    if (!before[sourceId].hasOwnProperty(prop)) continue;\n\n    if (prop !== 'data' && !isEqual(before[sourceId][prop], after[sourceId][prop])) {\n      return false;\n    }\n  }\n  for (prop in after[sourceId]) {\n    if (!after[sourceId].hasOwnProperty(prop)) continue;\n    if (prop !== 'data' && !isEqual(before[sourceId][prop], after[sourceId][prop])) {\n      return false;\n    }\n  }\n  return true;\n}\n\nfunction diffSources(before, after, commands, sourcesRemoved) {\n  before = before || {};\n}

```

```

after = after || {};
let sourceId;
// look for sources to remove
for (sourceId in before) {
  if (!before.hasOwnProperty(sourceId)) continue;
  if (!after.hasOwnProperty(sourceId)) {
    removeSource(sourceId, commands, sourcesRemoved);
  }
  // look for sources to add/update
  for (sourceId in after) {
    if (!after.hasOwnProperty(sourceId)) continue;
    if (!before.hasOwnProperty(sourceId)) {
      addSource(sourceId, after, commands);
    } else if (!isEqual(before[sourceId], after[sourceId])) {
      if (before[sourceId].type === 'geojson' && after[sourceId].type === 'geojson' && canUpdateGeoJSON(before, after, sourceId)) {
        commands.push({ command: operations.setGeoJSONSourceData, args: [sourceId, after[sourceId].data] });
      } else {
        // no update command, must remove then add
        updateSource(sourceId, after, commands, sourcesRemoved);
      }
    }
  }
}

function diffLayerPropertyChanges(before, after, commands, layerId, klass, command) {
  before = before || {};
  after = after || {};
  let prop;
  for (prop in before) {
    if (!before.hasOwnProperty(prop)) continue;
    if (!isEqual(before[prop], after[prop])) {
      commands.push({ command, args: [layerId, prop, after[prop], klass] });
    }
  }
  for (prop in after) {
    if (!after.hasOwnProperty(prop) || before.hasOwnProperty(prop)) continue;
    if (!isEqual(before[prop], after[prop])) {
      commands.push({ command, args: [layerId, prop, after[prop], klass] });
    }
  }
}

function pluckId(layer) {
  return layer.id;
}

function indexById(group, layer) {
  group[layer.id] = layer;
  return group;
}

function diffLayers(before, after, commands) {
  before = before || [];
  after = after || [];
  // order of layers by id
  const beforeOrder = before.map(pluckId);
  const afterOrder = after.map(pluckId);
  // index of layer by id
  const beforeIndex = before.reduce(indexById, {});
  const afterIndex = after.reduce(indexById, {});
  // track order of layers as if they have been mutated
  const tracker = beforeOrder.slice();
  // layers that have been added do not need to be diffed
  const clean = Object.create(null);
  let i, d, layerId, beforeLayer, afterLayer, insertBeforeLayerId, prop;
  // remove layers
  for (i = 0, d = 0; i < beforeOrder.length; i++) {
    layerId = beforeOrder[i];
    if (!afterIndex.hasOwnProperty(layerId)) {
      commands.push({ command: operations.removeLayer, args: [layerId] });
      tracker.splice(tracker.indexOf(layerId, d), 1);
    } else {
      // limit where in tracker we need to look for a match
      d++;
    }
  }
  // add/reorder layers
  for (i = 0, d = 0; i < afterOrder.length; i++) {
    // work backwards as insert is before an existing layer
    layerId = afterOrder[afterOrder.length - 1 - i];
    if (tracker[tracker.length - 1 - i] === layerId) continue;
    if (beforeIndex.hasOwnProperty(layerId)) {
      // remove the layer before we insert at the correct position
      commands.push({ command: operations.removeLayer, args: [layerId] });
      tracker.splice(tracker.lastIndexOf(layerId, tracker.length - d), 1);
    } else {
      // limit where in tracker we need to look for a match
      d++;
    }
    // add layer at correct position
    insertBeforeLayerId = tracker[tracker.length - i];
    commands.push({ command: operations.addLayer, args: [afterIndex[layerId], insertBeforeLayerId] });
    tracker.splice(tracker.length - i, 0, layerId);
    clean[layerId] = true;
  }
  // update layers
  for (i = 0; i < afterOrder.length; i++) {
    layerId = afterOrder[i];
    beforeLayer = beforeIndex[layerId];
    afterLayer = afterIndex[layerId];
    // no need to update if previously added (new or moved)
    if (clean[layerId] || isEqual(beforeLayer, afterLayer)) continue;
    // If source, source-layer, or type have changes, then remove the layer
    // and add it back 'from scratch'.
    if (!isEqual(beforeLayer.source, afterLayer.source) || !isEqual(beforeLayer['source-layer'], afterLayer['source-layer']) || !isEqual(beforeLayer.type, afterLayer.type)) {
      commands.push({ command: operations.removeLayer, args: [layerId] });
      // we add the layer back at the same position it was already in, so
      // there's no need to update the `tracker`
      insertBeforeLayerId = tracker[tracker.lastIndexOf(layerId) + 1];
      commands.push({ command: operations.addLayer, args: [afterLayer, insertBeforeLayerId] });
      continue;
    }
  }
  // layout, paint, filter, minzoom, maxzoom
  diffLayerPropertyChanges(beforeLayer.layout, afterLayer.layout, commands, layerId, null, operations.setLayoutProperty);
  diffLayerPropertyChanges(beforeLayer.paint, afterLayer.paint, commands, layerId, null, operations.setPaintProperty);
  if (!isEqual(beforeLayer.filter, afterLayer.filter)) {

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diffLayers(beforeLayers, after.layers, commands);\n\n } catch (e) {\n    // fall back to setStyle\n    console.warn('Unable to compute style diff:', e);\n    commands = [{command: operations.setStyle, args:\n    [after]}];\n  }\n\n  return commands;\n}\n\n\nexport default diffStyles;\nexport {operations};\n", "// @flow\n\n// Note: Do not inherit from Error. It breaks when transpiling to ES5.\n\nexport default class ValidationError {\n  message: string;\n  identifier: ?string;\n  line: ?number;\n\n  constructor(key: ?string, value: ?{ __line__: number\n  }, message: string, identifier: ?string) {\n    this.message = (key ? `${key}: ` : '') + message;\n    if (identifier)\n      this.identifier = identifier;\n\n    if (value !== null && value !== undefined && value.__line__) {\n      this.line = value.__line__;\n    }\n  }\n\n  }, "// @flow\n\n// Note: Do not inherit from Error. It breaks when\n  transpiling to ES5.\n\nexport default class ParsingError {\n  message: string;\n  error: Error;\n  line: number;\n\n  constructor(error: Error) {\n    this.error = error;\n    this.message = error.message;\n    const match = error.message.match(/line (\\d+)/);\n    this.line = match ?\n    parseInt(match[1], 10) : 0;\n  }\n\n  }, "\n\nimport ValidationError from './error/validation_error';\n\nexport default\n  function validateConstants(options) {\n    const key = options.key;\n    const constants = options.value;\n\n    if\n    (constants) {\n      return [new ValidationError(key, constants, 'constants have been deprecated as of v8')];\n    }\n    else {\n      return [];\n    }\n  }\n\n  }, "// @flow\n\n\n// Turn jsonlint-lines-primitives objects into primitive\n  objects\n\nexport function unbundle(value: mixed) {\n  if (value instanceof Number || value instanceof String || value\n  instanceof Boolean) {\n    return value.valueOf();\n  } else {\n    return value;\n  }\n}\n\nexport function\n  deepUnbundle(value: mixed): mixed {\n  if (Array.isArray(value))\n    {\n      return value.map(deepUnbundle);\n    } else if (value instanceof Object && !(value instanceof Number ||\n    value instanceof String || value instanceof Boolean)) {\n      const unbundledValue: { [key: string]: mixed } = {};\n      for (const key in value) {\n        unbundledValue[key] = deepUnbundle(value[key]);\n      }\n      return\n      unbundledValue;\n    }\n  }\n\n  return unbundle(value);\n}\n\n", "\n\nimport ValidationError from\n  './error/validation_error';\n\nimport getType from './util/get_type';\n\nimport validateSpec from './validate';\n\nexport\n  default function validateObject(options) {\n    const key = options.key;\n    const object = options.value;\n    const\n    elementSpecs = options.valueSpec || {};\n    const elementValidators = options.objectElementValidators || {};\n    const\n    style = options.style;\n    const styleSpec = options.styleSpec;\n    let errors = [];\n\n    const type =\n    getType(object);\n    if (type !== 'object') {\n      return [new\n      ValidationError(key, object, `object expected, ${type} found`);\n    ]\n\n    for (const objectKey in object) {\n      const elementSpecKey = objectKey.split('.')[0]; // treat 'paint.*' as 'paint'\n      const elementSpec =\n      elementSpecs[elementSpecKey] || elementSpecs['*'];\n\n      let validateElement;\n      if\n      (elementValidators[elementSpecKey]) {\n        validateElement = elementValidators[elementSpecKey];\n      }\n      else if (elementSpecs[elementSpecKey]) {\n        validateElement = validateSpec;\n      } else if\n      (elementValidators['*']) {\n        validateElement = elementValidators['*'];\n      } else if (elementSpecs['*']) {\n        validateElement = validateSpec;\n      } else {\n        errors.push(new ValidationError(key,\n        object[objectKey], `unknown property \\`${objectKey}\\``));\n        continue;\n      }\n\n      errors =\n      errors.concat(validateElement({\n        key: (key ? `${key}.` : key) + objectKey,\n        value:\n        object[objectKey],\n        valueSpec: elementSpec,\n        style,\n        styleSpec,\n        object,\n        objectKey\n      }, object));\n    }\n\n    for (const elementSpecKey in elementSpecs) {\n      // Don't check\n      `required` when there's a custom validator for that property.\n      if (elementValidators[elementSpecKey]) {\n        continue;\n      }\n\n      if (elementSpecs[elementSpecKey].required &&\n      elementSpecs[elementSpecKey]['default'] === undefined && object[elementSpecKey] === undefined) {\n        errors.push(new ValidationError(key, object, `missing required property \\`${elementSpecKey}\\``));\n      }\n    }\n\n    return errors;\n  }\n\n  }, "\n\nimport getType from './util/get_type';\n\nimport validate from './validate';\n\nimport\n  ValidationError from './error/validation_error';\n\nexport default function validateArray(options) {\n  const array =\n  options.value;\n  const arraySpec = options.valueSpec;\n  const style = options.style;\n\n  const styleSpec = options.styleSpec;\n  const key = options.key;\n  const validateArrayElement =\n  options.arrayElementValidator || validate;\n\n  if (getType(array) !== 'array') {\n    return [new\n    ValidationError(key, array, `array expected, ${getType(array)} found`);\n  ]\n\n  if (arraySpec.length &&

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may not have a \"stops\" property');\n    }\n\n    let errors = [];\n    const value = options.value;\n\n    errors = errors.concat(validateArray({\n        key: options.key,\n        value,\n        valueSpec:\n        options.valueSpec,\n        style: options.style,\n        styleSpec: options.styleSpec,\n        arrayElementValidator: validateFunctionStop\n    }));\n\n    if (getType(value) === 'array' && value.length\n    === 0) {\n        errors.push(new ValidationError(options.key, value, 'array must have at least one stop'));\n    }\n\n    return errors;\n  }\n\n  function validateFunctionStop(options) {\n    let errors = [];\n    const value = options.value;\n    const key\n    = options.key;\n\n    if (getType(value) !== 'array') {\n      return [new ValidationError(key, value, `array\n      expected, ${getType(value)} found`)];\n    }\n\n    if (value.length !== 2) {\n      return [new\n      ValidationError(key, value, `array length 2 expected, length ${value.length} found`)];\n    }\n\n    if\n    (isZoomAndPropertyFunction) {\n      if (getType(value[0]) !== 'object') {\n        return [new\n        ValidationError(key, value, `object expected, ${getType(value[0])} found`)];\n      }\n\n      if (value[0].zoom\n      === undefined) {\n        return [new ValidationError(key, value, 'object stop key must have zoom')];\n      }\n\n      if (value[0].value === undefined) {\n        return [new ValidationError(key, value, 'object stop key\n        must have value')];\n      }\n\n      if\n      (previousStopDomainZoom && previousStopDomainZoom > unbundle(value[0].zoom)) {\n        return [new\n        ValidationError(key, value[0].zoom, 'stop zoom values must appear in ascending order')];\n      }\n\n      if\n      (unbundle(value[0].zoom) !== previousStopDomainZoom) {\n        previousStopDomainZoom =\n        unbundle(value[0].zoom);\n        previousStopDomainValue = undefined;\n        stopDomainValues =\n        {};\n      }\n\n      errors = errors.concat(validateObject({\n        key: `${key}[0]`,\n        value:\n        value[0],\n        valueSpec: {zoom: {}},\n        style: options.style,\n        styleSpec:\n        options.styleSpec,\n        objectElementValidators: {zoom: validateNumber, value:\n        validateStopDomainValue}\n      }));\n    } else {\n      errors =\n      errors.concat(validateStopDomainValue({\n        key: `${key}[0]`,\n        value: value[0],\n        valueSpec:\n        {},\n        style: options.style,\n        styleSpec: options.styleSpec\n      }, value));\n    }\n\n    if\n    (isExpression(deepUnbundle(value[1]))) {\n      return errors.concat([new ValidationError(`${key}[1]`, value[1],\n      'expressions are not allowed in function stops.']));\n    }\n\n    return errors.concat(validate({\n      key:\n      `${key}[1]`,\n      value: value[1],\n      valueSpec: functionValueSpec,\n      style: options.style,\n      styleSpec: options.styleSpec\n    }));\n  }\n\n  function validateStopDomainValue(options, stop) {\n    const\n    type = getType(options.value);\n    const value = unbundle(options.value);\n\n    const reportValue =\n    options.value !== null ? options.value : stop;\n\n    if (!stopKeyType) {\n      stopKeyType = type;\n    } else\n    if (type !== stopKeyType) {\n      return [new ValidationError(options.key, reportValue, `${type} stop domain\n      type must\n      match previous stop domain type ${stopKeyType}`)];\n    }\n\n    if (type !== 'number' && type !== 'string'\n    && type !== 'boolean') {\n      return [new ValidationError(options.key, reportValue, 'stop domain value must be\n      a number, string, or boolean')];\n    }\n\n    if (type !== 'number' && functionType !== 'categorical') {\n      let message = `number expected, ${type} found`;\n\n      if (supportsPropertyExpression(functionValueSpec) &&\n      functionType === undefined) {\n        message += `\\nIf you intended to use a categorical function, specify\n        \"type\": \"categorical\".`;\n      }\n\n      return [new ValidationError(options.key, reportValue, message)];\n    }\n\n    if (functionType === 'categorical' && type === 'number' && (!isFinite(value) || Math.floor(value) !==\n    value)) {\n      return [new ValidationError(options.key, reportValue, `integer expected, found ${value}`)];\n    }\n\n    if (functionType !==\n    'categorical' && type === 'number' && previousStopDomainValue !== undefined && value <\n    previousStopDomainValue) {\n      return [new ValidationError(options.key, reportValue, 'stop domain values\n      must appear in ascending order')];\n    } else {\n      previousStopDomainValue = value;\n    }\n\n    if\n    (functionType === 'categorical' && value in stopDomainValues) {\n      return [new\n      ValidationError(options.key, reportValue, 'stop domain values must be unique')];\n    } else {\n

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(isExpressionFilter(deepUnbundle(options.value))) {\n    return validateExpression(extend({}, options, {\n
expressionContext: 'filter',\n        valueSpec: {value: 'boolean'}\n    }));\n    } else {\n    return
validateNonExpressionFilter(options);\n    }\n\nfunction validateNonExpressionFilter(options) {\n    const value
= options.value;\n    const key = options.key;\n\n    if (getType(value) !== 'array') {\n    return [new ValidationError(key, value, `array expected,
${getType(value)} found`)];\n    }\n\n    const styleSpec = options.styleSpec;\n    let type;\n\n    let errors = [];\n\n    if (value.length < 1) {\n    return [new ValidationError(key, value, 'filter array must have at least 1 element')];\n
}\n\n    errors = errors.concat(validateEnum({\n    key: `${key}[0]`,\n    value: value[0],\n    valueSpec:
styleSpec.filter_operator,\n    style: options.style,\n    styleSpec: options.styleSpec\n }));\n\n    switch
(unbundle(value[0])) {\n    case '<':\n    case '<=':\n    case '>':\n    case '>=':\n    if (value.length >= 2 &&
unbundle(value[1]) === '$type') {\n    errors.push(new ValidationError(key, value, `\"$type\" cannot be use
with operator \"${value[0]}\"`));\n    } /* falls through */\n    case '==':\n    case '!=':\n    if (value.length
!== 3) {\n    errors.push(new
ValidationError(key, value, `filter array for operator \"${value[0]}\" must have 3 elements`));\n    } /* falls
through */\n    case 'in':\n    case 'in':\n    if (value.length >= 2) {\n    type = getType(value[1]);\n    if
(type !== 'string') {\n    errors.push(new ValidationError(`${key}[1]`, value[1], `string expected, ${type}
found`));\n    }\n    }\n    for (let i = 2; i < value.length; i++) {\n    type = getType(value[i]);\n
if (unbundle(value[i]) === '$type') {\n    errors = errors.concat(validateEnum({\n    key:
`${key}[${i}]`,\n    value: value[i],\n    valueSpec: styleSpec.geometry_type,\n    style:
options.style,\n    styleSpec: options.styleSpec\n }));\n    } else if (type !== 'string' && type
!== 'number' && type !== 'boolean') {\n    errors.push(new ValidationError(`${key}[${i}]`,
value[i], `string, number, or boolean expected, ${type} found`));\n    }\n    }\n    break;\n\n    case 'any':\n
case 'all':\n    case 'none':\n    for (let i = 1; i < value.length; i++) {\n    errors =
errors.concat(validateNonExpressionFilter({\n    key: `${key}[${i}]`,\n    value: value[i],\n
style: options.style,\n    styleSpec: options.styleSpec\n }));\n    }\n    break;\n\n    case 'has':\n
case '!has':\n    type = getType(value[1]);\n    if (value.length !== 2) {\n    errors.push(new
ValidationError(key, value, `filter array for \"${value[0]}\" operator must have 2 elements`));\n    } else if (type
!== 'string') {\n    errors.push(new ValidationError(`${key}[1]`, value[1], `string expected, ${type} found`));\n
}\n    }\n    break;\n\n    }\n\n    return errors;\n\n\n\"import validate from './validate';\nimport ValidationError
from './error/validation_error';\nimport getType from './util/get_type';\nimport {isFunction} from
'./function';\nimport {unbundle, deepUnbundle} from './util/unbundle_jsonlint';\nimport
{supportsPropertyExpression} from './util/properties';\n\nexport default function validateProperty(options,
propertyType) {\n    const key = options.key;\n    const style = options.style;\n    const styleSpec =
options.styleSpec;\n    const value = options.value;\n    const propertyKey = options.objectKey;\n    const layerSpec
= styleSpec[`${propertyType}_${options.layerType}`];\n\n    if (!layerSpec) return [];\n\n    const transitionMatch =
propertyKey.match(/^(.*)-transition$/);\n    if (propertyType === 'paint' && transitionMatch &&
layerSpec[transitionMatch[1]] && layerSpec[transitionMatch[1]].transition) {\n    return validate({\n
key,\n    value,\n    valueSpec: styleSpec.transition,\n    style,\n    styleSpec\n });\n    }\n\n    const valueSpec = options.valueSpec || layerSpec[propertyKey];\n    if (!valueSpec) {\n    return [new
ValidationError(key, value, `unknown property \"${propertyKey}\"`);\n    ]\n\n    let tokenMatch;\n    if
(getType(value) === 'string' && supportsPropertyExpression(valueSpec) && !valueSpec.tokens && (tokenMatch =
/^{([^\}]+)}$/).exec(value))) {\n    return [new ValidationError(\n    key, value,\n    `\"${propertyKey}\"
does not support interpolation syntax\n` +\n    `Use an identity property function instead: \\`{ `\"type\":
\"identity\", \"property\": ${JSON.stringify(tokenMatch[1])} \\``);\n    ]\n\n    const errors = [];\n\n    if
(options.layerType === 'symbol') {\n    if (propertyKey === 'text-field' && style && !style.glyphs) {\n
errors.push(new ValidationError(key, value, 'use of \"text-field\" requires a style \"glyphs\" property));\n    }\n
if (propertyKey === 'text-font' && isFunction(deepUnbundle(value)) &&

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unbundle(value.type) === 'identity') {\n      errors.push(new ValidationError(key, value, "\"text-font\" does not
support identity functions")); \n    } \n  } \n  return errors.concat(validate({ \n    key: options.key, \n
value, \n    valueSpec, \n    style, \n    styleSpec, \n    expressionContext: 'property', \n    propertyType, \n
propertyKey \n  })); \n} \n", "\nimport validateProperty from './validate_property'; \n\nexport default function
validatePaintProperty(options) {\n  return validateProperty(options, 'paint'); \n} \n", "\nimport validateProperty from
'./validate_property'; \n\nexport default function validateLayoutProperty(options) {\n  return
validateProperty(options, 'layout'); \n} \n", "\nimport ValidationError from './error/validation_error'; \nimport
{unbundle} from './util/unbundle_jsonlint'; \nimport validateObject from './validate_object'; \nimport validateFilter
from './validate_filter'; \nimport validatePaintProperty from './validate_paint_property'; \nimport
validateLayoutProperty from './validate_layout_property'; \nimport validateSpec from './validate'; \nimport extend
from './util/extend'; \n\nexport default function validateLayer(options) {\n  let errors = []; \n  const layer =
options.value; \n  const key = options.key; \n  const style = options.style; \n  const styleSpec =
options.styleSpec; \n  if (!layer.type && !layer.ref) {\n    errors.push(new ValidationError(key, layer, 'either
"type" or "ref" is required')); \n  } \n  let type = unbundle(layer.type); \n  const ref = unbundle(layer.ref); \n  if
(layer.id) {\n    const layerId = unbundle(layer.id); \n    for (let i = 0; i < options.arrayIndex; i++) {\n
const otherLayer = style.layers[i]; \n      if (unbundle(otherLayer.id) === layerId) {\n        errors.push(new
ValidationError(key, layer.id, `duplicate layer id "${layer.id}", previously used at line
${otherLayer.id.__line__}`)); \n      } \n    } \n  } \n  if ('ref' in layer) {\n    ['type', 'source', 'source-layer', 'filter', 'layout'].forEach((p) => {\n
if (p in layer) {\n      errors.push(new ValidationError(key, layer[p], `"${p}" is prohibited for ref layers`)); \n    } \n  }); \n  let parent; \n  style.layers.forEach((layer) => {\n    if (unbundle(layer.id) ===
ref) parent = layer; \n  }); \n  if (!parent) {\n    errors.push(new ValidationError(key, layer.ref, `ref layer
"${ref}" not found`)); \n  } else if (parent.ref) {\n    errors.push(new ValidationError(key, layer.ref, 'ref
cannot reference another ref layer')); \n  } else {\n    type = unbundle(parent.type); \n  } \n  } else if (type
!== 'background') {\n    if (!layer.source) {\n      errors.push(new ValidationError(key, layer, 'missing required
property "source"')); \n    } else {\n      const source = style.sources
&& style.sources[layer.source]; \n      const sourceType = source && unbundle(source.type); \n      if
(!source) {\n        errors.push(new ValidationError(key, layer.source, `source "${layer.source}" not
found`)); \n      } else if (sourceType === 'vector' && type === 'raster') {\n        errors.push(new
ValidationError(key, layer.source, `layer "${layer.id}" requires a raster source`)); \n      } else if (sourceType
=== 'raster' && type !== 'raster') {\n        errors.push(new ValidationError(key, layer.source, `layer
"${layer.id}" requires a vector source`)); \n      } else if (sourceType === 'vector' && !layer['source-layer']) {\n
errors.push(new ValidationError(key, layer, `layer "${layer.id}" must specify a "source-layer"`)); \n    } \n  } \n  } else if (sourceType === 'raster-dem' && type !== 'hillshade') {\n    errors.push(new ValidationError(key,
layer.source, 'raster-dem source can only be used
with layer type "\\hillshade\\.\\.\\.'); \n  } \n  } else if (type === 'line' && layer.paint && layer.paint['line-gradient']
&& \n    (sourceType !== 'geojson' || !source.lineMetrics)) {\n    errors.push(new
ValidationError(key, layer, `layer "${layer.id}" specifies a line-gradient, which requires a GeoJSON source with
"lineMetrics" enabled.`)); \n  } \n  } \n  } \n  errors = errors.concat(validateObject({ \n    key, \n
value: layer, \n    valueSpec: styleSpec.layer, \n    style: options.style, \n    styleSpec: options.styleSpec, \n
objectElementValidators: {\n      '*()' {\n        return []; \n      }, \n      // We don't want to enforce the
spec's "\"requires\": true` for backward compatibility with refs; \n      // the actual requirement is validated above.
See https://github.com/mapbox/mapbox-gl-js/issues/5772. \n    type() {\n      return validateSpec({ \n
key: `${key}.type`, \n      value: layer.type, \n      valueSpec: styleSpec.layer.type, \n
style: options.style, \n      styleSpec: options.styleSpec, \n      object: layer, \n
objectKey: 'type' \n    }); \n  }, \n  filter: validateFilter, \n  layout(options) {\n    return
validateObject({ \n      layer, \n      key: options.key, \n      value: options.value, \n
style: options.style, \n      styleSpec: options.styleSpec, \n      objectElementValidators: {\n

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    *(options) {\n
        return validateLayoutProperty(extend({layerType: type}, options));\n
    }\n
    });\n
    },\n
    paint(options) {\n
        return validateObject({\n
            layer,\n
            key: options.key,\n
            value: options.value,\n
            style: options.style,\n
            styleSpec: options.styleSpec,\n
            objectElementValidators: {\n
                *(options) {\n
                    return validatePaintProperty(extend({layerType: type}, options));\n
                }\n
            }\n
        });\n
    });\n
    });\n
    return errors;\n
}\n", "\nimport getType from './util/get_type';\nimport\nValidation\nError from './error/validation_error';\n\nexport default function validateString(options) {\n
const value\n= options.value;\n
const key = options.key;\n
const type = getType(value);\n
\n
if (type !== 'string') {\n
return [new\nValidation\nError(key, value, `string expected, ${type} found`)];\n
}\n
return [];\n
}\n", "\nimport\nValidation\nError from './error/validation_error';\nimport {unbundle} from './util/unbundle_jsonlint';\nimport\nvalidate\nObject from './validate_object';\nimport validateEnum from './validate_enum';\nimport validateExpression\nfrom './validate_expression';\nimport validateString from './validate_string';\nimport\ngetType\nfrom\n './util/get_type';\n\nconst\nobjectElementValidators = {\n
promoteId: validatePromoteId\n};\n\nexport default\nfunction\nvalidateSource(options) {\n
const value = options.value;\n
const key = options.key;\n
const styleSpec\n= options.styleSpec;\n
const style = options.style;\n
\n
if (!value.type) {\n
return [new\nValidation\nError(key,\nvalue, `\"type\" is required`)];\n
}\n
\n
const\nvalueType = unbundle(value.type);\n
let errors;\n
\n
switch (type) {\n
case 'vector':\n
case 'raster':\n
case 'raster-dem':\n
errors = validateObject({\n
key,\n
value,\n
valueSpec: styleSpec[`\nsource_${\ntype.replace('-', '_')}`],\n
style: options.style,\n
styleSpec,\n
objectElementValidators\n});\n
return\nerrors;\n
\n
case 'geojson':\n
errors = validateObject({\n
key,\n
value,\n
valueSpec: styleSpec.source_geojson,\n
style,\n
styleSpec,\n
objectElementValidators\n});\n
\n
if (value.cluster) {\n
for (const prop in value.clusterProperties) {\n
const [operator, mapExpr] = value.clusterProperties[prop];\n
const\nreduceExpr =\ntypeof operator\n=== 'string' ? [operator, ['accumulated'], ['get', prop]] : operator;\n
\n
errors.push(...validateExpression({\n
key: `${key}.${prop}.map`,\n
value: mapExpr,\n
expressionContext: 'cluster-map'\n}));\n
\n
errors.push(...validateExpression({\n
key: `${key}.${prop}.reduce`,\n
value: reduceExpr,\n
expressionContext: 'cluster-reduce'\n}));\n
}\n
}\n
}\n
return\nerrors;\n
\n
case 'video':\n
return\nvalidateObject({\n
key,\n
value,\n
valueSpec: styleSpec.source_video,\n
style,\n
styleSpec\n});\n
\n
case\n'image':\n
return\nvalidateObject({\n
key,\n
value,\n
valueSpec: styleSpec.source_image,\n
style,\n
styleSpec\n});\n
\n
case 'canvas':\n
return [new\nValidation\nError(key, null, `Please use\nruntime\nAPIs to add canvas\nsources, rather than\nincluding them in\nstylesheets.`,\n'source.canvas')];\n
\n
default:\n
return\nvalidateEnum({\n
key: `${key}.type`,\n
value: value.type,\n
valueSpec: { values:\n['vector', 'raster', 'raster-dem', 'geojson', 'video', 'image']},\n
style,\n
styleSpec\n});\n
}\n
}\n\nfunction\nvalidatePromoteId({key, value}) {\n
if (getType(value)\n=== 'string') {\n
return\nvalidateString({key, value});\n
}\n
else {\n
const\nerrors = [];\n
for (const prop\nin value) {\n
errors.push(...validateString({key: `${key}.${prop}`, value: value[prop]}));\n
}\n
}\n
return\nerrors;\n
}\n
}\n", "\nimport\nValidation\nError from './error/validation_error';\nimport\ngetType\nfrom\n './util/get_type';\n\nimport\nvalidate\nfrom './validate';\n\nexport default\nfunction\nvalidateLight(options) {\n
const\nlight =\noptions.value;\n
const\nstyleSpec =\noptions.styleSpec;\n
const\nlightSpec =\nstyleSpec.light;\n
const\nstyle =\noptions.style;\n
\n
let\nerrors = [];\n
\n
const\nrootType =\ngetType(light);\n
if (light ===\nundefined) {\n
return\nerrors;\n
}\n
else if (rootType\n!== 'object') {\n
errors =\nerrors.concat([new\nValidation\nError('light',\nlight, `object\nexpected, ${rootType}\nfound`)]);\n
return\nerrors;\n
}\n
\n
for (const\nkey in light) {\n
const\ntransitionMatch =\nkey.match(/^(.*)-transition$/);\n
\n
if (transitionMatch\n&& lightSpec[transitionMatch[1]]\n&& lightSpec[transitionMatch[1]].transition) {\n
errors =\nerrors.concat(validate({\n
key,\n
value: light[key],\n
valueSpec:\nstyleSpec.transition,\n
style,\n
styleSpec\n}));\n
}\n
else if (lightSpec[key]) {\n
errors =\nerrors.concat(validate({\n
key,\n
value: light[key],\n
valueSpec:\nlightSpec[key],\n
style,\n
styleSpec\n}));\n
}\n
else {\n
errors =

```

```

errors.concat([new ValidationError(key, light[key], `unknown property \`${key}\``)];\n    }\n }\n\n return
errors;\n}\n", "// @flow\nimport validateExpression from './validate_expression';\nimport validateString from
 './validate_string';\n\nexport default function validateFormatted(options: any) {\n  if (validateString(options).length
=== 0) {\n    return [];\n  }\n\n  return validateExpression(options);\n}\n", "// @flow\nimport
validateExpression from './validate_expression';\nimport validateString from './validate_string';\n\nexport default
function validateImage(options: any) {\n  if (validateString(options).length === 0) {\n    return [];\n  }\n\n  return validateExpression(options);\n}\n", "\nimport extend from './util/extend';\nimport {unbundle, deepUnbundle}
from './util/unbundle_jsonlint';\nimport {isExpression} from './expression';\nimport {isFunction} from
 './function';\nimport validateFunction from './validate_function';\nimport validateExpression from
 './validate_expression';\nimport validateObject from './validate_object';\nimport validateArray from
 './validate_array';\nimport validateBoolean from './validate_boolean';\nimport validateNumber from
 './validate_number';\nimport validateColor from './validate_color';\nimport validateConstants from
 './validate_constants';\nimport validateEnum
from './validate_enum';\nimport validateFilter from './validate_filter';\nimport validateLayer from
 './validate_layer';\nimport validateSource from './validate_source';\nimport validateLight from
 './validate_light';\nimport validateString from './validate_string';\nimport validateFormatted from
 './validate_formatted';\nimport validateImage from './validate_image';\n\nconst VALIDATORS = {\n  '*': () {\n
return [];\n  },\n  'array': validateArray,\n  'boolean': validateBoolean,\n  'number': validateNumber,\n  'color':
validateColor,\n  'constants': validateConstants,\n  'enum': validateEnum,\n  'filter': validateFilter,\n  'function':
validateFunction,\n  'layer': validateLayer,\n  'object': validateObject,\n  'source': validateSource,\n  'light':
validateLight,\n  'string': validateString,\n  'formatted': validateFormatted,\n  'resolvedImage':
validateImage\n};\n\n// Main recursive validation function. Tracks:\n// - key: string representing
location of validation in style tree. Used only\n// for more informative error reporting.\n// - value: current value
from style being evaluated. May be anything from a\n// high level object that needs to be descended into deeper or
a simple\n// scalar value.\n// - valueSpec: current spec being evaluated. Tracks value.\n// - styleSpec: current full
spec being evaluated.\n\nexport default function validate(options) {\n  const value = options.value;\n  const
valueSpec = options.valueSpec;\n  const styleSpec = options.styleSpec;\n\n  if (valueSpec.expression &&
isFunction(unbundle(value))) {\n    return validateFunction(options);\n  }\n  else if (valueSpec.expression &&
isExpression(deepUnbundle(value))) {\n    return validateExpression(options);\n  }\n  else if (valueSpec.type &&
VALIDATORS[valueSpec.type]) {\n    return VALIDATORS[valueSpec.type](options);\n  }\n  else {\n
const valid = validateObject(extend({}, options, {\n    valueSpec:
valueSpec.type ? styleSpec[valueSpec.type] : valueSpec\n  }));\n  return valid;\n  }\n}\n", "\nimport
ValidationError from './error/validation_error';\nimport validateString from './validate_string';\n\nexport default
function(options) {\n  const value = options.value;\n  const key = options.key;\n  const errors =
validateString(options);\n  if (errors.length) return errors;\n\n  if (value.indexOf('{fontstack}') === -1) {\n
errors.push(new ValidationError(key, value, "\"glyphs\" url must include a \"{fontstack}\" token"));}\n  }\n\n  if
(value.indexOf('{range}') === -1) {\n    errors.push(new ValidationError(key, value, "\"glyphs\" url must include a
 \"{range}\" token"));}\n  }\n\n  return errors;\n}\n", "\nimport validateConstants from
 './validate/validate_constants';\nimport validate from './validate/validate';\nimport latestStyleSpec from
 './reference/latest';\nimport validateGlyphsURL from './validate/validate_glyphs_url';\n\nimport validateSource
from './validate/validate_source';\nimport validateLight from './validate/validate_light';\nimport validateLayer from
 './validate/validate_layer';\nimport validateFilter from './validate/validate_filter';\nimport validatePaintProperty from
 './validate/validate_paint_property';\nimport validateLayoutProperty from
 './validate/validate_layout_property';\n\n/**\n * Validate a Mapbox GL style against the style specification. This
entrypoint,\n * `mapbox-gl-style-spec/lib/validate_style.min`, is designed to produce as\n * small a browserify
bundle as possible by omitting unnecessary functionality\n * and legacy style specifications.\n * \n * @private\n *
@param {Object} style The style to be validated.\n * @param {Object} [styleSpec] The style specification to
validate against.\n * If omitted, the latest style spec is used.\n * @returns {Array<ValidationError>}\n *

```



[0,[3,1],[5,1],[7,1],[9,1],[9,1],[12,2],[13,1],[13,1],[13,1],[13,1],[13,1],[13,1],[15,2],[15,3],[20,3],[19,1],[19,3],[16,2],[16,3],[25,1],[25,3]],\nperformAction:

```
function anonymous(yytext, yyleng, yylineno, yy, yystate /* action[1] */, $$ /* vstack */, _$ /* lstack */) {\n/* this == yyval */\nvar $0 = $.length - 1;\nswitch (yystate) {\ncase 1:\n// replace escaped characters with actual character\n    this.$ = new String(yytext.replace(/\\(\\\\|\\\"|\\'|\\\\n|\\\\r|\\\\t|\\\\v|\\\\f|\\\\b)/g, '\\\"$'+\"1\")\n        .replace(/\\(\\\\n|\\\\r|\\\\t|\\\\v|\\\\f|\\\\b)/g, '\\n')\n        .replace(/\\(\\\\r|\\\\g, '\\r')\n        .replace(/\\(\\\\t|\\\\g, '\\t')\n        .replace(/\\(\\\\v|\\\\g, '\\v')\n        .replace(/\\(\\\\f|\\\\g, '\\f')\n        .replace(/\\(\\\\b|\\\\g, '\\b')\n    this.$.__line__ = this.$.__first_line__;\n\nbreak;\ncase 2:\n    this.$ = new Number(yytext);\n    this.$.__line__ = this.$.__first_line__;\n\nbreak;\ncase 3:\n    this.$ = null;\n\nbreak;\ncase 4:\n    this.$ = new Boolean(true);\n    this.$.__line__ = this.$.__first_line__;\n\nbreak;\ncase 5:\n    this.$ = new Boolean(false);\n    this.$.__line__ = this.$.__first_line__;\n\nbreak;\ncase 6:\nreturn this.$ = $$[$0-1];\nbreak;\ncase 13:\nthis.$ = {}; Object.defineProperty(this.$, '__line__', {\n    value: this.$.__first_line__,\n    enumerable: false\n});\nbreak;\ncase 14: case 19:\nthis.$ = $$[$0-1]; Object.defineProperty(this.$, '__line__', {\n    value: this.$.__first_line__,\n    enumerable: false\n});\nbreak;\ncase 15:\nthis.$ = [$$[$0-2], $$[$0]]; \nbreak;\ncase 16:\nthis.$ = {}; this.$[$$[$0][0]] = $$[$0][1]; \nbreak;\ncase 17:\nthis.$ = $$[$0-2]; $$[$0-2][$$[$0][0]] = $$[$0][1]; \nbreak;\ncase 18:\nthis.$ = []; Object.defineProperty(this.$, '__line__', {\n    value: this.$.__first_line__,\n    enumerable: false\n});\nbreak;\ncase 20:\nthis.$ = [$$[$0]]; \nbreak;\ncase 21:\nthis.$ = $$[$0-2]; $$[$0-2].push($$[$0]); \nbreak;\n}\n},\ntable:
```

[[{3:5,4:\$V0,5:6,6:\$V1,7:3,8:\$V2,9:4,10:\$V3,11:\$V4,12:1,13:2,15:7,16:8,17:\$V5,23:\$V6},{1:[3]},{14:[1,16]},o(\$V7,[2,7]),o(\$V7,[2,8]),o(\$V7,[2,9]),o(\$V7,[2,10]),o(\$V7,[2,11]),o(\$V7,[2,12]),o(\$V7,[2,3]),o(\$V7,[2,4]),o(\$V7,[2,5]),o([14,18,21,22,24],[2,1]),o(\$V7,[2,2]),{3:20,4:\$V0,18:[1,17],19:18,20:19},{3:5,4:\$V0,5:6,6:\$V1,7:3,8:\$V2,9:4,10:\$V3,11:\$V4,13:23,15:7,16:8,17:\$V5,23:\$V6,24:[1,21],25:22},{1:[2,6]},o(\$V7,[2,13]),{18:[1,24],22:[1,25]},o(\$V8,[2,16]),{21:[1,26]},o(\$V7,[2,18]),{22:[1,28],24:[1,27]},o(\$V9,[2,20]),o(\$V7,[2,14]),{3:20,4:\$V0,20:29},{3:5,4:\$V0,5:6,6:\$V1,7:3,8:\$V2,9:4,10:\$V3,11:\$V4,13:30,15:7,16:8,17:\$V5,23:\$V6},o(\$V7,[2,19]),{3:5,4:\$V0,5:6,6:\$V1,7:3,8:\$V2,9:4,10:\$V3,11:\$V4,13:31,15:7,16:8,17:\$V5,23:\$V6},o(\$V8,[2,17]),o(\$V8,[2,15]),o(\$V9,[2,21])],\ndefaultActions:

```
{16:[2,6]},\nparseError: function parseError(str, hash) {\n    if (hash.recoverable) {\n        this.trace(str);\n    } else {\n        throw new Error(str);\n    }\n},\nparse: function parse(input) {\n    var self = this, stack = [], tstack = [], vstack = [null], lstack = [], table = this.table, yytext = "", yylineno = 0, yyleng = 0, recovering = 0, ERROR = 2, EOF = 1;\n    var args = lstack.slice.call(arguments, 1);\n    var lexer = Object.create(this.lexer);\n    var sharedState = { yy: {} }; \n    for (var k in this.yy) {\n        if (Object.prototype.hasOwnProperty.call(this.yy, k)) {\n            sharedState.yy[k] = this.yy[k];\n        }\n    }\n    lexer.setInput(input, sharedState.yy);\n    sharedState.yy.lexer = lexer;\n    sharedState.yy.parser = this;\n    if (typeof lexer.yylloc == 'undefined') {\n        lexer.yylloc = {};\n    }\n    var yyloc = lexer.yylloc;\n    lstack.push(yyloc);\n    var ranges = lexer.options && lexer.options.ranges;\n    if (typeof sharedState.yy.parseError === 'function') {\n        this.parseError = sharedState.yy.parseError;\n    } else {\n        this.parseError = Object.getPrototypeOf(this).parseError;\n    }\n    function popStack(n) {\n        stack.length = stack.length - 2 * n;\n        vstack.length = vstack.length - n;\n        lstack.length = lstack.length - n;\n    }\n    _token_stack:\n    function lex() {\n        var token;\n        token = lexer.lex() || EOF;\n        if (typeof token !== 'number') {\n            token = self.symbols_[token] || token;\n        }\n        return token;\n    }\n    var symbol, preErrorSymbol, state, action, a, r, yyval = {}, p, len, newState, expected;\n    while (true) {\n        state = stack[stack.length - 1];\n        if (this.defaultActions[state]) {\n            action = this.defaultActions[state];\n        } else {\n            if (symbol === null || typeof symbol == 'undefined') {\n                symbol = lex();\n            }\n            action = table[state] && table[state][symbol];\n        }\n        if (typeof action === 'undefined' || !action.length || !action[0]) {\n            var errStr = ";\n            expected = [];\n            for (p in table[state]) {\n                if (this.terminals_[p] && p > ERROR) {\n                    expected.push("\" + this.terminals_[p] + "\"");\n                }\n            }\n            if (lexer.showPosition) {\n                errStr = 'Parse error on line ' + (yylineno + 1) + ':\n' +
```

```

lexer.showPosition() + "\nExpecting ' + expected.join(', ') + ', got \'' + (this.terminals_[symbol] || symbol) + '\'';\n
    } else {\n        errStr = 'Parse error on line ' + (yylineno + 1) + ': Unexpected ' + (symbol === EOF ? 'end
of input' : '\'' + (this.terminals_[symbol] || symbol) + '\'');\n        this.parseError(errStr, {\n
    text: lexer.match,\n        token: this.terminals_[symbol] || symbol,\n        line: lexer.yylineno,\n
    loc: yyloc,\n        expected: expected\n        });\n        if (action[0] instanceof Array
&& action.length > 1) {\n            throw new
Error('Parse Error: multiple actions possible at state: ' + state + ', token: ' + symbol);\n        } switch
(action[0]) {\n        case 1:\n            stack.push(symbol);\n            vstack.push(lexer.yytext);\n
lstack.push(lexer.yylloc);\n            stack.push(action[1]);\n            symbol = null;\n            if (!preErrorSymbol) {\n
                yytext = lexer.yytext;\n                yylineno = lexer.yylineno;\n
                yyloc = lexer.yylloc;\n                if (recovering > 0) {\n                    recovering--;\n                } else {\n
                    symbol = preErrorSymbol;\n                    preErrorSymbol = null;\n                } break;\n            case 2:\n
len = this.productions_[action[1]][1];\n                yyval.$ = vstack[vstack.length - len];\n                yyval._$ = {\n
first_line: lstack[lstack.length - (len || 1)].first_line,\n
last_line: lstack[lstack.length - 1].last_line,\n                first_column: lstack[lstack.length - (len || 1)].first_column,\n
last_column: lstack[lstack.length - 1].last_column\n                };\n                if (ranges) {\n
yyval._$.range = [\n                    lstack[lstack.length - (len || 1)].range[0],\n                    lstack[lstack.length -
1].range[1]\n                ];\n                } r = this.performAction.apply(yyval, [\n                yytext,\n
yyval._$.range,\n                yylineno,\n                sharedState.yy,\n                action[1],\n                vstack,\n                lstack\n
                ].concat(args));\n                if (typeof r !== 'undefined') {\n                    return r;\n                } if (len) {\n
stack = stack.slice(0, -1 * len * 2);\n                vstack = vstack.slice(0, -1 * len);\n                lstack = lstack.slice(0,
-1 * len);\n                }\n
stack.push(this.productions_[action[1]][0]);\n                vstack.push(yyval.$);\n                lstack.push(yyval._$);\n
newState = table[stack[stack.length - 2]][stack[stack.length - 1]);\n                stack.push(newState);\n                break;\n
case 3:\n                return true;\n            }\n        }\n        return true;\n    };\n    /* generated by jison-lex 0.3.4 */\nvar lexer =
(function() {\nvar lexer = ({\nEOF: 1,\nparseError: function parseError(str, hash) {\n        if (this.yy.parser) {\n
            this.yy.parser.parseError(str, hash);\n        } else {\n            throw new Error(str);\n        } },\n\n// resets the
lexer, sets new input\nsetInput: function (input, yy) {\n        this.yy = yy || this.yy || {};\n        this._input = input;\n
this._more = this._backtrack = this.done = false;\n        this.yylineno = this.yyleng = 0;\n        this.yytext =
this.matched = this.match = '';\n        this.conditionStack = ['INITIAL'];\n        this.yylloc = {\n
            first_line: 1,\n            first_column: 0,\n            last_line: 1,\n            last_column: 0\n        }; \n        if
(this.options.ranges) {\n            this.yylloc.range = [0,0];\n        }\n        this.offset = 0;\n        return this;\n    },\n\n//
consumes and returns one char from the input\ninput: function () {\n        var ch = this._input[0];\n        this.yytext +=
ch;\n        this.yyleng++;\n        this.offset++;\n        this.match += ch;\n        this.matched += ch;\n        var lines =
ch.match(/(?:\\r\\n?|\\n).*/g);\n        if (lines) {\n            this.yylineno++;\n            this.yylloc.last_line++;\n        }
else {\n            this.yylloc.last_column++;\n        }\n        if (this.options.ranges) {\n            this.yylloc.range[1]++;\n
        }\n        this._input = this._input.slice(1);\n        return ch;\n    },\n\n// unshifts one char (or a string) into the
input\nunput: function (ch) {\n        var len = ch.length;\n        var lines = ch.split(/(?:\\r\\n?|\\n)/g);\n        this._input =
ch + this._input;\n        this.yytext = this.yytext.substr(0, this.yytext.length - len);\n
//this.yyleng -= len;\n        this.offset -= len;\n        var oldLines = this.match.split(/(?:\\r\\n?|\\n)/g);\n        this.match =
this.match.substr(0, this.match.length - 1);\n        this.matched = this.matched.substr(0, this.matched.length -
1);\n        if (lines.length - 1) {\n            this.yylineno -= lines.length - 1;\n        }\n        var r =
this.yylloc.range;\n        this.yylloc = {\n            first_line: this.yylloc.first_line,\n            last_line: this.yylineno +
1,\n            first_column: this.yylloc.first_column,\n            last_column: lines ?\n                (lines.length ===
oldLines.length ? this.yylloc.first_column : 0)\n                + oldLines[oldLines.length - lines.length].length -
lines[0].length : \n                this.yylloc.first_column - len\n        };\n        if (this.options.ranges) {\n
            this.yylloc.range = [r[0], r[0] + this.yyleng - len];\n        }\n        this.yyleng = this.yytext.length;\n
return this;\n    },\n\n// When called from action, caches matched text and appends it on next action\nmore: function

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() {\n    this._more = true;\n    return this;\n },\n\n// When called from action, signals the lexer that this rule
fails to match the input, so the next matching rule (regex) should be tested instead.\nreject:function () {\n    if
(this.options.backtrack_lexer) {\n        this._backtrack = true;\n    } else {\n        return
this.parseError('Lexical error on line ' + (this.yylineno + 1) + '. You can only invoke reject() in the lexer when the
lexer is of the backtracking persuasion (options.backtrack_lexer = true).\\n' + this.showPosition(), {\n            text:
\\",\n            token: null,\n            line: this.yylineno\n        });\n    }\n    return this;\n },\n\n// retain
first
n characters of the match\nless:function (n) {\n    this.unput(this.match.slice(n));\n },\n\n// displays already
matched input, i.e. for error messages\npastInput:function () {\n    var past = this.matched.substr(0,
this.matched.length - this.match.length);\n    return (past.length > 20 ? '...:') + past.substr(-20).replace(/\\n/g,
\\");\n },\n\n// displays upcoming input, i.e. for error messages\nupcomingInput:function () {\n    var next =
this.match;\n    if (next.length < 20) {\n        next += this._input.substr(0, 20-next.length);\n    }\n    return
(next.substr(0,20) + (next.length > 20 ? '...' : '')).replace(/\\n/g, \\");\n },\n\n// displays the character position where
the lexing error occurred, i.e. for error messages\nshowPosition:function () {\n    var pre = this.pastInput();\n    var c = new Array(pre.length + 1).join("\\-");\n    return pre + this.upcomingInput() + "\\n" + c + "\\^";\n
},\n\n// test the lexed
token: return FALSE when not a match, otherwise return token\nntest_match:function (match, indexed_rule) {\n
var token,\n    lines,\n    backup;\n\n    if (this.options.backtrack_lexer) {\n        // save context\n
backup = {\n        yylineno: this.yylineno,\n        yylloc: {\n            first_line: this.yylloc.first_line,\n
last_line: this.last_line,\n            first_column: this.yylloc.first_column,\n            last_column:
this.yylloc.last_column\n        },\n        yytext: this.yytext,\n        match: this.match,\n
matches: this.matches,\n        matched: this.matched,\n        yyleng: this.yyleng,\n        offset:
this.offset,\n        _more: this._more,\n        _input: this._input,\n        yy: this.yy,\n
conditionStack: this.conditionStack.slice(0),\n        done:
this.done\n    };\n    if (this.options.ranges) {\n        backup.yylloc.range =
this.yylloc.range.slice(0);\n    }\n    }\n\n    lines = match[0].match(/(?:\\r\\n?|\\n).*/g);\n    if (lines) {\n
this.yylineno += lines.length;\n    }\n    this.yylloc = {\n        first_line: this.yylloc.last_line,\n
last_line: this.yylineno + 1,\n        first_column: this.yylloc.last_column,\n        last_column: lines ?\n
lines[lines.length - 1].length - lines[lines.length - 1].match(/\\r?\\n?/)[0].length :\n
this.yylloc.last_column + match[0].length\n    };\n    this.yytext += match[0];\n    this.match += match[0];\n
this.matches = match;\n    this.yyleng = this.yytext.length;\n    if (this.options.ranges) {\n
this.yylloc.range = [this.offset, this.offset += this.yyleng];\n    }\n    this._more = false;\n    this._backtrack
= false;\n    this._input = this._input.slice(match[0].length);\n    this.matched += match[0];\n    token =
this.performAction.call(this, this.yy, this, indexed_rule, this.conditionStack[this.conditionStack.length - 1]);\n    if
(this.done && this._input) {\n        this.done = false;\n    }\n    if (token) {\n        return token;\n    } else
if (this._backtrack) {\n        // recover context\n        for (var k in backup) {\n            this[k] = backup[k];\n
        }\n        return false; // rule action called reject() implying the next rule should be tested instead.\n    }\n
return false;\n },\n\n// return next match in input\nnext:function () {\n    if (this.done) {\n        return
this.EOF;\n    }\n    if (!this._input) {\n        this.done = true;\n    }\n\n    var token,\n        match,\n
tempMatch,\n        index;\n    if (!this._more) {\n
this.yytext = ";\n        this.match = ";\n    }\n    var rules = this._currentRules();\n    for (var i = 0; i <
rules.length; i++) {\n        tempMatch = this._input.match(this.rules[rules[i]]);\n        if (tempMatch &&
(!match || tempMatch[0].length > match[0].length)) {\n            match = tempMatch;\n            index = i;\n
if (this.options.backtrack_lexer) {\n                token = this.test_match(tempMatch, rules[i]);\n            }\n
if (token !== false) {\n                return token;\n            } else if (this._backtrack) {\n                match =
false;\n                continue; // rule action called reject() implying a rule Mismatch.\n            } else {\n
// else: this is a lexer rule which consumes input without producing a token (e.g. whitespace)\n
return false;\n            }\n        } else if (!this.options.flex)

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return [e];\n  }\n\n  return validateStyleMin(s, styleSpec);\n}\n\n\nexport const source =
validateStyleMin.source;\nexport const light = validateStyleMin.light;\nexport const layer =
validateStyleMin.layer;\nexport const filter = validateStyleMin.filter;\nexport const paintProperty =
validateStyleMin.paintProperty;\nexport const layoutProperty = validateStyleMin.layoutProperty;\n", "//
@flow\n\nimport validateStyle from './validate_style.min';\nimport {v8} from './style-spec';\nimport readStyle from
'./read_style';\nimport ValidationError from './error/validation_error';\nimport getType from
'./util/get_type';\n\nconst SUPPORTED_SPEC_VERSION = 8;\nconst MAX_SOURCES_IN_STYLE =
15;\n\nfunction isValid(value: ?string, regex: RegExp):
boolean {\n  if (!value || getType(value) !== 'string') return true;\n  return !!value.match(regex);\n}\n\nfunction
getSourceCount(source: Object): number {\n  if (source.url) {\n    return source.url.split(',').length;\n  } else {\n
return 0;\n  }\n}\n\nfunction getAllowedKeyErrors(obj: Object, keys: Array<*>, path: ?string):
Array<?ValidationError> {\n  const allowed = new Set(keys);\n  const errors = [];\n  Object.keys(obj).forEach(k
=> {\n    if (!allowed.has(k)) {\n      const prop = path ? `.${k}` : null;\n      errors.push(new
ValidationError(prop, obj[k], `Unsupported property \"${k}\"`));\n    }\n  });\n  return errors;\n}\n\nfunction
getSourceErrors(source: Object, i: number): Array<?ValidationError> {\n  const errors = [];\n\n  /*\n   * Inlined
sources are not supported by the Mapbox Styles API, so only\n   * \"type\", \"url\", and \"tileSize\" properties are
valid\n   *\n   * const sourceKeys = ['type',
'url', 'tileSize'];\n   errors.push(...getAllowedKeyErrors(source, sourceKeys, 'source'));\n\n   /*\n   * \"source\" is
required. Valid examples:\n   * mapbox://mapbox.abcd1234\n   * mapbox://penny.abcd1234\n   *
mapbox://mapbox.abcd1234,penny.abcd1234\n   */\n   const sourceUrlPattern = /^mapbox:\\\\(\\/([\\^]*))$/;\n   if
(!isValid(source.url, sourceUrlPattern)) {\n     errors.push(new ValidationError(`sources[${i}]`, source.url, 'Source
url must be a valid Mapbox tileset url'));\n   }\n\n   return errors;\n}\n\nfunction getSourcesErrors(sources: Object):
Array<?ValidationError> {\n  const errors = [];\n  let count = 0;\n\n  Object.keys(sources).forEach((s: string, i:
number) => {\n    const sourceErrors = getSourceErrors(sources[s], i);\n\n    // If source has errors, skip
counting\n    if (!sourceErrors.length) {\n      count = count + getSourceCount(sources[s]);\n    }\n\n    errors.push(...sourceErrors);\n  });\n\n  if (count
> MAX_SOURCES_IN_STYLE) {\n    errors.push(new ValidationError('sources', null, `Styles must contain
${MAX_SOURCES_IN_STYLE} or fewer sources`));\n  }\n\n  return errors;\n}\n\nfunction getRootErrors(style:
Object, specKeys: Array<any>): Array<?ValidationError> {\n  const errors = [];\n\n  /*\n   * The following keys
are optional but fully managed by the Mapbox Styles\n   * API. Values on stylesheet on POST or PATCH will be
ignored: \"owner\", \n   * \"id\", \"cacheControl\", \"draft\", \"created\", \"modified\"\n   *\n   * The following
keys are optional. The Mapbox Styles API respects value on\n   * stylesheet on PATCH, but ignores the value on
POST: \"visibility\"\n   *\n   const optionalRootProperties = [\n     'owner',\n     'id',\n     'cacheControl',\n
'draft',\n     'created',\n     'modified',\n     'visibility'\n   ];\n\n   const allowedKeyErrors =
getAllowedKeyErrors(style, [...specKeys, ...optionalRootProperties]);\n
errors.push(...allowedKeyErrors);\n\n   if (style.version > SUPPORTED_SPEC_VERSION || style.version <
SUPPORTED_SPEC_VERSION) {\n     errors.push(new ValidationError('version', style.version, `Style version
must be ${SUPPORTED_SPEC_VERSION}`));\n   }\n\n   /*\n   * \"glyphs\" is optional. If present, valid
examples:\n   * mapbox://fonts/penny/{fontstack}/{range}.pbf\n   *
mapbox://fonts/mapbox/{fontstack}/{range}.pbf\n   */\n   const glyphUrlPattern =
/^mapbox:\\\\(\\/fonts\\(\\/([\\^]*))\\(\\/fontstack\\)\\(\\/range\\).pbf$/;\n   if (!isValid(style.glyphs, glyphUrlPattern)) {\n
errors.push(new ValidationError('glyphs', style.glyphs, 'Styles must reference glyphs hosted by Mapbox'));\n   }\n\n
/*\n   * \"sprite\" is optional. If present, valid examples:\n   * mapbox://sprites/penny/abcd1234\n   *
mapbox://sprites/mapbox/abcd1234/draft\n   * mapbox://sprites/cyrus/abcd1234/abcd1234\n   */\n   const
spriteUrlPattern = /^mapbox:\\\\(\\/sprites\\(\\/([\\^]*))\\(\\/([\\^]*))\\(\\/([\\^]*))/?$/;\n
if (!isValid(style.sprite, spriteUrlPattern)) {\n     errors.push(new ValidationError('sprite', style.sprite, 'Styles
must reference sprites hosted by Mapbox'));\n   }\n\n   /*\n   * \"visibility\" is optional. If present, valid
examples:\n   * \"private\"\n   * \"public\"\n   */\n   const visibilityPattern = /^(public|private)$/;\n   if

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(!isValid(style.visibility, visibilityPattern)) {\n      errors.push(new ValidationError('visibility', style.visibility,
'Style visibility must be public or private'));\n    }\n\n    return errors;\n  }\n\n  /**\n   * Validate a Mapbox GL style
against the style specification and check for\n   * compatibility with the Mapbox Styles API.\n   * @param
{Object} style The style to be validated.\n   * @returns {Array<ValidationError>}\n   * @example\n   * var
validateMapboxApiSupported = require('mapbox-gl-style-spec/lib/validate_style_mapbox_api_supported.js');\n   *
var errors = validateMapboxApiSupported(style);\n   */\n  export default
function validateMapboxApiSupported(style: Object): Array<?ValidationError> {\n    let s = style;\n    try {\n      s
= readStyle(s);\n    } catch (e) {\n      return [e];\n    }\n\n    let errors = validateStyle(s, v8)\n    .concat(getRootErrors(s, Object.keys(v8.$root)));\n\n    if (s.sources) {\n      errors =
errors.concat(getSourcesErrors(s.sources));\n    }\n\n    return errors;\n  }\n\n  /** @flow\n  \n  type ExpressionType =
'data-driven' | 'cross-faded' | 'cross-faded-data-driven' | 'color-ramp' | 'data-constant' | 'constant';\n  type
ExpressionParameters = Array<'zoom' | 'feature' | 'feature-state' | 'heatmap-density' | 'line-progress'>;\n  type
ExpressionSpecification = {\n    interpolated: boolean,\n    parameters: ExpressionParameters\n  }\n\n  export type
StylePropertySpecification = {\n    type: 'number',\n    'property-type': ExpressionType,\n    expression?:
ExpressionSpecification,\n    transition: boolean,\n    default?: number\n  } | {\n    type: 'string',\n    'property-type':
ExpressionType,\n    expression?: ExpressionSpecification,\n    transition: boolean,\n    default?: string,\n    tokens?:
boolean\n  } | {\n    type: 'boolean',\n    'property-type': ExpressionType,\n    expression?: ExpressionSpecification,\n
transition: boolean,\n    default?: boolean\n  } | {\n    type: 'enum',\n    'property-type': ExpressionType,\n
expression?: ExpressionSpecification,\n    values: {[string]: {}},\n    transition: boolean,\n    default?: string\n  } | {\n
type: 'color',\n    'property-type': ExpressionType,\n    expression?: ExpressionSpecification,\n    transition:
boolean,\n    default?: string,\n    overridable: boolean\n  } | {\n    type: 'array',\n    value: 'number',\n    'property-type':
ExpressionType,\n    expression?: ExpressionSpecification,\n    length?: number,\n    transition: boolean,\n
default?: Array<number>\n  } | {\n    type: 'array',\n    value: 'string',\n    'property-type': ExpressionType,\n
expression?: ExpressionSpecification,\n    length?: number,\n    transition: boolean,\n    default?: Array<string>\n  };\n\n  import v8 from
'./reference/v8.json';\n  import latest from './reference/latest';\n  import format from './format';\n  import migrate from
'./migrate';\n  import composite from './composite';\n  import derefLayers from './deref';\n  import diff from
'./diff';\n  import ValidationError from './error/validation_error';\n  import ParsingError from
'./error/parsing_error';\n  import {StyleExpression, isExpression, createExpression, createPropertyExpression,
normalizePropertyExpression, ZoomConstantExpression, ZoomDependentExpression, StylePropertyFunction} from
'./expression';\n  import featureFilter from './feature_filter';\n  import convertFilter from
'./feature_filter/convert';\n  import Color from './util/color';\n  import {createFunction, isFunction} from
'./function';\n  import convertFunction from './function/convert';\n  import {eachSource, eachLayer, eachProperty}
from './visit';\n  import validate from './validate_style';\n  import
validateMapboxApiSupported from './validate_mapbox_api_supported';\n\n  const expression = {\n    StyleExpression,\n
isExpression,\n    createExpression,\n    createPropertyExpression,\n    normalizePropertyExpression,\n    ZoomConstantExpression,\n
ZoomDependentExpression,\n    StylePropertyFunction\n  };\n\n  const styleFunction = {\n    convertFunction,\n    createFunction,\n
isFunction\n  };\n\n  const visit = {eachSource, eachLayer, eachProperty};\n\n  export {\n    v8,\n    latest,\n    format,\n
migrate,\n    composite,\n    derefLayers,\n    diff,\n    ValidationError,\n    ParsingError,\n    expression,\n
featureFilter,\n    convertFilter,\n    Color,\n    styleFunction as function,\n    validate,\n
validateMapboxApiSupported,\n    visit\n  };\n\n  validate.parsed = validate;\n  validate.latest =
validate;\n\n  ], "names": ["sortKeysBy", "obj", "reference", "const", "result", "key", "undefined", "format", "style", "space", "$root", "layers", "map", "layer", "stringifyPretty", "indent", "global", "this", "require$$0", "require$$1", "getPropertyReference", "propertyName", "let", "i", "Reference", "layout", "length", "paint", "eachSource", "callback", "k", "sources", "eachLayer", "eachProperty", "options", "inner", "propertyType", "properties", "Object", "keys", "forEach", "path", "id", "value", "set", "x", "eachLayout", "indexOf", "eachPaint", "resolveConstant", "constants", "isFunction", "Array", "isArray", "stops", "renameProperty", "from", "to", "version", "source", "type", "url", "coordinates", "coord", "reverse", "property", "stop", "mi

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grateFontstackURL", "input", "inputParsed", "URL", "parse", "inputPathnameParts", "pathname", "split", "protocol", "hostname", "glyphs", "migrateFontStack", "font", "splitAndTrim", "string", "s", "trim", "Error", "firstSymbolLayer", "symbolLayers", "splice", "concat", "output", "inputs", "ParsingError", "message", "super", "Scope", "parent", "bindings", "ref", "name", "expression", "get", "has", "NullType", "kind", "NumberType", "StringType", "BooleanType", "ColorType", "ObjectType", "ValueType", "ErrorType", "CollatorType", "FormattedType", "ResolvedImageType", "array", "itemType", "N", "toString", "valueMemberTypes", "checkSubtype", "expected", "t", "memberType", "Color", "r", "g", "b", "a", "rgba", "parseCSSColor", "toArray", "Math", "round", "black", "white", "transparent", "red", "Collator", "caseSensitive", "diacriticSensitive", "locale", "sensitivity", "collator", "Intl", "usage", "compare", "lhs", "rhs", "resolvedLocale", "resolvedOptions", "FormattedSection", "text", "image", "scale", "fontStack", "textColor", "Formatted", "sections", "fromString", "unformatted", "isEmpty", "some", "section", "factory", "join", "serialize", "serialized", "push", "ResolvedImage", "available", "validateRGB", "isValue", "mixed", "item", "typeOf", "String", "JSON", "stringify", "Literal", "args", "context", "error", "expectedType", "evaluate", "eachChild", "possibleOutputs", "RuntimeError", "toJSON", "types", "number", "boolean", "object", "Assertion", "floor", "parsed", "ctx", "fn", "arg", "FormatExpression", "firstArg", "nextTokenMaybeObject", "lastExpression", "content", "evaluateSection", "evaluatedContent", "ImageExpression", "evaluatedImageName", "availableImages", "Coercion", "Boolean", "c", "parseColor", "num", "Number", "isNaN", "valueToString", "child", "geometryTypes", "EvaluationContext", "globals", "feature", "featureState", "formattedSection", "\_parseColorCache", "geometryType", "cached", "CompoundExpression", "\_evaluate", "op", "definition", "definitions", "availableOverloads", "overloads", "filter", "signature", "signatureContext", "ParsingContext", "registry", "scope", "parsedArgs", "argParseFailed", "params", "errors", "ref\$1", "signatures", "stringifySignature", "actualTypes", "register", "CollatorExpression", "isFeatureConstant", "e", "test", "isStateConstant", "isGlobalPropertyConstant", "Var", "boundExpression", "part", "expr", "index", "\_parse", "annotate", "typeAnnotation", "Expr", "actual", "isConstant", "ec", "isTypeAnnotation", "childrenConstant", "findStopLessThanOrEqualTo", "lastIndex", "lowerIndex", "upperIndex", "currentIndex", "currentValue", "nextValue", "Step", "labels", "outputs", "label", "outputType", "Infinity", "labelKey", "valueKey", "stopCount", "color", "d", "Xn", "Yn", "Zn", "t0", "t1", "t2", "t3", "deg2rad", "PI", "rad2deg", "xyz2lab", "pow", "lab2xyz", "xyz2rgb", "rgb2xyz", "rgbToLab", "rgbColor", "l", "y", "z", "alpha", "labToRgb", "labColor", "interpolateLab", "interpolateNumber", "rgbToHcl", "h", "atan2", "sqrt", "hclToRgb", "hclColor", "cos", "sin", "interpolateHue", "interpolateHcl", "lab", "forward", "interpolate", "hcl", "Interpolate", "operator", "interpolation", "interpolationFactor", "lower", "upper", "exponentialInterpolation", "base", "controlPoints", "ub", "UnitBezier", "solve", "slice", "rest", "outputLower", "outputUpper", "toLowerCase", "lowerValue", "upperValue", "difference", "progress", "Coalesce", "needsAnnotation", "argCount", "requestedImageName", "Let", "binding", "At", "isComparableType", "isComparableRuntimeValue", "needle", "isSearchableRuntimeValue", "haystack", "In", "Match", "inputType", "cases", "otherwise", "labelContext", "abs", "MAX\_SAFE\_INTEGER", "out", "sortedLabels", "sort", "groupedByOutput", "outputLookup", "outputIndex", "coerceLabel", "Case", "branches", "eq", "neq", "lt", "gt", "lteq", "gteq", "eqCollate", "neqCollate", "ltCollate", "gtCollate", "lteqCollate", "gteqCollate", "makeComparison", "compareBasic", "compareWithCollator", 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"create", "evaluateIdentityFunction", "featureFunctions", "zoomStops", "featureFunctionStops", "interpolationType", "bind", "\_", "coalesce", "keyType", "evaluated", "interp", "colorSpace", "evaluatedLower", "apply", "evaluatedUpper", "values", "StyleExpression", "\_warningHistory", "\_evaluator", "\_defaultValue", "getDefaultValue", "\_enumValues", "evaluateWithoutErrorHandling", "console", "warn", "isExpression", "createExpression", "parser", "getExpectedType", "ZoomConstantExpression", "\_styleExpression", "isStateDependent", "ZoomDependentExpression", "createPropertyExpression", "isZoomConstant", "zoomCurve", "findZoomCurve", "StylePropertyFunction", "specification", "\_parameters", "\_specification", "deserialize", "normalizePropertyExpression", "err





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AAA,IAC9FtC,IAAM4tB,OAAA,GAUU,IAAIC,GAJJ,CAAQzrB,IAAR,CAAhBpC,CAD8F;EAAA,IAE9FA,IAA  
M+O,MAAA,GAAS,EAAf/O,CAF8F;EAAA,IAG9FmC,MAAA,CAAOC,IAAP,CAAYtC,GAAZ,EAAiBuC,OAAj  
B,WAAYBV,GAEE;EAAA,QACvB,IAAI,CAACisB,OAAA,CAAQ1nB,GAAR,CAAYvE,CAAZ,CAAL,EAAqB;

EAAA,YACjB3B,IAAM4kB,IAAA,GAAOtIb,IAAA,GAAUA,IAAA,MAAA,GAAQX,CAA1B,GAAwB,IAArC3B,CADiB;EAAA,YAEjB+O,MAAA,CAA03E,IAAP,CAAY,IAAI0c,eAAJ,CAAoBIC,IAApB,EAA0B9kB,GAAA,CAA16B,CAAJ,CAA1B,6BAA2DA,OAA3D,CAAZ,EAfIB;EAAA,SADE;EAAA,KAA3B,EAH8F;EAAA,IAS9F,OAA0oN,MAAP,CAT8F;EAAA,CAXBIG;EAoCA,SAAS+e,eAAT,CAAYBtqB,MAAZB,EAAyCpC,CAAzC,EAA6E;EAAA,IACzEpB,IAAM+O,MAAA,GAAS,EAaf/O,CADyE;EAAA,IAOzEA,IAAM+tB,UAAA,GAAa;EAAA,QAAC,MAAD;EAAA,QAAS,KAAT;EAAA,QAAGB,UAAhB;EAAA,KAAAnB/tB,CAPyE;EAAA,IAQzE+O,MAAA,CAA03E,IAAP,MAAA,CAAY2E,MAAZ,EAAe4e,mBAAA,CAAoBnqB,MAApB,EAA4BuqB,UAA5B,EAAwC,QAAXC,CAAf,EARyE;EAAA,IAGzE/tB,IAAMguB,gBAAA,GAAmB,sBAAzBhuB,CAhByE;EAAA,IAiBzE,IAAI,CAACwtB,OAAA,CAAQhqB,MAAA,CAAOE,GAaf,EAAoBsqB,gBAAPB,CAAL,EAA4C;EAAA,QACxCjf,MAAA,CAA03E,IAAP,CAAY,IAAI0c,eAAJ,cAA+B11B,OAA/B,EAAqCoC,MAAA,CAAOE,GAA5C,EAAiD,+CAAjD,CAAZ,EADwC;EAAA,KAjB6B;EAAA,IAqzE,OAAOqL,MAAP,CARByE;EAAA,CAPC7E;EA4DA,SAASKf,gBAAT,CAA0BrsB,OAA1B,EAAoE;EAAA,IACH5B,IAAM+O,MAAA,GAAS,EAaf/O,CADgE;EAAA,IAEHmB,IAAI+sB,KAAA,GAAQ,CAAZ/sB,CAFgE;EAAA,IAIhEgB,MAAA,CAAOC,IAAP,CAAYR,OAAZ,EAAqBS,OAArB,WAA8B0C,GAAW3D,GAAW;EAAA,QACHDpB,IAAMmuB,YAAA,GAAeL,eAAA,CAAGBlS,OA AA,CAAQmD,CAAR,CAAhB,EAA4B3D,CAA5B,CAARpB,CADgD;EAAA,QAIhD,IAAI,CAACmuB,YAAA,CAAa5sB,MAA1B,EAA0B;EAAA,YACTB2sB,KAAA,GAAQA,KAAA,GAAQR,cAAA,CAAe9rB,OAAA,CAAQmD,CAAR,CAAf,CAAhB,CADsB;EAAA,SAJSB;EAAA,QAQhDgK,MAAA,CAA03E,IAAP,MAAA,CAAY2E,MAAZ,EAAeof,YAAf,EARgD;EAAA,KAApD,EAJgE;EAAA,IAEH,IAAID,KAAA,GAAQX,oBAAZ,EAAkC;EAAA,QAC9Bxe,MAAA,CAA03E,IAAP,CAAY,IAAI0c,eAAJ,CAAoB,SAAPB,EAA+B,IAA/B,2BAA4DyG,0CAA5D,CAAZ,EAD8B;EAAA,KAF8B;EAAA,IAMbHE,OAAOxe,MAAP,CANBgE;EAAA,CA5DPe;EAKFA,SAASqf,aAAT,CAAuB/tB,KAAvB,EAAcGuB,QAATC,EAAqF;EAAA,IACjFruB,IAAM+O,MAAA,GAAS,EAaf/O,CADiF;EAAA,IAWjFA,IAAMsuB,sBAAA,GAAyB;EAAA,QAC3B,OAD2B;EAAA,QAEE3B,IAF2B;EAAA,QAG3B,cAH2B;EAAA,QAI3B,OAJ2B;EAAA,QAK3B,SAL2B;EAAA,QAM3B,UAN2B;EAAA,QA03B,YAP2B;EAAA,KAA/BtuB,CAXiF;EAAA,IAqBjFA,IAAMuuB,gBAAA,GAAmBZ,mBAAA,CAAoBttB,KAApB,EAA+BguB,QAAA,OAAA,CAAaC,sBAAb,CAA/B,CAAzBtuB,CARBiF;EAAA,IASBjF+O,MAAA,CAA03E,IAAP,MAAA,CAAY2E,MAAZ,EAAewf,gBAaf,EAAtBiF;EAAA,IAWbJF,IAAIluB,KAAA,CAAMkD,OAAN,GAAgB+pB,sBAAhB,IAA0CjtB,KAAA,CAAMkD,OAAN,GAAgB+pB,sBAA9D,EAAf;EAAA,QACIFve,MAAA,CAA03E,IAAP,CAAY,IAAI0c,eAAJ,CAAoB,SAAPB,EAA+BzmB,KAAA,CAAMkD,OAArC,6BAAuE+pB,sBAAvE,CAAZ,EADkF;EAAA,KAXBL;EAAA,IAiCjFttB,IAAMwuB,eAAA,GAAkB,uDAAXBxuB,CAjCiF;EAAA,IAKcJF,IAAI,CAACwtB,OAAA,CAAQntB,KAAA,CAAMqE,MAAd,EAA8B8pB,eAATB,CAAL,EAA6C;EAAA,QACzCzf,MAAA,CAA03E,IAAP,CAAY,IAAI0c,eAAJ,CAAoB,QAAPB,EAA8BzmB,KAAA,CAAMqE,MAAPC,EAA4C,+CAA5C,CAAZ,EADyC;EAAA,KAICoC;EAAA,IA4CjF1E,IAAMyuB,gBAAA,GAAmB,mDAAZBzuB,CA5CiF;EAAA,IA6CjF,IAAI,CAACwtB,OAAA,CAAQntB,KAAA,CAAMomB,MAAd,EAA8BgI,gBAATB,CAAL,EAA8C;EAAA,QAC1C1f,MAAA,CAA03E,IAAP,CAAY,IAAI0c,eAAJ,CAAoB,QAAPB,EAA8BzmB,KAAA,CAAMomB,MAAPC,EAA4C,gDAA5C,CAAZ,EAD0C;EAAA,KA7CmC;EAAA,IASDjFzmB,IAAM0uB,iBAAA,GAAoB,oBAA1B1uB,CAtDiF;EAAA,IAuDjF,IAAI,CAACwtB,OAAA,CAAQntB,KAAA,CAAMsuB,UAAAd,EAA0BD,iBAA1B,CAAL,EAAMd;EAAA,QAC/C3f,MAAA,CAA03E,IAAP,CAAY,IAAI0c,eAAJ,CAAoB,YAApB,EAAkCzmB,KAAA,CAAMsuB,UAAxC,EAAoD,4CAAPD,CAAZ,EAD+C;EAAA,KAVD8B;EAAA,IA2DjF,OAAO5f,MAAP,CA3DiF;EAAA,CAIFrF;AA0JA,EAAe,SAAS6f,0BAAT,CAAoCvuB,KAApC,EAA4E;EAAA,IACvFc,IAAI4D,CAAA,GAAIIE,KAArC,CADuF;EAAA,IAEvF,IAAI;EAAA,QACA4D,CAAA,GAAIkoB,SAAA,CAAUloB,CAAV,CAAJ,CADA;EAAA,KAAJ,CAEE,OAAOwK,CAAP,EAAU;EAAA,QACR,OAAO,CAACA,CAAD,CAAP,CADQ;EAAA,KAJ2E;EAAA,IAQvFpO,IAAI4N,MAAA,GAASqe,gBAAA,CAAcroB,CAAd,EAAiBsoB,EAAjB,EACRhoB,MADQ,CACD+oB,aAAA,CAAcrpB,CAAd,EAAiB5C,MAAA,CAAOE,IAAP,CAAYirB,EAAA,CAAG9sB,KAAf,CAAjB,CADC,CAAbY,CARuF;EAAA,IAWvF,IAAI4D,CAAA,CAAEnd,OAAN,EAAe;EAAA,QACXmN,MAAA,GAA SA,MAAA,CAA01J,MAAP,CAAc4oB,gBAAA,CAAiBlpB,CAAA,CAAEnd,OAANB,CAAd,CAAT,CADW;EAAA,KAXwE;EAAA,IAEvF,OAAOmN,MAAP,CAfuF;EAAA;;MCzErF/I,YAAA,GAAa;EAAA,qBACfwX,eADe;EAAA,kBAEfS,YAFe;EAAA,sBAGfC,gBAHE;EAAA,8BAIfO,wBAJJe;EAAA,iCAKfS,2BALe;EAAA,4BAMfb,sBANE;EAAA,6BAOfG,uBAPe;EAAA,2BAQfK,qBARE;EAAA,CAAAnB7e,CAjFA;AA4FAA,MAAM6uB,aAAA,G



Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1050648890\_1591796810.08/0/mapbox-mapbox-gl-style-spec-13-12-0-tgz/package/dist/index.js

No license file was found, but licenses were detected in source scan.

"attribution"?: string,

"attribution"?: string

"attribution"?: string,

"attribution"?: string,

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1050648890\_1591796810.08/0/mapbox-mapbox-gl-style-spec-13-12-0-tgz/package/types.js

No license file was found, but licenses were detected in source scan.

```
{
  "$version": 8,
  "$root": {
    "version": {
      "required": true,
      "type": "enum",
      "values": [
        8
      ],
      "doc": "Style specification version number. Must be 8.",
      "example": 8
    },
    "name": {
      "type": "string",
      "doc": "A human-readable name for the style.",
      "example": "Bright"
    },
    "metadata": {
      "type": "*",
      "doc": "Arbitrary properties useful to track with the stylesheet, but do not influence rendering. Properties should be prefixed to avoid collisions, like 'mapbox:.'"
    },
    "center": {
      "type": "array",
      "value": "number",
      "doc": "Default map center in longitude and latitude. The style center will be used only if the map has not been positioned by other means (e.g. map options or user interaction).",
      "example": [
        -73.9749,
        40.7736
      ]
    },
  },
}
```

```

"zoom": {
  "type": "number",
  "doc":
    "Default zoom level. The style zoom will be used only if the map has not been positioned by other means (e.g. map
options or user interaction).",
  "example": 12.5
},
"bearing": {
  "type": "number",
  "default": 0,
  "period": 360,
  "units": "degrees",
  "doc": "Default bearing, in degrees. The bearing is the compass direction that is \"up\"; for example, a bearing of
90 orients the map so that east is up. This value will be used only if the map has not been positioned by other means
(e.g. map options or user interaction).",
  "example": 29
},
"pitch": {
  "type": "number",
  "default": 0,
  "units": "degrees",
  "doc": "Default pitch, in degrees. Zero is perpendicular to the surface, for a look straight down at the map, while
a greater value like 60 looks ahead towards the horizon. The style pitch will be used only if the map has not been
positioned by other means (e.g. map options or user interaction).",
  "example":
50
},
"light": {
  "type": "light",
  "doc": "The global light source.",
  "example": {
    "anchor": "viewport",
    "color": "white",
    "intensity": 0.4
  }
},
"sources": {
  "required": true,
  "type": "sources",
  "doc": "Data source specifications.",
  "example": {
    "mapbox-streets": {
      "type": "vector",
      "url": "mapbox://mapbox.mapbox-streets-v6"
    }
  }
},
"sprite": {

```

```

    "type": "string",
    "doc": "A base URL for retrieving the sprite image and metadata. The extensions `.png`, `.json` and scale factor
`@2x.png` will be automatically appended. This property is required if any layer uses the `background-pattern`,
`fill-pattern`, `line-pattern`, `fill-extrusion-pattern`, or `icon-image` properties. The URL must be absolute,
containing the [scheme, authority and path components](https://en.wikipedia.org/wiki/URL#Syntax).",
    "example": "mapbox://sprites/mapbox/bright-v8"
  },
  "glyphs": {
    "type": "string",
    "doc": "A URL template for loading signed-distance-field glyph sets in PBF format. The URL must include
`{fontstack}` and `{range}` tokens. This property is required if any layer uses the `text-field` layout property. The
URL must be absolute, containing the [scheme, authority and path
components](https://en.wikipedia.org/wiki/URL#Syntax).",
    "example": "mapbox://fonts/mapbox/{fontstack}/{range}.pbf"
  },
  "transition": {
    "type": "transition",
    "doc": "A global transition definition to use as a default across properties, to be used for timing transitions
between one value and the next when no property-specific transition is set. Collision-based symbol fading is
controlled independently of the style's `transition` property.",
    "example": {
      "duration": 300,
      "delay": 0
    }
  },
  "layers": {
    "required": true,
    "type": "array",
    "value": "layer",
    "doc": "Layers
will be drawn in the order of this array.",
    "example": [
      {
        "id": "water",
        "source": "mapbox-streets",
        "source-layer": "water",
        "type": "fill",
        "paint": {
          "fill-color": "#00ffff"
        }
      }
    ]
  },
  "sources": {
    "*": {
      "type": "source",
      "doc": "Specification of a data source. For vector and raster sources, either TileJSON or a URL to a TileJSON

```

must be provided. For image and video sources, a URL must be provided. For GeoJSON sources, a URL or inline GeoJSON must be provided."

```
    }
  },
  "source": [
    "source_vector",
    "source_raster",
    "source_raster_dem",
    "source_geojson",
    "source_video",
    "source_image"
  ],
  "source_vector": {
    "type": {
      "required": true,
      "type": "enum",
      "values": {
        "vector": {
          "doc": "A vector tile source."
        }
      }
    },
    "doc": "The type of the source."
  },
  "url": {
    "type": "string",
    "doc": "A URL to a TileJSON resource. Supported protocols are `http:`, `https:`, and `mapbox://<Tileset ID>`."
  },
  "tiles": {
    "type": "array",
    "value": "string",
    "doc": "An array of one or more tile source URLs, as in the TileJSON spec."
  },
  "bounds": {
    "type": "array",
    "value": "number",
    "length": 4,
    "default": [
      -180,
      -85.051129,
      180,
      85.051129
    ],
    "doc": "An array containing the longitude and latitude of the southwest and northeast corners of the source's bounding box in the following order: `[sw.lng, sw.lat, ne.lng, ne.lat]`. When this property is included in a source, no tiles outside of the given bounds are requested by Mapbox GL."
  },
  "scheme": {
```

```

"type": "enum",
"values": {
  "xyz": {
    "doc": "Slippy map tilenames scheme."
  },
  "tms": {
    "doc": "OSGeo spec scheme."
  }
},
"default": "xyz",
"doc": "Influences the y direction of the tile coordinates. The global-mercator (aka Spherical Mercator) profile is assumed."
},
"minzoom": {
  "type": "number",
  "default": 0,
  "doc": "Minimum zoom level for which tiles are available, as in the TileJSON spec."
},
"maxzoom": {
  "type": "number",
  "default": 22,
  "doc": "Maximum zoom level for which tiles are available, as in the TileJSON spec. Data from tiles at the maxzoom are used when displaying the map at higher zoom levels."
},
"attribution": {
  "type": "string",
  "doc": "Contains an attribution to be displayed when the map is shown to a user."
},
"promoteId": {
  "type": "promoteId",
  "doc": "A property to use as a feature id (for feature state). Either a property name, or an object of the form `{<sourceLayer>: <propertyName>}`. If specified as a string for a vector tile source, the same property is used across all its source layers."
},
"*_": {
  "type": "*",
  "doc": "Other keys to configure the data source."
}
},
"source_raster": {
  "type": {
    "required": true,
    "type": "enum",
    "values": {
      "raster": {
        "doc": "A raster tile source."
      }
    }
  }
}

```

```

    },
    "doc": "The type of the source."
  },
  "url": {
    "type": "string",
    "doc": "A URL to a TileJSON resource. Supported protocols are `http:`, `https:`, and `mapbox://<Tileset ID>`."
  },
  "tiles": {
    "type": "array",
    "value": "string",
    "doc": "An array of one or more tile source URLs, as in the TileJSON spec."
  },
  "bounds": {
    "type": "array",
    "value": "number",
    "length": 4,
    "default": [
      -180,
      -85.051129,
      180,
      85.051129
    ],
    "doc": "An array containing the longitude and latitude of the southwest and northeast corners of the source's bounding box in the following order: `[sw.lng, sw.lat, ne.lng, ne.lat]`."
  }
}
When this property is included in a source, no tiles outside of the given bounds are requested by Mapbox GL."
  },
  "minzoom": {
    "type": "number",
    "default": 0,
    "doc": "Minimum zoom level for which tiles are available, as in the TileJSON spec."
  },
  "maxzoom": {
    "type": "number",
    "default": 22,
    "doc": "Maximum zoom level for which tiles are available, as in the TileJSON spec. Data from tiles at the maxzoom are used when displaying the map at higher zoom levels."
  },
  "tileSize": {
    "type": "number",
    "default": 512,
    "units": "pixels",
    "doc": "The minimum visual size to display tiles for this layer. Only configurable for raster layers."
  },
  "scheme": {
    "type": "enum",
    "values": {
      "xyz": {
        "doc": "Slippy map tilenames scheme."
      }
    }
  }
}

```

```

    },
    "tms": {
      "doc": "OSGeo spec scheme."
    }
  },
  "default": "xyz",
  "doc": "Influences the y direction
of the tile coordinates. The global-mercator (aka Spherical Mercator) profile is assumed."
},
"attribution": {
  "type": "string",
  "doc": "Contains an attribution to be displayed when the map is shown to a user."
},
"*": {
  "type": "*",
  "doc": "Other keys to configure the data source."
}
},
"source_raster_dem": {
  "type": {
    "required": true,
    "type": "enum",
    "values": {
      "raster-dem": {
        "doc": "A RGB-encoded raster DEM source"
      }
    }
  },
  "doc": "The type of the source."
},
"url": {
  "type": "string",
  "doc": "A URL to a TileJSON resource. Supported protocols are `http:`, `https:`, and `mapbox://<Tileset ID>`."
},
"tiles": {
  "type": "array",
  "value": "string",
  "doc": "An array of one or more tile source URLs, as in the TileJSON spec."
},
"bounds": {
  "type": "array",
  "value": "number",
  "length": 4,
  "default": [
-180,
-85.051129,
180,
85.051129

```

```

    ],
    "doc": "An array containing the longitude and latitude of the southwest and northeast corners of the source's bounding box in the following order: `[sw.lng, sw.lat, ne.lng, ne.lat]`. When this property is included in a source, no tiles outside of the given bounds are requested by Mapbox GL."
  },
  "minzoom": {
    "type": "number",
    "default": 0,
    "doc": "Minimum zoom level for which tiles are available, as in the TileJSON spec."
  },
  "maxzoom": {
    "type": "number",
    "default": 22,
    "doc": "Maximum zoom level for which tiles are available, as in the TileJSON spec. Data from tiles at the maxzoom are used when displaying the map at higher zoom levels."
  },
  "tileSize": {
    "type": "number",
    "default": 512,
    "units": "pixels",
    "doc": "The minimum visual size to display tiles for this layer. Only configurable for raster layers."
  },
  "attribution": {
    {
      "type": "string",
      "doc": "Contains an attribution to be displayed when the map is shown to a user."
    },
    "encoding": {
      "type": "enum",
      "values": {
        "terrarium": {
          "doc": "Terrarium format PNG tiles. See https://aws.amazon.com/es/public-datasets/terrain/ for more info."
        },
        "mapbox": {
          "doc": "Mapbox Terrain RGB tiles. See https://www.mapbox.com/help/access-elevation-data/#mapbox-terrain-rgb for more info."
        }
      },
      "default": "mapbox",
      "doc": "The encoding used by this source. Mapbox Terrain RGB is used by default"
    },
    "": {
      "type": "*",
      "doc": "Other keys to configure the data source."
    }
  },
  "source_geojson": {
    "type": {

```

```

"required": true,
"type": "enum",
"values": {
  "geojson": {
    "doc": "A GeoJSON data source."
  }
},
"doc": "The data type of the GeoJSON source."
},
"data": {
  "type": "*",

"doc": "A URL to a GeoJSON file, or inline GeoJSON."
},
"maxzoom": {
  "type": "number",
  "default": 18,
  "doc": "Maximum zoom level at which to create vector tiles (higher means greater detail at high zoom levels)."
},
"attribution": {
  "type": "string",
  "doc": "Contains an attribution to be displayed when the map is shown to a user."
},
"buffer": {
  "type": "number",
  "default": 128,
  "maximum": 512,
  "minimum": 0,
  "doc": "Size of the tile buffer on each side. A value of 0 produces no buffer. A value of 512 produces a buffer as wide as the tile itself. Larger values produce fewer rendering artifacts near tile edges and slower performance."
},
"tolerance": {
  "type": "number",
  "default": 0.375,
  "doc": "Douglas-Peucker simplification tolerance (higher means simpler geometries and faster performance)."
},
"cluster": {
  "type": "boolean",
  "default": false,
  "doc":
    "If the data is a collection of point features, setting this to true clusters the points by radius into groups. Cluster groups become new `Point` features in the source with additional properties:\n * `cluster` Is `true` if the point is a cluster\n * `cluster_id` A unique id for the cluster to be used in conjunction with the [cluster inspection methods](https://www.mapbox.com/mapbox-gl-js/api/#geojsonsource#getclusterexpansionzoom)\n * `point_count` Number of original points grouped into this cluster\n * `point_count_abbreviated` An abbreviated point count"
},
"clusterRadius": {
  "type": "number",

```

```

    "default": 50,
    "minimum": 0,
    "doc": "Radius of each cluster if clustering is enabled. A value of 512 indicates a radius equal to the width of a
tile."
  },
  "clusterMaxZoom": {
    "type": "number",
    "doc": "Max zoom on which to cluster points if clustering is enabled. Defaults to one zoom less than maxzoom
(so that last zoom features are not clustered)."
  },
  "clusterProperties": {
    "type": "*",
    "doc": "An object defining custom properties on the generated clusters if clustering is enabled, aggregating
values from clustered points. Has the form `{\"property_name\": [operator, map_expression]}`. `operator` is any
expression function that accepts at least 2 operands (e.g. `\"+\"` or `\"max\"`) it accumulates the property value from
clusters/points the cluster contains; `map_expression` produces the value of a single point.\n\nExample: `{\"sum\":
[\"+\", [\"get\", \"scalerank\"]]}.\n\nFor more advanced use cases, in place of `operator`, you can use a custom
reduce expression that references a special `\"accumulated\"` value, e.g.:`{\"sum\": [[\"+\", [\"accumulated\"],
[\"get\", \"sum\"]], [\"get\", \"scalerank\"]]}\"`
  },
  "lineMetrics": {
    "type": "boolean",
    "default": false,
    "doc": "Whether to calculate line distance metrics. This is required for line layers that specify `line-gradient`
values."
  },
  "generateId": {
    "type": "boolean",
    "default": false,
    "doc": "Whether to generate ids for the geojson features. When enabled, the `feature.id` property will be auto
assigned based on its index in the `features` array, over-writing any previous values."
  },
  "promoteId": {
    "type": "promoteId",
    "doc": "A property to use as a feature id (for feature state). Either a property name, or an object of the form
`{<sourceLayer>: <propertyName>}`."
  }
},
"source_video": {
  "type": {
    "required": true,
    "type": "enum",
    "values": {
      "video": {
        "doc": "A video data source."
      }
    }
  },
  "doc": "The data type of the video source."
}

```

```

},
"urls": {
  "required": true,
  "type": "array",
  "value": "string",
  "doc": "URLs to video content in order of preferred format."
},
"coordinates": {
  "required": true,
  "doc": "Corners of video specified in longitude,
latitude pairs.",
  "type": "array",
  "length": 4,
  "value": {
    "type": "array",
    "length": 2,
    "value": "number",
    "doc": "A single longitude, latitude pair."
  }
}
},
"source_image": {
  "type": {
    "required": true,
    "type": "enum",
    "values": {
      "image": {
        "doc": "An image data source."
      }
    }
  },
  "doc": "The data type of the image source."
},
"url": {
  "required": true,
  "type": "string",
  "doc": "URL that points to an image."
},
"coordinates": {
  "required": true,
  "doc": "Corners of image specified in longitude, latitude pairs.",
  "type": "array",
  "length": 4,
  "value": {
    "type": "array",
    "length": 2,
    "value": "number",
    "doc": "A single longitude, latitude pair."
  }
}

```

```

}
},
"layer": {
  "id": {
    "type": "string",
    "doc": "Unique layer name.",
    "required": true
  },
  "type": {
    "type": "enum",
    "values": {
      "fill": {
        "doc": "A filled polygon with an optional stroked border.",
        "sdk-support": {
          "basic functionality": {
            "js": "0.10.0",
            "android": "2.0.1",
            "ios": "2.0.0",
            "macos": "0.1.0"
          }
        }
      }
    }
  },
  "line": {
    "doc": "A stroked line.",
    "sdk-support": {
      "basic functionality": {
        "js": "0.10.0",
        "android": "2.0.1",
        "ios": "2.0.0",
        "macos": "0.1.0"
      }
    }
  },
  "symbol": {
    "doc": "An icon or a text label.",
    "sdk-support": {
      "basic functionality": {
        "js": "0.10.0",
        "android": "2.0.1",
        "ios": "2.0.0",
        "macos": "0.1.0"
      }
    }
  },
  "circle": {
    "doc": "A filled circle.",
    "sdk-support": {
      "basic functionality": {

```

```

    "js": "0.10.0",
    "android": "2.0.1",
    "ios": "2.0.0",
    "macos": "0.1.0"
  }
}
},
"heatmap": {
  "doc": "A heatmap.",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"fill-extrusion": {
  "doc": "An extruded (3D) polygon.",
  "sdk-support": {
    "basic functionality": {
      "js": "0.27.0",
      "android": "5.1.0",
      "ios": "3.6.0",
      "macos": "0.5.0"
    }
  }
},
"raster": {
  "doc": "Raster map textures such as satellite imagery.",
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",

"android": "2.0.1",
    "ios": "2.0.0",
    "macos": "0.1.0"
  }
},
"hillshade": {
  "doc": "Client-side hillshading visualization based on DEM data. Currently, the implementation only supports
Mapbox Terrain RGB and Mapzen Terrarium tiles.",
  "sdk-support": {
    "basic functionality": {
      "js": "0.43.0",
      "android": "6.0.0",

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        "ios": "4.0.0",
        "macos": "0.7.0"
    }
}
},
"background": {
    "doc": "The background color or pattern of the map.",
    "sdk-support": {
        "basic functionality": {
            "js": "0.10.0",
            "android": "2.0.1",
            "ios": "2.0.0",
            "macos": "0.1.0"
        }
    }
}
},
"doc": "Rendering type of this layer.",
"required": true
},
"metadata": {
    "type": "*",
    "doc": "Arbitrary properties
useful to track with the layer, but do not influence rendering. Properties should be prefixed to avoid collisions, like
'mapbox:.'"
},
"source": {
    "type": "string",
    "doc": "Name of a source description to be used for this layer. Required for all layer types except `background`."
},
"source-layer": {
    "type": "string",
    "doc": "Layer to use from a vector tile source. Required for vector tile sources; prohibited for all other source
types, including GeoJSON sources."
},
"minzoom": {
    "type": "number",
    "minimum": 0,
    "maximum": 24,
    "doc": "The minimum zoom level for the layer. At zoom levels less than the minzoom, the layer will be hidden."
},
"maxzoom": {
    "type": "number",
    "minimum": 0,
    "maximum": 24,
    "doc": "The maximum zoom level for the layer. At zoom levels equal to or greater than the maxzoom, the layer
will be hidden."
},

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"filter": {
  "type": "filter",
  "doc":
    "A expression specifying conditions on source features. Only features that match the filter are displayed. Zoom
    expressions in filters are only evaluated at integer zoom levels. The `feature-state` expression is not supported in
    filter expressions."
},
"layout": {
  "type": "layout",
  "doc": "Layout properties for the layer."
},
"paint": {
  "type": "paint",
  "doc": "Default paint properties for this layer."
}
},
"layout": [
  "layout_fill",
  "layout_line",
  "layout_circle",
  "layout_heatmap",
  "layout_fill-extrusion",
  "layout_symbol",
  "layout_raster",
  "layout_hillshade",
  "layout_background"
],
"layout_background": {
  "visibility": {
    "type": "enum",
    "values": {
      "visible": {
        "doc": "The layer is shown."
      },
      "none": {
        "doc": "The layer is not shown."
      }
    }
  },
  "default": "visible",
  "doc": "Whether this layer is displayed.",
  "sdk-support":
    {
      "basic functionality": {
        "js": "0.10.0",
        "android": "2.0.1",
        "ios": "2.0.0",
        "macos": "0.1.0"
      }
    }
}

```

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    },
    "property-type": "constant"
  }
},
"layout_fill": {
  "fill-sort-key": {
    "type": "number",
    "doc": "Sorts features in ascending order based on this value. Features with a higher sort key will appear above
features with a lower sort key.",
    "sdk-support": {
      "basic functionality": {
        "js": "1.2.0"
      },
      "data-driven styling": {
        "js": "1.2.0"
      }
    },
    "expression": {
      "interpolated": false,
      "parameters": [
        "zoom",
        "feature"
      ]
    },
    "property-type": "data-driven"
  },
  "visibility": {
    "type": "enum",
    "values": {
      "visible": {
        "doc": "The layer is shown."
      },
      "none": {
        "doc": "The layer is not shown."
      }
    },
    "default": "visible",
    "doc": "Whether this layer is displayed.",
    "sdk-support": {
      "basic functionality": {
        "js": "0.10.0",
        "android": "2.0.1",
        "ios": "2.0.0",
        "macos": "0.1.0"
      }
    },
    "property-type": "constant"
  }
}

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    }
  },
  "layout_circle": {
    "circle-sort-key": {
      "type": "number",
      "doc": "Sorts features in ascending order based on this value. Features with a higher sort key will appear above
features with a lower sort key.",
      "sdk-support": {
        "basic functionality": {
          "js": "1.2.0"
        },
        "data-driven styling": {
          "js": "1.2.0"
        }
      },
      "expression": {
        "interpolated": false,
        "parameters": [
          "zoom",
          "feature"
        ]
      },
      "property-type": "data-driven"
    },
    "visibility": {
      "type": "enum",
      "values": {
        "visible": {
          "doc": "The layer is shown."
        },
        "none": {
          "doc": "The layer is not shown."
        }
      },
      "default": "visible",
      "doc": "Whether this layer is displayed.",
      "sdk-support": {
        "basic functionality": {
          "js": "0.10.0",
          "android": "2.0.1",
          "ios": "2.0.0",
          "macos": "0.1.0"
        }
      },
      "property-type": "constant"
    }
  },
  "layout_heatmap": {

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"visibility": {
  "type": "enum",
  "values": {
    "visible": {
      "doc": "The layer is shown."
    },
    "none": {
      "doc": "The layer is not shown."
    }
  },
  "default": "visible",
  "doc": "Whether this layer is displayed.",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  },
  "property-type": "constant"
},
"layout_fill-extrusion": {
  "visibility": {
    "type": "enum",

    "values": {
      "visible": {
        "doc": "The layer is shown."
      },
      "none": {
        "doc": "The layer is not shown."
      }
    },
    "default": "visible",
    "doc": "Whether this layer is displayed.",
    "sdk-support": {
      "basic functionality": {
        "js": "0.27.0",
        "android": "5.1.0",
        "ios": "3.6.0",
        "macos": "0.5.0"
      }
    },
    "property-type": "constant"
  },
},

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```

"layout_line": {
  "line-cap": {
    "type": "enum",
    "values": {
      "butt": {
        "doc": "A cap with a squared-off end which is drawn to the exact endpoint of the line."
      },
      "round": {
        "doc": "A cap with a rounded end which is drawn beyond the endpoint of the line at a radius of one-half of the
line's width and centered on the endpoint of the line."
      },
      "square": {
        "doc": "A cap with a squared-off end which is drawn beyond the endpoint of the line at
a distance of one-half of the line's width."
      }
    },
    "default": "butt",
    "doc": "The display of line endings.",
    "sdk-support": {
      "basic functionality": {
        "js": "0.10.0",
        "android": "2.0.1",
        "ios": "2.0.0",
        "macos": "0.1.0"
      }
    },
    "expression": {
      "interpolated": false,
      "parameters": [
        "zoom"
      ]
    },
    "property-type": "data-constant"
  },
  "line-join": {
    "type": "enum",
    "values": {
      "bevel": {
        "doc": "A join with a squared-off end which is drawn beyond the endpoint of the line at a distance of one-half
of the line's width."
      },
      "round": {
        "doc": "A join with a rounded end which is drawn beyond the endpoint of the line at a radius of one-half of the
line's width and centered on the endpoint of the line."
      },
      "miter": {
        "doc": "A join with a sharp, angled corner which is drawn

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with the outer sides beyond the endpoint of the path until they meet."

```
    }
  },
  "default": "miter",
  "doc": "The display of lines when joining.",
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    },
    "data-driven styling": {
      "js": "0.40.0",
      "android": "5.2.0",
      "ios": "3.7.0",
      "macos": "0.6.0"
    }
  },
  "expression": {
    "interpolated": false,
    "parameters": [
      "zoom",
      "feature"
    ]
  },
  "property-type": "data-driven"
},
"line-miter-limit": {
  "type": "number",
  "default": 2,
  "doc": "Used to automatically convert miter joins to bevel joins for sharp angles.",
  "requires": [
    {
      "line-join": "miter"
    }
  ],
  "sdk-support": {
    "basic functionality": {
      "js":
"0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    }
  },
  "expression": {
    "interpolated": true,
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    "parameters": [
      "zoom"
    ]
  },
  "property-type": "data-constant"
},
"line-round-limit": {
  "type": "number",
  "default": 1.05,
  "doc": "Used to automatically convert round joins to miter joins for shallow angles.",
  "requires": [
    {
      "line-join": "round"
    }
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    }
  },
  "expression": {
    "interpolated": true,
    "parameters": [
      "zoom"
    ]
  },
  "property-type": "data-constant"
},
"line-sort-key": {
  "type": "number",
  "doc": "Sorts features in ascending order based on this value. Features with a higher sort key will appear above features with a lower sort key.",
  "sdk-support": {
    "basic functionality": {
      "js": "1.2.0"
    },
    "data-driven styling": {
      "js": "1.2.0"
    }
  },
  "expression": {
    "interpolated": false,
    "parameters": [
      "zoom",
      "feature"
    ]
  }
}

```

```

    ]
  },
  "property-type": "data-driven"
},
"visibility": {
  "type": "enum",
  "values": {
    "visible": {
      "doc": "The layer is shown."
    },
    "none": {
      "doc": "The layer is not shown."
    }
  },
  "default": "visible",
  "doc": "Whether this layer is displayed.",
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    }
  },
  "property-type": "constant"
}
},
"layout_symbol": {
  "symbol-placement": {
    "type": "enum",
    "values":
  {
    "point": {
      "doc": "The label is placed at the point where the geometry is located."
    },
    "line": {
      "doc": "The label is placed along the line of the geometry. Can only be used on `LineString` and `Polygon`
geometries."
    },
    "line-center": {
      "doc": "The label is placed at the center of the line of the geometry. Can only be used on `LineString` and
`Polygon` geometries. Note that a single feature in a vector tile may contain multiple line geometries."
    }
  },
  "default": "point",
  "doc": "Label placement relative to its geometry.",
  "sdk-support": {
    "basic functionality": {

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    "js": "0.10.0",
    "android": "2.0.1",
    "ios": "2.0.0",
    "macos": "0.1.0"
  },
  "`line-center` value": {
    "js": "0.47.0",
    "android": "6.4.0",
    "ios": "4.3.0",
    "macos": "0.10.0"
  }
},
"expression": {
  "interpolated":
false,
  "parameters": [
    "zoom"
  ]
},
"property-type": "data-constant"
},
"symbol-spacing": {
  "type": "number",
  "default": 250,
  "minimum": 1,
  "units": "pixels",
  "doc": "Distance between two symbol anchors.",
  "requires": [
    {
      "symbol-placement": "line"
    }
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    }
  },
  "expression": {
    "interpolated": true,
    "parameters": [
      "zoom"
    ]
  },
  "property-type": "data-constant"
},

```

```
"symbol-avoid-edges": {
  "type": "boolean",
  "default": false,
  "doc": "If true, the symbols will not cross tile edges to avoid mutual collisions. Recommended in layers that don't
have enough padding in the vector tile to prevent collisions, or if it is a point
symbol layer placed after a line symbol layer. When using a client that supports global collision detection, like
Mapbox GL JS version 0.42.0 or greater, enabling this property is not needed to prevent clipped labels at tile
boundaries.",
```

```
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    }
  },
  "expression": {
    "interpolated": false,
    "parameters": [
      "zoom"
    ]
  },
  "property-type": "data-constant"
},
"symbol-sort-key": {
  "type": "number",
  "doc": "Sorts features in ascending order based on this value. Features with a higher sort key will appear above
features with a lower sort key when they overlap. Features with a lower sort key will have priority over other
features when doing placement.",
```

```
  "sdk-support": {
    "basic functionality": {
      "js": "0.53.0",
      "android":
"7.4.0",
      "ios": "4.11.0",
      "macos": "0.14.0"
    },
    "data-driven styling": {
      "js": "0.53.0",
      "android": "7.4.0",
      "ios": "4.11.0",
      "macos": "0.14.0"
    }
  },
  "expression": {
    "interpolated": false,
    "parameters": [
      "zoom",
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    "feature"
  ]
},
"property-type": "data-driven"
},
"symbol-z-order": {
  "type": "enum",
  "values": {
    "auto": {
      "doc": "If `symbol-sort-key` is set, sort based on that. Otherwise sort symbols by their y-position relative to the
viewport."
    },
    "viewport-y": {
      "doc": "Symbols will be sorted by their y-position relative to the viewport."
    },
    "source": {
      "doc": "Symbols will be rendered in the same order as the source data with no sorting applied."
    }
  },
  "default": "auto",
  "doc": "Controls the order in which overlapping symbols
in the same layer are rendered",
  "sdk-support": {
    "basic functionality": {
      "js": "0.49.0",
      "android": "6.6.0",
      "ios": "4.5.0",
      "macos": "0.12.0"
    }
  },
  "expression": {
    "interpolated": false,
    "parameters": [
      "zoom"
    ]
  },
  "property-type": "data-constant"
},
"icon-allow-overlap": {
  "type": "boolean",
  "default": false,
  "doc": "If true, the icon will be visible even if it collides with other previously drawn symbols.",
  "requires": [
    "icon-image"
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",

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    "android": "2.0.1",
    "ios": "2.0.0",
    "macos": "0.1.0"
  }
},
"expression": {
  "interpolated": false,
  "parameters": [
    "zoom"
  ]
},
"property-type": "data-constant"
},
"icon-ignore-placement": {
  "type":
"boolean",
  "default": false,
  "doc": "If true, other symbols can be visible even if they collide with the icon.",
  "requires": [
    "icon-image"
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    }
  },
  "expression": {
    "interpolated": false,
    "parameters": [
      "zoom"
    ]
  },
  "property-type": "data-constant"
},
"icon-optional": {
  "type": "boolean",
  "default": false,
  "doc": "If true, text will display without their corresponding icons when the icon collides with other symbols and
the text does not.",
  "requires": [
    "icon-image",
    "text-field"
  ],
  "sdk-support": {
    "basic functionality": {

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    "js": "0.10.0",
    "android": "2.0.1",
    "ios": "2.0.0",
    "macos": "0.1.0"
  }
},
"expression":
{
  "interpolated": false,
  "parameters": [
    "zoom"
  ]
},
"property-type": "data-constant"
},
"icon-rotation-alignment": {
  "type": "enum",
  "values": {
    "map": {
      "doc": "When `symbol-placement` is set to `point`, aligns icons east-west. When `symbol-placement` is set to `line` or `line-center`, aligns icon x-axes with the line."
    },
    "viewport": {
      "doc": "Produces icons whose x-axes are aligned with the x-axis of the viewport, regardless of the value of `symbol-placement`."
    },
    "auto": {
      "doc": "When `symbol-placement` is set to `point`, this is equivalent to `viewport`. When `symbol-placement` is set to `line` or `line-center`, this is equivalent to `map`."
    }
  },
  "default": "auto",
  "doc": "In combination with `symbol-placement`, determines the rotation behavior of icons.",
  "requires": [
    "icon-image"
  ],
},
"sdk-support": {
  "basic functionality": {
    "js": "0.10.0",
    "android": "2.0.1",
    "ios": "2.0.0",
    "macos": "0.1.0"
  },
  "`auto` value": {
    "js": "0.25.0",
    "android": "4.2.0",
    "ios": "3.4.0",

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    "macos": "0.3.0"
  }
},
"expression": {
  "interpolated": false,
  "parameters": [
    "zoom"
  ]
},
"property-type": "data-constant"
},
"icon-size": {
  "type": "number",
  "default": 1,
  "minimum": 0,
  "units": "factor of the original icon size",
  "doc": "Scales the original size of the icon by the provided factor. The new pixel size of the image will be the original pixel size multiplied by `icon-size`. 1 is the original size; 3 triples the size of the image.",
  "requires": [
    "icon-image"
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    },
    "data-driven styling": {
      "js": "0.35.0",
      "android": "5.1.0",
      "ios": "3.6.0",
      "macos": "0.5.0"
    }
  },
  "expression": {
    "interpolated": true,
    "parameters": [
      "zoom",
      "feature"
    ]
  },
  "property-type": "data-driven"
},
"icon-text-fit": {
  "type": "enum",
  "values": {
    "none": {

```

```

    "doc": "The icon is displayed at its intrinsic aspect ratio."
  },
  "width": {
    "doc": "The icon is scaled in the x-dimension to fit the width of the text."
  },
  "height": {
    "doc": "The icon is scaled in the y-dimension to fit the height of the text."
  },
  "both": {
    "doc": "The icon is scaled in both x- and y-dimensions."
  }
},
"default": "none",
"doc": "Scales the icon to fit around the associated text.",
"requires": [
  "icon-image",
  "text-field"
],
"sdk-support": {
  "basic functionality": {
    "js": "0.21.0",
    "android": "4.2.0",
    "ios": "3.4.0",
    "macos": "0.2.1"
  }
},
"expression": {
  "interpolated": false,
  "parameters": [
    "zoom"
  ]
},
"property-type": "data-constant"
},
"icon-text-fit-padding": {
  "type": "array",
  "value": "number",
  "length": 4,
  "default": [
    0,
    0,
    0,
    0
  ],
  "units": "pixels",
  "doc": "Size of the additional area added to dimensions determined by `icon-text-fit`, in clockwise order: top,
right, bottom, left.",
  "requires": [

```

```

"icon-image",
"text-field",
{
  "icon-text-fit": [
    "both",
    "width",
    "height"
  ]
}
],
"sdk-support": {
  "basic functionality":
{
  "js": "0.21.0",
  "android": "4.2.0",
  "ios": "3.4.0",
  "macos": "0.2.1"
}
},
"expression": {
  "interpolated": true,
  "parameters": [
    "zoom"
  ]
},
"property-type": "data-constant"
},
"icon-image": {
  "type": "resolvedImage",
  "doc": "Name of image in sprite to use for drawing an image background.",
  "tokens": true,
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    },
    "data-driven styling": {
      "js": "0.35.0",
      "android": "5.1.0",
      "ios": "3.6.0",
      "macos": "0.5.0"
    }
  },
  "expression": {
    "interpolated": false,
    "parameters": [

```

```

    "zoom",
    "feature"
  ]
},
"property-type": "data-driven"
},
"icon-rotate": {
  "type": "number",
  "default": 0,
  "period": 360,
  "units": "degrees",
  "doc": "Rotates the icon clockwise.",
  "requires": [
    "icon-image"
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    },
    "data-driven styling": {
      "js": "0.21.0",
      "android": "5.0.0",
      "ios": "3.5.0",
      "macos": "0.4.0"
    }
  },
  "expression": {
    "interpolated": true,
    "parameters": [
      "zoom",
      "feature"
    ]
  },
  "property-type": "data-driven"
},
"icon-padding": {
  "type": "number",
  "default": 2,
  "minimum": 0,
  "units": "pixels",
  "doc": "Size of the additional area around the icon bounding box used for detecting symbol collisions.",
  "requires": [
    "icon-image"
  ],
  "sdk-support": {

```

```

    "basic functionality":
  {
    "js": "0.10.0",
    "android": "2.0.1",
    "ios": "2.0.0",
    "macos": "0.1.0"
  }
},
"expression": {
  "interpolated": true,
  "parameters": [
    "zoom"
  ]
},
"property-type": "data-constant"
},
"icon-keep-upright": {
  "type": "boolean",
  "default": false,
  "doc": "If true, the icon may be flipped to prevent it from being rendered upside-down.",
  "requires": [
    "icon-image",
    {
      "icon-rotation-alignment": "map"
    },
    {
      "symbol-placement": [
        "line",
        "line-center"
      ]
    }
  ]
},
"sdk-support": {
  "basic functionality": {
    "js": "0.10.0",
    "android": "2.0.1",
    "ios": "2.0.0",
    "macos": "0.1.0"
  }
},
"expression": {
  "interpolated": false,
  "parameters": [
    "zoom"
  ]
},
"property-type":

```

```

"data-constant"
  },
  "icon-offset": {
    "type": "array",
    "value": "number",
    "length": 2,
    "default": [
      0,
      0
    ],
    "doc": "Offset distance of icon from its anchor. Positive values indicate right and down, while negative values indicate left and up. Each component is multiplied by the value of `icon-size` to obtain the final offset in pixels. When combined with `icon-rotate` the offset will be as if the rotated direction was up.",
    "requires": [
      "icon-image"
    ],
    "sdk-support": {
      "basic functionality": {
        "js": "0.10.0",
        "android": "2.0.1",
        "ios": "2.0.0",
        "macos": "0.1.0"
      },
      "data-driven styling": {
        "js": "0.29.0",
        "android": "5.0.0",
        "ios": "3.5.0",
        "macos": "0.4.0"
      }
    },
    "expression": {
      "interpolated": true,
      "parameters": [
        "zoom",
        "feature"
      ]
    }
  ]
},
"property-type": "data-driven"
},
"icon-anchor": {
  "type": "enum",
  "values": {
    "center": {
      "doc": "The center of the icon is placed closest to the anchor."
    },
    "left": {
      "doc": "The left side of the icon is placed closest to the anchor."
    }
  }
}

```

```

    },
    "right": {
      "doc": "The right side of the icon is placed closest to the anchor."
    },
    "top": {
      "doc": "The top of the icon is placed closest to the anchor."
    },
    "bottom": {
      "doc": "The bottom of the icon is placed closest to the anchor."
    },
    "top-left": {
      "doc": "The top left corner of the icon is placed closest to the anchor."
    },
    "top-right": {
      "doc": "The top right corner of the icon is placed closest to the anchor."
    },
    "bottom-left": {
      "doc": "The bottom left corner of the icon is placed closest to the anchor."
    },
  },
  "bottom-right": {
    "doc": "The bottom right corner of the icon is placed closest to the anchor."
  }
},
"default": "center",
"doc": "Part of the icon placed closest to the anchor.",
"requires": [
  "icon-image"
],
"sdk-support": {
  "basic functionality": {
    "js": "0.40.0",
    "android": "5.2.0",
    "ios": "3.7.0",
    "macos": "0.6.0"
  },
  "data-driven styling": {
    "js": "0.40.0",
    "android": "5.2.0",
    "ios": "3.7.0",
    "macos": "0.6.0"
  }
},
"expression": {
  "interpolated": false,
  "parameters": [
    "zoom",
    "feature"
  ]
}

```

```

    ]
  },
  "property-type": "data-driven"
},
"icon-pitch-alignment": {
  "type": "enum",
  "values": {
    "map": {
      "doc": "The icon is aligned to the plane of the map."
    },
    "viewport": {
      "doc": "The
icon is aligned to the plane of the viewport."
    },
    "auto": {
      "doc": "Automatically matches the value of `icon-rotation-alignment` ."
    }
  },
  "default": "auto",
  "doc": "Orientation of icon when map is pitched.",
  "requires": [
    "icon-image"
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.39.0",
      "android": "5.2.0",
      "ios": "3.7.0",
      "macos": "0.6.0"
    }
  },
  "expression": {
    "interpolated": false,
    "parameters": [
      "zoom"
    ]
  },
  "property-type": "data-constant"
},
"text-pitch-alignment": {
  "type": "enum",
  "values": {
    "map": {
      "doc": "The text is aligned to the plane of the map."
    },
    "viewport": {
      "doc": "The text is aligned to the plane of the viewport."
    }
  },

```

```

"auto": {
  "doc": "Automatically matches the value of `text-rotation-alignment`."
}
},
"default": "auto",
"doc": "Orientation of text when map is pitched.",
"requires": [
  "text-field"
],
"sdk-support": {
  "basic functionality": {
    "js": "0.21.0",
    "android": "4.2.0",
    "ios": "3.4.0",
    "macos": "0.2.1"
  },
  "`auto` value": {
    "js": "0.25.0",
    "android": "4.2.0",
    "ios": "3.4.0",
    "macos": "0.3.0"
  }
},
"expression": {
  "interpolated": false,
  "parameters": [
    "zoom"
  ]
},
"property-type": "data-constant"
},
"text-rotation-alignment": {
  "type": "enum",
  "values": {
    "map": {
      "doc": "When `symbol-placement` is set to `point`, aligns text east-west. When `symbol-placement` is set to `line` or `line-center`, aligns text x-axes with the line."
    },
    "viewport": {
      "doc": "Produces glyphs whose x-axes are aligned with the x-axis of the viewport, regardless of the value of `symbol-placement`."
    },
    "auto": {
      "doc": "When `symbol-placement` is set to `point`, this is equivalent to `viewport`. When `symbol-placement` is set to `line` or `line-center`, this is equivalent to `map`."
    }
  }
},
"default": "auto",

```

"doc": "In combination with `symbol-placement`, determines the rotation behavior of the individual glyphs forming the text.",

```
"requires": [
  "text-field"
],
"sdk-support": {
  "basic functionality": {
    "js": "0.10.0",
    "android": "2.0.1",
    "ios": "2.0.0",
    "macos": "0.1.0"
  },
  "auto` value": {
    "js": "0.25.0",
    "android": "4.2.0",
    "ios": "3.4.0",
    "macos": "0.3.0"
  }
},
"expression": {
  "interpolated": false,
  "parameters": [
    "zoom"
  ]
},
"property-type":
"data-constant"
},
"text-field": {
  "type": "formatted",
  "default": "",
  "tokens": true,
  "doc": "Value to use for a text label. If a plain `string` is provided, it will be treated as a `formatted` with default/inherited formatting options.",
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    },
    "data-driven styling": {
      "js": "0.33.0",
      "android": "5.0.0",
      "ios": "3.5.0",
      "macos": "0.4.0"
    }
  }
},
```

```

"expression": {
  "interpolated": false,
  "parameters": [
    "zoom",
    "feature"
  ]
},
"property-type": "data-driven"
},
"text-font": {
  "type": "array",
  "value": "string",
  "default": [
    "Open Sans Regular",
    "Arial Unicode MS Regular"
  ],
  "doc": "Font stack to use for displaying text.",
  "requires": [
    "text-field"
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    },
    "data-driven styling": {
      "js": "0.43.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  },
  "expression": {
    "interpolated": false,
    "parameters": [
      "zoom",
      "feature"
    ]
  },
  "property-type": "data-driven"
},
"text-size": {
  "type": "number",
  "default": 16,
  "minimum": 0,
  "units": "pixels",

```

```

"doc": "Font size.",
"requires": [
  "text-field"
],
"sdk-support": {
  "basic functionality": {
    "js": "0.10.0",
    "android": "2.0.1",
    "ios": "2.0.0",
    "macos": "0.1.0"
  },
  "data-driven styling": {
    "js": "0.35.0",
    "android":
"5.1.0",
    "ios": "3.6.0",
    "macos": "0.5.0"
  }
},
"expression": {
  "interpolated": true,
  "parameters": [
    "zoom",
    "feature"
  ]
},
"property-type": "data-driven"
},
"text-max-width": {
  "type": "number",
  "default": 10,
  "minimum": 0,
  "units": "ems",
  "doc": "The maximum line width for text wrapping.",
  "requires": [
    "text-field"
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    },
    "data-driven styling": {
      "js": "0.40.0",
      "android": "5.2.0",
      "ios": "3.7.0",

```

```

    "macos": "0.6.0"
  }
},
"expression": {
  "interpolated": true,
  "parameters": [
    "zoom",
    "feature"
  ]
},
"property-type": "data-driven"
},
"text-line-height": {
  "type": "number",
  "default": 1.2,
  "units": "ems",
  "doc": "Text leading value for multi-line text.",
  "requires": [
    "text-field"
  ],
},
"sdk-support": {
  "basic functionality": {
    "js": "0.10.0",
    "android": "2.0.1",
    "ios": "2.0.0",
    "macos": "0.1.0"
  }
},
"expression": {
  "interpolated": true,
  "parameters": [
    "zoom"
  ]
},
"property-type": "data-constant"
},
"text-letter-spacing": {
  "type": "number",
  "default": 0,
  "units": "ems",
  "doc": "Text tracking amount.",
  "requires": [
    "text-field"
  ],
},
"sdk-support": {
  "basic functionality": {
    "js": "0.10.0",
    "android": "2.0.1",

```

```

    "ios": "2.0.0",
    "macos": "0.1.0"
  },
  "data-driven styling": {
    "js": "0.40.0",
    "android": "5.2.0",
    "ios": "3.7.0",
    "macos": "0.6.0"
  }
},
"expression": {
  "interpolated": true,
  "parameters": [
    "zoom",
    "feature"
  ]
},
"property-type": "data-driven"
},
"text-justify": {
  "type": "enum",
  "values": {
    "auto": {
      "doc": "The text is aligned towards the anchor position."
    },
    "left": {
      "doc": "The text is aligned to the left."
    },
    "center": {
      "doc": "The text is centered."
    },
    "right": {
      "doc": "The text is aligned to the right."
    }
  },
  "default": "center",
  "doc": "Text justification options.",
  "requires": [
    "text-field"
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    }
  },

```

```

"data-driven styling": {
  "js": "0.39.0",

  "android": "5.2.0",
  "ios": "3.7.0",
  "macos": "0.6.0"
},
"auto": {
  "js": "0.54.0",
  "android": "7.4.0",
  "ios": "4.10.0",
  "macos": "0.14.0"
}
},
"expression": {
  "interpolated": false,
  "parameters": [
    "zoom",
    "feature"
  ]
},
"property-type": "data-driven"
},
"text-radial-offset": {
  "type": "number",
  "units": "ems",
  "default": 0,
  "doc": "Radial offset of text, in the direction of the symbol's anchor. Useful in combination with `text-variable-anchor`, which defaults to using the two-dimensional `text-offset` if present.",
  "sdk-support": {
    "basic functionality": {
      "js": "0.54.0",
      "android": "7.4.0",
      "ios": "4.10.0",
      "macos": "0.14.0"
    },
    "data-driven styling": {
      "js": "0.54.0",
      "android": "7.4.0",
      "ios": "4.10.0",
      "macos": "0.14.0"
    }
  },
  "requires": [
    "text-field"
  ],
  "property-type": "data-driven",
  "expression": {

```

```

    "interpolated": true,
    "parameters": [
      "zoom",
      "feature"
    ]
  }
},
"text-variable-anchor": {
  "type": "array",
  "value": "enum",
  "values": {
    "center": {
      "doc": "The center of the text is placed closest to the anchor."
    },
    "left": {
      "doc": "The left side of the text is placed closest to the anchor."
    },
    "right": {
      "doc": "The right side of the text is placed closest to the anchor."
    },
    "top": {
      "doc": "The top of the text is placed closest to the anchor."
    },
    "bottom": {
      "doc": "The bottom of the text is placed closest to the anchor."
    },
    "top-left": {
      "doc": "The top left corner of the text is placed closest to the
anchor."
    },
    "top-right": {
      "doc": "The top right corner of the text is placed closest to the anchor."
    },
    "bottom-left": {
      "doc": "The bottom left corner of the text is placed closest to the anchor."
    },
    "bottom-right": {
      "doc": "The bottom right corner of the text is placed closest to the anchor."
    }
  },
  "requires": [
    "text-field",
    {
      "symbol-placement": [
        "point"
      ]
    }
  ],
}

```

"doc": "To increase the chance of placing high-priority labels on the map, you can provide an array of `text-anchor` locations: the renderer will attempt to place the label at each location, in order, before moving onto the next label. Use `text-justify: auto` to choose justification based on anchor position. To apply an offset, use the `text-radial-offset` or the two-dimensional `text-offset`.",

```
"sdk-support": {
  "basic functionality": {

"js": "0.54.0",
  "android": "7.4.0",
  "ios": "4.10.0",
  "macos": "0.14.0"
  }
},
"expression": {
  "interpolated": false,
  "parameters": [
    "zoom"
  ]
},
"property-type": "data-constant"
},
"text-anchor": {
  "type": "enum",
  "values": {
    "center": {
      "doc": "The center of the text is placed closest to the anchor."
    },
    "left": {
      "doc": "The left side of the text is placed closest to the anchor."
    },
    "right": {
      "doc": "The right side of the text is placed closest to the anchor."
    },
    "top": {
      "doc": "The top of the text is placed closest to the anchor."
    },
    "bottom": {
      "doc": "The bottom of the text is placed closest to the anchor."
    },
    "top-left": {
      "doc": "The top left corner of the text is placed closest to the anchor."
    },
    "top-right": {
      "doc": "The top right corner of the text is placed closest to the anchor."
    },
    "bottom-left": {
      "doc": "The bottom left corner of the text is placed closest to the anchor."
    }
  }
}
```

```

    },
    "bottom-right": {
      "doc": "The bottom right corner of the text is placed closest to the anchor."
    }
  },
  "default": "center",
  "doc": "Part of the text placed closest to the anchor.",
  "requires": [
    "text-field",
    {
      "!": "text-variable-anchor"
    }
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    },
    "data-driven styling": {
      "js": "0.39.0",
      "android": "5.2.0",
      "ios": "3.7.0",
      "macos": "0.6.0"
    }
  },
  "expression": {
    "interpolated": false,
    "parameters": [
      "zoom",
      "feature"
    ]
  },
  "property-type": "data-driven"
},
"text-max-angle": {
  "type": "number",
  "default": 45,
  "units": "degrees",
  "doc": "Maximum angle change between adjacent characters.",
  "requires": [
    "text-field",
    {
      "symbol-placement": [
        "line",
        "line-center"
      ]
    }
  ]
}

```

```

    ]
  }
],
"sdk-support": {
  "basic functionality": {
    "js": "0.10.0",
    "android": "2.0.1",
    "ios": "2.0.0",
    "macos": "0.1.0"
  }
},
"expression": {
  "interpolated": true,
  "parameters": [
    "zoom"
  ]
},
"property-type": "data-constant"
},
"text-writing-mode": {
  "type": "array",
  "value": "enum",
  "values": {
    "horizontal": {
      "doc": "If a text's language supports horizontal writing mode, symbols with point placement would be laid out horizontally."
    },
    "vertical": {
      "doc": "If a text's language supports vertical writing mode, symbols with point placement would be laid out vertically."
    }
  }
},
"doc": "The property allows control over a symbol's orientation. Note that the property values act as a hint, so that a symbol whose language doesn't support the provided orientation will be laid out in its natural orientation. Example: English point symbol will be rendered horizontally even if array value contains single 'vertical' enum value. The order of elements in an array defines priority order for the placement of an orientation variant.",
"requires": [
  "text-field",
  {
    "symbol-placement": [
      "point"
    ]
  }
],
"sdk-support": {
  "basic functionality": {
    "js": "1.3.0",
    "android": "8.3.0",

```

```

        "ios": "5.3.0",
        "macos": "0.14.0"
    }
},
"expression": {
    "interpolated": false,
    "parameters": [
        "zoom"
    ]
},
"property-type": "data-constant"
},
"text-rotate": {
    "type": "number",
    "default": 0,
    "period": 360,
    "units": "degrees",
    "doc": "Rotates the text clockwise.",
    "requires": [
        "text-field"
    ],
},
"sdk-support": {
    "basic functionality": {
        "js": "0.10.0",
        "android": "2.0.1",
        "ios": "2.0.0",
        "macos": "0.1.0"
    },
    "data-driven styling": {
        "js": "0.35.0",
        "android": "5.1.0",
        "ios": "3.6.0",
        "macos": "0.5.0"
    }
},
"expression": {
    "interpolated": true,
    "parameters": [
        "zoom",
        "feature"
    ]
},
"property-type": "data-driven"
},
"text-padding": {
    "type": "number",
    "default": 2,
    "minimum": 0,

```

```

    "units": "pixels",
    "doc": "Size of the additional area around the text bounding
box used for detecting symbol collisions.",
    "requires": [
      "text-field"
    ],
    "sdk-support": {
      "basic functionality": {
        "js": "0.10.0",
        "android": "2.0.1",
        "ios": "2.0.0",
        "macos": "0.1.0"
      }
    },
    "expression": {
      "interpolated": true,
      "parameters": [
        "zoom"
      ]
    },
    "property-type": "data-constant"
  },
  "text-keep-upright": {
    "type": "boolean",
    "default": true,
    "doc": "If true, the text may be flipped vertically to prevent it from being rendered upside-down.",
    "requires": [
      "text-field",
      {
        "text-rotation-alignment": "map"
      },
      {
        "symbol-placement": [
          "line",
          "line-center"
        ]
      }
    ],
    "sdk-support": {
      "basic functionality": {
        "js": "0.10.0",
        "android": "2.0.1",
        "ios": "2.0.0",
        "macos":
"0.1.0"
      }
    },
    "expression": {

```

```

    "interpolated": false,
    "parameters": [
      "zoom"
    ]
  },
  "property-type": "data-constant"
},
"text-transform": {
  "type": "enum",
  "values": {
    "none": {
      "doc": "The text is not altered."
    },
    "uppercase": {
      "doc": "Forces all letters to be displayed in uppercase."
    },
    "lowercase": {
      "doc": "Forces all letters to be displayed in lowercase."
    }
  },
  "default": "none",
  "doc": "Specifies how to capitalize text, similar to the CSS `text-transform` property.",
  "requires": [
    "text-field"
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    },
    "data-driven styling": {
      "js": "0.33.0",
      "android": "5.0.0",
      "ios": "3.5.0",
      "macos": "0.4.0"
    }
  },
  "expression": {
    "interpolated": false,
    "parameters": [
      "zoom",
      "feature"
    ]
  },
  "property-type": "data-driven"
},

```

```

"text-offset": {
  "type": "array",
  "doc": "Offset distance of text from its anchor. Positive values indicate right and down, while negative values
indicate left and up. If used with text-variable-anchor, input values will be taken as absolute values. Offsets along
the x- and y-axis will be applied automatically based on the anchor position.",
  "value": "number",
  "units": "ems",
  "length": 2,
  "default": [
    0,
    0
  ],
  "requires": [
    "text-field",
    {
      "!": "text-radial-offset"
    }
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    },
    "data-driven
styling": {
      "js": "0.35.0",
      "android": "5.1.0",
      "ios": "3.6.0",
      "macos": "0.5.0"
    }
  },
  "expression": {
    "interpolated": true,
    "parameters": [
      "zoom",
      "feature"
    ]
  },
  "property-type": "data-driven"
},
"text-allow-overlap": {
  "type": "boolean",
  "default": false,
  "doc": "If true, the text will be visible even if it collides with other previously drawn symbols.",
  "requires": [
    "text-field"
  ]
}

```

```

],
"sdk-support": {
  "basic functionality": {
    "js": "0.10.0",
    "android": "2.0.1",
    "ios": "2.0.0",
    "macos": "0.1.0"
  }
},
"expression": {
  "interpolated": false,
  "parameters": [
    "zoom"
  ]
},
"property-type": "data-constant"
},
"text-ignore-placement": {
  "type": "boolean",
  "default": false,
  "doc": "If true,
other symbols can be visible even if they collide with the text.",
  "requires": [
    "text-field"
  ]
},
"sdk-support": {
  "basic functionality": {
    "js": "0.10.0",
    "android": "2.0.1",
    "ios": "2.0.0",
    "macos": "0.1.0"
  }
},
"expression": {
  "interpolated": false,
  "parameters": [
    "zoom"
  ]
},
"property-type": "data-constant"
},
"text-optional": {
  "type": "boolean",
  "default": false,
  "doc": "If true, icons will display without their corresponding text when the text collides with other symbols and
the icon does not.",
  "requires": [
    "text-field",

```

```

    "icon-image"
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    }
  },
  "expression": {
    "interpolated": false,
    "parameters":
  [
    "zoom"
  ]
  },
  "property-type": "data-constant"
},
"visibility": {
  "type": "enum",
  "values": {
    "visible": {
      "doc": "The layer is shown."
    },
    "none": {
      "doc": "The layer is not shown."
    }
  },
  "default": "visible",
  "doc": "Whether this layer is displayed.",
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    }
  },
  "property-type": "constant"
}
},
"layout_raster": {
  "visibility": {
    "type": "enum",
    "values": {
      "visible": {
        "doc": "The layer is shown."
      }
    }
  }
}

```

```

    },
    "none": {
      "doc": "The layer is not shown."
    }
  },
  "default": "visible",
  "doc": "Whether this layer is displayed.",
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    }
  },
  "property-type": "constant"
},
"layout_hillshade": {
  "visibility": {
    "type": "enum",
    "values": {
      "visible": {
        "doc": "The layer is shown."
      },
      "none": {
        "doc": "The layer is not shown."
      }
    }
  },
  "default": "visible",
  "doc": "Whether this layer is displayed.",
  "sdk-support": {
    "basic functionality": {
      "js": "0.43.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  },
  "property-type": "constant"
},
"filter": {
  "type": "array",
  "value": "*",
  "doc": "A filter selects specific features from a layer."
},
"filter_operator": {

```

```

"type": "enum",
"values": {
  "==" : {
    "doc": "\"[\"==\", key, value]` equality: `feature[key] = value`"
  },
  "!=" : {
    "doc": "\"[\"!=\",
key, value]` inequality: `feature[key] value`"
  },
  ">" : {
    "doc": "\"[\">\", key, value]` greater than: `feature[key] > value`"
  },
  ">=" : {
    "doc": "\"[\">=\", key, value]` greater than or equal: `feature[key] value`"
  },
  "<" : {
    "doc": "\"[\"<\", key, value]` less than: `feature[key] < value`"
  },
  "<=" : {
    "doc": "\"[\"<=\", key, value]` less than or equal: `feature[key] value`"
  },
  "in" : {
    "doc": "\"[\"in\", key, v0, ..., vn]` set inclusion: `feature[key] {v0, ..., vn}`"
  },
  "!in" : {
    "doc": "\"[\"!in\", key, v0, ..., vn]` set exclusion: `feature[key] {v0, ..., vn}`"
  },
  "all" : {
    "doc": "\"[\"all\", f0, ..., fn]` logical `AND`: `f0 ... fn`"
  },
  "any" : {
    "doc": "\"[\"any\", f0, ..., fn]` logical `OR`: `f0 ... fn`"
  },
  "none" : {
    "doc": "\"[\"none\", f0, ..., fn]` logical `NOR`: `f0 ...
fn`"
  },
  "has" : {
    "doc": "\"[\"has\", key]` `feature[key]` exists"
  },
  "!has" : {
    "doc": "\"[\"!has\", key]` `feature[key]` does not exist"
  }
},
"doc": "The filter operator."
},
"geometry_type": {
  "type": "enum",

```

```

"values": {
  "Point": {
    "doc": "Filter to point geometries."
  },
  "LineString": {
    "doc": "Filter to line geometries."
  },
  "Polygon": {
    "doc": "Filter to polygon geometries."
  }
},
"doc": "The geometry type for the filter to select."
},
"function": {
  "expression": {
    "type": "expression",
    "doc": "An expression."
  },
  "stops": {
    "type": "array",
    "doc": "An array of stops.",
    "value": "function_stop"
  },
  "base": {
    "type": "number",
    "default": 1,
    "minimum": 0,
    "doc": "The exponential base of the interpolation curve. It controls the rate at which the result increases. Higher
values
make the result increase more towards the high end of the range. With `1` the stops are interpolated linearly."
  },
  "property": {
    "type": "string",
    "doc": "The name of a feature property to use as the function input.",
    "default": "$zoom"
  },
  "type": {
    "type": "enum",
    "values": {
      "identity": {
        "doc": "Return the input value as the output value."
      },
      "exponential": {
        "doc": "Generate an output by interpolating between stops just less than and just greater than the function
input."
      }
    },
    "interval": {
      "doc": "Return the output value of the stop just less than the function input."
    }
  }
}

```

```

    },
    "categorical": {
      "doc": "Return the output value of the stop equal to the function input."
    }
  },
  "doc": "The interpolation strategy to use in function evaluation.",
  "default": "exponential"
},
"colorSpace": {
  "type": "enum",
  "values":
{
  "rgb": {
    "doc": "Use the RGB color space to interpolate color values"
  },
  "lab": {
    "doc": "Use the LAB color space to interpolate color values."
  },
  "hcl": {
    "doc": "Use the HCL color space to interpolate color values, interpolating the Hue, Chroma, and Luminance
channels individually."
  }
},
  "doc": "The color space in which colors interpolated. Interpolating colors in perceptual color spaces like LAB
and HCL tend to produce color ramps that look more consistent and produce colors that can be differentiated more
easily than those interpolated in RGB space.",
  "default": "rgb"
},
"default": {
  "type": "*",
  "required": false,
  "doc": "A value to serve as a fallback function result when a value isn't otherwise available. It is used in the
following circumstances:\n* In categorical functions, when the feature value does not match any of the stop domain
values.\n* In property
and zoom-and-property functions, when a feature does not contain a value for the specified property.\n* In identity
functions, when the feature value is not valid for the style property (for example, if the function is being used for a
`circle-color` property but the feature property value is not a string or not a valid color).\n* In interval or exponential
property and zoom-and-property functions, when the feature value is not numeric.\nIf no default is provided, the
style property's default is used in these circumstances."
}
},
"function_stop": {
  "type": "array",
  "minimum": 0,
  "maximum": 24,
  "value": [
    "number",
    "color"
  ]
}

```

```

    ],
    "length": 2,
    "doc": "Zoom level and value pair."
  },
  "expression": {
    "type": "array",
    "value": "*",
    "minimum": 1,
    "doc": "An expression defines a function that can be used for data-driven style properties or feature filters."
  },
  "expression_name": {
    "doc": "",
    "type": "enum",
    "values":
  {
    "let": {
      "doc": "Binds expressions to named variables, which can then be referenced in the result expression using
[\"var\", \"variable_name\"].",
      "group": "Variable binding",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    }
  },
  "var": {
    "doc": "References variable bound using \"let\".",
    "group": "Variable binding",
    "sdk-support": {
      "basic functionality": {
        "js": "0.41.0",
        "android": "6.0.0",
        "ios": "4.0.0",
        "macos": "0.7.0"
      }
    }
  },
  "literal": {
    "doc": "Provides a literal array or object value.",
    "group": "Types",
    "sdk-support": {
      "basic functionality": {
        "js": "0.41.0",
        "android": "6.0.0",
        "ios": "4.0.0",

```

```

"macos": "0.7.0"
  }
}
},
"array": {
  "doc": "Asserts that the input is an array (optionally with a specific item type and length). If, when the input
expression is evaluated, it is not of the asserted type, then this assertion will cause the whole expression to be
aborted.",
  "group": "Types",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"at": {
  "doc": "Retrieves an item from an array.",
  "group": "Lookup",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"in": {
  "doc": "Determines whether an item exists in an array or a substring exists in a string.",
  "group": "Lookup",
  "sdk-support":
{
  "basic functionality": {
    "js": "1.6.0"
  }
}
},
"case": {
  "doc": "Selects the first output whose corresponding test condition evaluates to true, or the fallback value
otherwise.",
  "group": "Decision",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",

```

```

    "android": "6.0.0",
    "ios": "4.0.0",
    "macos": "0.7.0"
  }
}
},

```

```
"match": {
```

"doc": "Selects the output whose label value matches the input value, or the fallback value if no match is found. The input can be any expression (e.g. ``["get", "building_type"]``). Each label must be either: `\n * a single literal value`; or `\n * an array of literal values, whose values must be all strings or all numbers (e.g. [100, 101] or `["c", "b"]`)`. The input matches if any of the values in the array matches, similar to the ``in`` operator. Each label must be unique.

If the input type does not match the type of the labels, the result will be the fallback value.",

```

  "group": "Decision",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},

```

```
"coalesce": {
```

"doc": "Evaluates each expression in turn until the first non-null value is obtained, and returns that value.",

```

  "group": "Decision",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},

```

```
"step": {
```

"doc": "Produces discrete, stepped results by evaluating a piecewise-constant function defined by pairs of input and output values (``stops``). The ``input`` may be any numeric expression (e.g., ``["get", "population"]``). Stop inputs must be numeric literals in strictly ascending order. Returns the output value of the stop just less than the input, or the first output if the input is less than the first stop.",

```

  "group": "Ramps, scales, curves",
  "sdk-support": {
    "basic functionality": {
      "js": "0.42.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
}

```

```

    }
  }
},
"interpolate": {
  "doc": "Produces continuous, smooth results by interpolating between pairs of input and output values
(\`stops\`). The \`input` may be any numeric expression (e.g., `[\"get\", \"population\"]`). Stop inputs must be
numeric literals in strictly ascending order. The output type must be `number`, `array<number>`, or
`color`.\n\nInterpolation types:\n- `[\"linear\"]`: interpolates linearly between the pair of stops just less than and just
greater than the input.\n- `[\"exponential\", base]`: interpolates exponentially between the stops just less than and
just greater
than the input. `base` controls the rate at which the output increases: higher values make the output increase more
towards the high end of the range. With values close to 1 the output increases linearly.\n- `[\"cubic-bezier\", x1, y1,
x2, y2]`: interpolates using the cubic bezier curve defined by the given control points.",
  "group": "Ramps, scales, curves",
  "sdk-support": {
    "basic functionality": {
      "js": "0.42.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"interpolate-hcl": {
  "doc": "Produces continuous, smooth results by interpolating between pairs of input and output values
(\`stops\`). Works like `interpolate`, but the output type must be `color`, and the interpolation is performed in the
Hue-Chroma-Luminance color space.",
  "group": "Ramps, scales, curves",
  "sdk-support": {
    "basic functionality": {
      "js": "0.49.0"
    }
  }
},
"interpolate-lab": {
  "doc": "Produces continuous, smooth results by interpolating between pairs of input and output values
(\`stops\`). Works like `interpolate`, but the output type must be `color`, and the interpolation is performed in the
CIELAB color space.",
  "group": "Ramps, scales, curves",
  "sdk-support": {
    "basic functionality": {
      "js": "0.49.0"
    }
  }
},
"ln2": {
  "doc": "Returns mathematical constant ln(2).",
  "group": "Math",

```

```

"sdk-support": {
  "basic functionality": {
    "js": "0.41.0",
    "android": "6.0.0",
    "ios": "4.0.0",
    "macos": "0.7.0"
  }
}
},
"pi": {
  "doc": "Returns the mathematical constant pi.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios":
"4.0.0",
      "macos": "0.7.0"
    }
  }
},
"e": {
  "doc": "Returns the mathematical constant e.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"typeof": {
  "doc": "Returns a string describing the type of the given value.",
  "group": "Types",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"string": {
  "doc": "Asserts that the input value is a string. If multiple values are provided, each one is evaluated in order

```

```

until a string is obtained. If none of the inputs are strings, the expression is an error.",
  "group": "Types",
  "sdk-support": {
    "basic
functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  },
  "number": {
    "doc": "Asserts that the input value is a number. If multiple values are provided, each one is evaluated in order
until a number is obtained. If none of the inputs are numbers, the expression is an error.",
    "group": "Types",
    "sdk-support": {
      "basic functionality": {
        "js": "0.41.0",
        "android": "6.0.0",
        "ios": "4.0.0",
        "macos": "0.7.0"
      }
    },
    "boolean": {
      "doc": "Asserts that the input value is a boolean. If multiple values are provided, each one is evaluated in order
until a boolean is obtained. If none of the inputs are booleans, the expression is an error.",
      "group": "Types",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android":
"6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "object": {
      "doc": "Asserts that the input value is an object. If multiple values are provided, each one is evaluated in order
until an object is obtained. If none of the inputs are objects, the expression is an error.",
      "group": "Types",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",

```

```

    "macos": "0.7.0"
  }
}
},
"collator": {
  "doc": "Returns a `collator` for use in locale-dependent comparison operations. The `case-sensitive` and `diacritic-sensitive` options default to `false`. The `locale` argument specifies the IETF language tag of the locale to use. If none is provided, the default locale is used. If the requested locale is not available, the `collator` will use a system-defined fallback locale. Use `resolved-locale` to test the results of locale fallback behavior.",
  "group": "Types",
  "sdk-support": {
    "basic functionality": {
      "js": "0.45.0",
      "android": "6.5.0",
      "ios": "4.2.0",
      "macos": "0.9.0"
    }
  }
},
"format": {
  "doc": "Returns `formatted` text containing annotations for use in mixed-format `text-field` entries. For a `text-field` entries of a string type, following option object's properties are supported: If set, the `text-font` value overrides the font specified by the root layout properties. If set, the `font-scale` value specifies a scaling factor relative to the `text-size` specified in the root layout properties. If set, the `text-color` value overrides the color specified by the root paint properties for this layer.",
  "group": "Types",
  "sdk-support": {
    "basic functionality": {
      "js": "0.48.0",
      "android": "6.7.0",
      "ios":
"4.6.0",
      "macos": "0.12.0"
    }
  },
  "text-font": {
    "js": "0.48.0",
    "android": "6.7.0",
    "ios": "4.6.0",
    "macos": "0.12.0"
  },
  "font-scale": {
    "js": "0.48.0",
    "android": "6.7.0",
    "ios": "4.6.0",
    "macos": "0.12.0"
  },
  "text-color": {

```

```

    "js": "1.3.0",
    "android": "7.3.0",
    "ios": "4.10.0",
    "macos": "0.14.0"
  },
  "image": {
    "js": "1.6.0"
  }
},
"image": {

```

"doc": "Returns an `image` type for use in `icon-image`, `\*-pattern` entries and as a section in the `format` expression. If set, the `image` argument will check that the requested image exists in the style and will return either the resolved image name or `null`, depending on whether or not the image is currently in the style. This validation process is synchronous

and requires the image to have been added to the style before requesting it in the `image` argument.",

```

  "group": "Types",
  "sdk-support": {
    "basic functionality": {
      "js": "1.4.0",
      "android": "8.6.0",
      "ios": "5.6.0"
    }
  }
},

```

"number-format": {  
 "doc": "Converts the input number into a string representation using the providing formatting rules. If set, the `locale` argument specifies the locale to use, as a BCP 47 language tag. If set, the `currency` argument specifies an ISO 4217 code to use for currency-style formatting. If set, the `min-fraction-digits` and `max-fraction-digits` arguments specify the minimum and maximum number of fractional digits to include.",

```

  "group": "Types",
  "sdk-support": {
    "basic functionality": {
      "js": "0.54.0"
    }
  }
},

```

"to-string": {  
 "doc": "Converts the input value to a string. If the input is `null`, the result is `\"\"`. If the input is a boolean, the result is `\"true\"` or `\"false\"`. If the input is a number, it is converted to a string as specified by the [\"NumberToString\"](<https://tc39.github.io/ecma262/#sec-tostring-applied-to-the-number-type>) of the ECMAScript Language Specification. If the input is a color, it is converted to a string of the form `\"rgba(r,g,b,a)\"`, where `r`, `g`, and `b` are numerals ranging from 0 to 255, and `a` ranges from 0 to 1. Otherwise, the input is converted to a string in the format specified by the [\"JSON.stringify\"](<https://tc39.github.io/ecma262/#sec-json.stringify>) function of the ECMAScript Language Specification.",

```

  "group": "Types",
  "sdk-support": {

```

```

    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  },
  "to-number": {
    "doc": "Converts the input value to a number,
if possible. If the input is `null` or `false`, the result is 0. If the input is `true`, the result is 1. If the input is a string,
it is converted to a number as specified by the [\"ToNumber Applied to the String Type\"
algorithm](https://tc39.github.io/ecma262/#sec-tonumber-applied-to-the-string-type) of the ECMAScript Language
Specification. If multiple values are provided, each one is evaluated in order until the first successful conversion is
obtained. If none of the inputs can be converted, the expression is an error.",
    "group": "Types",
    "sdk-support": {
      "basic functionality": {
        "js": "0.41.0",
        "android": "6.0.0",
        "ios": "4.0.0",
        "macos": "0.7.0"
      }
    }
  },
  "to-boolean": {
    "doc": "Converts the input value to a boolean. The result is `false` when then input is an empty string, 0, `false`,
`null`, or `NaN`; otherwise it is `true`.",
    "group": "Types",
    "sdk-support":
  {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
  },
  "to-rgba": {
    "doc": "Returns a four-element array containing the input color's red, green, blue, and alpha components, in that
order.",
    "group": "Color",
    "sdk-support": {
      "basic functionality": {
        "js": "0.41.0",
        "android": "6.0.0",
        "ios": "4.0.0",

```

```

    "macos": "0.7.0"
  }
}
},
"to-color": {
  "doc": "Converts the input value to a color. If multiple values are provided, each one is evaluated in order until
the first successful conversion is obtained. If none of the inputs can be converted, the expression is an error.",
  "group": "Types",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios":
"4.0.0",
      "macos": "0.7.0"
    }
  }
},
"rgb": {
  "doc": "Creates a color value from red, green, and blue components, which must range between 0 and 255, and
an alpha component of 1. If any component is out of range, the expression is an error.",
  "group": "Color",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"rgba": {
  "doc": "Creates a color value from red, green, blue components, which must range between 0 and 255, and an
alpha component which must range between 0 and 1. If any component is out of range, the expression is an error.",
  "group": "Color",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"get": {
  "doc": "Retrieves a property value from the current feature's properties, or from another object if a second
argument is provided. Returns null if the requested property is missing.",

```

```

"group": "Lookup",
"sdk-support": {
  "basic functionality": {
    "js": "0.41.0",
    "android": "6.0.0",
    "ios": "4.0.0",
    "macos": "0.7.0"
  }
}
},
"has": {
  "doc": "Tests for the presence of an property value in the current feature's properties, or from another object if a
second argument is provided.",
  "group": "Lookup",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"length": {
  "doc": "Gets the length of an array or string.",
  "group": "Lookup",
  "sdk-support": {
    "basic functionality":
{
  "js": "0.41.0",
  "android": "6.0.0",
  "ios": "4.0.0",
  "macos": "0.7.0"
}
}
},
"properties": {
  "doc": "Gets the feature properties object. Note that in some cases, it may be more efficient to use [\"get\",
\\\"property_name\\\"] directly.",
  "group": "Feature data",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
}
}

```

```

    },
    "feature-state": {
      "doc": "Retrieves a property value from the current feature's state. Returns null if the requested property is not
present on the feature's state. A feature's state is not part of the GeoJSON or vector tile data, and must be set
programmatically on each feature. Features are identified by their `id` attribute, which must be an integer or a string
that can be cast to an integer. Note that [\"feature-state\"]
can only be used with paint properties that support data-driven styling.",
      "group": "Feature data",
      "sdk-support": {
        "basic functionality": {
          "js": "0.46.0"
        }
      }
    },
    "geometry-type": {
      "doc": "Gets the feature's geometry type: Point, MultiPoint, LineString, MultiLineString, Polygon,
MultiPolygon.",
      "group": "Feature data",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "id": {
      "doc": "Gets the feature's id, if it has one.",
      "group": "Feature data",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "zoom": {
      "doc": "Gets the current zoom level.
Note that in style layout and paint properties, [\"zoom\"] may only appear as the input to a top-level \"step\" or
\"interpolate\" expression.",
      "group": "Zoom",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",

```

```

    "ios": "4.0.0",
    "macos": "0.7.0"
  }
}
},
"heatmap-density": {
  "doc": "Gets the kernel density estimation of a pixel in a heatmap layer, which is a relative measure of how many data points are crowded around a particular pixel. Can only be used in the `heatmap-color` property.",
  "group": "Heatmap",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"line-progress": {
  "doc": "Gets the progress along a gradient line. Can only be used in the `line-gradient` property.",
  "group": "Feature data",
  "sdk-support": {
    "basic functionality": {
      "js": "0.45.0",
      "android": "6.5.0",
      "ios": "4.6.0",
      "macos": "0.12.0"
    }
  }
},
"accumulated": {
  "doc": "Gets the value of a cluster property accumulated so far. Can only be used in the `clusterProperties` option of a clustered GeoJSON source.",
  "group": "Feature data",
  "sdk-support": {
    "basic functionality": {
      "js": "0.53.0"
    }
  }
},
"+": {
  "doc": "Returns the sum of the inputs.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",

```

```

    "macos": "0.7.0"
  }
}
},
"*": {
  "doc": "Returns the product of the inputs.",
  "group": "Math",
  "sdk-support": {

"basic functionality": {
  "js": "0.41.0",
  "android": "6.0.0",
  "ios": "4.0.0",
  "macos": "0.7.0"
}
}
},
"-": {
  "doc": "For two inputs, returns the result of subtracting the second input from the first. For a single input,
returns the result of subtracting it from 0.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
}
},
"/": {
  "doc": "Returns the result of floating point division of the first input by the second.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
}
},
"%": {
  "doc": "Returns the remainder after integer division
of the first input by the second.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {

```

```

    "js": "0.41.0",
    "android": "6.0.0",
    "ios": "4.0.0",
    "macos": "0.7.0"
  }
},
"^": {
  "doc": "Returns the result of raising the first input to the power specified by the second.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"sqrt": {
  "doc": "Returns the square root of the input.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.42.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"log10": {
  "doc": "Returns the base-ten logarithm of the input.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"ln": {
  "doc": "Returns the natural logarithm of the input.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {

```

```

    "js": "0.41.0",
    "android": "6.0.0",
    "ios": "4.0.0",
    "macos": "0.7.0"
  }
},
"log2": {
  "doc": "Returns the base-two logarithm of the input.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"sin": {
  "doc": "Returns the sine of the input.",
  "group": "Math",
  "sdk-support": {
    "basic functionality":
{
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"cos": {
  "doc": "Returns the cosine of the input.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"tan": {
  "doc": "Returns the tangent of the input.",
  "group": "Math",
  "sdk-support": {

```

```

    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  },
  "asin": {
    "doc": "Returns the arcsine of the input.",
    "group": "Math",
    "sdk-support": {
      "basic functionality": {
        "js": "0.41.0",
        "android": "6.0.0",
        "ios": "4.0.0",

        "macos": "0.7.0"
      }
    }
  },
  "acos": {
    "doc": "Returns the arccosine of the input.",
    "group": "Math",
    "sdk-support": {
      "basic functionality": {
        "js": "0.41.0",
        "android": "6.0.0",
        "ios": "4.0.0",
        "macos": "0.7.0"
      }
    }
  },
  "atan": {
    "doc": "Returns the arctangent of the input.",
    "group": "Math",
    "sdk-support": {
      "basic functionality": {
        "js": "0.41.0",
        "android": "6.0.0",
        "ios": "4.0.0",
        "macos": "0.7.0"
      }
    }
  },
  "min": {
    "doc": "Returns the minimum value of the inputs.",
    "group": "Math",

```

```

"sdk-support": {
  "basic functionality": {
    "js": "0.41.0",
    "android": "6.0.0",
    "ios": "4.0.0",
    "macos": "0.7.0"
  }
}
},
"max": {
  "doc":
"Returns the maximum value of the inputs.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"round": {
  "doc": "Rounds the input to the nearest integer. Halfway values are rounded away from zero. For example,
`["round", -1.5]` evaluates to -2.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.45.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"abs": {
  "doc": "Returns the absolute value of the input.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.45.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"ceil":

```

```

{
  "doc": "Returns the smallest integer that is greater than or equal to the input.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.45.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"floor": {
  "doc": "Returns the largest integer that is less than or equal to the input.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.45.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"===": {
  "doc": "Returns `true` if the input values are equal, `false` otherwise. The comparison is strictly typed: values of different runtime types are always considered unequal. Cases where the types are known to be different at parse time are considered invalid and will produce a parse error. Accepts an optional `collator` argument to control locale-dependent string comparisons.",
  "group": "Decision",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  },
  "collator": {
    "js": "0.45.0",
    "android": "6.5.0",
    "ios": "4.2.0",
    "macos": "0.9.0"
  }
},
"!=": {
  "doc": "Returns `true` if the input values are not equal, `false` otherwise. The comparison is strictly typed: values of different runtime types are always considered unequal. Cases where the types are known to be different at

```

parse time are considered invalid and will produce a parse error. Accepts an optional `collator` argument to control locale-dependent string comparisons.",

```
"group": "Decision",
"sdk-support": {
  "basic functionality": {
    "js": "0.41.0",
    "android":
"6.0.0",
    "ios": "4.0.0",
    "macos": "0.7.0"
  },
  "collator": {
    "js": "0.45.0",
    "android": "6.5.0",
    "ios": "4.2.0",
    "macos": "0.9.0"
  }
}
```

```
},
```

```
">": {
```

"doc": "Returns `true` if the first input is strictly greater than the second, `false` otherwise. The arguments are required to be either both strings or both numbers; if during evaluation they are not, expression evaluation produces an error. Cases where this constraint is known not to hold at parse time are considered in valid and will produce a parse error. Accepts an optional `collator` argument to control locale-dependent string comparisons.",

```
"group": "Decision",
"sdk-support": {
  "basic functionality": {
    "js": "0.41.0",
    "android": "6.0.0",
    "ios": "4.0.0",
    "macos": "0.7.0"
  },
  "collator": {
    "js": "0.45.0",

    "android": "6.5.0",
    "ios": "4.2.0",
    "macos": "0.9.0"
  }
}
```

```
},
```

```
"<": {
```

"doc": "Returns `true` if the first input is strictly less than the second, `false` otherwise. The arguments are required to be either both strings or both numbers; if during evaluation they are not, expression evaluation produces an error. Cases where this constraint is known not to hold at parse time are considered in valid and will produce a parse error. Accepts an optional `collator` argument to control locale-dependent string comparisons.",

```
"group": "Decision",
"sdk-support": {
```

```

"basic functionality": {
  "js": "0.41.0",
  "android": "6.0.0",
  "ios": "4.0.0",
  "macos": "0.7.0"
},
"collator": {
  "js": "0.45.0",
  "android": "6.5.0",
  "ios": "4.2.0",
  "macos": "0.9.0"
}
}
},
">=": {

```

"doc": "Returns `true` if the first input is greater than or equal to the second, `false` otherwise. The arguments are required to be either both strings or both numbers; if during evaluation they are not, expression evaluation produces an error. Cases where this constraint is known not to hold at parse time are considered in valid and will produce a parse error. Accepts an optional `collator` argument to control locale-dependent string comparisons.",

```

"group": "Decision",
"sdk-support": {
  "basic functionality": {
    "js": "0.41.0",
    "android": "6.0.0",
    "ios": "4.0.0",
    "macos": "0.7.0"
  },
  "collator": {
    "js": "0.45.0",
    "android": "6.5.0",
    "ios": "4.2.0",
    "macos": "0.9.0"
  }
}
},
"<=": {

```

"doc": "Returns `true` if the first input is less than or equal to the second, `false` otherwise. The arguments are required to be either both strings or both numbers; if during evaluation they are not, expression evaluation produces an error. Cases where this constraint is known not to hold at parse time are considered in valid and will produce a parse error. Accepts an optional `collator` argument to control locale-dependent string comparisons.",

```

"group": "Decision",
"sdk-support": {
  "basic functionality": {
    "js": "0.41.0",
    "android": "6.0.0",
    "ios": "4.0.0",

```

```

    "macos": "0.7.0"
  },
  "collator": {
    "js": "0.45.0",
    "android": "6.5.0",
    "ios": "4.2.0",
    "macos": "0.9.0"
  }
},
"all": {
  "doc": "Returns `true` if all the inputs are `true`, `false` otherwise. The inputs are evaluated in order, and evaluation is short-circuiting: once an input expression evaluates to `false`, the result is `false` and no further input expressions are evaluated.",
  "group": "Decision",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"any": {
  "doc": "Returns `true` if any of the inputs are `true`, `false` otherwise. The inputs are evaluated in order, and evaluation is short-circuiting: once an input expression evaluates to `true`, the result is `true` and no further input expressions are evaluated.",
  "group": "Decision",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"!": {
  "doc": "Logical negation. Returns `true` if the input is `false`, and `false` if the input is `true`.",
  "group": "Decision",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
}

```

```

    }
  },
  "is-supported-script": {
    "doc": "Returns `true` if the input string is expected to render legibly. Returns `false` if the input string contains sections that cannot be rendered without potential loss of meaning (e.g. Indic scripts that require complex text shaping, or right-to-left scripts if the the `mapbox-gl-rtl-text` plugin is not in use in Mapbox GL JS).",
    "group": "String",
    "sdk-support": {
      "basic functionality": {
        "js": "0.45.0",
        "android": "6.6.0"
      }
    }
  },
  "upcase": {
    "doc": "Returns the input string converted to uppercase. Follows the Unicode Default Case Conversion algorithm and the locale-insensitive case mappings in the Unicode Character Database.",
    "group": "String",
    "sdk-support": {
      "basic functionality": {
        "js": "0.41.0",
        "android": "6.0.0",
        "ios": "4.0.0",
        "macos": "0.7.0"
      }
    }
  },
  "downcase": {
    "doc": "Returns the input string converted to lowercase. Follows the Unicode Default Case Conversion algorithm and the locale-insensitive case mappings in the Unicode Character Database.",
    "group": "String",
    "sdk-support": {
      "basic functionality": {
        "js": "0.41.0",
        "android": "6.0.0",
        "ios": "4.0.0",
        "macos": "0.7.0"
      }
    }
  },
  "concat": {
    "doc": "Returns a `string` consisting of the concatenation of the inputs. Each input is converted to a string as if by `to-string`.",
    "group": "String",
    "sdk-support": {
      "basic functionality": {
        "js": "0.41.0",
        "android": "6.0.0",

```

```

    "ios": "4.0.0",
    "macos": "0.7.0"
  }
}
},
"resolved-locale": {
  "doc": "Returns the IETF language tag of the locale being used by the provided `collator`. This can be used to
determine the default system locale, or to determine if a requested locale was successfully loaded.",
  "group": "String",
  "sdk-support": {
    "basic functionality": {
      "js": "0.45.0",
      "android": "6.5.0",
      "ios": "4.2.0",
      "macos": "0.9.0"
    }
  }
}
},
"light": {
  "anchor": {
    "type": "enum",
    "default": "viewport",
    "values": {
      "map": {
        "doc": "The position of the light source is aligned to the rotation of the map."
      },
      "viewport": {
        "doc": "The position of the light source is aligned to the rotation of the viewport."
      }
    },
    "property-type": "data-constant",
    "transition": false,
    "expression": {
      "interpolated": false,
      "parameters": [
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      ]
    },
    "doc": "Whether extruded geometries are lit relative to the map or viewport.",
    "example": "map",
    "sdk-support": {
      "basic functionality": {
        "js": "0.27.0",
        "android": "5.1.0",
        "ios": "3.6.0",
        "macos": "0.5.0"
      }
    }
  }
}

```

```

    }
  }
},
"position": {
  "type": "array",
  "default": [
    1.15,
    210,
    30
  ],
  "length": 3,
  "value": "number",
  "property-type": "data-constant",
  "transition": true,
  "expression": {
    "interpolated": true,
    "parameters": [
      "zoom"
    ]
  }
},

```

"doc": "Position of the light source relative to lit (extruded) geometries, in [r radial coordinate, a azimuthal angle, p polar angle] where r indicates the distance from the center of the base of an object to its light, a indicates the position of the light relative to 0 (0 when `light.anchor` is set to `viewport` corresponds to the top of the viewport, or 0

when `light.anchor` is set to `map` corresponds to due north, and degrees proceed clockwise), and p indicates the height of the light (from 0, directly above, to 180, directly below).",

```

  "example": [
    1.5,
    90,
    80
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.27.0",
      "android": "5.1.0",
      "ios": "3.6.0",
      "macos": "0.5.0"
    }
  }
},
"color": {
  "type": "color",
  "property-type": "data-constant",
  "default": "#ffffff",
  "expression": {
    "interpolated": true,
    "parameters": [
      "zoom"
    ]
  }
}

```

```

    ]
  },
  "transition": true,
  "doc": "Color tint for lighting extruded geometries.",
  "sdk-support": {
    "basic functionality": {
      "js": "0.27.0",
      "android": "5.1.0",
      "ios": "3.6.0",
      "macos": "0.5.0"
    }
  }
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"intensity": {
  "type": "number",
  "property-type":
"data-constant",
  "default": 0.5,
  "minimum": 0,
  "maximum": 1,
  "expression": {
    "interpolated": true,
    "parameters": [
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    ]
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},
"transition": true,
"doc": "Intensity of lighting (on a scale from 0 to 1). Higher numbers will present as more extreme contrast.",
"sdk-support": {
  "basic functionality": {
    "js": "0.27.0",
    "android": "5.1.0",
    "ios": "3.6.0",
    "macos": "0.5.0"
  }
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"paint": [
  "paint_fill",
  "paint_line",
  "paint_circle",
  "paint_heatmap",
  "paint_fill-extrusion",
  "paint_symbol",
  "paint_raster",
  "paint_hillshade",
  "paint_background"

```

```

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"paint_fill": {
  "fill-antialias": {
    "type": "boolean",
    "default": true,
    "doc": "Whether or not the fill should be antialiased.",
    "sdk-support": {
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        "js": "0.10.0",
        "android":
"2.0.1",
        "ios": "2.0.0",
        "macos": "0.1.0"
      }
    },
    "expression": {
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      "parameters": [
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      ]
    },
    "property-type": "data-constant"
  },
  "fill-opacity": {
    "type": "number",
    "default": 1,
    "minimum": 0,
    "maximum": 1,
    "doc": "The opacity of the entire fill layer. In contrast to the `fill-color`, this value will also affect the 1px stroke around the fill, if the stroke is used.",
    "transition": true,
    "sdk-support": {
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        "js": "0.10.0",
        "android": "2.0.1",
        "ios": "2.0.0",
        "macos": "0.1.0"
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      "data-driven styling": {
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        "android": "5.0.0",
        "ios": "3.5.0",
        "macos": "0.4.0"
      }
    },
    "expression": {
      "interpolated": true,
      "parameters": [

```

```

    "zoom",
    "feature",

    "feature-state"
  ]
},
"property-type": "data-driven"
},
"fill-color": {
  "type": "color",
  "default": "#000000",
  "doc": "The color of the filled part of this layer. This color can be specified as `rgba` with an alpha component and the color's opacity will not affect the opacity of the 1px stroke, if it is used.",
  "transition": true,
  "requires": [
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      "!": "fill-pattern"
    }
  ],
  "sdk-support": {
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      "ios": "2.0.0",
      "macos": "0.1.0"
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      "ios": "3.5.0",
      "macos": "0.4.0"
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    "parameters": [
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      "feature",
      "feature-state"
    ]
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  "property-type": "data-driven"
},
"fill-outline-color": {
  "type": "color",
  "doc": "The outline color of the fill. Matches the value of `fill-color` if unspecified.",
  "transition": true,
  "requires": [

```

```

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      "!": "fill-pattern"
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      "fill-antialias": true
    }
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      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
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      "android": "5.0.0",
      "ios": "3.5.0",
      "macos": "0.4.0"
    }
  },
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      "feature",
      "feature-state"
    ]
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  "property-type": "data-driven"
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"fill-translate": {
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  "value": "number",
  "length": 2,
  "default": [
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    0
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"units": "pixels",
"doc": "The geometry's offset. Values are [x, y] where negatives indicate left and up, respectively.",
"sdk-support": {
  "basic functionality": {
    "js": "0.10.0",
    "android": "2.0.1",
    "ios": "2.0.0",

```

```

    "macos": "0.1.0"
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},
"expression": {
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  "parameters": [
    "zoom"
  ]
},
"property-type": "data-constant"
},
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  "type": "enum",
  "values": {
    "map": {
      "doc": "The fill is translated relative to the map."
    },
    "viewport": {
      "doc": "The fill is translated relative to the viewport."
    }
  },
  "doc": "Controls the frame of reference for `fill-translate`.",
  "default": "map",
  "requires": [
    "fill-translate"
  ],
  "sdk-support": {
    "basic functionality": {
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      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    }
  },
  "expression": {
    "interpolated": false,
    "parameters": [
      "zoom"
    ]
  },
  "property-type": "data-constant"
},
"fill-pattern": {
  "type": "resolvedImage",
  "transition": true,
  "doc": "Name of image in sprite to use for drawing image fills. For seamless patterns, image width and height must be a factor of two (2, 4, 8, ..., 512). Note that zoom-dependent expressions will be evaluated only at integer zoom levels."
}

```

```

"sdk-support": {
  "basic functionality": {
    "js": "0.10.0",
    "android": "2.0.1",
    "ios": "2.0.0",
    "macos": "0.1.0"
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  "data-driven styling": {
    "js": "0.49.0",
    "android": "6.5.0",
    "macos": "0.11.0",
    "ios": "4.4.0"
  }
},
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  "parameters":
[
  "zoom",
  "feature"
]
},
"property-type": "cross-faded-data-driven"
}
},
"paint_fill-extrusion": {
  "fill-extrusion-opacity": {
    "type": "number",
    "default": 1,
    "minimum": 0,
    "maximum": 1,
    "doc": "The opacity of the entire fill extrusion layer. This is rendered on a per-layer, not per-feature, basis, and
data-driven styling is not available.",
    "transition": true,
    "sdk-support": {
      "basic functionality": {
        "js": "0.27.0",
        "android": "5.1.0",
        "ios": "3.6.0",
        "macos": "0.5.0"
      }
    },
    "expression": {
      "interpolated": true,
      "parameters": [
        "zoom"
      ]
    }
  },

```

```

    "property-type": "data-constant"
  },
  "fill-extrusion-color": {
    "type": "color",
    "default": "#000000",
    "doc": "The base color of the extruded fill. The extrusion's surfaces will be shaded differently based on this color
in
combination with the root `light` settings. If this color is specified as `rgba` with an alpha component, the alpha
component will be ignored; use `fill-extrusion-opacity` to set layer opacity.",
    "transition": true,
    "requires": [
      {
        "!": "fill-extrusion-pattern"
      }
    ],
    "sdk-support": {
      "basic functionality": {
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        "android": "5.1.0",
        "ios": "3.6.0",
        "macos": "0.5.0"
      },
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      }
    },
    "expression": {
      "interpolated": true,
      "parameters": [
        "zoom",
        "feature",
        "feature-state"
      ]
    },
    "property-type": "data-driven"
  },
  "fill-extrusion-translate": {
    "type": "array",
    "value": "number",
    "length": 2,
    "default": [
      0,
      0
    ]
  }

```

```

],
  "transition": true,
  "units": "pixels",
  "doc": "The geometry's offset. Values are [x, y] where negatives indicate left and up (on the flat plane),
respectively.",
  "sdk-support": {
    "basic functionality": {
      "js": "0.27.0",
      "android": "5.1.0",
      "ios": "3.6.0",
      "macos": "0.5.0"
    }
  },
  "expression": {
    "interpolated": true,
    "parameters": [
      "zoom"
    ]
  },
  "property-type": "data-constant"
},
"fill-extrusion-translate-anchor": {
  "type": "enum",
  "values": {
    "map": {
      "doc": "The fill extrusion is translated relative to the map."
    },
    "viewport": {
      "doc": "The fill extrusion is translated relative to the viewport."
    }
  },
  "doc": "Controls the frame of reference for `fill-extrusion-translate`.",
  "default": "map",
  "requires": [
    "fill-extrusion-translate"
  ]
},

```

```

"sdk-support": {
  "basic functionality": {
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    "android": "5.1.0",
    "ios": "3.6.0",
    "macos": "0.5.0"
  }
},
"expression": {
  "interpolated": false,
  "parameters": [

```

```

    "zoom"
  ]
},
"property-type": "data-constant"
},
"fill-extrusion-pattern": {
  "type": "resolvedImage",
  "transition": true,
  "doc": "Name of image in sprite to use for drawing images on extruded fills. For seamless patterns, image width and height must be a factor of two (2, 4, 8, ..., 512). Note that zoom-dependent expressions will be evaluated only at integer zoom levels.",
  "sdk-support": {
    "basic functionality": {
      "js": "0.27.0",
      "android": "5.1.0",
      "ios": "3.6.0",
      "macos": "0.5.0"
    },
    "data-driven styling": {
      "js": "0.49.0",
      "android": "6.5.0",
      "macos": "0.11.0",
      "ios": "4.4.0"
    }
  },
  "expression": {
    "interpolated": false,
    "parameters": [
      "zoom",
      "feature"
    ]
  },
  "property-type": "cross-faded-data-driven"
},
"fill-extrusion-height": {
  "type": "number",
  "default": 0,
  "minimum": 0,
  "units": "meters",
  "doc": "The height with which to extrude this layer.",
  "transition": true,
  "sdk-support": {
    "basic functionality": {
      "js": "0.27.0",
      "android": "5.1.0",
      "ios": "3.6.0",
      "macos": "0.5.0"
    },
  },

```

```

    "data-driven styling": {
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      "android": "5.1.0",
      "ios": "3.6.0",
      "macos": "0.5.0"
    }
  },
  "expression": {
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    "parameters": [
      "zoom",
      "feature",
      "feature-state"
    ]
  },
  "property-type": "data-driven"
},
"fill-extrusion-base": {
  "type":
"number",
  "default": 0,
  "minimum": 0,
  "units": "meters",
  "doc": "The height with which to extrude the base of this layer. Must be less than or equal to `fill-extrusion-
height`.",
  "transition": true,
  "requires": [
    "fill-extrusion-height"
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.27.0",
      "android": "5.1.0",
      "ios": "3.6.0",
      "macos": "0.5.0"
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    "data-driven styling": {
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      "android": "5.1.0",
      "ios": "3.6.0",
      "macos": "0.5.0"
    }
  },
  "expression": {
    "interpolated": true,
    "parameters": [
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      "feature",

```

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    "feature-state"
  ]
},
"property-type": "data-driven"
},
"fill-extrusion-vertical-gradient": {
  "type": "boolean",
  "default": true,
  "doc": "Whether to apply a vertical gradient to the sides of a fill-extrusion
layer. If true, sides will be shaded slightly darker farther down.",
  "transition": false,
  "sdk-support": {
    "basic functionality": {
      "js": "0.50.0",
      "ios": "4.7.0",
      "macos": "0.13.0"
    }
  },
  "expression": {
    "interpolated": false,
    "parameters": [
      "zoom"
    ]
  },
},
"property-type": "data-constant"
}
},
"paint_line": {
  "line-opacity": {
    "type": "number",
    "doc": "The opacity at which the line will be drawn.",
    "default": 1,
    "minimum": 0,
    "maximum": 1,
    "transition": true,
    "sdk-support": {
      "basic functionality": {
        "js": "0.10.0",
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        "android": "5.0.0",
        "ios": "3.5.0",
        "macos": "0.4.0"
      }
    }
  }
}

```

```

    },
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"interpolated": true,
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    "feature",
    "feature-state"
  ]
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    "type": "color",
    "doc": "The color with which the line will be drawn.",
    "default": "#000000",
    "transition": true,
    "requires": [
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        "!": "line-pattern"
      }
    ],
    "sdk-support": {
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        "android": "2.0.1",
        "ios": "2.0.0",
        "macos": "0.1.0"
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        "ios": "3.5.0",
        "macos": "0.4.0"
      }
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    "expression": {
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      "parameters": [
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        "feature",
        "feature-state"
      ]
    },
    "property-type": "data-driven"
  },
  "line-translate": {
    "type": "array",

```

```

"value": "number",
"length": 2,
"default": [
  0,
  0
],
"transition": true,
"units": "pixels",
"doc": "The geometry's offset. Values are [x, y] where negatives indicate left and up, respectively.",
"sdk-support": {
  "basic functionality": {
    "js": "0.10.0",
    "android": "2.0.1",
    "ios": "2.0.0",
    "macos": "0.1.0"
  }
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"expression": {
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  "parameters": [
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  ]
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"property-type": "data-constant"
},
"line-translate-anchor": {
  "type": "enum",
  "values": {
    "map": {
      "doc": "The line is translated relative to the map."
    },
    "viewport": {
      "doc": "The line is translated relative to the viewport."
    }
  },
  "doc": "Controls the frame of reference for `line-translate`.",
  "default": "map",
  "requires": [
    "line-translate"
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    }
  },
},

```

```

"expression": {
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  "parameters": [
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  ]
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},
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  "type": "number",
  "default": 1,
  "minimum": 0,
  "transition": true,
  "units": "pixels",
  "doc": "Stroke thickness.",
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    },
    "data-driven styling": {
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      "android": "5.2.0",
      "ios": "3.7.0",
      "macos": "0.6.0"
    }
  },
  "expression": {
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    "parameters": [
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      "feature",
      "feature-state"
    ]
  },
  "property-type": "data-driven"
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"line-gap-width": {
  "type": "number",
  "default": 0,
  "minimum": 0,
  "doc": "Draws a line casing outside of a line's actual path. Value indicates the width of the inner gap.",
  "transition": true,
  "units": "pixels",
  "sdk-support": {
    "basic functionality": {

```

```

    "js": "0.10.0",
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    "ios": "2.0.0",
    "macos": "0.1.0"
  },
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    "android": "5.0.0",
    "ios": "3.5.0",
    "macos": "0.4.0"
  }
},
"expression": {
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  "parameters": [
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    "feature",
    "feature-state"
  ]
},
"property-type": "data-driven"
},
"line-offset": {
  "type": "number",
  "default": 0,
  "doc": "The line's offset. For linear features, a positive value offsets
the line to the right, relative to the direction of the line, and a negative value to the left. For polygon features, a
positive value results in an inset, and a negative value results in an outset.",
  "transition": true,
  "units": "pixels",
  "sdk-support": {
    "basic functionality": {
      "js": "0.12.1",
      "android": "3.0.0",
      "ios": "3.1.0",
      "macos": "0.1.0"
    },
    "data-driven styling": {
      "js": "0.29.0",
      "android": "5.0.0",
      "ios": "3.5.0",
      "macos": "0.4.0"
    }
  }
},
"expression": {
  "interpolated": true,
  "parameters": [
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```

```

    "feature",
    "feature-state"
  ]
},
"property-type": "data-driven"
},
"line-blur": {
  "type": "number",
  "default": 0,
  "minimum": 0,
  "transition": true,
  "units": "pixels",
  "doc": "Blur applied to the line, in pixels.",
  "sdk-support":
{
  "basic functionality": {
    "js": "0.10.0",
    "android": "2.0.1",
    "ios": "2.0.0",
    "macos": "0.1.0"
  },
  "data-driven styling": {
    "js": "0.29.0",
    "android": "5.0.0",
    "ios": "3.5.0",
    "macos": "0.4.0"
  }
},
"expression": {
  "interpolated": true,
  "parameters": [
    "zoom",
    "feature",
    "feature-state"
  ]
},
"property-type": "data-driven"
},
"line-dasharray": {
  "type": "array",
  "value": "number",
  "doc": "Specifies the lengths of the alternating dashes and gaps that form the dash pattern. The lengths are later scaled by the line width. To convert a dash length to pixels, multiply the length by the current line width. Note that GeoJSON sources with `lineMetrics: true` specified won't render dashed lines to the expected scale. Also note that zoom-dependent expressions will be evaluated only at integer zoom levels.",
  "minimum": 0,
  "transition": true,

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"units": "line widths",
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  {
    "!": "line-pattern"
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"sdk-support": {
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    "macos": "0.1.0"
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  "data-driven styling": {}
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"expression": {
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  "parameters": [
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"property-type": "cross-faded"
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"line-pattern": {
  "type": "resolvedImage",
  "transition": true,
  "doc": "Name of image in sprite to use for drawing image lines. For seamless patterns, image width must be a
factor of two (2, 4, 8, ..., 512). Note that zoom-dependent expressions will be evaluated only at integer zoom
levels.",
  "sdk-support": {
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      "macos": "0.11.0",
      "ios": "4.4.0"
    }
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  "expression": {
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    "parameters": [
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```

    "feature"
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"property-type": "cross-faded-data-driven"
},
"line-gradient": {
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  "doc": "Defines a gradient with which to color a line feature. Can only be used with GeoJSON sources that
specify `\"lineMetrics\": true`.",
  "transition": false,
  "requires": [
    {
      "!": "line-dasharray"
    },
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      "!": "line-pattern"
    },
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      "source": "geojson",
      "has": {
        "lineMetrics": true
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    }
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    "parameters": [
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  "property-type": "color-ramp"
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"paint_circle": {
  "circle-radius": {
    "type": "number",
    "default": 5,
    "minimum": 0,
    "transition": true,

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"doc": "Circle radius.",
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    "macos": "0.1.0"
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    "android": "5.0.0",
    "ios": "3.5.0",
    "macos": "0.4.0"
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"expression": {
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    "feature",
    "feature-state"
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  "type": "color",
  "default": "#000000",
  "doc": "The fill color of the circle.",
  "transition": true,
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      "ios": "2.0.0",
      "macos": "0.1.0"
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      "macos": "0.4.0"
    }
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"expression": {
  "interpolated": true,

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    "parameters": [
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      "feature-state"
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  "property-type": "data-driven"
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  "type": "number",
  "default": 0,
  "doc": "Amount to blur the circle. 1 blurs the circle such that only the centerpoint is full opacity.",
  "transition": true,
  "sdk-support": {
    "basic functionality": {
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      "android": "2.0.1",
      "ios":
"2.0.0",
      "macos": "0.1.0"
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      "android": "5.0.0",
      "ios": "3.5.0",
      "macos": "0.4.0"
    }
  },
  "expression": {
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    "parameters": [
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      "feature",
      "feature-state"
    ]
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  "property-type": "data-driven"
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  "type": "number",
  "doc": "The opacity at which the circle will be drawn.",
  "default": 1,
  "minimum": 0,
  "maximum": 1,
  "transition": true,
  "sdk-support": {
    "basic functionality": {
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    "feature",
    "feature-state"
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  "type": "array",
  "value": "number",
  "length": 2,
  "default": [
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    0
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  "transition": true,
  "units": "pixels",
  "doc": "The geometry's offset. Values are [x, y] where negatives indicate left and up, respectively.",
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    }
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  "parameters": [
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"property-type": "data-constant"
},

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"circle-translate-anchor": {
  "type": "enum",
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    "map": {
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    },
    "viewport": {
      "doc":
"The circle is translated relative to the viewport."
    }
  },
  "doc": "Controls the frame of reference for `circle-translate`.",
  "default": "map",
  "requires": [
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  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    }
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    "parameters": [
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    ]
  },
  "property-type": "data-constant"
},
"circle-pitch-scale": {
  "type": "enum",
  "values": {
    "map": {
      "doc": "Circles are scaled according to their apparent distance to the camera."
    },
    "viewport": {
      "doc": "Circles are not scaled."
    }
  },
  "default": "map",
  "doc": "Controls the scaling behavior of the circle when the map is pitched.",
  "sdk-support": {
    "basic functionality":
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  "js": "0.21.0",

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    "android": "4.2.0",
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  "type": "enum",
  "values": {
    "map": {
      "doc": "The circle is aligned to the plane of the map."
    },
    "viewport": {
      "doc": "The circle is aligned to the plane of the viewport."
    }
  },
  "default": "viewport",
  "doc": "Orientation of circle when map is pitched.",
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      "macos": "0.6.0"
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    "parameters": [
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  "default": 0,
  "minimum": 0,
  "transition": true,
  "units": "pixels",
  "doc": "The width of the circle's stroke. Strokes are placed outside of the `circle-radius`.",

```

```

"sdk-support": {
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    "android": "5.0.0",
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    "macos": "0.4.0"
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    "android": "5.0.0",
    "ios": "3.5.0",
    "macos": "0.4.0"
  }
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"expression": {
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  "parameters": [
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    "feature",
    "feature-state"
  ]
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"property-type": "data-driven"
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"circle-stroke-color": {
  "type": "color",
  "default": "#000000",
  "doc": "The stroke color of the circle.",
  "transition": true,
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    "basic functionality": {

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      "android": "5.0.0",
      "ios": "3.5.0",
      "macos": "0.4.0"
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    "data-driven styling": {
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      "ios": "3.5.0",
      "macos": "0.4.0"
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```

```

    "feature",
    "feature-state"
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"property-type": "data-driven"
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  "doc": "The opacity of the circle's stroke.",
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  "minimum": 0,
  "maximum": 1,
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"property-type": "data-driven"
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  "heatmap-radius": {
    "type": "number",
    "default": 30,
    "minimum": 1,
    "transition": true,
    "units": "pixels",
    "doc": "Radius of influence of one heatmap point in pixels. Increasing the value makes the heatmap smoother, but less detailed.",

```

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    "macos": "0.7.0"
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  "data-driven styling": {
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    "android": "6.0.0",
    "ios": "4.0.0",
    "macos": "0.7.0"
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    "feature",
    "feature-state"
  ]
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"property-type": "data-driven"
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"heatmap-weight": {
  "type": "number",
  "default": 1,
  "minimum": 0,
  "transition": false,
  "doc": "A measure of how much an individual point contributes to the heatmap. A value of 10 would be equivalent to having 10 points of weight 1 in the same spot. Especially useful when combined with clustering.",
  "sdk-support": {
    "basic functionality": {
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      "macos": "0.7.0"
    }
  }
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"expression": {
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```

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      "feature-state"
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  "property-type": "data-driven"
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  "default":
1,
  "minimum": 0,
  "transition": true,
  "doc": "Similar to `heatmap-weight` but controls the intensity of the heatmap globally. Primarily used for
adjusting the heatmap based on zoom level.",
  "sdk-support": {
    "basic functionality": {
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      "android": "6.0.0",
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      "macos": "0.7.0"
    }
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  "expression": {
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    "parameters": [
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    ]
  },
  "property-type": "data-constant"
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  "type": "color",
  "default": [
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    [
      "linear"
    ],
    [
      "heatmap-density"
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    0,
    "rgba(0, 0, 255, 0)",
    0.1,
    "royalblue",
    0.3,
    "cyan",

```

```

    0.5,
    "lime",
    0.7,
    "yellow",
    1,
    "red"
  ],
  "doc": "Defines the color of each pixel based on its density value in
a heatmap. Should be an expression that uses `[\"heatmap-density\"]` as input.",
  "transition": false,
  "sdk-support": {
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      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
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    "data-driven styling": {}
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  "expression": {
    "interpolated": true,
    "parameters": [
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  "property-type": "color-ramp"
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"heatmap-opacity": {
  "type": "number",
  "doc": "The global opacity at which the heatmap layer will be drawn.",
  "default": 1,
  "minimum": 0,
  "maximum": 1,
  "transition": true,
  "sdk-support": {
    "basic functionality": {
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      "macos": "0.7.0"
    }
  },
  "expression": {
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    "parameters": [
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    ]
  }
}

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```

},
  "property-type": "data-constant"
}
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"paint_symbol": {
  "icon-opacity": {
    "doc": "The opacity at which the icon will be drawn.",
    "type": "number",
    "default": 1,
    "minimum": 0,
    "maximum": 1,
    "transition": true,
    "requires": [
      "icon-image"
    ],
  },
  "sdk-support": {
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      "macos": "0.1.0"
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      "macos": "0.4.0"
    }
  },
  "expression": {
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    "parameters": [
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      "feature",
      "feature-state"
    ]
  },
  "property-type": "data-driven"
},
"icon-color": {
  "type": "color",
  "default": "#000000",
  "transition": true,
  "doc": "The color of the icon. This can
only be used with sdf icons.",
  "requires": [
    "icon-image"
  ],
}

```

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"sdk-support": {
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    "android": "5.0.0",
    "ios": "3.5.0",
    "macos": "0.4.0"
  }
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"expression": {
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  "parameters": [
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    "feature",
    "feature-state"
  ]
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"property-type": "data-driven"
},
"icon-halo-color": {
  "type": "color",
  "default": "rgba(0, 0, 0, 0)",
  "transition": true,
  "doc": "The color of the icon's halo. Icon halos can only be used with SDF icons.",
  "requires": [
    "icon-image"
  ]
},
"sdk-support": {
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    "macos": "0.4.0"
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"expression": {

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```

    "interpolated": true,
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      "feature",
      "feature-state"
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"icon-halo-width": {
  "type": "number",
  "default": 0,
  "minimum": 0,
  "transition": true,
  "units": "pixels",
  "doc": "Distance of halo to the icon outline.",
  "requires": [
    "icon-image"
  ],
  "sdk-support": {
    "basic functionality": {
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      "macos": "0.1.0"
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      "ios": "3.5.0",
      "macos": "0.4.0"
    }
  }
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  "parameters": [
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    "feature",
    "feature-state"
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"property-type": "data-driven"
},
"icon-halo-blur": {
  "type": "number",
  "default": 0,
  "minimum": 0,

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"transition": true,
"units": "pixels",
"doc": "Fade out the halo towards the outside.",
"requires": [
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],
"sdk-support": {
  "basic functionality": {
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    "android": "5.0.0",
    "ios": "3.5.0",
    "macos": "0.4.0"
  }
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"expression": {
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  "parameters": [
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    "feature",
    "feature-state"
  ]
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"property-type": "data-driven"
},
"icon-translate":
{
  "type": "array",
  "value": "number",
  "length": 2,
  "default": [
    0,
    0
  ],
  "transition": true,
  "units": "pixels",
  "doc": "Distance that the icon's anchor is moved from its original placement. Positive values indicate right and
down, while negative values indicate left and up.",
  "requires": [
    "icon-image"
  ],
  "sdk-support": {
    "basic functionality": {

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```

    "js": "0.10.0",
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  "parameters": [
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  ]
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"property-type": "data-constant"
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  "values": {
    "map": {
      "doc": "Icons are translated relative to the map."
    },
    "viewport": {
      "doc": "Icons are translated relative to the viewport."
    }
  }
},
"doc": "Controls the frame of reference for `icon-translate`.",
"default": "map",
"requires": [
  "icon-image",
  "icon-translate"
],
"sdk-support": {
  "basic functionality": {
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    "android": "2.0.1",
    "ios": "2.0.0",
    "macos": "0.1.0"
  }
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"expression": {
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  ]
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"property-type": "data-constant"
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"text-opacity": {

```

```

"type": "number",
"doc": "The opacity at which the text will be drawn.",
"default": 1,
"minimum": 0,
"maximum": 1,
"transition": true,
"requires": [
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],
"sdk-support": {
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    "android": "2.0.1",
    "ios": "2.0.0",
    "macos": "0.1.0"
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    "android": "5.0.0",
    "ios": "3.5.0",
    "macos": "0.4.0"
  }
},
"expression": {
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    "feature",
    "feature-state"
  ]
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"property-type": "data-driven"
},
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  "doc": "The color with which the text will be drawn.",
  "default": "#000000",
  "transition": true,
  "overridable": true,
  "requires": [
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  ],
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    "basic functionality": {
      "js": "0.10.0",
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```

    "macos": "0.1.0"
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    "ios": "3.5.0",
    "macos": "0.4.0"
  }
},
"expression": {
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  "parameters": [
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    "feature",
    "feature-state"
  ]
},
"property-type": "data-driven"
},
"text-halo-color": {
  "type": "color",
  "default": "rgba(0, 0, 0, 0)",
  "transition": true,
  "doc": "The color of the text's halo, which helps it stand out from backgrounds.",
  "requires": [
    "text-field"
  ],
  "sdk-support": {
    "basic functionality": {
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      "android": "2.0.1",
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      "macos": "0.1.0"
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    }
  },
  "expression": {
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    "parameters": [
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      "feature",
      "feature-state"
    ]
  ]
}

```

```

    },
    "property-type": "data-driven"
  },
  "text-halo-width": {
    "type": "number",
    "default": 0,
    "minimum": 0,
    "transition": true,
    "units": "pixels",
    "doc": "Distance of halo to the font outline. Max text halo width is 1/4 of the font-size.",
    "requires": [
      "text-field"
    ],
    "sdk-support": {
      "basic functionality": {
        "js": "0.10.0",
        "android": "2.0.1",
        "ios": "2.0.0",
        "macos": "0.1.0"
      },
      "data-driven styling": {
        "js": "0.33.0",
        "android": "5.0.0",
        "ios": "3.5.0",
        "macos": "0.4.0"
      }
    },
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        "zoom",
        "feature",
        "feature-state"
      ]
    },
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    "default": 0,
    "minimum": 0,
    "transition": true,
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    "doc": "The halo's fadeout distance towards the outside.",
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    ],
    "sdk-support": {

```

```

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{
  "js": "0.10.0",
  "android": "2.0.1",
  "ios": "2.0.0",
  "macos": "0.1.0"
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"data-driven styling": {
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  "android": "5.0.0",
  "ios": "3.5.0",
  "macos": "0.4.0"
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},
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    "feature",
    "feature-state"
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  "length": 2,
  "default": [
    0,
    0
  ],
  "transition": true,
  "units": "pixels",
  "doc": "Distance that the text's anchor is moved from its original placement. Positive values indicate right and
down, while negative values indicate left and up.",
  "requires": [
    "text-field"
  ],
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      "js": "0.10.0",
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      "ios": "2.0.0",
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    }
  },
},

```

```

"expression": {
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    "viewport": {
      "doc": "The text is translated relative to the viewport."
    }
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  "doc": "Controls the frame of reference for `text-translate`.",
  "default": "map",
  "requires": [
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    "text-translate"
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      "ios": "2.0.0",
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},
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    "doc": "The opacity at which the image will be drawn.",
    "default": 1,
    "minimum": 0,

```

```

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},
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},
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  "period": 360,
  "transition": true,
  "units": "degrees",
  "doc": "Rotates hues around the color wheel.",
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      "ios": "2.0.0",
      "macos": "0.1.0"
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  "doc": "Increase or reduce the brightness of the image. The value is the minimum brightness.",
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  "minimum": 0,
  "maximum": 1,

```

```

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},
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  "type": "number",
  "doc": "Increase or reduce the brightness of the image. The value is the maximum brightness.",
  "default": 1,
  "minimum": 0,
  "maximum": 1,
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  "default": 0,
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  "maximum": 1,
  "transition": true,

```

```

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  "default": 0,
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"maximum": 1,
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  }
},
"expression": {
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  "parameters": [
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"property-type": "data-constant"
},
"raster-resampling": {
  "type": "enum",
  "doc": "The resampling/interpolation method to use for overscaling, also known as texture magnification filter",
  "values": {
    "linear": {
      "doc": "(Bi)linear filtering interpolates pixel values using the weighted average of the four closest original
source pixels creating a smooth but blurry look when overscaled"
    }
  },

```

```

    "nearest": {
      "doc": "Nearest neighbor filtering interpolates pixel values using the nearest original source pixel creating a sharp but pixelated look when overscaled"
    }
  },
  "default":
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  "sdk-support": {
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      "macos": "0.9.0"
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"raster-fade-duration": {
  "type": "number",
  "default": 300,
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  "transition": false,
  "units": "milliseconds",
  "doc": "Fade duration when a new tile is added.",
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    }
  },
  "expression": {
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    "parameters": [
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    ]
  },
  "property-type": "data-constant"
}
},
"paint_hillshade": {

```

```

"hillshade-illumination-direction": {
  "type": "number",
  "default": 335,
  "minimum": 0,
  "maximum": 359,
  "doc": "The direction of the light source used to generate the hillshading with 0 as the top of the viewport if
`hillshade-illumination-anchor` is set to `viewport` and due north if `hillshade-illumination-anchor` is set to `map`.",
  "transition": false,
  "sdk-support": {
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      "js": "0.43.0",
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      "ios": "4.0.0",
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  },
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  "type": "enum",
  "values": {
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      "doc": "The hillshade illumination is relative to the north direction."
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    "viewport": {
      "doc": "The hillshade illumination is relative to the top of the viewport."
    }
  },
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```

```

    "zoom"
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"hillshade-exaggeration": {
  "type": "number",
  "doc": "Intensity of the hillshade",
  "default": 0.5,
  "minimum": 0,
  "maximum": 1,
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    }
  },
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  },
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},
"hillshade-shadow-color": {
  "type":
"color",
  "default": "#000000",
  "doc": "The shading color of areas that face away from the light source.",
  "transition": true,
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    "basic functionality": {
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      "ios": "4.0.0",
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    }
  },
  "expression": {
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    ]
  },
},

```

```

    "property-type": "data-constant"
  },
  "hillshade-highlight-color": {
    "type": "color",
    "default": "#FFFFFF",
    "doc": "The shading color of areas that faces towards the light source.",
    "transition": true,
    "sdk-support": {
      "basic functionality": {
        "js": "0.43.0",
        "android": "6.0.0",
        "ios": "4.0.0",
        "macos": "0.7.0"
      }
    },
    "expression": {
      "interpolated": true,
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      ]
    },
    "property-type": "data-constant"
  },
  "hillshade-accent-color": {
    "type": "color",
    "default": "#000000",
    "doc": "The shading color used to accentuate rugged terrain like sharp cliffs and gorges.",
    "transition": true,
    "sdk-support": {
      "basic functionality": {
        "js": "0.43.0",
        "android": "6.0.0",
        "ios": "4.0.0",
        "macos": "0.7.0"
      }
    },
    "expression": {
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      "parameters": [
        "zoom"
      ]
    },
    "property-type": "data-constant"
  },
  "paint_background": {
    "background-color": {

```

```

"type": "color",
"default": "#000000",
"doc": "The color with which the background will be drawn.",
"transition": true,
"requires": [
  {
    "!": "background-pattern"
  }
],
"sdk-support": {
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    "ios": "2.0.0",

    "macos": "0.1.0"
  }
},
"expression": {
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  "parameters": [
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  ]
},
"property-type": "data-constant"
},
"background-pattern": {
  "type": "resolvedImage",
  "transition": true,
  "doc": "Name of image in sprite to use for drawing an image background. For seamless patterns, image width
and height must be a factor of two (2, 4, 8, ..., 512). Note that zoom-dependent expressions will be evaluated only at
integer zoom levels.",
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    },
    "data-driven styling": {}
  },
  "expression": {
    "interpolated": false,
    "parameters": [
      "zoom"
    ]
  },
  "property-type": "cross-faded"

```

```

    },
    "background-opacity": {
      "type": "number",
      "default": 1,
      "minimum":
0,
      "maximum": 1,
      "doc": "The opacity at which the background will be drawn.",
      "transition": true,
      "sdk-support": {
        "basic functionality": {
          "js": "0.10.0",
          "android": "2.0.1",
          "ios": "2.0.0",
          "macos": "0.1.0"
        }
      },
      "expression": {
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        "parameters": [
          "zoom"
        ]
      },
      "property-type": "data-constant"
    }
  },
  "transition": {
    "duration": {
      "type": "number",
      "default": 300,
      "minimum": 0,
      "units": "milliseconds",
      "doc": "Time allotted for transitions to complete."
    },
    "delay": {
      "type": "number",
      "default": 0,
      "minimum": 0,
      "units": "milliseconds",
      "doc": "Length of time before a transition begins."
    }
  },
  "property-type": {
    "data-driven": {
      "type": "property-type",
      "doc": "Property is interpolable and can be represented using a property expression."
    },
    "cross-faded": {

```

```

    "type": "property-type",
    "doc": "Property is non-interpolable; rather, its values will be cross-faded to smoothly transition between integer zooms."
  },
  "cross-faded-data-driven": {
    "type": "property-type",
    "doc": "Property is non-interpolable; rather, its values will be cross-faded to smoothly transition between integer zooms. It can be represented using a property expression."
  },
  "color-ramp": {
    "type": "property-type",
    "doc": "Property should be specified using a color ramp from which the output color can be sampled based on a property calculation."
  },
  "data-constant": {
    "type": "property-type",
    "doc": "Property is interpolable but cannot be represented using a property expression."
  },
  "constant": {
    "type": "property-type",
    "doc": "Property is constant across all zoom levels and property values."
  }
},
"promoteId": {
  "*": {
    "type": "string",
    "doc": "A name of a feature property to use as ID for feature state."
  }
}
}
}

```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1050648890\_1591796810.08/0/mapbox-mapbox-gl-style-spec-13-12-0-tgz/package/reference/v8.json

No license file was found, but licenses were detected in source scan.

## 13.12.0

\* Update `image` expression SDK support table ([#9228](https://github.com/mapbox/mapbox-gl-js/pull/9228))  
 \* Fix `promoteId` for line layers ([#9210](https://github.com/mapbox/mapbox-gl-js/pull/9210),  
 [#9212](https://github.com/mapbox/mapbox-gl-js/pull/9212))

## 13.11.0

### Features and improvements

\* Add `promoteId` option to use a feature property as ID for feature state  
 ([#8987](https://github.com/mapbox/mapbox-gl-js/pull/8987))  
 \* Update `symbol-avoid-edges` documentation regarding global collision detection

([#9157](https://github.com/mapbox/mapbox-gl-js/pull/9157))

\* Remove reference to `in` function which has been replaced by the `in` expression

([#9102](https://github.com/mapbox/mapbox-gl-js/pull/9102))

### Bug fixes

\* Fix bug where `symbol-sort-key` was not used for collisions that crossed tile boundaries

([#9054](https://github.com/mapbox/mapbox-gl-js/pull/9054))

## 13.10.2

### Bug fixes

\*

Fix style validation error messages not being displayed ([#9073](https://github.com/mapbox/mapbox-gl-js/pull/9073))

## 13.10.0

### Features and improvements

\* Add ability to insert images into text labels using an `image` expression within a `format` expression: `"text-field": ["format", "Some text", ["image", "my-image"], "some more text"]` ([#8904](https://github.com/mapbox/mapbox-gl-js/pull/8904))

\* Add `in` expression. It can check if a value is in an array (`["in", value, array]`) or a substring is in a string (`["in", substring, string]`) ([#8876](https://github.com/mapbox/mapbox-gl-js/pull/8876))

\* Add support for stretchable images (aka nine-part or nine-patch images). Stretchable images can be used with `icon-text-fit` to draw resized images with unstretched corners and borders.

([#8997](https://github.com/mapbox/mapbox-gl-js/pull/8997))

\* Add an es modules build of for `mapbox-gl-style-spec` in `dist/` ([#8247](https://github.com/mapbox/mapbox-gl-js/pull/8247)) (h/t [ahocevar](https://github.com/ahocevar))

##

13.9.1

### Improvement

\* Rename `Image` type to `ResolvedImage`, to better represent the result of an `image` expression evaluation.

([#8901](https://github.com/mapbox/mapbox-gl-js/pull/8901))

## 13.9.0

\* Add `image` expression operator to determine image availability ([#8684](https://github.com/mapbox/mapbox-gl-js/pull/8684))

\* Add a `style-spec` function to validate that styles are compatible with the Mapbox API

([#8663](https://github.com/mapbox/mapbox-gl-js/pull/8663))

## 13.8.0

- Introduce `text-writing-mode` symbol layer property to allow placing point labels vertically.

([#8399](https://github.com/mapbox/mapbox-gl-js/pull/8399))

- Allow `text-color` to be used in formatted expressions to be able to draw different parts of a label in different

colors. [#8068](https://github.com/mapbox/mapbox-gl-js/pull/8068)

- Improve conversion of legacy filters with duplicate values. [#8542](https://github.com/mapbox/mapbox-gl-js/pull/8542)

## 13.7.2

###

Bug fixes

- \* Fix SDK support spec section for variable label placement ([#8384](https://github.com/mapbox/mapbox-gl-js/pull/8384)) (h/t [ @pozdnyakov](https://github.com/pozdnyakov))

### Features and improvements

- \* Add SDK support spec section for text-radial-offset ([#8401](https://github.com/mapbox/mapbox-gl-js/pull/8401))

- \* Add `*-sort-key`` layout property for circle, fill, line ([#8467](https://github.com/mapbox/mapbox-gl-js/pull/8467))

- \* Expose `convertFilter` API in the style specification ([#8493](https://github.com/mapbox/mapbox-gl-js/pull/8493))

## 13.7.1

### Bug fixes

- \* Fix format expression options validation ([#8339](https://github.com/mapbox/mapbox-gl-js/pull/8339))

- \* Fix SDK support information for style properties added in v13.7.0: ([#8384](https://github.com/mapbox/mapbox-gl-js/pull/8384))

- \* Add missing SDK support section for `text-radial-offset`` property

- \* Assign SDK versions for `text-variable-anchor`` and `text-justify: auto``

## 13.7.0

###

Features and improvements

- \* Add `text-radial-offset`` style property ([#7596](https://github.com/mapbox/mapbox-gl-js/pull/7596))

- \* Add `text-variable-anchor`` style property ([#7596](https://github.com/mapbox/mapbox-gl-js/pull/7596))

- \* Add `auto`` value to `text-justify`` style property ([#7596](https://github.com/mapbox/mapbox-gl-js/pull/7596))

## 13.6.0

### Features and improvements

- \* Add `clusterProperties`` option for aggregated cluster properties ([#2412](https://github.com/mapbox/mapbox-gl-js/issues/2412), fixed by [#7584](https://github.com/mapbox/mapbox-gl-js/pull/7584))

- \* Add `number-format`` expression ([#7626](https://github.com/mapbox/mapbox-gl-js/pull/7626))

- \* Add `symbol-sort-key`` style property ([#7678](https://github.com/mapbox/mapbox-gl-js/pull/7678))

## 13.5.0

### Features and improvements

- \* Flattens `all`` expressions in converted filters ([#7679](https://github.com/mapbox/mapbox-gl-js/pull/7679))

- \* Compatibility tables are updated ([#7574](https://github.com/mapbox/mapbox-gl-js/pull/7574))

##

13.4.0

### Features and improvements

\* \*\*Tighten style validation\*\*

\* Disallow expressions as stop values ([#7396](https://github.com/mapbox/mapbox-gl-js/pull/7396))

\* Disallow `feature-state` expressions in filters ([#7366](https://github.com/mapbox/mapbox-gl-js/pull/7366))

## 13.3.0

### Bug fixes

\* \*\*Expressions\*\*

\* Fix `let` expression stripping expected type during parsing ([#7300](https://github.com/mapbox/mapbox-gl-js/issues/7300)), fixed by [#7301](https://github.com/mapbox/mapbox-gl-js/pull/7301))

\* Fix superfluous wrapping of literals in `literal` expression ([#7336](https://github.com/mapbox/mapbox-gl-js/issues/7336)), fixed by [#7337](https://github.com/mapbox/mapbox-gl-js/pull/7337))

\* Allow calling `to-color` on values that are already of type `Color` ([#7260](https://github.com/mapbox/mapbox-gl-js/pull/7260))

\* Fix `to-array` for empty arrays ([#7261](https://github.com/mapbox/mapbox-gl-js/pull/7261))

\* Fix identity

functions for `text-field` when using formatted text ([#7351](https://github.com/mapbox/mapbox-gl-js/pull/7351))

\* Fix coercion of `null` to `0` in `to-number` expression ([#7083](https://github.com/mapbox/mapbox-gl-js/issues/7083)), fixed by [#7274](https://github.com/mapbox/mapbox-gl-js/pull/7274))

### Features and improvements

\* Add `fill-extrusion-vertical-gradient` property for controlling shading of fill extrusions ([#5768](https://github.com/mapbox/mapbox-gl-js/issues/5768)), fixed by [#6841](https://github.com/mapbox/mapbox-gl-js/pull/6841))

## 13.2.0

### Bug fixes

\* Update the style-spec's old `gl-style-migrate` script to include conversion of legacy functions and filters to their expression equivalents ([#6927](https://github.com/mapbox/mapbox-gl-js/issues/6927)), fixed by [#7095](https://github.com/mapbox/mapbox-gl-js/pull/7095))

### Features and improvements

\* Add `symbol-z-order` symbol layout property to style spec ([#7219](https://github.com/mapbox/mapbox-gl-js/pull/7219))

\*

Implement data-driven styling support for `\*-pattern` properties ([#6289](https://github.com/mapbox/mapbox-gl-js/pull/6289))

## 13.1.1

### Bug fixes

\* Fix broken module import in mapboxgl-style-spec (v13.0.1) ([#6984](https://github.com/mapbox/mapbox-gl-js/issues/6984)), fixed by [#6997](https://api.github.com/repos/mapbox/mapbox-gl-js/pulls/6997))

### ### Features and improvements

- \* Improve formatting for style output ([#7029](https://github.com/mapbox/mapbox-gl-js/pull/7029))

## ## 13.1.0

### ### Features and improvements

- \* Add `raster-resampling` raster paint property ([#6411](https://github.com/mapbox/mapbox-gl-js/pull/6411)) (h/t [andrewharvey](https://github.com/andrewharvey))
- \* Add `symbol-placement: line-center` ([#6821](https://github.com/mapbox/mapbox-gl-js/pull/6821))

## ## 13.0.1

### ### Breaking changes

- \* Align implicit type behavior of `match` expressions with with `case/===` ([#6684](https://github.com/mapbox/mapbox-gl-js/pull/6684))
- \* Update spec so that documentation can automatically capture which functions and expressions can be used with which properties ([#6521](https://github.com/mapbox/mapbox-gl-js/pull/6521))

### ### Features and improvements

- \* Add `feature-state` [#6263](https://github.com/mapbox/mapbox-gl-js/pull/6263)
- \* Add support for GeoJSON attribution ([#6364](https://github.com/mapbox/mapbox-gl-js/pull/6364)) (h/t [andrewharvey](https://github.com/andrewharvey))
- \* Upgrade to Flow 0.69 ([#6594](https://github.com/mapbox/mapbox-gl-js/pull/6594))

### ### Bug fixes

- \* Use named exports for style-spec entrypoint module ([#6601](https://github.com/mapbox/mapbox-gl-js/issues/6601))

## ## 13.0.0

Malformed package published to NPM.

## ## 12.0.0

### ### Breaking changes

- \* The `to-string` expression operator now converts null to an empty string rather than to `null`. ([#6534](https://github.com/mapbox/mapbox-gl-js/pull/6534))

### ### Features and improvements

- \* Add line-gradient property [#6303](https://github.com/mapbox/mapbox-gl-js/pull/6303)
- \* Add collator expression for controlling case and diacritic sensitivity in string comparisons [#6270](https://github.com/mapbox/mapbox-gl-js/pull/6270)
- \* Add `is-supported-script` expression for determining if a script is supported. [#6260](https://github.com/mapbox/mapbox-gl-js/pull/6260)
- \* Add `collator` expression for controlling case and diacritic sensitivity in string comparisons [#6270](https://github.com/mapbox/mapbox-gl-js/pull/6270)

- \* Add `abs`, `round`, `floor`, and `ceil` expression operators [#6496](https://github.com/mapbox/mapbox-gl-js/pull/6496)
- \* Add support for Mapzen Terrarium tiles in raster-dem sources [#6110](https://github.com/mapbox/mapbox-gl-js/pull/6110)

### ### Bug fixes

- Fix Rollup build [6575](https://github.com/mapbox/mapbox-gl-js/pull/6575)

## ## 11.1.1

### ### Bug fixes

- \* Update SDK support information for `text-font`, and `heatmap-color`, and `hillshade` layer properties.

## ## 11.1.0

### ### Features and improvements

- \* Avoid use of `new`  
Function for filters by converting old-style filters to expressions [#5665](https://github.com/mapbox/mapbox-gl-js/pull/5665).

## ## 11.0.0

### ### Breaking changes

- \* Remove constants validating code [#5885](https://github.com/mapbox/mapbox-gl-js/pull/5885)
- \* `"colorSpace": "hcl"` now uses shortest-path interpolation for hue [#5811](https://github.com/mapbox/mapbox-gl-js/issues/5811)

### ### Features and improvements

- \* Introduce client-side hillshading with `raster-dem` source type and `hillshade` layer type [#5286](https://github.com/mapbox/mapbox-gl-js/pull/5286)
- \* Add Color#toString and expose Color publicly [#5866](https://github.com/mapbox/mapbox-gl-js/pull/5866)
- \* Improve typing for `===` and `!==` expressions [#5840](https://github.com/mapbox/mapbox-gl-js/pull/5840)
- \* Made `coalesce` expressions more useful [#5755](https://github.com/mapbox/mapbox-gl-js/issues/5755)
- \* Enable implicit type assertions for array types [#5738](https://github.com/mapbox/mapbox-gl-js/pull/5738)

### ### Bug fixes

- \* Fix standalone browser build [#5736](https://github.com/mapbox/mapbox-gl-js/pull/5736), [#5906](https://github.com/mapbox/mapbox-gl-js/pull/5906)
- \* Handle NaN as input to step and interpolate expressions [#5757](https://github.com/mapbox/mapbox-gl-js/pull/5757)
- \* Fix style diffing for changes to GeoJSON sources [#5745](https://github.com/mapbox/mapbox-gl-js/pull/5745)
- \* Mark layer "type" property as required [#5849](https://github.com/mapbox/mapbox-gl-js/pull/5849)

## ## 10.1.0

- \* Remove support for validating and migrating v6 styles [#5604](https://github.com/mapbox/mapbox-gl-js/pull/5604)
- \* Remove support for validating v7 styles [#5604](https://github.com/mapbox/mapbox-gl-js/pull/5604)
- \* Remove spaces after commas in `to-string` representation of colors [#5480](https://github.com/mapbox/mapbox-gl-js/pull/5480)
- \* Fix bugs preventing `mapbox-gl-style-spec` package on NPM from being used externally [#5502](https://github.com/mapbox/mapbox-gl-js/pull/5502)
- \* Fix flow-typed interface generator [#5478](https://github.com/mapbox/mapbox-gl-js/pull/5478)
- \* Export `function` [#5584](https://github.com/mapbox/mapbox-gl-js/pull/5584)
- \* Export `StylePropertySpecification` type [#5593](https://github.com/mapbox/mapbox-gl-js/pull/5593)
- \* Split the `source\_tile` entry in the JSON schema into `source\_vector` and `source\_raster` [#5604](https://github.com/mapbox/mapbox-gl-js/pull/5604)

### ### Validation Changes

- \* Require that `heatmap-color` use expressions instead of stop functions [#5624](https://github.com/mapbox/mapbox-gl-js/issues/5624)
- \* Remove support for including `{tokens}` in expressions for `text-field` and `icon-image` [#5599](https://github.com/mapbox/mapbox-gl-js/issues/5599)
- \* Disallow interpolation in expressions for `line-dasharray` [#5519](https://github.com/mapbox/mapbox-gl-js/pull/5519)
- \* Validate that zoom expressions only appear at the top level of an expression [#5609](https://github.com/mapbox/mapbox-gl-js/issues/5609)
- \* Validate that `step` and `interpolate` expressions don't have any duplicate stops [#5605](https://github.com/mapbox/mapbox-gl-js/issues/5605)
- \* Split `curve` expression into `step` and `interpolate` expressions [#5542](https://github.com/mapbox/mapbox-gl-js/pull/5542)
- \* Validate expression values for enum-typed properties [#5589](https://github.com/mapbox/mapbox-gl-js/pull/5589)
- \* Improve validation to catch uses of deprecated function syntax [#5667](https://github.com/mapbox/mapbox-gl-js/pull/5667)

## ## 10.0.1

- \* Fix bug preventing @mapbox/mapbox-gl-style-spec package from being usable outside of mapbox-gl-js (#5502)

## ## 10.0.0

- \* Add expression and heatmap layer support. See Mapbox GL JS v0.40.1 changelog entry for details.

## ## 9.0.1

- \* Remove `fast-stable-stringify` dependency (#5152)

## ## 9.0.0

- \* Fix validation error on categorical zoom-and-property functions (#4220)
- \* Relax requirement that styles using "icon-image" must have a "sprite"
- \* Prevent infinite loop in binarySearchForIndex when duplicate stops are present. (#4503)
- \* Ensure generated composite function stops are in the correct order (#4509)
- \* Update SDK support matrices to be current as of GL JS v0.35.1, iOS SDK v3.5.0, Android SDK 5.0.0
- \* Remove support for implicitly-categorical functions
- \* **BREAKING CHANGE:** the API for the `function`` module has changed. The `interpolated`` and `piecewise-constant`` exports were replaced with a single unnamed export, a function which accepts an object conforming to the style spec "function" definition, and an object defining a style spec property. It handles color parsing and validation of feature values internally.
- \* Functions now support a "default" property.
- \* `parseColor`` was promoted from `gl-js`.

## ## 8.11.0

- \* Merge `feature-filter`` repository into this repository #639

## ## 8.10.0

v8.0.0 styles are fully compatible with v8.10.0.

### ### Style Specification Changes

- \* Added `colorSpace`` option to functions
- \* Added `fill-extrusion`` layer type
- \* Add top-level `light`` property
- \* Remove increase maximum `maxzoom`` to 24
- \* Deprecate paint classes `:warning:`
- \* Increase strictness of function validation

### ### Reference JSON & API Changes

- \* Added `deref`` utility
- \* Added `group_by_layout`` utility
- \* Merge `mapbox-gl-function`` repository into this repository

## ## 8.9.0

v8.0.0 styles are fully compatible with v8.9.0.

- \* Added identity functions
- \* Added `auto`` value which represents the calculated default value

## ## 8.8.1

v8.0.0 styles are fully compatible with v8.8.1.

- \* Fixed style validation for layers with invalid types

## ## 8.8.0

v8.0.0 styles are fully compatible with v8.8.0.

- \* Clarified documentation around fill-opacity.
- \* Update function documentation and validation for property functions.
- \* Add text-pitch-alignment property.
- \* Add icon-text-fit, icon-text-fit-padding properties.

## ## 8.7.0

v8.0.0 styles are fully compatible with v8.7.0.

- \* Add support for has / !has operators.

## ## 8.6.0

v8.0.0 styles are fully compatible with v8.6.0.

- \* Added support for zoom and feature driven functions.

## ## 8.4.2

v8.0.0 styles are fully compatible with v8.4.2.

- \* Refactored style validator to expose more granular validation methods

## ## 8.4.1

v8.0.0 styles are fully compatible with v8.4.1.

- \* Revert ramp validation checks that broke some styles.

## ## 8.4.0

v8.0.0 styles are fully compatible with v8.4.0.

- \* Added `cluster`, `clusterRadius`, `clusterMaxZoom` GeoJSON source properties.

## ## 8.3.0

v8.0.0 styles are fully compatible with v8.3.0.

- \* Added `line-offset` style property

### ## 8.2.1

v8.0.0 styles are fully compatible with v8.2.1.

- \* Enforce that all layers that use a vector source specify a "source-layer"

### ## 8.2.0

v8.0.0 styles are fully compatible with v8.2.0.

- \* Add inline `example` property.
- \* Enforce that all style properties must have documentation in `doc` property.
- \* Create minified style specs with `doc` and `example` properties removed.
- \* `validate` now validates against minified style spec.
- \* `format` now accepts `space` option to use with `JSON.stringify`.
- \*

Remove `gl-style-spritefy`. Mapbox GL sprites are now created automatically by the Mapbox style APIs, or for hand-crafted styles, by [spritezero-cli](<https://github.com/mapbox/spritezero-cli>).

### ## 8.1.0

v8.0.0 styles are fully compatible with v8.1.0.

- \* [BREAKING] Simplified layout/paint layer property types to more closely align with v7 types.
- \* Fixed migration script compatibility with newer versions of Node.js and io.js
- \* Removed `constants` from schema, they were deprecated in v8
- \* Added style diff utility to generate semantic deltas between two stylesheets
- \* Added `visibility` property to `circle` layer type
- \* Added `pitch` property to stylesheet

### ## 8.0.0

Introduction of Mapbox GL style specification v8. To migrate a v7 style to v8, use the `gl-style-migrate` script as described in the README.

- \* [BREAKING] The value of the `text-font` property is now an array of strings, rather than a single comma separated string.
- \* [BREAKING] Renamed `symbol-min-distance` to `symbol-spacing`.
- \*
- [BREAKING] Renamed `background-image` to `background-pattern`.
- \* [BREAKING] Renamed `line-image` to `line-pattern`.
- \* [BREAKING] Renamed `fill-image` to `fill-pattern`.

- \* [BREAKING] Renamed the `url` property of the video source type to `urls`.
- \* [BREAKING] Coordinates in video sources are now specified in [lon, lat] order.
- \* [BREAKING] Removed `text-max-size` and `icon-max-size` properties; these are now calculated automatically.
- \* [BREAKING] `text-size` and `icon-size` are now layout properties instead of paint properties.
- \* [BREAKING] Constants are no longer supported. If you are editing styles by hand and want to use constants, you can use a preprocessing step with a tool like [ScreeSS](https://github.com/screee/screee).
- \* [BREAKING] The format for `mapbox://` glyphs URLs has changed; you should now use `mapbox://fonts/mapbox/{fontstack}/{range}.pbf`.
- \* [BREAKING] Reversed the priority of layers for calculating label placement: labels for layers that appear later in the style now have priority over earlier layers.
- \* Added a new `image` source type.
- \* Added a new `circle` layer type.
- \* Default map center location can now be set in the style.
- \* Added `mapbox://` sprite URLs `mapbox://sprite/{user | "mapbox"}/{id}`

### ## 7.5.0

- \* Added gl-style-composite script, for auto-compositing sources in a style.

### ## 7.4.1

- \* Use JSON.stringify for formatting instead of js-beautify

### ## 7.0.0

Introduction of Mapbox GL style specification v7.

- \* [BREAKING] Improve dashed lines (#234)
- \* [BREAKING] Remove prerendered layers (#232)
- \* Explicit visibility property (#212)
- \* Functions for all properties (#237)

### ## 6.0.0 (Style spec v6)

Introduction of Mapbox GL style specification v6.

- \* [BREAKING] New filter syntax (#178)
- \* [BREAKING] Line gap property (#131)
- \* [BREAKING] Remove dashes from min/max-zoom (#175)
- \* [BREAKING] New layout/paint terminology (#166)
- \* [BREAKING] Single text positioning property (#197)
- \* Added requirements (#200)
- \* Added minimum,

maximum, and period values (#198)

## 0.0.5 (in progress)

- \* [BREAKING] Switch to suffix for transition properties (`transition-\*` -> `\*-transition`).
- \* Added support for remote, non-Mapbox TileJSON sources.
- \* [BREAKING] Source `minZoom` and `maxZoom` renamed to `minzoom` and `maxzoom` to match TileJSON.
- \* Added support for `mapbox://` glyph URLs.
- \* [BREAKING] Renamed `raster-fade` to `raster-fade-duration`.
- \* Added background-opacity property.
- \* Added "tokens" property to string values that can autocomplete fields from layers
- \* Added "units" property to describe value types

## 0.0.4 (Aug 8 2014)

- \* Initial public release

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To use the validator call the validate function with an instance object and an optional schema object. If a schema is provided, it will be used to validate. If the instance object refers to a schema (self-validating), that schema will be used to validate and the schema parameter is not necessary (if both exist, both validations will occur).

The validate method will return an array of validation errors. If there are no errors, then an empty list will be returned. A validation error will have two properties:

"property" which indicates which property had the error

"message" which indicates what the error was

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1063040754\_1593668342.59/0/json-schema-0-2-3-9-zip/json-schema-0.2.3/lib/validate.js

## 1.584 csstype 2.6.10-2.6.10

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## 1.585 inherits 2.0.4-2.0.4

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## 1.586 sax 1.2.1-1.2.1

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## 1.589 @mapbox/whoots-js 3.1.0-3.1.0

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## 1.593 earcut 2.2.2-2.2.2

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## 1.596 ua-parser-js 0.7.12-0.7.12

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# 1.600 @webassemblyjs/wasm-parser 1.9.0-1.9.0

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## 1.601 tslib 1.13.0-1.13.0

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# 1.604 cacheable-request 2.1.4-2.1.4

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# 1.625 inflection 1.12.0-1.12.0

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```
/*!  
* inflection  
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*  
* @fileoverview  
* A port of inflection-js to node.js module.  
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1050649521_1591797484.63/0/inflection-1-12-0-2-tgz/package/lib/inflection.js  
* /opt/ws_local/PERMITS_SQL/1050649521_1591797484.63/0/inflection-1-12-0-2-tgz/package/inflection.min.js
```

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# inflection

A port of inflection-js to node.js module

## Description

[inflection-js](<http://code.google.com/p/inflection-js/>) is a port of the functionality from Ruby on Rails' Active Support Inflection classes into Javascript. `inflection` is a port of `inflection-js` to node.js npm package. Instead of [extending JavaScript native](<http://wonko.com/post/extending-javascript-natives>) String object like `inflection-js` does, `inflection` separate the methods to a independent package to avoid unexpected behaviors.

Note: This library uses [Wiktionary](<http://en.wiktionary.org>) as its reference.

## Requires

Checkout `package.json` for dependencies.

## Angular Support

Checkout [ngInflection](<https://github.com/konsumer/ngInflection>) from [konsumer](<https://github.com/konsumer>)

## ## Meteor Support

Checkout [Meteor Inflector](<https://github.com/katrotz/meteor-inflector>) from [Veaceslav Cotruta](<https://github.com/katrotz>)

## ##

### Installation

Install inflection through npm

```
npm install inflection
```

## ## API

- inflection.indexOf( arr, item, from\_index, compare\_func );
- inflection.pluralize( str, plural );
- inflection.singularize( str, singular );
- inflection.inflect( str, count, singular, plural );
- inflection.camelize( str, low\_first\_letter );
- inflection.underscore( str, all\_upper\_case );
- inflection.humanize( str, low\_first\_letter );
- inflection.capitalize( str );
- inflection.dasherize( str );
- inflection.titleize( str );
- inflection.demodulize( str );
- inflection.tableize( str );
- inflection.classify( str );
- inflection.foreign\_key( str, drop\_id\_ubar );
- inflection.ordinalize( str );
- inflection.transform( str, arr );

## ## Usage

> Require the module before using

```
var inflection = require( 'inflection' );
```

```
### inflection.indexOf( arr, item, from_index, compare_func );
```

This lets us detect if an Array contains a given element.

#### #### Arguments

> arr

type: Array

desc:

The subject array.

> item

type: Object

desc: Object to locate in the Array.

> from\_index

type: Number

desc: Starts checking from this position in the Array.(optional)

> compare\_func

type: Function

desc: Function used to compare Array item vs passed item.(optional)

#### #### Example code

```
var inflection = require( 'inflection' );
```

```
inflection.indexOf([ 'hi','there' ], 'guys' ); // === -1
```

```
inflection.indexOf([ 'hi','there' ], 'hi' ); // === 0
```

```
### inflection.pluralize( str, plural );
```

This function adds pluralization support to every String object.

#### #### Arguments

> str

type: String

desc: The subject string.

> plural

type: String

desc: Overrides normal output with said String.(optional)

#### Example code

```
var inflection = require( 'inflection' );

inflection.pluralize( 'person' ); // === 'people'
inflection.pluralize( 'octopus' ); // === "octopi"
inflection.pluralize( 'Hat' ); // === 'Hats'
inflection.pluralize( 'person', 'guys' ); // === 'guys'
```

```
### inflection.singularize(
  str, singular );
```

This function adds singularization support to every String object.

#### Arguments

> str

type: String  
desc: The subject string.

> singular

type: String  
desc: Overrides normal output with said String.(optional)

#### Example code

```
var inflection = require( 'inflection' );

inflection.singularize( 'people' ); // === 'person'
inflection.singularize( 'octopi' ); // === "octopus"
inflection.singularize( 'Hats' ); // === 'Hat'
inflection.singularize( 'guys', 'person' ); // === 'person'
```

```
### inflection.inflect( str, count, singular, plural );
```

This function will pluralize or singularize a String appropriately based on an integer value.

#### Arguments

> str

type: String  
desc: The subject string.

> count

type: Number  
desc: The number to base pluralization off of.

> singular

type: String  
desc: Overrides normal output with said String.(optional)

> plural

type: String  
desc: Overrides normal output with said String.(optional)

####

Example code

```
var inflection = require( 'inflection' );

inflection.inflect( 'people' 1 ); // === 'person'
inflection.inflect( 'octopi' 1 ); // === 'octopus'
inflection.inflect( 'Hats' 1 ); // === 'Hat'
inflection.inflect( 'guys', 1 , 'person' ); // === 'person'
inflection.inflect( 'person', 2 ); // === 'people'
inflection.inflect( 'octopus', 2 ); // === 'octopi'
inflection.inflect( 'Hat', 2 ); // === 'Hats'
inflection.inflect( 'person', 2, null, 'guys' ); // === 'guys'
```

```
### inflection.camelize( str, low_first_letter );
```

This function transforms String object from underscore to camelcase.

#### Arguments

> str

type: String  
desc: The subject string.

> low\_first\_letter

type: Boolean

desc: Default is to capitalize the first letter of the results. Passing true will lowercase it. (optional)

#### Example code

```
var inflection = require( 'inflection' );

inflection.camelize( 'message_properties' ); // === 'MessageProperties'
inflection.camelize( 'message_properties',
true ); // === 'messageProperties'
```

### inflection.underscore( str, all\_upper\_case );

This function transforms String object from camelcase to underscore.

#### Arguments

> str

type: String  
desc: The subject string.

> all\_upper\_case

type: Boolean  
desc: Default is to lowercase and add underscore prefix

#### Example code

```
var inflection = require( 'inflection' );

inflection.underscore( 'MessageProperties' ); // === 'message_properties'
inflection.underscore( 'messageProperties' ); // === 'message_properties'
inflection.underscore( 'MP' ); // === 'm_p'
inflection.underscore( 'MP', true ); // === 'MP'
```

### inflection.humanize( str, low\_first\_letter );

This function adds humanize support to every String object.

#### Arguments

> str

type: String  
desc: The subject string.

> low\_first\_letter

type: Boolean  
desc: Default is to capitalize the first letter of the results. Passing true will lowercase it. (optional)

#### Example code

```
var inflection = require(
  'inflection' );

inflection.humanize( 'message_properties' ); // === 'Message properties'
inflection.humanize( 'message_properties', true ); // === 'message properties'
```

### inflection.capitalize( str );

This function adds capitalization support to every String object.

#### Arguments

> str

type: String  
desc: The subject string.

#### Example code

```
var inflection = require( 'inflection' );

inflection.capitalize( 'message_properties' ); // === 'Message_properties'
inflection.capitalize( 'message properties', true ); // === 'Message properties'
```

### inflection.dasherize( str );

This function replaces underscores with dashes in the string.

#### Arguments

> str

type: String

desc: The subject string.

#### Example code

```
var inflection = require( 'inflection' );

inflection.dasherize( 'message_properties' ); // === 'message-properties'
inflection.dasherize( 'Message Properties' ); // === 'Message-Properties'
```

### inflection.titleize( str );

This function adds titleize support to every String object.

#### Arguments

> str

type: String  
desc: The subject string.

#### Example code

```
var inflection = require( 'inflection' );

inflection.titleize( 'message_properties' ); // === 'Message Properties'
inflection.titleize( 'message properties to keep' ); // === 'Message Properties to Keep'
```

### inflection.demodulize( str );

This function adds demodulize support to every String object.

#### Arguments

> str

type: String  
desc: The subject string.

#### Example code

```
var inflection = require( 'inflection' );

inflection.demodulize( 'Message::Bus::Properties' ); // === 'Properties'
```

```
### inflection.tableize( str );
```

This function adds tableize support to every String object.

```
#### Arguments
```

```
> str
```

```
type: String
```

```
desc: The subject string.
```

```
#### Example code
```

```
var inflection = require( 'inflection' );
```

```
inflection.tableize( 'MessageBusProperty' ); // === 'message_bus_properties'
```

```
### inflection.classify( str );
```

This function adds classification support to every String object.

```
#### Arguments
```

```
> str
```

```
type: String
```

```
desc: The subject string.
```

```
#### Example code
```

```
var inflection = require( 'inflection' );
```

```
inflection.classify( 'message_bus_properties' ); // === 'MessageBusProperty'
```

```
### inflection.foreign_key( str, drop_id_ubar );
```

This function adds foreign key support to every String object.

```
#### Arguments
```

> str

type: String

desc: The subject string.

> low\_first\_letter

type: Boolean

desc: Default is to separate id with an underbar at the end of the class name, you can pass true to skip it.(optional)

#### Example code

```
var inflection = require( 'inflection' );
```

```
inflection.foreign_key( 'MessageBusProperty' ); // === 'message_bus_property_id'
```

```
inflection.foreign_key( 'MessageBusProperty', true ); // === 'message_bus_propertyid'
```

```
### inflection.ordinalize( str );
```

This function adds ordinalize support to every String object.

#### Arguments

> str

type: String

desc: The subject string.

#### Example code

```
var
```

```
inflection = require( 'inflection' );
```

```
inflection.ordinalize( 'the 1 pitch' ); // === 'the 1st pitch'
```

```
### inflection.transform( str, arr );
```

This function performs multiple inflection methods on a string.

#### Arguments

> str

type: String

desc: The subject string.

> arr

type: Array

desc: An array of inflection methods.

#### Example code

```
var inflection = require( 'inflection' );
```

```
inflection.transform( 'all job', [ 'pluralize', 'capitalize', 'dasherize' ] ); // === 'All-jobs'
```

## Credit

- Ryan Schuft <ryan.schuft@gmail.com>
- Lance Pollard <lancejpollard@gmail.com> (Browser support)
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- Eric Brody
- overlookmotel
- Patrick Mowrer
- Greger Olsson
- Jason Crawford <jason@jasoncrawford.org>
- Ray Myers <ray.myers@gmail.com>

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1050649521\_1591797484.63/0/inflection-1-12-0-2-tgz/package/Readme.md

## 1.626 terser-webpack-plugin 1.4.3-1.4.3

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## 1.628 fn-args 5.0.0-5.0.0

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## 1.633 ws 6.1.4-6.1.4

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# 1.635 normalize-url 2.0.1-2.0.1

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## 1.684 datatables.net-responsive 2.2.5-2.2.5

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# 1.686 events 3.1.0-3.1.0

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## 1.687 ncp 1.0.1-1.0.1

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## 1.688 socket.io-client 1.7.4-1.7.4

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# 1.691 lodash 4.17.15-4.17.15

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## 1.692 @mapbox/mapbox-sdk 0.11.0-0.11.0

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## 1.693 socket.io-adapter 0.5.0-0.5.0

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## 1.694 mkdirp 0.5.5-0.5.5

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## 1.695 prompt 1.0.0-1.0.0

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## 1.696 babel-plugin-macros 2.8.0-2.8.0

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# 1.697 uc.micro 1.0.5-1.0.5

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# 1.698 url-parse-lax 3.0.0-3.0.0

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## 1.699 end-of-stream 1.4.4-1.4.4

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## 1.701 @mapbox/geojson-types 1.0.2-1.0.2

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## 1.702 datatables.net-responsive-dt 2.2.5-2.2.5

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## 1.703 @mapbox/mapbox-gl-style-spec

### 13.16.0-13.16.0

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```
{"version":3,"file":"index.js","sources":["../../node_modules/json-stringify-pretty-compact/index.js","../format.js","../../node_modules/url/node_modules/punycode/punycode.js","../../node_modules/url/util.js","../../node_modules/querystring/decode.js","../../node_modules/querystring/encode.js","../../node_modules/querystring/index.js","../../node_modules/url/url.js","../visit.js","../migrate/v8.js","../util/extend.js","../expression/parsing_error.js","../expression/scope.js","../expression/types.js","../../node_modules/csscolorparser/csscolorparser.js","../util/color.js","../expression/types/collator.js","../expression/types/formatted.js","../expression/types/resolved_image.js","../expression/values.js","../expression/definitions/literal.js","../expression/runtime_error.js","../expression/definitions/assertion.js","../expression/definitions/format.js","../expression/definitions/image.js","../expression/definitions/coercion.js","../expression/evaluation_context.js","../expression/compound_expression.js","../expression/definitions/collator.js","../expression/definitions/within.js","../expression/is_constant.js","../expression/definitions/var.js","../expression/parsing_context.js","../expression/stops.js","../expression/definitions/step.js","../../node_modules/@mapbox/unitbezier/index.js","../util/interpolate.js","../util/color_spaces.js","../expression/definitions/interpolate.js","../expression/definitions/coalesce.js","../expression/definitions/let.js","../expression/definitions/at.js","../expression/definitions/in.js","../expression/definitions/index_of.js","../expression/definitions/match.js","../expression/definitions/case.js","../expression/definitions/slice.js","../expression/definitions/comparison.js","../expression/definitions/number_format.js","../expression/definitions/length.js","../expression/definitions/index.js","../util/result.js","../util/properties.js","../util/get_type.js","../function/index.js","../expression/index.js","../function/convert.js","../feature_filter/index.js","../feature_filter/convert.js","../migrate/expressions.js","../migrate.js","../composite.js","../util/ref_properties.js","../deref.js","../util/deep_equal.js","../diff.js","../error/validation_error.js","../error/parsing_error.js","../validate/validate_constants.js","../util/unbundle_jsonlint.js","../validate/validate_object.js","../validate/validate_array.js","../validate/validate_number.js","../validate/validate_function.js","../validate/validate_expression.js","../validate/validate_boolean.js","../validate/validate_color.js","../validate/validate_enum.js","../validate/validate_filter.js","../validate/validate_property.js","../validate/validate_paint_property.js","../validate/validate_layout_property.js","../validate/validate
```



```

    && module;\n\tvar freeGlobal = typeof global === 'object' && global;\n\tif (\n\t\tfreeGlobal.global === freeGlobal
    ||\n\t\tfreeGlobal.window === freeGlobal ||\n\t\tfreeGlobal.self === freeGlobal\n\t) {\n\t\troot =
    freeGlobal;\n\t}\n\t\n\t**\n\t * The `punycode` object.\n\t * @name punycode\n\t * @type Object\n\t * \n\t\tvar
    punycode,\n\t\n\t** Highest positive signed 32-bit float value *\n\t\tmaxInt = 2147483647, // aka. 0x7FFFFFFF or
    2^31-1\n\t\n\t** Bootstring parameters *\n\t\tbase = 36,\n\t\ttMin = 1,\n\t\ttMax = 26,\n\t\ttSkew = 38,\n\t\ttdamp =
    700,\n\t\ttInitialBias = 72,\n\t\ttInitialN = 128, // 0x80\n\t\ttDelimiter = '-', // "\x2D"\n\t\n\t** Regular expressions
    *\n\t\tregexPunycode = /^xn--/, \n\t\tregexNonASCII = /[^\x20-\x7E]/, // unprintable ASCII chars + non-ASCII
    chars\n\t\tregexSeparators = /[\x2E\u3002\uFF0E\uFF61]/g, // RFC 3490 separators\n\t\n\t** Error messages
    *\n\t\terrors = {\n\t\t\t'overflow': 'Overflow: input needs wider integers to process',\n\t\t\t'not-basic': 'Illegal input
    >= 0x80 (not a basic code point)',\n\t\t\t'invalid-input': 'Invalid input'\n\t},\n\t\n\t** Convenience shortcuts
    *\n\t\tbaseMinusTMin = base - tMin,\n\t\ttFloor = Math.floor,\n\t\ttStringFromCharCode = String.fromCharCode,\n\t\n\t**
    Temporary variable *\n\t\tkey;\n\t\n\t*-----*\n\t\n\t * A
    generic error utility function.\n\t * @private\n\t * @param {String} type The error type.\n\t * @returns {Error}
    Throws a `RangeError` with the applicable error message.\n\t * \n\t\tfunction error(type) {\n\t\t\tthrow
    RangeError(errors[type]);\n\t}\n\t\n\t**\n\t * A generic `Array#map` utility function.\n\t * @private\n\t * @param
    {Array} array The array to iterate over.\n\t * @param {Function} callback The function that gets called for every
    array\n\t * item.\n\t * @returns {Array} A new array of values returned by the callback function.\n\t * \n\t\tfunction
    map(array, fn) {\n\t\t\tvar length = array.length;\n\t\t\tvar result = [];\n\t\t\twhile (length--)\n\t\t\t\t{
    \n\t\t\t\t\tresult[length] = fn(array[length]);\n\t\t\t\t\n\t\t\t\treturn result;\n\t\t}\n\t\n\t**\n\t * A simple `Array#map`-like
    wrapper to work with domain name strings or email\n\t * addresses.\n\t * @private\n\t * @param {String} domain
    The domain name or email address.\n\t * @param {Function} callback The function that gets called for every\n\t *
    character.\n\t * @returns {Array} A new string of characters returned by the callback\n\t * function.\n\t * \n\t\tfunction
    mapDomain(string, fn) {\n\t\t\tvar parts = string.split('@');\n\t\t\tvar result = '';\n\t\t\tif (parts.length > 1)
    {\n\t\t\t\t// In email addresses, only the domain name should be punycode'd. Leave\n\t\t\t\t// the local part (i.e.
    everything up to `@`) intact.\n\t\t\t\tresult = parts[0] + '@';\n\t\t\t\tstring = parts[1];\n\t\t\t\t\n\t\t\t\t// Avoid `split(regex)` for
    IE8 compatibility. See #17.\n\t\t\t\tstring = string.replace(regexSeparators, '\x2E');\n\t\t\t\tvar labels =
    string.split('.');\n\t\t\t\tvar encoded = map(labels, fn).join('.');\n\t\t\t\treturn
    result + encoded;\n\t\t}\n\t\n\t**\n\t * Creates an array containing the numeric code points of each Unicode\n\t *
    character in the string. While JavaScript uses UCS-2 internally,\n\t * this function will convert a pair of surrogate
    halves (each of which\n\t * UCS-2 exposes as separate characters) into a single code point,\n\t * matching UTF-
    16.\n\t * @see `punycode.ucs2.encode`\n\t * @see <https://mathiasbynens.be/notes/javascript-encoding>\n\t *
    @memberOf punycode.ucs2\n\t * @name decode\n\t * @param {String} string The Unicode input string (UCS-
    2).\n\t * @returns {Array} The new array of code points.\n\t * \n\t\tfunction ucs2decode(string) {\n\t\t\tvar output =
    [],\n\t\t\t\tcounter = 0,\n\t\t\t\tlength = string.length,\n\t\t\t\tvalue,\n\t\t\t\textra;\n\t\t\twhile (counter < length)
    {\n\t\t\t\tvalue = string.charCodeAt(counter++);\n\t\t\t\tif (value >= 0xD800 && value <= 0xDBFF && counter <
    length) {\n\t\t\t\t\t// high surrogate, and there is a next character\n\t\t\t\t\t\textra =
    string.charCodeAt(counter++);\n\t\t\t\t\t\tif
    ((extra & 0xFC00) == 0xDC00) { // low surrogate\n\t\t\t\t\t\t\toutput.push(((value & 0x3FF) << 10) + (extra & 0x3FF)
    + 0x10000);\n\t\t\t\t\t\t} else {\n\t\t\t\t\t\t\t// unmatched surrogate; only append this code unit, in case the next\n\t\t\t\t\t\t\t\tcode unit is the high surrogate of a surrogate pair\n\t\t\t\t\t\t\t\toutput.push(value);\n\t\t\t\t\t\t\t\tcounter--;\n\t\t\t\t\t\t\t}\n\t\t\t\t\t\t} else {\n\t\t\t\t\t\t\toutput.push(value);\n\t\t\t\t\t\t\t}\n\t\t\t\t\t\treturn output;\n\t\t}\n\t\n\t**\n\t * Creates a string based on an array of
    numeric code points.\n\t * @see `punycode.ucs2.decode`\n\t * @memberOf punycode.ucs2\n\t * @name encode\n\t *
    @param {Array} codePoints The array of numeric code points.\n\t * @returns {String} The new Unicode string
    (UCS-2).\n\t * \n\t\tfunction ucs2encode(array) {\n\t\t\treturn map(array, function(value) {\n\t\t\t\tvar output =
    '';\n\t\t\t\tif (value > 0xFFFF) {\n\t\t\t\t\tvalue -= 0x10000;\n\t\t\t\t\toutput +=
    stringFromCharCode(value >>> 10 & 0x3FF |
    0xD800);\n\t\t\t\t\tvalue = 0xDC00 | value
    & 0x3FF;\n\t\t\t\t\toutput +=
    stringFromCharCode(value);\n\t\t\t\t\treturn output;\n\t\t\t}).join('');\n\t\t}\n\t\n\t**\n\t * Converts a basic code point into a digit/integer.\n\t * @see `digitToBasic()`\n\t * @private\n\t * @param {Number}
  
```









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rest.trim();\n\n if (!slashesDenoteHost && url.split('#').length === 1) {\n // Try fast path regexp\n var
simplePath = simplePathPattern.exec(rest);\n if (simplePath) {\n this.path = rest;\n this.href = rest;\n
this.pathname = simplePath[1];\n if (simplePath[2]) {\n this.search = simplePath[2];\n if
(parseQueryString) {\n this.query = querystring.parse(this.search.substr(1));\n
} else {\n this.query = this.search.substr(1);\n }\n } else if (parseQueryString) {\n this.search
= ";\n this.query = {};\n }\n return this;\n }\n }\n\n var proto = protocolPattern.exec(rest);\n if (proto)
{\n proto = proto[0];\n var lowerProto = proto.toLowerCase();\n this.protocol = lowerProto;\n rest =
rest.substr(proto.length);\n }\n\n // figure out if it's got a host\n // user@server is *always* interpreted as a
hostname, and url\n // resolution will treat //foo/bar as host=foo,path=bar because that's\n // how the browser
resolves relative URLs.\n if (slashesDenoteHost || proto || rest.match(/^\\|\\|^[^@\\|]+@[^@\\|]+/)) {\n var slashes =
rest.substr(0, 2) === '//';\n if (slashes && !(proto && hostlessProtocol[proto])) {\n rest = rest.substr(2);\n
this.slashes = true;\n }\n }\n\n if (!hostlessProtocol[proto] &&\n (slashes || (proto &&
!slashedProtocol[proto])))
{\n\n // there's a hostname.\n // the first instance of /, ?, :, or # ends the host.\n //\n // If there is an @ in the
hostname, then non-host chars *are* allowed\n // to the left of the last @ sign, unless some host-ending character\n
// comes *before* the @-sign.\n // URLs are obnoxious.\n //\n // ex:\n // http://a@b@c/ => user:a@b
host:c\n // http://a@b?@c => user:a host:c path:?@c\n\n // v0.12 TODO(isaacs): This is not quite how Chrome
does things.\n // Review our test case against browsers more comprehensively.\n\n // find the first instance of any
hostEndingChars\n var hostEnd = -1;\n for (var i = 0; i < hostEndingChars.length; i++) {\n var hec =
rest.indexOf(hostEndingChars[i]);\n if (hec !== -1 && (hostEnd === -1 || hec < hostEnd))\n hostEnd =
hec;\n }\n\n // at this point, either we have an explicit point where the\n // auth portion cannot go past, or the
last @ char is the decider.\n var auth,
atSign;\n if (hostEnd === -1) {\n // atSign can be anywhere.\n atSign = rest.lastIndexOf('@');\n } else {\n
// atSign must be in auth portion.\n // http://a@b/c@d => host:b auth:a path:/c@d\n atSign =
rest.lastIndexOf('@', hostEnd);\n }\n\n // Now we have a portion which is definitely the auth.\n // Pull that
off.\n if (atSign !== -1) {\n auth = rest.slice(0, atSign);\n rest = rest.slice(atSign + 1);\n this.auth =
decodeURIComponent(auth);\n }\n\n // the host is the remaining to the left of the first non-host char\n hostEnd
= -1;\n for (var i = 0; i < nonHostChars.length; i++) {\n var hec = rest.indexOf(nonHostChars[i]);\n if (hec
!== -1 && (hostEnd === -1 || hec < hostEnd))\n hostEnd = hec;\n }\n // if we still have not hit it, then the
entire thing is a host.\n if (hostEnd === -1)\n hostEnd = rest.length;\n\n this.host = rest.slice(0, hostEnd);\n
rest = rest.slice(hostEnd);\n\n\n // pull out port.\n this.parseHost();\n\n // we've indicated that there is a hostname,\n // so even if it's empty, it
has to be present.\n this.hostname = this.hostname || ";\n\n // if hostname begins with [ and ends with ]\n //
assume that it's an IPv6 address.\n var ipv6Hostname = this.hostname[0] === '[' &&\n
this.hostname[this.hostname.length - 1] === ']';\n\n // validate a little.\n if (!ipv6Hostname) {\n var hostparts
= this.hostname.split(/\\./);\n for (var i = 0, l = hostparts.length; i < l; i++) {\n var part = hostparts[i];\n if
(!part) continue;\n if (!part.match(hostnamePartPattern)) {\n var newpart = ";\n for (var j = 0, k =
part.length; j < k; j++) {\n if (part.charCodeAt(j) > 127) {\n // we replace non-ASCII char with a
temporary placeholder\n // we need this to make sure size of hostname is not\n // broken by
replacing non-ASCII by
nothing\n newpart += 'x';\n } else {\n newpart += part[j];\n }\n }\n }\n // we
test again with ASCII char only\n if (!newpart.match(hostnamePartPattern)) {\n var validParts =
hostparts.slice(0, i);\n var notHost = hostparts.slice(i + 1);\n var bit = part.match(hostnamePartStart);\n
if (bit) {\n validParts.push(bit[1]);\n notHost.unshift(bit[2]);\n }\n if
(notHost.length) {\n rest = '/' + notHost.join('.') + rest;\n }\n this.hostname =
validParts.join('.');\n break;\n }\n }\n }\n\n if (this.hostname.length > hostnameMaxLen)
{\n this.hostname = ";\n } else {\n // hostnames are always lower case.\n this.hostname =
this.hostname.toLowerCase();\n }\n\n if (!ipv6Hostname) {\n // IDNA Support: Returns a punycoded

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representation

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of \"domain\".\n // It only converts parts of the domain name that\n // have non-ASCII characters, i.e. it  
doesn't matter if\n // you call it with a domain that already is ASCII-only.\n this.hostname =  
punycode.toASCII(this.hostname);\n }\n\n var p = this.port ? ':' + this.port : '';\n var h = this.hostname || '';\n this.host = h + p;\n this.href += this.host;\n\n // strip [ and ] from the hostname\n // the host field still retains  
them, though\n if (ipv6Hostname) {\n this.hostname = this.hostname.substr(1, this.hostname.length - 2);\n if (rest[0] !== '/') {\n rest = '/' + rest;\n }\n }\n\n // now rest is set to the post-host stuff.\n // chop off any  
delim chars.\n if (!unsafeProtocol[lowerProto]) {\n // First, make 100% sure that any \"autoEscape\" chars get\n // escaped, even if encodeURIComponent doesn't think they\n // need to be.\n for (var i = 0, l =  
autoEscape.length; i < l; i++) {\n var ae = autoEscape[i];\n if (rest.indexOf(ae) === -1)\n continue;\n var esc =  
encodeURIComponent(ae);\n if (esc === ae) {\n esc = escape(ae);\n }\n rest =  
rest.split(ae).join(esc);\n }\n }\n\n // chop off from the tail first.\n var hash = rest.indexOf('#');\n if (hash !== -  
1) {\n // got a fragment string.\n this.hash = rest.substr(hash);\n rest = rest.slice(0, hash);\n }\n var qm =  
rest.indexOf('?');\n if (qm !== -1) {\n this.search = rest.substr(qm);\n this.query = rest.substr(qm + 1);\n if (parseQueryString) {\n this.query = querystring.parse(this.query);\n }\n rest = rest.slice(0, qm);\n } else if (parseQueryString) {\n // no query string, but parseQueryString still requested\n this.search = '';\n this.query =  
{};\n }\n if (rest) this.pathname = rest;\n if (slashedProtocol[lowerProto] &&\n this.hostname &&  
!this.pathname) {\n this.pathname = '/';\n }\n\n //to support http.request\n if (this.pathname || this.search) {\n var p = this.pathname || '';\n var s = this.search || '';\n this.path = p + s;\n }\n\n // finally, reconstruct the href based on what has been validated.\n this.href = this.format();\n return  
this;\n};\n\n// format a parsed object into a url string\nfunction urlFormat(obj) {\n // ensure it's an object, and not a  
string url.\n // If it's an obj, this is a no-op.\n // this way, you can call url_format() on strings\n // to clean up  
potentially wonky urls.\n if (util.isString(obj)) obj = urlParse(obj);\n if (!(obj instanceof Url)) return  
Url.prototype.format.call(obj);\n return obj.format();\n}\n\nUrl.prototype.format = function() {\n var auth =  
this.auth || '';\n if (auth) {\n auth = encodeURIComponent(auth);\n auth = auth.replace(/%3A/i, ':');\n auth +=  
'@';\n }\n\n var protocol = this.protocol || '';\n pathname = this.pathname || '';\n hash = this.hash || '';\n host  
= false;\n query = '';\n\n if (this.host) {\n host = auth + this.host;\n } else if (this.hostname) {\n host = auth + (this.hostname.indexOf(':')  
=== -1 ?\n this.hostname :\n '[' + this.hostname + ']');\n if (this.port) {\n host += ':' + this.port;\n }\n }\n\n if (this.query &&\n util.isObject(this.query) &&\n Object.keys(this.query).length) {\n query =  
querystring.stringify(this.query);\n }\n\n var search = this.search || (query && ('?' + query)) || '';\n\n if (protocol && protocol.substr(-1) !== ':') protocol += ':';\n\n // only the slashedProtocols get the //. Not mailto:, xmpp:, etc.\n // unless they had them to begin with.\n if (this.slashes ||\n (!protocol || slashedProtocol[protocol]) && host !==  
false) {\n host = '/' + (host || '');\n if (pathname && pathname.charAt(0) !== '/') pathname = '/' + pathname;\n }  
else if (!host) {\n host = '';\n }\n\n if (hash && hash.charAt(0) !== '#') hash = '#' + hash;\n if (search &&  
search.charAt(0)  
!== '?') search = '?' + search;\n\n pathname = pathname.replace(/[?#]/g, function(match) {\n return  
encodeURIComponent(match);\n });\n search = search.replace('#', '%23');\n\n return protocol + host + pathname +  
search + hash;\n};\n\nfunction urlResolve(source, relative) {\n return urlParse(source, false,  
true).resolve(relative);\n}\n\nUrl.prototype.resolve = function(relative) {\n return  
this.resolveObject(urlParse(relative, false, true)).format();\n};\n\nfunction urlResolveObject(source, relative) {\n if  
(!source) return relative;\n return urlParse(source, false,  
true).resolveObject(relative);\n}\n\nUrl.prototype.resolveObject = function(relative) {\n if (util.isString(relative))  
{\n var rel = new Url();\n rel.parse(relative, false, true);\n relative = rel;\n }\n\n var result = new Url();\n var  
tkeys = Object.keys(this);\n for (var tk = 0; tk < tkeys.length; tk++) {\n var tkey = tkeys[tk];\n result[tkey] =  
this[tkey];\n }\n\n // hash is always overridden,
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no matter what.\n // even href="" will remove it.\n result.hash = relative.hash;\n\n // if the relative url is empty,
then there's nothing left to do here.\n if (relative.href === "") {\n result.href = result.format();\n return result;\n
}\n\n // hrefs like //foo/bar always cut to the protocol.\n if (relative.slashes && !relative.protocol) {\n // take
everything except the protocol from relative\n var rkeys = Object.keys(relative);\n for (var rk = 0; rk <
rkeys.length; rk++) {\n var rkey = rkeys[rk];\n if (rkey !== 'protocol')\n result[rkey] = relative[rkey];\n
}\n\n //urlParse appends trailing / to urls like http://www.example.com\n if (slashedProtocol[result.protocol]
&&\n result.hostname && !result.pathname) {\n result.path = result.pathname = '/';\n }\n\n result.href =
result.format();\n return result;\n }\n\n if (relative.protocol && relative.protocol !== result.protocol) {\n // if it's
a known url protocol,
then changing\n // the protocol does weird things\n // first, if it's not file:, then we MUST have a host,\n // and
if there was a path\n // to begin with, then we MUST have a path.\n // if it is file:, then the host is dropped,\n //
because that's known to be hostless.\n // anything else is assumed to be absolute.\n if
(!slashedProtocol[relative.protocol]) {\n var keys = Object.keys(relative);\n for (var v = 0; v < keys.length;
v++) {\n var k = keys[v];\n result[k] = relative[k];\n }\n result.href = result.format();\n return
result;\n }\n\n result.protocol = relative.protocol;\n if (!relative.host && !hostlessProtocol[relative.protocol])
{\n var relPath = (relative.pathname || "").split('/');\n while (relPath.length && !(relative.host =
relPath.shift()));\n if (!relative.host) relative.host = ";\n if (!relative.hostname) relative.hostname = ";\n if
(relPath[0] !== "") relPath.unshift("");\n
if (relPath.length < 2) relPath.unshift("");\n result.pathname = relPath.join('/');\n } else {\n
result.pathname = relative.pathname;\n }\n result.search = relative.search;\n result.query = relative.query;\n
result.host = relative.host || ";\n result.auth = relative.auth;\n result.hostname = relative.hostname ||
relative.host;\n result.port = relative.port;\n // to support http.request\n if (result.pathname || result.search) {\n
var p = result.pathname || ";\n var s = result.search || ";\n result.path = p + s;\n }\n result.slashes =
result.slashes || relative.slashes;\n result.href = result.format();\n return result;\n }\n\n var isSourceAbs =
(result.pathname && result.pathname.charAt(0) === '/')\n isRelAbs = (\n relative.host ||\n
relative.pathname && relative.pathname.charAt(0) === '/'\n ),\n mustEndAbs = (isRelAbs || isSourceAbs ||\n
(result.host
&& relative.pathname)),\n removeAllDots = mustEndAbs,\n srcPath = result.pathname &&
result.pathname.split('/') || [],\n relPath = relative.pathname && relative.pathname.split('/') || [],\n psychotic =
result.protocol && !slashedProtocol[result.protocol];\n\n // if the url is a non-slashed url, then relative\n // links
like ../. should be able\n // to crawl up to the hostname, as well. This is strange.\n // result.protocol has already
been set by now.\n // Later on, put the first path part into the host field.\n if (psychotic) {\n result.hostname = ";\n
result.port = null;\n if (result.host) {\n if (srcPath[0] === "") srcPath[0] = result.host;\n else
srcPath.unshift(result.host);\n }\n result.host = ";\n if (relative.protocol) {\n relative.hostname = null;\n
relative.port = null;\n if (relative.host) {\n if (relPath[0] === "") relPath[0] = relative.host;\n else
relPath.unshift(relative.host);\n
}\n relative.host = null;\n }\n mustEndAbs = mustEndAbs && (relPath[0] === "" || srcPath[0] === ");\n
}\n\n if (isRelAbs) {\n // it's absolute.\n result.host = (relative.host || relative.host === "") ?\n
relative.host : result.host;\n result.hostname = (relative.hostname || relative.hostname === "") ?\n
relative.hostname : result.hostname;\n result.search = relative.search;\n result.query = relative.query;\n srcPath
= relPath;\n // fall through to the dot-handling below.\n } else if (relPath.length) {\n // it's relative\n // throw
away the existing file, and take the new path instead.\n if (!srcPath) srcPath = [];\n srcPath.pop();\n srcPath =
srcPath.concat(relPath);\n result.search = relative.search;\n result.query = relative.query;\n } else if
(!util.isNullOrUndefined(relative.search)) {\n // just pull out the search.\n // like href='?foo'.\n // Put this after
the other two cases
because it simplifies the booleans\n if (psychotic) {\n result.hostname = result.host = srcPath.shift();\n
}\n\n //occasionally the auth can get stuck only in host\n //this especially happens in cases like\n
//url.resolveObject('mailto:local1@domain1', 'local2@domain2')\n var authInHost = result.host &&

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StyleSpecification,\n  options: {paint?: boolean, layout?: boolean},\n  callback: PropertyCallback\n) {\n  function inner(layer, propertyType: 'paint' | 'layout') {\n    const properties = (layer[propertyType]:\n    any);\n    if (!properties) return;\n    Object.keys(properties).forEach((key) => {\n      callback({\n        path: [layer.id, propertyType, key],\n        key,\n        value: properties[key],\n        reference:\n        getPropertyReference(key),\n        set(x) {\n          properties[key] = x;\n        }\n      });\n    });\n  }\n  eachLayer(style, (layer) => {\n    if (options.paint) {\n      inner(layer, 'paint');\n    }\n    if (options.layout) {\n      inner(layer, 'layout');\n    }\n  });\n  "\n", "\nimport URL from 'url';\nimport\n{eachSource, eachLayer, eachProperty} from './visit';\nfunction eachLayout(layer, callback) {\n  for (const k in\n  layer) {\n    if (k.indexOf('layout') === 0) {\n      callback(layer[k], k);\n    }\n  }\n}\nfunction\neachPaint(layer, callback) {\n  for (const k in layer) {\n    if (k.indexOf('paint') === 0) {\n      callback(layer[k], k);\n    }\n  }\n}\nfunction resolveConstant(style, value) {\n  if (typeof value ===\n  'string' && value[0] === '@') {\n    return resolveConstant(style, style.constants[value]);\n  } else {\n    return\n    value;\n  }\n}\nfunction isFunction(value) {\n  return Array.isArray(value.stops);\n}\nfunction\nrenameProperty(obj, from, to) {\n  obj[to] = obj[from]; delete obj[from];\n}\n\nexport default function(style) {\n  style.version = 8;\n  // Rename properties, reverse coordinates in source and layers\n  eachSource(style, (source)\n  => {\n    if (source.type === 'video' && source.url !== undefined) {\n      renameProperty(source, 'url',\n      'urls');\n    }\n    if (source.type === 'video') {\n      source.coordinates.forEach((coord) => {\n        return coord.reverse();\n      });\n    }\n  });\n  eachLayer(style, (layer) => {\n    eachLayout(layer,\n    (layout) => {\n      if (layout['symbol-min-distance']\n      !== undefined) {\n        renameProperty(layout, 'symbol-min-distance', 'symbol-spacing');\n      }\n    });\n    eachPaint(layer, (paint) => {\n      if (paint['background-image'] !== undefined) {\n        renameProperty(paint, 'background-image', 'background-pattern');\n      }\n      if (paint['line-image'] !==\n      undefined) {\n        renameProperty(paint, 'line-image', 'line-pattern');\n      }\n      if (paint['fill-image']\n      !== undefined) {\n        renameProperty(paint, 'fill-image', 'fill-pattern');\n      }\n    });\n  });\n  //\n  Inline Constants\n  eachProperty(style, {paint: true, layout: true}, (property) => {\n    const value =\n    resolveConstant(style, property.value);\n    if (isFunction(value)) {\n      value.stops.forEach((stop) => {\n        stop[1] = resolveConstant(style, stop[1]);\n      });\n    }\n    property.set(value);\n  });\n  delete style.constants;\n  eachLayer(style, (layer) => {\n    // get rid of text-max-size, icon-max-size\n    // turn text-size, icon-size into layout properties\n    // https://github.com/mapbox/mapbox-gl-style-\n    spec/issues/255\n    eachLayout(layer, (layout) => {\n      delete layout['text-max-size'];\n      delete\n      layout['icon-max-size'];\n    });\n    eachPaint(layer, (paint) => {\n      if (paint['text-size']) {\n        if\n        (!layer.layout) layer.layout = {};\n        layer.layout['text-size'] = paint['text-size'];\n        delete paint['text-\n        size'];\n      }\n      if (paint['icon-size']) {\n        if (!layer.layout) layer.layout = {};\n        layer.layout['icon-size'] = paint['icon-size'];\n        delete paint['icon-size'];\n      }\n    });\n  });\n  function migrateFontstackURL(input) {\n    const inputParsed = URL.parse(input);\n    const inputPathnameParts = inputParsed.pathname.split('/');\n    if (inputParsed.protocol !== 'mapbox:') {\n      return input;\n    }\n    } else if (inputParsed.hostname === 'fontstack') {\n      assert(decodeURI(inputParsed.pathname) === `/{fontstack}/{range}.pbf`);\n      return\n      'mapbox://fonts/mapbox/{fontstack}/{range}.pbf';\n    }\n    } else if (inputParsed.hostname === 'fonts') {\n      assert(inputPathnameParts[1] === 'v1');\n      assert(decodeURI(inputPathnameParts[3]) === '{fontstack}');\n      assert(decodeURI(inputPathnameParts[4]) === '{range}.pbf');\n      return\n      `mapbox://fonts/${inputPathnameParts[2]}/{fontstack}/{range}.pbf`;\n    }\n    } else {\n      assert(false);\n    }\n  }\n  function assert(predicate) {\n    if (!predicate) {\n      throw new Error(`Invalid font url:\n      \"${input}\"`);\n    }\n  }\n  if (style.glyphs) {\n    style.glyphs\n    = migrateFontstackURL(style.glyphs);\n  }\n  function migrateFontStack(font) {\n    function\n    splitAndTrim(string) {\n      return string.split(',').map((s) => {\n        return s.trim();\n      });\n    }\n    if (Array.isArray(font)) {\n      // Assume it's a previously migrated font-array.\n      return font;\n    }\n    } else if (typeof font === 'string') {\n      return splitAndTrim(font);\n    }\n    } else if (typeof font ===

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'object') {\n      font.stops.forEach((stop) => {\n          stop[1] = splitAndTrim(stop[1]);\n      });\n      return font;\n    } else {\n      throw new Error("unexpected font value");\n    }\n  }\n  eachLayer(style, (layer) => {\n    eachLayout(layer, (layout) => {\n      if (layout['text-font']) {\n        layout['text-font'] = migrateFontStack(layout['text-font']);\n      }\n    });\n  });\n  // Reverse order of symbol layers. This is an imperfect migration.\n  // The order of a symbol layer in the layers list affects two things:\n  // - how it is drawn relative to other layers (like oneway arrows below bridges)\n  // - the placement priority compared to other layers\n  // It's impossible to reverse the placement priority without breaking the draw order\n  // in some cases. This migration only reverses the order of symbol layers that\n  // are above all other types of layers.\n  // Symbol layers that are at the top of the map preserve their priority.\n  // Symbol layers that are below another type (line, fill) of layer preserve their draw order.\n  let firstSymbolLayer = 0;\n  for (let i = style.layers.length - 1; i >= 0; i--) {\n    const layer = style.layers[i];\n    if (layer.type !== 'symbol') {\n      firstSymbolLayer = i + 1;\n      break;\n    }\n  }\n  const symbolLayers = style.layers.splice(firstSymbolLayer);\n  symbolLayers.reverse();\n  style.layers = style.layers.concat(symbolLayers);\n  return style;\n}\n\n// @flow\n\nexport default function (output: any, ...inputs: Array<any>) {\n  for (const input of inputs) {\n    for (const k in input) {\n      output[k] = input[k];\n    }\n  }\n  return output;\n}\n\n// @flow\n\nexport class ParsingError extends Error {\n  key: string;\n  message: string;\n  constructor(key: string, message: string) {\n    super(message);\n    this.message = message;\n    this.key = key;\n  }\n}\n\nexport default ParsingError;\n\n// @flow\n\nimport type {Expression} from './expression';\n\n/**\n * Tracks `let` bindings during expression parsing.\n */\n@private\nexport class Scope {\n  parent: ?Scope;\n  bindings: {[_: string]: Expression};\n  constructor(parent?: Scope, bindings: Array<[string, Expression]> = []) {\n    this.parent = parent;\n    this.bindings = {};\n    for (const [name, expression] of bindings) {\n      this.bindings[name] = expression;\n    }\n  }\n  concat(bindings: Array<[string, Expression]>) {\n    return new Scope(this, bindings);\n  }\n  get(name: string): Expression {\n    if (this.bindings[name]) {\n      return this.bindings[name];\n    }\n    if (this.parent) {\n      return this.parent.get(name);\n    }\n    throw new Error(`${name} not found in scope.`);\n  }\n  has(name: string): boolean {\n    if (this.bindings[name]) {\n      return true;\n    }\n    return this.parent ? this.parent.has(name) : false;\n  }\n}\n\nexport default Scope;\n\n// @flow\n\nexport type NullTypeT = { kind: 'null' };\nexport type NumberTypeT = { kind: 'number' };\nexport type StringTypeT = { kind: 'string' };\nexport type BooleanTypeT = { kind: 'boolean' };\nexport type ColorTypeT = { kind: 'color' };\nexport type ObjectTypeT = { kind: 'object' };\nexport type ValueTypeT = { kind: 'value' };\nexport type ErrorTypeT = { kind: 'error' };\nexport type CollatorTypeT = { kind: 'collator' };\nexport type FormattedTypeT = { kind: 'formatted' };\nexport type ResolvedImageTypeT = { kind: 'resolvedImage' };\nexport type EvaluationKind = 'constant' | 'source' | 'camera' | 'composite';\nexport type Type =\n  | NullTypeT\n  | NumberTypeT\n  | StringTypeT\n  | BooleanTypeT\n  | ColorTypeT\n  | ObjectTypeT\n  | ValueTypeT\n  | ArrayType\n  // eslint-disable-line no-use-before-define\n  | ErrorTypeT\n  | CollatorTypeT\n  | FormattedTypeT\n  | ResolvedImageTypeT;\nexport type ArrayType = {\n  kind: 'array',\n  itemType: Type,\n  N: ?number\n};\nexport type NativeType = 'number' | 'string' | 'boolean' | 'null' | 'array' | 'object';\nexport const NullType = {kind: 'null'};\nexport const NumberType = {kind: 'number'};\nexport const StringType = {kind: 'string'};\nexport const BooleanType = {kind: 'boolean'};\nexport const ColorType = {kind: 'color'};\nexport const ObjectType = {kind: 'object'};\nexport const ValueType = {kind: 'value'};\nexport const ErrorType = {kind: 'error'};\nexport const CollatorType = {kind: 'collator'};\nexport const FormattedType = {kind: 'formatted'};\nexport const ResolvedImageType = {kind: 'resolvedImage'};\n\nexport function array(itemType: Type, N: ?number): ArrayType {\n  return {\n    kind: 'array',\n    itemType,\n    N\n  };\n}\n\nexport function toString(type: Type): string {\n  if (type.kind === 'array') {\n    const itemType = toString(type.itemType);\n    return `typeof type.N === 'number' ?\n      `array<${itemType}>, ${type.N}>`\n      :\n      type.itemType.kind === 'value' ?\n      `array<${itemType}>`\n      :\n      type.kind;\n  }\n}\n\nexport const valueMemberTypes = [\n  NullType,\n  NumberType,\n  StringType,\n  BooleanType,\n
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ColorType,\n FormattedType,\n ObjectType,\n array(ValueType),\n ResolvedImageType\n];\n\n/**\n * Returns null if `t` is a subtype of `expected`; otherwise returns an\n * error message.\n * @private\n */\nexport function checkSubtype(expected: Type, t: Type): ?string {\n  if (t.kind === 'error') {\n    // Error is a subtype of every type\n    return null;\n  } else if (expected.kind === 'array') {\n    if (t.kind ===\n    'array' &&\n      ((t.N === 0 && t.itemType.kind === 'value') || !checkSubtype(expected.itemType, t.itemType))\n    &&\n      (typeof expected.N !== 'number' || expected.N === t.N)) {\n      return null;\n    } else if\n    (expected.kind === t.kind) {\n      return null;\n    } else if (expected.kind === 'value') {\n      for (const\n      memberType of valueMemberTypes) {\n        if (!checkSubtype(memberType, t)) {\n          return null;\n        }\n      }\n    }\n    return `Expected ${toString(expected)} but found ${toString(t)} instead.`;\n  }\n}\n\nexport\nfunction isValidType(provided: Type, allowedTypes: Array<Type>): boolean {\n  return allowedTypes.some(t =>\n  t.kind === provided.kind);\n}\n\nexport\nfunction isValidNativeType(provided: any, allowedTypes: Array<NativeType>): boolean {\n  return\n  allowedTypes.some(t => {\n    if (t === 'null') {\n      return provided === null;\n    } else if (t === 'array')\n    {\n      return Array.isArray(provided);\n    } else if (t === 'object') {\n      return provided &&\n      !Array.isArray(provided) && typeof provided === 'object';\n    } else {\n      return t === typeof provided;\n    }\n  });\n}\n\n", // (c) Dean McNamee <dean@gmail.com>, 2012.\n\n// https://github.com/deanm/css-color-\nparser-js\n\n// Permission is hereby granted, free of charge, to any person obtaining a copy\n// of this software and\n// associated documentation files (the "Software"), to\n// deal in the Software without restriction, including without\n// limitation the\n// rights to use, copy, modify, merge, publish, distribute, sublicense, and/or\n// sell copies of the\n// Software, and to permit persons to whom the Software is\n// furnished\n// to do so, subject to the following conditions:\n\n// The above copyright notice and this permission notice shall be\n// included in\n// all copies or substantial portions of the Software.\n\n// THE SOFTWARE IS PROVIDED "AS\n// IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR\n// IMPLIED, INCLUDING BUT NOT LIMITED\n// TO THE WARRANTIES OF MERCHANTABILITY,\n// FITNESS FOR A PARTICULAR PURPOSE AND\n// NONINFRINGEMENT. IN NO EVENT SHALL THE\n// AUTHORS OR COPYRIGHT HOLDERS BE LIABLE\n// FOR ANY CLAIM, DAMAGES OR OTHER\n// LIABILITY, WHETHER IN AN ACTION OF CONTRACT,\n// TORT OR OTHERWISE, ARISING\n// FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR\n// THE USE OR OTHER DEALINGS\n// IN THE SOFTWARE.\n\n// http://www.w3.org/TR/css3-color/\n\nvar\nkCSSColorTable = {\n  "transparent": [0,0,0,0],\n  "aliceblue": [240,248,255,1],\n  "antiquewhite":\n  [250,235,215,1],\n  "aqua": [0,255,255,1],\n  "aquamarine": [127,255,212,1],\n  "azure": [240,255,255,1],\n  "beige": [245,245,220,1],\n  "bisque": [255,228,196,1],\n  "black": [0,0,0,1],\n  "blanchedalmond": [255,235,205,1],\n  "blue": [0,0,255,1],\n  "blueviolet": [138,43,226,1],\n  "brown": [165,42,42,1],\n  "burlywood": [222,184,135,1],\n  "cadetblue": [95,158,160,1],\n  "chartreuse":\n  [127,255,0,1],\n  "chocolate": [210,105,30,1],\n  "coral": [255,127,80,1],\n  "cornflowerblue": [100,149,237,1],\n  "cornsilk": [255,248,220,1],\n  "crimson": [220,20,60,1],\n  "cyan": [0,255,255,1],\n  "darkblue": [0,0,139,1],\n  "darkcyan": [0,139,139,1],\n  "darkgoldenrod": [184,134,11,1],\n  "darkgray": [169,169,169,1],\n  "darkgreen":\n  [0,100,0,1],\n  "darkgrey": [169,169,169,1],\n  "darkkhaki": [189,183,107,1],\n  "darkmagenta": [139,0,139,1],\n  "darkolivegreen": [85,107,47,1],\n  "darkorange": [255,140,0,1],\n  "darkorchid": [153,50,204,1],\n  "darkred":\n  [139,0,0,1],\n  "darksalmon": [233,150,122,1],\n  "darkseagreen": [143,188,143,1],\n  "darkslateblue":\n  [72,61,139,1],\n  "darkslategray": [47,79,79,1],\n  "darkslategrey": [47,79,79,1],\n  "darkturquoise":\n  [0,206,209,1],\n  "darkviolet": [148,0,211,1],\n  "deeppink": [255,20,147,1],\n  "deepskyblue": [0,191,255,1],\n  "dimgray": [105,105,105,1],\n  "dimgrey": [105,105,105,1],\n  "dodgerblue": [30,144,255,1],\n  "firebrick":\n  [178,34,34,1],\n  "floralwhite": [255,250,240,1],\n  "forestgreen": [34,139,34,1],\n  "fuchsia": [255,0,255,1],\n  "gainsboro": [220,220,220,1],\n  "ghostwhite": [248,248,255,1],\n  "gold": [255,215,0,1],\n  "goldenrod":\n  [218,165,32,1],\n  "gray": [128,128,128,1],\n  "green": [0,128,0,1],\n  "greenyellow": [173,255,47,1],\n  "grey":\n  [128,128,128,1],\n  "honeydew": [240,255,240,1],\n  "hotpink": [255,105,180,1],\n  "indianred": [205,92,92,1],\n  "indigo": [75,0,130,1],\n  "ivory": [255,255,240,1],\n  "khaki": [240,230,140,1],\n  "lavender": [230,230,250,1],\n  "lavenderblush": [255,240,245,1],\n  "lawngreen": [124,252,0,1],\n  "lemonchiffon": [255,250,205,1],\n}

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"lightblue": [173,216,230,1], "lightcoral": [240,128,128,1],\n "lightcyan":
[224,255,255,1], "lightgoldenrodyellow": [250,250,210,1],\n "lightgray": [211,211,211,1], "lightgreen":
[144,238,144,1],\n "lightgrey": [211,211,211,1], "lightpink": [255,182,193,1],\n "lightsalmon":
[255,160,122,1], "lightseagreen": [32,178,170,1],\n "lightskyblue": [135,206,250,1], "lightslategray":
[119,136,153,1],\n "lightslategrey": [119,136,153,1], "lightsteelblue": [176,196,222,1],\n "lightyellow":
[255,255,224,1], "lime": [0,255,0,1],\n "limegreen": [50,205,50,1], "linen": [250,240,230,1],\n "magenta":
[255,0,255,1], "maroon": [128,0,0,1],\n "mediumaquamarine": [102,205,170,1], "mediumblue": [0,0,205,1],\n
"mediumorchid": [186,85,211,1], "mediumpurple": [147,112,219,1],\n "mediumseagreen": [60,179,113,1],
"mediumslateblue": [123,104,238,1],\n "mediumspringgreen": [0,250,154,1], "mediumturquoise":
[72,209,204,1],\n "mediumvioletred": [199,21,133,1], "midnightblue": [25,25,112,1],\n "mintcream":
[245,255,250,1],
"mistyrose": [255,228,225,1],\n "moccasin": [255,228,181,1], "navajowhite": [255,222,173,1],\n "navy":
[0,0,128,1], "oldlace": [253,245,230,1],\n "olive": [128,128,0,1], "olivedrab": [107,142,35,1],\n "orange":
[255,165,0,1], "orangered": [255,69,0,1],\n "orchid": [218,112,214,1], "palegoldenrod": [238,232,170,1],\n
"palegreen": [152,251,152,1], "paleturquoise": [175,238,238,1],\n "palevioletred": [219,112,147,1],
"papayawhip": [255,239,213,1],\n "peachpuff": [255,218,185,1], "peru": [205,133,63,1],\n "pink":
[255,192,203,1], "plum": [221,160,221,1],\n "powderblue": [176,224,230,1], "purple": [128,0,128,1],\n
"rebeccapurple": [102,51,153,1],\n "red": [255,0,0,1], "rosybrown": [188,143,143,1],\n "royalblue":
[65,105,225,1], "saddlebrown": [139,69,19,1],\n "salmon": [250,128,114,1], "sandybrown": [244,164,96,1],\n
"seagreen": [46,139,87,1], "seashell": [255,245,238,1],\n "sienna": [160,82,45,1], "silver":
[192,192,192,1],\n "skyblue": [135,206,235,1], "slateblue": [106,90,205,1],\n "slategray": [112,128,144,1],
"slategrey": [112,128,144,1],\n "snow": [255,250,250,1], "springgreen": [0,255,127,1],\n "steelblue":
[70,130,180,1], "tan": [210,180,140,1],\n "teal": [0,128,128,1], "thistle": [216,191,216,1],\n "tomato":
[255,99,71,1], "turquoise": [64,224,208,1],\n "violet": [238,130,238,1], "wheat": [245,222,179,1],\n "white":
[255,255,255,1], "whitesmoke": [245,245,245,1],\n "yellow": [255,255,0,1], "yellowgreen":
[154,205,50,1]
\n\nfunction clamp_css_byte(i) { // Clamp to integer 0 .. 255.\n  i = Math.round(i); // Seems to be
what Chrome does (vs truncation).\n  return i < 0 ? 0 : i > 255 ? 255 : i;\n}\n\nfunction clamp_css_float(f) { //
Clamp to float 0.0 .. 1.0.\n  return f < 0 ? 0 : f > 1 ? 1 : f;\n}\n\nfunction parse_css_int(str) { // int or percentage.\n
if (str[str.length - 1] === '%')\n  return clamp_css_byte(parseFloat(str) /
100 * 255);\n  return clamp_css_byte(parseInt(str));\n}\n\nfunction parse_css_float(str) { // float or percentage.\n
if (str[str.length - 1] === '%')\n  return clamp_css_float(parseFloat(str) / 100);\n  return
clamp_css_float(parseFloat(str));\n}\n\nfunction css_hue_to_rgb(m1, m2, h) {\n  if (h < 0) h += 1;\n  else if (h > 1)
h -= 1;\n  if (h * 6 < 1) return m1 + (m2 - m1) * h * 6;\n  if (h * 2 < 1) return m2;\n  if (h * 3 < 2) return m1 + (m2
- m1) * (2/3 - h) * 6;\n  return m1;\n}\n}\n\nfunction parseCSSColor(css_str) {\n  // Remove all whitespace, not
compliant, but should just be more accepting.\n  var str = css_str.replace(/ /g, '').toLowerCase();\n  // Color
keywords (and transparent) lookup.\n  if (str in kCSSColorTable) return kCSSColorTable[str].slice(); // dup.\n  //
#abc and #abc123 syntax.\n  if (str[0] === '#') {\n    if (str.length === 4) {\n      var iv = parseInt(str.substr(1), 16); //
TODO(deanm): Stricter parsing.\n      if (!(iv >= 0 && iv <= 0xffff)) return
null; // Covers NaN.\n      return [((iv & 0xf00) >> 4) | ((iv & 0xf00) >> 8),\n        (iv & 0xf0) | ((iv & 0xf0) >>
4),\n        (iv & 0xf) | ((iv & 0xf) << 4),\n        1];\n    } else if (str.length === 7) {\n      var iv =
parseInt(str.substr(1), 16); // TODO(deanm): Stricter parsing.\n      if (!(iv >= 0 && iv <= 0xfffffff)) return null; //
Covers NaN.\n      return [(iv & 0xff0000) >> 16,\n        (iv & 0xff00) >> 8,\n        iv & 0xff,\n        1];\n    }\n  }\n  return null;\n}\n}\n\nvar op = str.indexOf('('), ep = str.indexOf('');\n  if (op !== -1 && ep + 1 === str.length)
{\n    var fname = str.substr(0, op);\n    var params = str.substr(op+1, ep-(op+1)).split(',');\n    var alpha = 1; // To
allow case fallthrough.\n    switch (fname) {\n      case 'rgba':\n        if (params.length !== 4) return null;\n        alpha
= parse_css_float(params.pop());\n        // Fall through.\n      case 'rgb':\n        if (params.length !== 3) return
null;\n        return [parse_css_int(params[0]),\n          parse_css_int(params[1]),\n          parse_css_int(params[2]),\n          alpha];\n      case 'hsla':\n        if (params.length !== 4) return null;\n        alpha

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ResolvedImage | null, scale: number | null, fontStack: string | null, textColor: Color | null) {\n    this.text = text;\n    this.image = image;\n    this.scale = scale;\n    this.fontStack = fontStack;\n    this.textColor = textColor;\n  }\n}\n\nexport default class Formatted {\n  sections: Array<FormattedSection>;\n  constructor(sections: Array<FormattedSection>) {\n    this.sections = sections;\n  }\n  static fromString(unformatted: string): Formatted {\n    return new Formatted([new FormattedSection(unformatted, null, null, null, null)];\n  }\n  isEmpty(): boolean {\n    if (this.sections.length === 0) return true;\n    return !this.sections.some(section => section.text.length !== 0 ||\n      (section.image && section.image.name.length !== 0));\n  }\n  static factory(text: Formatted | string): Formatted {\n    if (text instanceof Formatted) {\n      return text;\n    } else {\n      return Formatted.fromString(text);\n    }\n  }\n  toString(): string {\n    if (this.sections.length === 0) return ";\n    return this.sections.map(section => section.text).join(");\n  }\n  serialize(): Array<mixed> {\n    const serialized: Array<mixed> = ["format"];\n    for (const section of this.sections) {\n      if (section.image) {\n        serialized.push(["image", section.image.name]);\n        continue;\n      }\n      serialized.push(section.text);\n      const options: { [key: string]: mixed } = {};\n      if (section.fontStack) {\n        options["text-font"] = ["literal", section.fontStack.split(',')];\n      }\n      if (section.scale) {\n        options["font-scale"] = section.scale;\n      }\n      if (section.textColor) {\n        options["text-color"] = ([ "rgba" ]: Array<mixed>).concat(section.textColor.toArray());\n      }\n      serialized.push(options);\n    }\n    return serialized;\n  }\n}\n\n"}\n\n// @flow\n\nexport type ResolvedImageOptions = {\n  name: string,\n  available: boolean\n};\n\nexport default class ResolvedImage {\n  name: string;\n  available: boolean;\n  constructor(options: ResolvedImageOptions) {\n    this.name = options.name;\n    this.available = options.available;\n  }\n  toString(): string {\n    return this.name;\n  }\n  static fromString(name: string): ResolvedImage | null {\n    if (!name) return null; // treat empty values as no image\n    return new ResolvedImage({name, available: false});\n  }\n  serialize(): Array<string> {\n    return ["image", this.name];\n  }\n}\n\n"}\n\n// @flow\n\nimport assert from 'assert';\nimport Color from '../util/color';\nimport Collator from './types/collator';\nimport Formatted from './types/formatted';\nimport ResolvedImage from './types/resolved_image';\nimport {NullType, NumberType, StringType, BooleanType, ColorType, ObjectType, ValueType, CollatorType, FormattedType, ResolvedImageType, array} from './types';\nimport type {Type} from './types';\n\nexport function validateRGBA(r: mixed, g: mixed, b: mixed, a?: mixed): string | null {\n  if (!(typeof r === 'number' && r >= 0 && r <= 255 &&\n    typeof g === 'number' && g >= 0 && g <= 255 &&\n    typeof b === 'number' && b >= 0 && b <= 255\n  )) {\n    const value = typeof a === 'number' ? [r, g, b, a] : [r, g, b];\n    return `Invalid rgba value [${value.join(', ')}]: 'r', 'g', and 'b' must be between 0 and 255.`;\n  }\n  if (!(typeof a === 'undefined' || (typeof a === 'number' && a >= 0 && a <= 1)\n  )) {\n    return `Invalid rgba value [${[r, g, b, a].join(', ')}]: 'a' must be between 0 and 1.`;\n  }\n  return null;\n}\n\nexport type Value = null | string | boolean | number | Color | Collator | Formatted | ResolvedImage | $ReadOnlyArray<Value> | {[string]: Value}\n\nexport function isValue(mixed: mixed): boolean {\n  if (mixed === null) {\n    return true;\n  } else if (typeof mixed === 'string') {\n    return true;\n  } else if (typeof mixed === 'boolean') {\n    return true;\n  } else if (typeof mixed === 'number') {\n    return true;\n  } else if (mixed instanceof Color) {\n    return true;\n  } else if (mixed instanceof Collator) {\n    return true;\n  } else if (mixed instanceof Formatted) {\n    return true;\n  } else if (mixed instanceof ResolvedImage) {\n    return true;\n  } else if (Array.isArray(mixed)) {\n    for (const item of mixed) {\n      if (!isValue(item)) {\n        return false;\n      }\n    }\n    return true;\n  } else if (typeof mixed === 'object') {\n    for (const key in mixed) {\n      if (!isValue(mixed[key])) {\n        return false;\n      }\n    }\n    return true;\n  } else {\n    return false;\n  }\n}\n\nexport function typeOf(value: Value): Type {\n  if (value === null) {\n    return NullType;\n  } else if (typeof value === 'string') {\n    return StringType;\n  } else if (typeof value === 'boolean') {\n    return BooleanType;\n  } else if (typeof value === 'number') {\n    return NumberType;\n  } else if (value instanceof

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Color) {\n    return ColorType;\n  } else if (value instanceof Collator) {\n    return CollatorType;\n  } else if
(value instanceof Formatted) {\n    return FormattedType;\n  } else if (value instanceof ResolvedImage) {\n
return ResolvedImageType;\n  } else if (Array.isArray(value)) {\n    const length = value.length;\n    let
itemType: Type | typeof undefined;\n\n    for (const item of value) {\n      const t = typeof(item);\n      if
(!itemType) {\n        itemType = t;\n      } else if (itemType === t) {\n        continue;\n      } else {\n
        itemType = ValueType;\n        break;\n      }\n    }\n\n    return array(itemType || ValueType,
length);\n  } else {\n    assert(typeof value === 'object');\n    return ObjectType;\n  }\n}\n\nexport function
toString(value: Value) {\n  const type = typeof value;\n  if (value === null) {\n    return '';\n  } else if (type
=== 'string' || type === 'number' || type === 'boolean') {\n    return String(value);\n  } else if (value instanceof
Color || value instanceof Formatted || value instanceof ResolvedImage) {\n    return value.toString();\n  } else {\n
return JSON.stringify(value);\n  }\n}\n\nexport {Color, Collator};\n", "// @flow\n\nimport assert from
'assert';\nimport {isValue, typeof, Color} from './values';\nimport Formatted from './types/formatted';\n\nimport
type {Type} from './types';\nimport type {Value} from './values';\nimport type {Expression} from
'./expression';\nimport type ParsingContext from './parsing_context';\n\nclass Literal implements Expression {\n
type: Type;\n  value: Value;\n\n  constructor(type: Type,\n    value: Value) {\n    this.type = type;\n    this.value = value;\n  }\n\n  static parse(args:
$ReadOnlyArray<mixed>, context: ParsingContext) {\n    if (args.length !== 2)\n      return
context.error(`literal expression requires exactly one argument, but found ${args.length - 1} instead.`);\n\n    if
(!isValue(args[1]))\n      return context.error(`invalid value`);\n\n    const value = (args[1]: any);\n    let type
= typeof(value);\n\n    // special case: infer the item type if possible for zero-length arrays\n    const expected =
context.expectedType;\n    if (\n      type.kind === 'array' &&\n      type.N === 0 &&\n      expected
&&\n      expected.kind === 'array' &&\n      (typeof expected.N !== 'number' || expected.N === 0)\n    )\n      {\n        type = expected;\n      }\n\n    return new Literal(type, value);\n  }\n\n  evaluate() {\n    return
this.value;\n  }\n\n  eachChild()\n  {\n\n  }\n\n  outputDefined() {\n    return true;\n  }\n\n  serialize(): Array<mixed> {\n    if (this.type.kind ===
'array' || this.type.kind === 'object') {\n      return [\"literal\", this.value];\n    } else if (this.value instanceof
Color) {\n      // Constant-folding can generate Literal expressions that you\n      // couldn't actually generate
with a \"literal\" expression,\n      // so we have to implement an equivalent serialization here\n      return
[\"rgba\"].concat(this.value.toArray());\n    } else if (this.value instanceof Formatted) {\n      // Same as
Color\n      return this.value.serialize();\n    } else {\n      assert(this.value === null ||\n        typeof
this.value === 'string' ||\n        typeof this.value === 'number' ||\n        typeof this.value === 'boolean');\n      return (this.value: any);\n    }\n  }\n}\n\nexport default Literal;\n", "// @flow\n\nclass
RuntimeError {\n  name: string;\n  message: string;\n\n  constructor(message: string) {\n    this.name =
'ExpressionEvaluationError';\n    this.message = message;\n  }\n\n  toJSON() {\n    return this.message;\n  }\n}\n\nexport default RuntimeError;\n", "// @flow\n\nimport assert from 'assert';\n\nimport {\n  ObjectType,\n  ValueType,\n  StringType,\n  NumberType,\n  BooleanType,\n  checkSubtype,\n  toString,\n  array\n} from
'./types';\nimport RuntimeError from './runtime_error';\nimport {typeof} from './values';\n\nimport type
{Expression} from './expression';\nimport type ParsingContext from './parsing_context';\nimport type
EvaluationContext from './evaluation_context';\nimport type {Type} from './types';\n\nconst types = {\n  string:
StringType,\n  number: NumberType,\n  boolean: BooleanType,\n  object: ObjectType\n};\n\nclass Assertion
implements Expression {\n  type: Type;\n  args: Array<Expression>;\n\n  constructor(type:
Type, args: Array<Expression>) {\n    this.type = type;\n    this.args = args;\n  }\n\n  static parse(args:
$ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n    if (args.length < 2)\n      return
context.error(`Expected at least one argument.`);\n\n    let i = 1;\n    let type;\n\n    const name: string =
(args[0]: any);\n    if (name === 'array') {\n      let itemType;\n      if (args.length > 2) {\n        const
type = args[1];\n        if (typeof type !== 'string' || !(type in types) || type === 'object')\n          return
context.error(`The item type argument of \"array\" must be one of string, number, boolean`, 1);\n        itemType

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= types[type];\n      i++;\n      } else {\n      itemType = ValueType;\n      }\n      let N;\n      if (args.length > 3) {\n      if (args[2] !== null &&\n      (typeof args[2] !==\n      'number' ||\n      args[2] < 0 ||\n      args[2] !== Math.floor(args[2]))\n      ) {\n      return context.error("The length argument to \"array\" must be a positive integer literal", 2);\n      }\n      N = args[2];\n      i++;\n      }\n      type = array(itemType, N);\n      } else {\n      assert(types[name], name);\n      type = types[name];\n      }\n      const parsed = [];\n      for (; i <\n      args.length; i++) {\n      const input = context.parse(args[i], i, ValueType);\n      if (!input) return null;\n      parsed.push(input);\n      }\n      return new Assertion(type, parsed);\n      }\n      evaluate(ctx:\n      EvaluationContext) {\n      for (let i = 0; i < this.args.length; i++) {\n      const value =\n      this.args[i].evaluate(ctx);\n      const error = checkSubtype(this.type, typeof(value));\n      if (!error) {\n      return value;\n      } else if (i === this.args.length - 1) {\n      throw new RuntimeError(`Expected\n      value to be of type ${toString(this.type)}, but found ${toString(typeof(value))}\n      instead.`);\n      }\n      }\n      assert(false);\n      return null;\n      }\n      eachChild(fn: (_: Expression) => void) {\n      this.args.forEach(fn);\n      }\n      outputDefined(): boolean {\n      return this.args.every(arg => arg.outputDefined());\n      }\n      serialize():\n      Array<mixed> {\n      const type = this.type;\n      const serialized = [type.kind];\n      if (type.kind === 'array')\n      {\n      const itemType = type.itemType;\n      if (itemType.kind === 'string' ||\n      itemType.kind ===\n      'number' ||\n      itemType.kind === 'boolean') {\n      serialized.push(itemType.kind);\n      }\n      const\n      N = type.N;\n      if (typeof N === 'number' || this.args.length > 1) {\n      serialized.push(N);\n      }\n      }\n      return serialized.concat(this.args.map(arg =>\n      arg.serialize()));\n      }\n      }\n      export default Assertion;\n      " , /* @flow\n      \n      import {NumberType, ValueType,\n      FormattedType, array, StringType, ColorType, ResolvedImageType} from './types';\n      import Formatted,\n      {FormattedSection} from './types/formatted';\n      import {toString, typeof} from './values';\n      import type\n      {Expression} from './expression';\n      import type EvaluationContext from './evaluation_context';\n      import type\n      ParsingContext from './parsing_context';\n      import type {Type} from './types';\n      \n      type FormattedSectionExpression\n      = {\n      // Content of a section may be Image expression or other\n      // type of expression that is coercable to\n      'string'\n      content: Expression,\n      scale: Expression | null;\n      font: Expression | null;\n      textColor: Expression | null;\n      }\n      \n      export default class FormatExpression implements Expression {\n      type: Type;\n      sections:\n      Array<FormattedSectionExpression>;\n      constructor(sections: Array<FormattedSectionExpression>) {\n      this.type = FormattedType;\n      this.sections = sections;\n      }\n      \n      static parse(args: $ReadOnlyArray<mixed>,\n      context: ParsingContext): ?Expression {\n      if (args.length < 2) {\n      return context.error(`Expected at least\n      one argument.`);\n      }\n      \n      const firstArg = args[1];\n      if (!Array.isArray(firstArg) && typeof firstArg\n      === 'object') {\n      return context.error(`First argument must be an image or text section.`);\n      }\n      \n      const sections: Array<FormattedSectionExpression> = [];\n      let nextTokenMayBeObject = false;\n      for (let i\n      = 1; i <= args.length - 1; ++i) {\n      const arg = (args[i]: any);\n      if (nextTokenMayBeObject && typeof\n      arg === \"object\" && !Array.isArray(arg)) {\n      nextTokenMayBeObject = false;\n      \n      let scale =\n      null;\n      if (arg['font-scale'])\n      {\n      scale = context.parse(arg['font-scale'], 1, NumberType);\n      if (!scale) return null;\n      }\n      \n      let font = null;\n      if (arg['text-font']) {\n      font = context.parse(arg['text-font'], 1,\n      array(StringType));\n      if (!font) return null;\n      }\n      \n      let textColor = null;\n      if\n      (arg['text-color']) {\n      textColor = context.parse(arg['text-color'], 1, ColorType);\n      if\n      (!textColor) return null;\n      }\n      \n      const lastExpression = sections[sections.length - 1];\n      lastExpression.scale = scale;\n      lastExpression.font = font;\n      lastExpression.textColor =\n      textColor;\n      } else {\n      const content = context.parse(args[i], 1, ValueType);\n      if (!content)\n      return null;\n      \n      const\n      kind = content.type.kind;\n      if (kind !== 'string' && kind !== 'value' && kind !== 'null' && kind !==\n      'resolvedImage')\n      return context.error(`Formatted text type must be 'string', 'value', 'image' or\n      'null'.`);\n      \n      nextTokenMayBeObject = true;\n      sections.push({content, scale: null, font: null,\n      textColor: null});\n      }\n      }\n      \n      return new FormatExpression(sections);\n      }\n      \n      evaluate(ctx:

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return context.error(`Expected one argument.`);\n\n    const type = types[name];\n\n    const parsed = [];\n\n    for (let i = 1; i < args.length; i++) {\n        const input = context.parse(args[i], i, ValueType);\n        if (!input)\n            return null;\n        parsed.push(input);\n    }\n\n    return new Coercion(type, parsed);\n\n    evaluate(ctx: EvaluationContext) {\n        if (this.type.kind ===\n        'boolean') {\n            return Boolean(this.args[0].evaluate(ctx));\n        } else if (this.type.kind === 'color') {\n            let input;\n            let error;\n            for (const arg of this.args) {\n                input = arg.evaluate(ctx);\n                error = null;\n                if (input instanceof Color) {\n                    return input;\n                } else if (typeof input\n                === 'string') {\n                    const c = ctx.parseColor(input);\n                    if (c) return c;\n                } else if\n                (Array.isArray(input)) {\n                    if (input.length < 3 || input.length > 4) {\n                        error = `Invalid rgba\n                        value ${JSON.stringify(input)}: expected an array containing either three or four numeric values.`;\n                    }\n                    else {\n                        error = validateRGBA(input[0], input[1], input[2],\n                        input[3]);\n                    }\n                    if (!error) {\n                        return new Color((input[0]: any) / 255,\n                        (input[1]: any) / 255, (input[2]: any) / 255, (input[3]: any));\n                    }\n                    throw\n                    new RuntimeError(error || `Could not parse color from value '${typeof input === 'string' ? input :\n                    String(JSON.stringify(input))}'`);\n                } else if (this.type.kind === 'number') {\n                    let value = null;\n                    for (const arg of this.args) {\n                        value = arg.evaluate(ctx);\n                        if (value === null) return 0;\n                    }\n                    const num = Number(value);\n                    if (isNaN(num)) continue;\n                    return num;\n                }\n                throw\n                new RuntimeError(`Could not convert ${JSON.stringify(value)} to number.`);\n            } else if (this.type.kind ===\n            'formatted') {\n                // There is no explicit 'to-formatted' but this coercion can be implicitly\n                // created by properties that expect the 'formatted' type.\n                return\n                Formatted.fromString(valueToString(this.args[0].evaluate(ctx))); \n            } else if (this.type.kind ===\n            'resolvedImage') {\n                return ResolvedImage.fromString(valueToString(this.args[0].evaluate(ctx))); \n            }\n            else {\n                return valueToString(this.args[0].evaluate(ctx)); \n            }\n        }\n\n        eachChild(fn: (_: Expression) =>\n        void) {\n            this.args.forEach(fn);\n        }\n\n        outputDefined(): boolean {\n            return this.args.every(arg =>\n            arg.outputDefined());\n        }\n\n        serialize() {\n            if (this.type.kind === 'formatted') {\n                return new\n                FormatExpression({content: this.args[0], scale: null, font: null, textColor: null}).serialize();\n            }\n            if\n            (this.type.kind === 'resolvedImage') {\n                return new ImageExpression(this.args[0]).serialize();\n            }\n            const serialized = [to-${this.type.kind}];\n            this.eachChild(child\n            => { serialized.push(child.serialize()); });\n            return serialized;\n        }\n    }\n\n    export default Coercion;\n\n    @flow\n    import {Color} from './values';\n    import type {FormattedSection} from './types/formatted';\n    import type\n    {GlobalProperties, Feature, FeatureState} from './index';\n    import type {CanonicalTileID} from\n    './../source/tile_id';\n    const geometryTypes = ['Unknown', 'Point', 'LineString', 'Polygon'];\n    class\n    EvaluationContext {\n        globals: GlobalProperties;\n        feature: ?Feature;\n        featureState: ?FeatureState;\n        formattedSection: ?FormattedSection;\n        availableImages: Array<string>;\n        canonical: ?CanonicalTileID;\n\n        _parseColorCache: {[_: string]: ?Color};\n\n        constructor() {\n            this.globals = (null: any);\n            this.feature =\n            null;\n            this.featureState = null;\n            this.formattedSection = null;\n            this._parseColorCache = {};\n            this.availableImages = null;\n            this.canonical = null;\n        }\n\n        id()\n        {\n            return this.feature && 'id' in this.feature ? this.feature.id : null;\n        }\n\n        geometryType() {\n            return\n            this.feature ? typeof this.feature.type === 'number' ? geometryTypes[this.feature.type] : this.feature.type : null;\n        }\n\n        geometry() {\n            return this.feature && 'geometry' in this.feature ? this.feature.geometry : null;\n        }\n\n        canonicalID() {\n            return this.canonical;\n        }\n\n        properties() {\n            return this.feature &&\n            this.feature.properties || {};\n        }\n\n        parseColor(input: string): ?Color {\n            let cached =\n            this._parseColorCache[input];\n            if (!cached) {\n                cached = this._parseColorCache[input] =\n                Color.parse(input);\n            }\n            return cached;\n        }\n    }\n\n    export default EvaluationContext;\n\n    @flow\n    import {toString} from './types';\n    import ParsingContext from './parsing_context';\n    import\n    EvaluationContext from './evaluation_context';\n    import assert from 'assert';\n    import type {Expression,\n    ExpressionRegistry} from './expression';\n    import type {Type} from './types';\n    import type {Value} from\n    './values';\n    export type Varargs = {| type: Type |};\n    type Signature = Array<Type> | Varargs;\n    type Evaluate =

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(EvaluationContext, Array<Expression>) => Value;\n
type Definition = [Type, Signature, Evaluate] \n
{type: Type, overloads: Array<[Signature, Evaluate]>};\n
\nclass CompoundExpression implements Expression {\n
name: string;\n
type: Type;\n
_evaluate: Evaluate;\n
args: Array<Expression>;\n
static definitions: {[_: string]: Definition };\n
constructor(name: string, type: Type, evaluate: Evaluate, args: Array<Expression>) {\n
this.name = name;\n
this.type = type;\n
this._evaluate = evaluate;\n
this.args = args;\n
}\n
evaluate(ctx: EvaluationContext) {\n
return this._evaluate(ctx, this.args);\n
}\n
eachChild(fn: (_: Expression) => void) {\n
this.args.forEach(fn);\n
}\n
outputDefined() {\n
return false;\n
}\n
serialize(): Array<mixed> {\n
return [this.name].concat(this.args.map(arg => arg.serialize()));\n
}\n
static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n
const op: string = (args[0]: any);\n
const definition = CompoundExpression.definitions[op];\n
if (!definition) {\n
return context.error(`Unknown expression \"${op}\". If you wanted a literal array, use [\"literal\", [...]].`, 0);\n
}\n
// Now check argument types against each signature\n
const type = Array.isArray(definition) ?\n
definition[0] : definition.type;\n
const availableOverloads = Array.isArray(definition) ?\n
[[definition[1], definition[2]]] :\n
definition.overloads;\n
const overloads = availableOverloads.filter((signature) => (\n
!Array.isArray(signature) || // varargs\n
signature.length === args.length - 1 // correct param count\n
));\n
let signatureContext: ParsingContext = (null: any);\n
for (const [params, evaluate] of overloads) {\n
// Use a fresh context for each attempted signature so that, if\n
// we eventually succeed, we haven't polluted `context.errors`.\n
signatureContext = new ParsingContext(context.registry, context.path, null, context.scope);\n
// First parse all the args, potentially coercing to the\n
// types expected by this overload.\n
const parsedArgs: Array<Expression> = [];\n
let argParseFailed = false;\n
for (let i = 1; i < args.length; i++) {\n
const arg = args[i];\n
const expectedType = Array.isArray(params) ?\n
params[i - 1] :\n
params.type;\n
const parsed = signatureContext.parse(arg, 1 + parsedArgs.length, expectedType);\n
if (!parsed) {\n
argParseFailed = true;\n
break;\n
}\n
parsedArgs.push(parsed);\n
}\n
if (argParseFailed) {\n
// Couldn't coerce args of this overload to expected type, move\n
// on to next one.\n
continue;\n
}\n
if (Array.isArray(params)) {\n
if (params.length !== parsedArgs.length) {\n
signatureContext.error(`Expected ${params.length} arguments, but found ${parsedArgs.length} instead.`);\n
continue;\n
}\n
}\n
for (let i = 0; i < parsedArgs.length; i++) {\n
const expected = Array.isArray(params) ?\n
params[i] :\n
params.type;\n
const arg = parsedArgs[i];\n
signatureContext.concat(i + 1).checkSubtype(expected, arg.type);\n
}\n
if (signatureContext.errors.length === 0) {\n
return new CompoundExpression(op, type, evaluate, parsedArgs);\n
}\n
}\n
assert(!signatureContext || signatureContext.errors.length > 0);\n
if (overloads.length === 1) {\n
context.errors.push(...signatureContext.errors);\n
} else {\n
const expected = overloads.length ?\n
overloads :\n
availableOverloads;\n
const signatures = expected.map(([params]) => stringifySignature(params)).join(' |');\n
const actualTypes = []; // For error message, re-parse arguments without trying to\n
// apply any coercions\n
for (let i = 1; i < args.length; i++) {\n
const parsed = context.parse(args[i], 1 + actualTypes.length);\n
if (!parsed) return null;\n
actualTypes.push(toString(parsed.type));\n
}\n
context.error(`Expected arguments of type ${signatures}, but found (${actualTypes.join(', ')}) instead.`);\n
}\n
return null;\n
}\n
static register(\n
registry: ExpressionRegistry,\n
definitions: {[_: string]: Definition } \n
) {\n
assert(!CompoundExpression.definitions);\n
CompoundExpression.definitions = definitions;\n
for (const name in definitions) {\n
registry[name] = CompoundExpression;\n
}\n
}\n
}\n
\n
function stringifySignature(signature: Signature): string {\n
if (Array.isArray(signature)) {\n
return `(${signature.map(toString).join(', ')}`;\n
} else {\n
return `(${toString(signature.type)}...)`;\n
}\n
}\n
\n
export default CompoundExpression;\n
\"\" @flow\n
\n
import {StringType, BooleanType, CollatorType} from './types';\n
import Collator from './types/collator';\n
import type {Expression} from './expression';\n
import

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type EvaluationContext from './evaluation_context';\nimport type ParsingContext from './parsing_context';\nimport
type {Type} from './types';\n\nexport
default class CollatorExpression implements Expression {\n  type: Type;\n  caseSensitive: Expression;\n  diacriticSensitive: Expression;\n  locale: Expression | null;\n  constructor(caseSensitive: Expression,
diacriticSensitive: Expression, locale: Expression | null) {\n    this.type = CollatorType;\n    this.locale =
locale;\n    this.caseSensitive = caseSensitive;\n    this.diacriticSensitive = diacriticSensitive;\n  }\n  static
parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n    if (args.length !== 2)\nreturn context.error(`Expected one argument.`);\n    const options = (args[1]: any);\n    if (typeof options !==
`object` || Array.isArray(options))\n      return context.error(`Collator options argument must be an
object.`);\n    const caseSensitive = context.parse(\n      options['case-sensitive'] === undefined ? false :
options['case-sensitive'], 1, BooleanType);\n    if
(!caseSensitive) return null;\n    const diacriticSensitive = context.parse(\n      options['diacritic-sensitive']
=== undefined ? false : options['diacritic-sensitive'], 1, BooleanType);\n    if (!diacriticSensitive) return null;\n\n
let locale = null;\n    if (options['locale']) {\n      locale = context.parse(options['locale'], 1, StringType);\n
if (!locale) return null;\n    }\n    return new CollatorExpression(caseSensitive, diacriticSensitive, locale);\n
}\n\n  evaluate(ctx: EvaluationContext) {\n    return new Collator(this.caseSensitive.evaluate(ctx),
this.diacriticSensitive.evaluate(ctx), this.locale ? this.locale.evaluate(ctx) : null);\n  }\n\n  eachChild(fn: (_:
Expression) => void) {\n    fn(this.caseSensitive);\n    fn(this.diacriticSensitive);\n    if (this.locale) {\n
fn(this.locale);\n    }\n  }\n\n  outputDefined() {\n    // Technically the set of possible outputs is
the combinatoric set of Collators produced\n    // by all possible outputs of
locale/caseSensitive/diacriticSensitive\n    // But for the primary use of Collators in comparison operators, we
ignore the Collator's\n    // possible outputs anyway, so we can get away with leaving this false for now.\n
return false;\n  }\n\n  serialize() {\n    const options = {};\n    options['case-sensitive'] =
this.caseSensitive.serialize();\n    options['diacritic-sensitive'] = this.diacriticSensitive.serialize();\n    if
(this.locale) {\n      options['locale'] = this.locale.serialize();\n    }\n    return [\"collator\", options];\n
}\n}\n\n// @flow\n\nimport {isValue} from './values';\nimport type {Type} from './types';\nimport {BooleanType}
from './types';\nimport type {Expression} from './expression';\nimport type ParsingContext from
'./parsing_context';\nimport type EvaluationContext from './evaluation_context';\nimport type {GeoJSON,
GeoJSONPolygon, GeoJSONMultiPolygon} from '@mapbox/geojson-types';\nimport Point from '@mapbox/point-
geometry';\nimport type {CanonicalTileID} from './../source/tile_id';\n\ntype GeoJSONPolygons = |\nGeoJSONPolygon | GeoJSONMultiPolygon;\n\n// minX, minY, maxX, maxY\ntype BBox = [number, number,
number, number];\nconst EXTENT = 8192;\n\nfunction updateBBox(bbox: BBox, coord: Point) {\n  bbox[0] =
Math.min(bbox[0], coord[0]);\n  bbox[1] = Math.min(bbox[1], coord[1]);\n  bbox[2] = Math.max(bbox[2],
coord[0]);\n  bbox[3] = Math.max(bbox[3], coord[1]);\n}\n\nfunction mercatorXfromLng(lng: number) {\n
return (180 + lng) / 360;\n}\n\nfunction mercatorYfromLat(lat: number) {\n  return (180 - (180 / Math.PI *
Math.log(Math.tan(Math.PI / 4 + lat * Math.PI / 360)))) / 360;\n}\n\nfunction boxWithinBox(bbox1: BBox, bbox2:
BBox) {\n  if (bbox1[0] <= bbox2[0]) return false;\n  if (bbox1[2] >= bbox2[2]) return false;\n  if (bbox1[1] <=
bbox2[1]) return false;\n  if (bbox1[3] >=
bbox2[3]) return false;\n  return true;\n}\n\nfunction getTileCoordinates(p, canonical: CanonicalTileID) {\n
const x = mercatorXfromLng(p[0]);\n  const y = mercatorYfromLat(p[1]);\n  const tilesAtZoom = Math.pow(2,
canonical.z);\n  return [Math.round(x * tilesAtZoom * EXTENT), Math.round(y * tilesAtZoom *
EXTENT)];\n}\n\nfunction onBoundary(p, p1, p2) {\n  const x1 = p[0] - p1[0];\n  const y1 = p[1] - p1[1];\n
const x2 = p[0] - p2[0];\n  const y2 = p[1] - p2[1];\n  return (x1 * y2 - x2 * y1 === 0) && (x1 * x2 <= 0) && (y1
* y2 <= 0);\n}\n\nfunction rayIntersect(p, p1, p2) {\n  return ((p1[1] > p[1]) !== (p2[1] > p[1])) && (p[0] < (p2[0]
- p1[0]) * (p[1] - p1[1]) / (p2[1] - p1[1]) + p1[0]);\n}\n\n// ray casting algorithm for detecting if point is in
polygon\nfunction pointWithinPolygon(point, rings) {\n  let inside = false;\n  for (let i = 0, len = rings.length; i <
len; i++) {\n    const ring = rings[i];\n    for (let j = 0, len2 = ring.length; j <

```

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len2 - 1; j++) {\n        if (onBoundary(point, ring[j], ring[j + 1])) return false;\n        if (rayIntersect(point, ring[j], ring[j + 1])) inside = !inside;\n    }\n    }\n    return inside;\n}\n\nfunction pointWithinPolygons(point, polygons) {\n    for (let i = 0; i < polygons.length; i++) {\n        if (pointWithinPolygon(point, polygons[i])) return true;\n    }\n    return false;\n}\n\nfunction perp(v1, v2) {\n    return (v1[0] * v2[1] - v1[1] * v2[0]);\n}\n\n// check if p1 and p2 are in different sides of line segment q1->q2\nfunction twoSided(p1, p2, q1, q2) {\n    // q1->p1 (x1, y1), q1->p2 (x2, y2), q1->q2 (x3, y3)\n    const x1 = p1[0] - q1[0];\n    const y1 = p1[1] - q1[1];\n    const x2 = p2[0] - q1[0];\n    const y2 = p2[1] - q1[1];\n    const x3 = q2[0] - q1[0];\n    const y3 = q2[1] - q1[1];\n    const det1 = (x1 * y3 - x3 * y1);\n    const det2 = (x2 * y3 - x3 * y2);\n    if ((det1 > 0 && det2 < 0) || (det1 < 0 && det2 > 0)) return true;\n    return false;\n}\n\n// a, b are end points for line segment1, c and d are end points for line segment2\nfunction lineIntersectLine(a, b, c, d) {\n    // check if two segments are parallel or not\n    // precondition is end point a, b is inside polygon, if line a->b is\n    // parallel to polygon edge c->d, then a->b won't intersect with c->d\n    const vectorP = [b[0] - a[0], b[1] - a[1]];\n    const vectorQ = [d[0] - c[0], d[1] - c[1]];\n    if (perp(vectorQ, vectorP) === 0) return false;\n    // If lines are intersecting with each other, the relative location should be:\n    // a and b lie in different sides of segment c->d\n    // c and d lie in different sides of segment a->b\n    if (twoSided(a, b, c, d) && twoSided(c, d, a, b)) return true;\n    return false;\n}\n\nfunction lineIntersectPolygon(p1, p2, polygon) {\n    for (const ring of polygon) {\n        // loop through every edge of the ring\n        for (let j = 0; j < ring.length - 1; ++j) {\n            if (lineIntersectLine(p1, p2, ring[j], ring[j + 1])) {\n                return true;\n            }\n        }\n    }\n    return false;\n}\n\nfunction lineStringWithinPolygon(line, polygon) {\n    // First, check if geometry points of line segments are all inside polygon\n    for (let i = 0; i < line.length; ++i) {\n        if (!pointWithinPolygon(line[i], polygon)) {\n            return false;\n        }\n    }\n    // Second, check if there is line segment intersecting polygon edge\n    for (let i = 0; i < line.length - 1; ++i) {\n        if (lineIntersectPolygon(line[i], line[i + 1], polygon)) {\n            return false;\n        }\n    }\n    return true;\n}\n\nfunction lineStringWithinPolygons(line, polygons) {\n    for (let i = 0; i < polygons.length; i++) {\n        if (lineStringWithinPolygon(line, polygons[i])) return true;\n    }\n    return false;\n}\n\nfunction getTilePolygon(coordinates, bbox, canonical) {\n    const polygon = [];\n    for (let i = 0; i < coordinates.length; i++) {\n        const ring = [];\n        for (let j = 0; j < coordinates[i].length; j++) {\n            const coord = getTileCoordinates(coordinates[i][j], canonical);\n            updateBBox(bbox, coord);\n            ring.push(coord);\n        }\n        polygon.push(ring);\n    }\n    return polygon;\n}\n\nfunction getTilePolygons(coordinates, bbox, canonical) {\n    const polygons = [];\n    for (let i = 0; i < coordinates.length; i++) {\n        const polygon = getTilePolygon(coordinates[i], bbox, canonical);\n        polygons.push(polygon);\n    }\n    return polygons;\n}\n\nfunction updatePoint(p, bbox, polyBBox, worldSize) {\n    if (p[0] < polyBBox[0] || p[0] > polyBBox[2]) {\n        const halfWorldSize = worldSize * 0.5;\n        let shift = (p[0] - polyBBox[0] > halfWorldSize) ? -worldSize : (polyBBox[0] - p[0] > halfWorldSize) ? worldSize : 0;\n        if (shift === 0) {\n            shift = (p[0] - polyBBox[2] > halfWorldSize) ? -worldSize : (polyBBox[2] - p[0] > halfWorldSize) ? worldSize : 0;\n        }\n        p[0] += shift;\n    }\n    updateBBox(bbox, p);\n}\n\nfunction resetBBox(bbox) {\n    bbox[0] = bbox[1] = Infinity;\n    bbox[2] = bbox[3] = -Infinity;\n}\n\nfunction getTilePoints(geometry, pointBBox, polyBBox, canonical) {\n    const worldSize = Math.pow(2, canonical.z) * EXTENT;\n    const shifts = [canonical.x * EXTENT, canonical.y * EXTENT];\n    const tilePoints = [];\n    for (const points of geometry) {\n        for (const point of points) {\n            const p = [point.x + shifts[0], point.y + shifts[1]];\n            updatePoint(p, pointBBox, polyBBox, worldSize);\n            tilePoints.push(p);\n        }\n    }\n    return tilePoints;\n}\n\nfunction getTileLines(geometry, lineBBox, polyBBox, canonical) {\n    const worldSize = Math.pow(2, canonical.z) * EXTENT;\n    const shifts = [canonical.x * EXTENT, canonical.y * EXTENT];\n    const tileLines = [];\n    for (const line of geometry) {\n        const tileLine = [];\n        for (const point of line) {\n            const p = [point.x + shifts[0], point.y + shifts[1]];\n            updateBBox(lineBBox, p);\n            tileLine.push(p);\n        }\n        tileLines.push(tileLine);\n    }\n    if (lineBBox[2] - lineBBox[0] <= worldSize / 2)

```





```

(typeAnnotation ===
'assert') {\n      return new Assertion(type, [parsed]);\n      } else if (typeAnnotation === 'coerce') {\n
return new Coercion(type, [parsed]);\n      } else {\n      return parsed;\n      }\n      }\n      }\n      if
(Array.isArray(expr)) {\n      if (expr.length === 0) {\n      return this.error(`Expected an array with at least
one element. If you wanted a literal array, use [\"literal\", []].`);\n      }\n      const op = expr[0];\n      if
(typeof op !== 'string') {\n      this.error(`Expression name must be a string, but found ${typeof op} instead. If
you wanted a literal array, use [\"literal\", [...]].`, 0);\n      return null;\n      }\n      const Expr =
this.registry[op];\n      if (Expr) {\n      let parsed = Expr.parse(expr, this);\n      if (!parsed) return
null;\n      if (this.expectedType) {\n
const expected = this.expectedType;\n      const actual = parsed.type;\n      // When we expect a
number, string, boolean, or array but have a value, wrap it in an assertion.\n      // When we expect a color
or formatted string, but have a string or value, wrap it in a coercion.\n      // Otherwise, we do static type-
checking.\n      //\n      // These behaviors are overridable for:\n      // * The \"coalesce\"
operator, which needs to omit type annotations.\n      // * String-valued properties (e.g. `text-field`), where
coercion is more convenient than assertion.\n      //\n      if ((expected.kind === 'string' ||
expected.kind === 'number' || expected.kind === 'boolean' || expected.kind === 'object' || expected.kind === 'array')
&& actual.kind === 'value') {\n      parsed = annotate(parsed, expected, options.typeAnnotation
|| 'assert');\n      } else if ((expected.kind === 'color' || expected.kind === 'formatted' || expected.kind ===
'resolvedImage') && (actual.kind === 'value' || actual.kind === 'string')) {\n      parsed = annotate(parsed,
expected, options.typeAnnotation || 'coerce');\n      } else if (this.checkSubtype(expected, actual)) {\n
return null;\n      }\n      }\n      }\n      // If an expression's arguments are all literals, we can
evaluate\n      // it immediately and replace it with a literal value in the\n      // parsed/compiled result.
Expressions that expect an image should\n      // not be resolved here so we can later get the available
images.\n      if (!(parsed instanceof Literal) && (parsed.type.kind !== 'resolvedImage') &&
isConstant(parsed)) {\n      const ec = new EvaluationContext();\n      try {\n
parsed = new Literal(parsed.type, parsed.evaluate(ec));\n      } catch (e) {\n
this.error(e.message);\n      return null;\n      }\n      }\n      return parsed;\n
}\n      return this.error(`Unknown expression \"${op}\". If you wanted a literal array, use [\"literal\", [...]].`,
0);\n      } else if (typeof expr === 'undefined') {\n      return this.error(`undefined` value invalid. Use null
instead.`);\n      } else if (typeof expr === 'object') {\n      return this.error(`Bare objects invalid. Use [\"literal\",
{...}] instead.`);\n      } else {\n      return this.error(`Expected an array, but found ${typeof expr} instead.`);\n
}\n      }\n      }\n      /**\n      * Returns a copy of this context suitable for parsing the subexpression at\n      * index `index`,
optionally appending to `let` binding map.\n      *\n      * Note that `errors` property,
intended for collecting errors while\n      * parsing, is copied by reference rather than cloned.\n      * @private\n
*/\n      concat(index: number, expectedType?: ?Type, bindings?: Array<string, Expression>): {\n      const path =
typeof index === 'number' ? this.path.concat(index) : this.path;\n      const scope = bindings ?
this.scope.concat(bindings) : this.scope;\n      return new ParsingContext(\n      this.registry,\n      path,\n
expectedType || null,\n      scope,\n      this.errors\n      );\n      }\n      /**\n      * Push a parsing (or type
checking) error into the `this.errors`\n      * @param error The message\n      * @param keys Optionally specify the
source of the error at a child\n      * of the current expression at `this.key`.\n      * @private\n      */\n      error(error:
string, ...keys: Array<number>) {\n      const key = `${this.key}${keys.map(k => `[${k}]`).join("")}`;\n
this.errors.push(new ParsingError(key, error));\n
}\n      /**\n      * Returns null if `t` is a subtype of `expected`; otherwise returns an\n      * error message and also
pushes it to `this.errors`.\n      */\n      checkSubtype(expected: Type, t: Type): ?string {\n      const error =
checkSubtype(expected, t);\n      if (error) this.error(error);\n      return error;\n      }\n      }\n      }\n      export default
ParsingContext;\n      function isConstant(expression: Expression) {\n      if (expression instanceof Var) {\n      return
isConstant(expression.boundExpression);\n      } else if (expression instanceof CompoundExpression &&
expression.name === 'error') {\n      return false;\n      } else if (expression instanceof CollatorExpression) {\n      //

```

```

Although the results of a Collator expression with fixed arguments // generally shouldn't change between
executions, we can't serialize them // as constant expressions because results change based on environment.
return false; } else if (expression instanceof
Within) { return false; }
const isTypeAnnotation = expression instanceof Coercion ||
expression instanceof Assertion;
let childrenConstant = true;
expression.eachChild(child => { // We
can _almost_ assume that if `expressions` children are constant, // they would already have been evaluated to
Literal values when they // were parsed. Type annotations are the exception, because they might // have
been inferred and added after a child was parsed. // So we recurse into isConstant() for the children of type
annotations, // but otherwise simply check whether they are Literals.
if (isTypeAnnotation) {
childrenConstant = childrenConstant && isConstant(child);
} else {
childrenConstant =
childrenConstant && child instanceof Literal;
}
});
if (!childrenConstant) { return false; }
return isFeatureConstant(expression)
&& isGlobalPropertyConstant(expression, ['zoom', 'heatmap-density', 'line-progress', 'accumulated', 'is-
supported-script']);
}
}
/** @flow
import RuntimeError from './runtime_error';
import type {Expression}
from './expression';
export type Stops = Array<[number, Expression]>;
/** Returns the index of the last
stop <= input, or 0 if it doesn't exist.
*/
* @private
*/
export function findStopLessThanOrEqualTo(stops:
Array<number>, input: number) {
const lastIndex = stops.length - 1;
let lowerIndex = 0;
let upperIndex
= lastIndex;
let currentIndex = 0;
let currentValue, nextValue;
while (lowerIndex <= upperIndex) {
currentIndex = Math.floor((lowerIndex + upperIndex) / 2);
currentValue = stops[currentIndex];
nextValue = stops[currentIndex + 1];
if (currentValue <= input) {
if (currentIndex === lastIndex ||
input < nextValue) { // Search complete
return currentIndex;
}
lowerIndex = currentIndex + 1;
} else if (currentValue > input) {
upperIndex =
currentIndex - 1;
} else {
throw new RuntimeError('Input is not a number.');
```

```

const value = ((this.input.evaluate(ctx): any): number);\n    if (value <= labels[0]) {\n        return
outputs[0].evaluate(ctx);\n    }\n    const stopCount = labels.length;\n    if (value >= labels[stopCount - 1])
{\n        return outputs[stopCount - 1].evaluate(ctx);\n    }\n    const index =
findStopLessThanOrEqualTo(labels, value);\n    return outputs[index].evaluate(ctx);\n }\n\n eachChild(fn: (
Expression) => void) {\n    fn(this.input);\n    for (const expression of this.outputs) {\n        fn(expression);\n
    }\n }\n\n outputDefined(): boolean {\n    return this.outputs.every(out => out.outputDefined());\n }\n\n
serialize() {\n    const serialized = [\"step\", this.input.serialize()];\n    for (let i = 0; i < this.labels.length; i++)
{\n        if (i > 0) {\n            serialized.push(this.labels[i]);\n        }\n
        serialized.push(this.outputs[i].serialize());\n    }\n    return serialized;\n }\n}\n\nexport default Step;\n\n\"/*\n * Copyright (C) 2008 Apple Inc. All Rights
Reserved.\n * Redistribution and use in source and binary forms, with or without\n * modification, are permitted
provided that the following conditions\n * are met:\n * 1. Redistributions of source code must retain the above
copyright\n * notice, this list of conditions and the following disclaimer.\n * 2. Redistributions in binary form
must reproduce the above copyright\n * notice, this list of conditions and the following disclaimer in the\n *
documentation and/or other materials provided with the distribution.\n *\n * THIS SOFTWARE IS PROVIDED BY
APPLE INC. ``AS IS'' AND ANY\n * EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE\n * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR\n * PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL APPLE INC. OR\n *
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,\n *
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,\n *
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR\n * PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY\n * OF LIABILITY, WHETHER
IN CONTRACT, STRICT LIABILITY, OR TORT\n * (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE\n * OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.\n *\n * Ported from Webkit\n *
http://svn.webkit.org/repository/webkit/trunk/Source/WebCore/platform/graphics/UnitBezier.h
\n\n *\n\nmodule.exports = UnitBezier;\n\nfunction UnitBezier(p1x, p1y, p2x, p2y) {\n    // Calculate the polynomial
coefficients, implicit first and last control points are (0,0) and (1,1).\n    this.cx = 3.0 * p1x;\n    this.bx = 3.0 * (p2x -
p1x) - this.cx;\n    this.ax = 1.0 - this.cx - this.bx;\n\n    this.cy = 3.0 * p1y;\n    this.by = 3.0 * (p2y - p1y) - this.cy;\n
    this.ay = 1.0 - this.cy - this.by;\n\n    this.p1x = p1x;\n    this.p1y = p2y;\n
    this.p2x = p2x;\n    this.p2y = p2y;\n}\n\nUnitBezier.prototype.sampleCurveX = function(t) {\n    // `ax t^3 + bx
t^2 + cx t' expanded using Horner's rule.\n    return ((this.ax * t + this.bx) * t + this.cx) *
t;\n};\n\nUnitBezier.prototype.sampleCurveY = function(t) {\n    return ((this.ay * t + this.by) * t + this.cy) *
t;\n};\n\nUnitBezier.prototype.sampleCurveDerivativeX = function(t) {\n    return (3.0 * this.ax * t + 2.0 * this.bx) *
t + this.cx;\n};\n\nUnitBezier.prototype.solveCurveX = function(x, epsilon) {\n    if (typeof epsilon === 'undefined')
epsilon = 1e-6;\n    var t0, t1, t2, x2, i;\n    // First try a few iterations of Newton's method -- normally very fast.\n
    for (t2 = x, i = 0; i < 8; i++) {\n        x2 = this.sampleCurveX(t2) - x;\n        if (Math.abs(x2) < epsilon) return
t2;\n        var d2 = this.sampleCurveDerivativeX(t2);\n        if (Math.abs(d2) < 1e-6) break;\n        t2 = t2 - x2 /
d2;\n    }\n    // Fall back to the bisection method
    for reliability.\n    t0 = 0.0;\n    t1 = 1.0;\n    t2 = x;\n    if (t2 < t0) return t0;\n    if (t2 > t1) return t1;\n    while
(t0 < t1) {\n        x2 = this.sampleCurveX(t2);\n        if (Math.abs(x2 - x) < epsilon) return t2;\n        if (x > x2)
{\n            t0 = t2;\n        } else {\n            t1 = t2;\n        }\n        t2 = (t1 - t0) * 0.5 + t0;\n    }\n    // Failure.\n
    return t2;\n};\n\nUnitBezier.prototype.solve = function(x, epsilon) {\n    return
this.sampleCurveY(this.solveCurveX(x, epsilon));\n};\n\n\" @flow\n\nimport Color from './color';\n\nexport
function number(a: number, b: number, t: number) {\n    return (a * (1 - t)) + (b * t);\n}\n\nexport function
color(from: Color, to: Color, t: number) {\n    return new Color(\n        number(from.r, to.r, t),\n        number(from.g,
to.g, t),\n        number(from.b, to.b, t),\n        number(from.a, to.a, t)\n    );\n}\n\nexport function array(from:
Array<number>, to: Array<number>, t: number): Array<number>

```

```

{\n  return from.map((d, i) => {\n    return number(d, to[i], t);\n  });\n}\n", "// @flow\n\nimport Color from
'./color';\n\nimport {number as interpolateNumber} from './interpolate';\n\ntype LABColor = {\n  l: number,\n  a:
number,\n  b: number,\n  alpha: number\n};\n\ntype HCLColor = {\n  h: number,\n  c: number,\n  l: number,\n
alpha: number\n};\n\n// Constants\nconst Xn = 0.950470, // D65 standard referent\n  Yn = 1,\n  Zn =
1.088830,\n  t0 = 4 / 29,\n  t1 = 6 / 29,\n  t2 = 3 * t1 * t1,\n  t3 = t1 * t1 * t1,\n  deg2rad = Math.PI / 180,\n
rad2deg = 180 / Math.PI;\n\n// Utilities\nfunction xyz2lab(t: number) {\n  return t > t3 ? Math.pow(t, 1 / 3) : t / t2 +
t0;\n}\n\nfunction lab2xyz(t: number) {\n  return t > t1 ? t * t * t : t2 * (t - t0);\n}\n\nfunction xyz2rgb(x: number)
{\n  return 255 * (x <= 0.0031308 ? 12.92 * x : 1.055 * Math.pow(x, 1 / 2.4) - 0.055);\n}\n\nfunction rgb2xyz(x:
number) {\n  x /= 255;\n  return x <= 0.04045
? x / 12.92 : Math.pow((x + 0.055) / 1.055, 2.4);\n}\n\n// LAB\nfunction rgbToLab(rgbColor: Color): LABColor
{\n  const b = rgb2xyz(rgbColor.r),\n    a = rgb2xyz(rgbColor.g),\n    l = rgb2xyz(rgbColor.b),\n    x =
xyz2lab((0.4124564 * b + 0.3575761 * a + 0.1804375 * l) / Xn),\n    y = xyz2lab((0.2126729 * b + 0.7151522 * a
+ 0.0721750 * l) / Yn),\n    z = xyz2lab((0.0193339 * b + 0.1191920 * a + 0.9503041 * l) / Zn);\n\n  return {\n
l: 116 * y - 16,\n    a: 500 * (x - y),\n    b: 200 * (y - z),\n    alpha: rgbColor.a\n  };\n}\n\nfunction
labToRgb(labColor: LABColor): Color {\n  let y = (labColor.l + 16) / 116,\n    x = isNaN(labColor.a) ? y : y +
labColor.a / 500,\n    z = isNaN(labColor.b) ? y : y - labColor.b / 200;\n  y = Yn * lab2xyz(y);\n  x = Xn *
lab2xyz(x);\n  z = Zn * lab2xyz(z);\n  return new Color(\n    xyz2rgb(3.2404542 * x - 1.5371385 * y -
0.4985314 * z), // D65 -> sRGB\n    xyz2rgb(-0.9692660 *
x + 1.8760108 * y + 0.0415560 * z),\n    xyz2rgb(0.0556434 * x - 0.2040259 * y + 1.0572252 * z),\n
labColor.alpha\n  );\n}\n\nfunction interpolateLab(from: LABColor, to: LABColor, t: number) {\n  return {\n
l: interpolateNumber(from.l, to.l, t),\n    a: interpolateNumber(from.a, to.a, t),\n    b: interpolateNumber(from.b,
to.b, t),\n    alpha: interpolateNumber(from.alpha, to.alpha, t)\n  };\n}\n\n// HCL\nfunction rgbToHcl(rgbColor:
Color): HCLColor {\n  const {l, a, b} = rgbToLab(rgbColor);\n  const h = Math.atan2(b, a) * rad2deg;\n  return
{\n    h: h < 0 ? h + 360 : h,\n    c: Math.sqrt(a * a + b * b),\n    l,\n    alpha: rgbColor.a\n  };\n}\n\nfunction
hclToRgb(hclColor: HCLColor): Color {\n  const h = hclColor.h * deg2rad,\n    c =
hclColor.c,\n    l = hclColor.l;\n  return labToRgb({\n    l,\n    a: Math.cos(h) * c,\n    b: Math.sin(h) * c,\n
alpha: hclColor.alpha\n  });\n}\n\nfunction interpolateHue(a:
number, b: number, t: number) {\n  const d = b - a;\n  return a + t * (d > 180 || d < -180 ? d - 360 * Math.round(d /
360) : d);\n}\n\nfunction interpolateHcl(from: HCLColor, to: HCLColor, t: number) {\n  return {\n    h:
interpolateHue(from.h, to.h, t),\n    c: interpolateNumber(from.c, to.c, t),\n    l: interpolateNumber(from.l, to.l,
t),\n    alpha: interpolateNumber(from.alpha, to.alpha, t)\n  };\n}\n\nexport const lab = {\n  forward:
rgbToLab,\n  reverse: labToRgb,\n  interpolate: interpolateLab\n};\n\nexport const hcl = {\n  forward:
rgbToHcl,\n  reverse: hclToRgb,\n  interpolate: interpolateHcl\n};\n", "// @flow\n\nimport UnitBezier from
'@mapbox/unitbezier';\n\nimport * as interpolate from './util/interpolate';\n\nimport {toString, NumberType,
ColorType} from './types';\n\nimport {findStopLessThanOrEqualTo} from './stops';\n\nimport {hcl, lab} from
'./util/color_spaces';\n\nimport type {Stops} from './stops';\n\nimport type
{Expression} from './expression';\n\nimport type ParsingContext from './parsing_context';\n\nimport type
EvaluationContext from './evaluation_context';\n\nimport type {Type} from './types';\n\nexport type
InterpolationType =\n  { name: 'linear' } |\n  { name: 'exponential', base: number } |\n  { name: 'cubic-bezier',
controlPoints: [number, number, number, number] };\n\nclass Interpolate implements Expression {\n  type:
InterpolationType;\n\n  operator: 'interpolate' | 'interpolate-hcl' | 'interpolate-lab';\n  interpolation: InterpolationType;\n  input:
Expression;\n  labels: Array<number>;\n  outputs: Array<Expression>;\n\n  constructor(type: Type, operator:
'interpolate' | 'interpolate-hcl' | 'interpolate-lab', interpolation: InterpolationType, input: Expression, stops: Stops) {\n
this.type = type;\n  this.operator = operator;\n  this.interpolation = interpolation;\n  this.input =
input;\n  this.labels = [];\n  this.outputs = [];\n
for (const [label, expression] of stops) {\n    this.labels.push(label);\n    this.outputs.push(expression);\n
  }\n}\n\nstatic interpolationFactor(interpolation: InterpolationType, input: number, lower: number, upper:
number) {\n  let t = 0;\n  if (interpolation.name === 'exponential') {\n    t =

```

```

exponentialInterpolation(input, interpolation.base, lower, upper);\n    } else if (interpolation.name === 'linear') {\n
    t = exponentialInterpolation(input, 1, lower, upper);\n    } else if (interpolation.name === 'cubic-bezier') {\n
    const c = interpolation.controlPoints;\n    const ub = new UnitBezier(c[0], c[1], c[2], c[3]);\n    t =
ub.solve(exponentialInterpolation(input, 1, lower, upper));\n    }\n    return t;\n    }\n\n    static parse(args:
$ReadOnlyArray<mixed>, context: ParsingContext) {\n    let [operator, interpolation, input, ...rest] = args;\n\n    if (!Array.isArray(interpolation))
    || interpolation.length === 0) {\n    return context.error(`Expected an interpolation type expression.`, 1);\n
}\n\n    if (interpolation[0] === 'linear') {\n    interpolation = {name: 'linear'};\n    } else if (interpolation[0]
=== 'exponential') {\n    const base = interpolation[1];\n    if (typeof base !== 'number')\n    return
context.error(`Exponential interpolation requires a numeric base.`, 1, 1);\n    interpolation = {\n    name:
'exponential',\n    base\n    };\n    } else if (interpolation[0] === 'cubic-bezier') {\n    const
controlPoints = interpolation.slice(1);\n    if (\n    controlPoints.length !== 4 ||\n
controlPoints.some(t => typeof t !== 'number' || t < 0 || t > 1)\n    ) {\n    return context.error(`Cubic
bezier interpolation requires four numeric arguments with values between 0 and 1.`, 1);\n
}\n\n    interpolation = {\n    name: 'cubic-bezier',\n    controlPoints: (controlPoints:
any)\n    };\n    } else {\n    return context.error(`Unknown interpolation type
${String(interpolation[0])}`, 1, 0);\n    }\n\n    if (args.length - 1 < 4) {\n    return context.error(`Expected
at least 4 arguments, but found only ${args.length - 1}.`);\n    }\n\n    if ((args.length - 1) % 2 !== 0) {\n
return context.error(`Expected an even number of arguments.`, 1, 1);\n    }\n\n    input = context.parse(input, 2,
NumberType);\n    if (!input) return null;\n\n    const stops: Stops = [];\n\n    let outputType: Type = (null:
any);\n    if (operator === 'interpolate-hcl' || operator === 'interpolate-lab') {\n    outputType = ColorType;\n
} else if (context.expectedType && context.expectedType.kind !== 'value') {\n    outputType =
context.expectedType;\n
}\n\n    for (let i = 0; i < rest.length; i += 2) {\n    const label = rest[i];\n    const value = rest[i +
1];\n\n    const labelKey = i + 3;\n    const valueKey = i + 4;\n\n    if (typeof label !== 'number') {\n
return context.error(`Input/output pairs for \"interpolate\" expressions must be defined using literal numeric
values (not computed expressions) for the input values.`, labelKey);\n    }\n\n    if (stops.length &&
stops[stops.length - 1][0] >= label) {\n    return context.error(`Input/output pairs for \"interpolate\"
expressions must be arranged with input values in strictly ascending order.`, labelKey);\n    }\n\n    const
parsed = context.parse(value, valueKey, outputType);\n    if (!parsed) return null;\n    outputType =
outputType || parsed.type;\n    stops.push([label, parsed]);\n    }\n\n    if (outputType.kind !== 'number'
&&\n
outputType.kind !== 'color' &&\n
!(\n    outputType.kind === 'array' &&\n
outputType.itemType.kind === 'number' &&\n
typeof outputType.N === 'number'\n    )\n    ) {\n
return context.error(`Type ${toString(outputType)} is not interpolatable.`, 1, 1);\n    }\n\n    return new
Interpolate(outputType, (operator: any), interpolation, input, stops);\n    }\n\n    evaluate(ctx: EvaluationContext) {\n
const labels = this.labels;\n    const outputs = this.outputs;\n\n    if (labels.length === 1) {\n    return
outputs[0].evaluate(ctx);\n    }\n\n    const value = ((this.input.evaluate(ctx): any): number);\n    if (value <=
labels[0]) {\n    return outputs[0].evaluate(ctx);\n    }\n\n    const stopCount = labels.length;\n    if (value
>= labels[stopCount - 1]) {\n    return outputs[stopCount - 1].evaluate(ctx);\n    }\n\n    const index =
findStopLessThanOrEqualTo(labels,
value);\n    const lower = labels[index];\n    const upper = labels[index + 1];\n    const t =
Interpolate.interpolationFactor(this.interpolation, value, lower, upper);\n\n    const outputLower =
outputs[index].evaluate(ctx);\n    const outputUpper = outputs[index + 1].evaluate(ctx);\n\n    if (this.operator
=== 'interpolate') {\n    return (interpolate[this.type.kind.toLowerCase()]: any)(outputLower, outputUpper, t); //
eslint-disable-line import/namespace\n    } else if (this.operator === 'interpolate-hcl') {\n    return
hcl.reverse(hcl.interpolate(hcl.forward(outputLower), hcl.forward(outputUpper), t));\n    } else {\n    return
lab.reverse(lab.interpolate(lab.forward(outputLower), lab.forward(outputUpper), t));\n    }\n    }\n\n
}

```

```

eachChild(fn: (_: Expression) => void) {\n    fn(this.input);\n    for (const expression of this.outputs) {\n
fn(expression);\n    }\n }\n\n    outputDefined(): boolean {\n    return this.outputs.every(out => out.outputDefined());\n }\n\n    serialize():
Array<mixed> {\n    let interpolation;\n    if (this.interpolation.name === 'linear') {\n        interpolation =
["linear"];\n    } else if (this.interpolation.name === 'exponential') {\n        if (this.interpolation.base === 1)
{\n            interpolation = ["linear"];\n        } else {\n            interpolation = ["exponential",
this.interpolation.base];\n        }\n    } else {\n        interpolation = ["cubic-bezier"
].concat(this.interpolation.controlPoints);\n    }\n\n    const serialized = [this.operator, interpolation,
this.input.serialize()];\n\n    for (let i = 0; i < this.labels.length; i++) {\n        serialized.push(\n
this.labels[i],\n        this.outputs[i].serialize()\n        );\n    }\n\n    return serialized;\n }\n}\n\n/**\n *
Returns a ratio

```

that can be used to interpolate between exponential function  $y = a * base^x + b$ . How it works: Two consecutive stop values define a (scaled and shifted) exponential function  $f(x) = a * base^x + b$ , where `base` is the user-specified base, and `a` and `b` are constants affording sufficient degrees of freedom to fit the function to the given stops. Here's a bit of algebra that lets us compute  $f(x)$  directly from the stop values without explicitly solving for `a` and `b`:

First stop value:  $f(x_0) = y_0 = a * base^{x_0} + b$

Second stop value:  $f(x_1) = y_1 = a * base^{x_1} + b$

$\Rightarrow y_1 - y_0 = a(base^{x_1} - base^{x_0}) \Rightarrow a = (y_1 - y_0) / (base^{x_1} - base^{x_0})$

Desired value:  $f(x) = y = a * base^x + b \Rightarrow f(x) = y_0 + a * (base^x - base^{x_0})$

From the above, we can replace the `a` in  $a * (base^x - base^{x_0})$  and do a little algebra:

$$a * (base^x - base^{x_0}) = (y_1 - y_0) / (base^{x_1} - base^{x_0}) * (base^x - base^{x_0})$$

$$= (y_1 - y_0) * (base^x - base^{x_0}) / (base^{x_1} - base^{x_0})$$

If we let  $ratio = (base^x - base^{x_0}) / (base^{x_1} - base^{x_0})$ , then we have  $f(x) = y_0 + (y_1 - y_0) * ratio$ . In other words, `ratio` may be treated as an interpolation factor between the two stops' output values. (Note: a slightly different form for `ratio`,  $(base^{(x-x_0)} - 1) / (base^{(x_1-x_0)} - 1)$ , is equivalent, but requires fewer expensive `Math.pow()` operations.)

```

@private\nfunction exponentialInterpolation(input, base, lowerValue, upperValue) {\n    const difference =
upperValue - lowerValue;\n    const progress = input - lowerValue;\n\n    if (difference === 0) {\n        return 0;\n    } else if (base === 1) {\n        return progress / difference;\n    } else {\n        return (Math.pow(base, progress) - 1) /
(Math.pow(base, difference) - 1);\n    }\n}\n\nexport default Interpolate;\n\n\"\" @flow\n\nimport assert from
'assert';\n\nimport {checkSubtype, ValueType} from '../types';\n\nimport
ResolvedImage from '../types/resolved_image';\n\nimport type {Expression} from '../expression';\n\nimport type
ParsingContext from '../parsing_context';\n\nimport type EvaluationContext from '../evaluation_context';\n\nimport type
{Type} from '../types';\n\nclass Coalesce implements Expression {\n    type: Type;\n    args: Array<Expression>;\n\n    constructor(type: Type, args: Array<Expression>) {\n        this.type = type;\n        this.args = args;\n    }\n\n    static
parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n        if (args.length < 2) {\n            return
context.error(\"Expected at least one argument.\");\n        }\n\n        let outputType: Type = (null: any);\n        const
expectedType = context.expectedType;\n\n        if (expectedType && expectedType.kind !== 'value') {\n            outputType = expectedType;\n        }\n\n        const parsedArgs = [];\n\n        for (const arg of args.slice(1)) {\n            const parsed = context.parse(arg, 1 + parsedArgs.length,\n                outputType, undefined, {typeAnnotation: 'omit'});\n\n            if (!parsed) return null;\n\n            outputType =
outputType || parsed.type;\n            parsedArgs.push(parsed);\n        }\n\n        assert(outputType);\n\n        // Above,\n        we parse arguments without inferred type annotation so that\n        // they don't produce a runtime error for `null`\n        input, which would\n        // preempt the desired null-coalescing behavior.\n        // Thus, if any of our arguments\n        would have needed an annotation, we\n        // need to wrap the enclosing coalesce expression with it instead.\n\n        const needsAnnotation = expectedType &&\n            parsedArgs.some(arg => checkSubtype(expectedType,\n                arg.type));\n\n        return needsAnnotation ?\n            new Coalesce(ValueType, parsedArgs) :\n            new\n            Coalesce((outputType: any), parsedArgs);\n    }\n\n    evaluate(ctx: EvaluationContext) {\n        let result = null;\n\n        let argCount = 0;\n        let requestedImageName;\n
```

```

    for (const arg of this.args) {\n        argCount++; \n        result = arg.evaluate(ctx); \n        // we need to
keep track of the first requested image in a coalesce statement \n        // if coalesce can't find a valid image, we
return the first image name so styleimagemissing can fire \n        if (result && result instanceof ResolvedImage
&& !result.available) {\n            if (!requestedImageName) {\n                requestedImageName = result.name; \n
            } \n            result = null; \n            if (argCount === this.args.length) {\n                result =
requestedImageName; \n            } \n        } \n        if (result !== null) break; \n    } \n    return result; \n
}\n\n eachChild(fn: (_: Expression) => void) {\n    this.args.forEach(fn); \n } \n\n outputDefined(): boolean
{\n    return this.args.every(arg => arg.outputDefined()); \n } \n\n serialize() {\n    const
serialized = ["coalesce"]; \n    this.eachChild(child => { serialized.push(child.serialize()); }); \n    return
serialized; \n } \n } \n\n\nexport default Coalesce; \n", "// @flow\n\n\nimport type {Type} from './types'; \n\nimport type
{Expression} from './expression'; \n\nimport type ParsingContext from './parsing_context'; \n\nimport type
EvaluationContext from './evaluation_context'; \n\n\nclass Let implements Expression {\n    type: Type; \n    bindings:
Array<[string, Expression]>; \n    result: Expression; \n\n    constructor(bindings: Array<[string, Expression]>, result:
Expression) {\n        this.type = result.type; \n        this.bindings = [].concat(bindings); \n        this.result = result; \n
    } \n\n    evaluate(ctx: EvaluationContext) {\n        return this.result.evaluate(ctx); \n    } \n\n    eachChild(fn: (_:
Expression) => void) {\n        for (const binding of this.bindings) {\n            fn(binding[1]); \n        } \n
    } \n\n    static parse(args:
$ReadOnlyArray<mixed>, context: ParsingContext) {\n        if (args.length < 4) \n            return
context.error(`Expected at least 3 arguments, but found ${args.length - 1} instead.`); \n\n        const bindings:
Array<[string, Expression]> = [];\n        for (let i = 1; i < args.length - 1; i += 2) {\n            const name = args[i]; \n
            if (typeof name !== 'string') {\n                return context.error(`Expected string, but found ${typeof name}
instead.`); \n            } \n            if (/^[a-zA-Z0-9_]/.test(name)) {\n                return context.error(`Variable names
must contain only alphanumeric characters or '_'`); \n            } \n            const value = context.parse(args[i + 1], i
+ 1); \n            if (!value) return null; \n            bindings.push([name, value]); \n        } \n\n        const result =
context.parse(args[args.length - 1], args.length - 1, context.expectedType, bindings); \n        if (!result) return
null; \n\n        return new Let(bindings,
result); \n    } \n\n    outputDefined() {\n        return this.result.outputDefined(); \n    } \n\n    serialize() {\n        const
serialized = ["let"]; \n        for (const [name, expr] of this.bindings) {\n            serialized.push(name,
expr.serialize()); \n        } \n        serialized.push(this.result.serialize()); \n        return serialized; \n    } \n } \n\n\nexport
default Let; \n", "// @flow\n\n\nimport {array, ValueType, NumberType} from './types'; \n\nimport RuntimeError from
'./runtime_error'; \n\nimport type {Expression} from './expression'; \n\nimport type ParsingContext from
'./parsing_context'; \n\nimport type EvaluationContext from './evaluation_context'; \n\nimport type {Type, ArrayType}
from './types'; \n\nimport type {Value} from './values'; \n\n\nclass At implements Expression {\n    type: Type; \n
    index: Expression; \n    input: Expression; \n\n    constructor(type: Type, index: Expression, input: Expression) {\n
        this.type = type; \n        this.index = index; \n
        this.input = input; \n    } \n\n    static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n        if
(args.length !== 3) \n            return context.error(`Expected 2 arguments, but found ${args.length - 1} instead.`); \n\n
        const index = context.parse(args[1], 1, NumberType); \n        const input = context.parse(args[2], 2,
array(context.expectedType || ValueType)); \n\n        if (!index || !input) return null; \n\n        const t: ArrayType =
(input.type: any); \n        return new At(t.itemType, index, input); \n    } \n\n    evaluate(ctx: EvaluationContext) {\n
        const index = ((this.index.evaluate(ctx): any): number); \n        const array = ((this.input.evaluate(ctx): any):
Array<Value>); \n\n        if (index < 0) {\n            throw new RuntimeError(`Array index out of bounds: ${index} <
0.`); \n        } \n\n        if (index >= array.length) {\n            throw new RuntimeError(`Array index out of bounds:
${index} > ${array.length - 1}.`); \n        } \n\n        if (index !== Math.floor(index)) {\n            throw new
RuntimeError(`Array index must be an integer, but found ${index} instead.`); \n        } \n\n        return array[index]; \n
    } \n\n    eachChild(fn: (_: Expression) => void) {\n        fn(this.index); \n        fn(this.input); \n    } \n\n    outputDefined() {\n        return false; \n    } \n\n    serialize()
{\n        return ["at", this.index.serialize(), this.input.serialize()]; \n    } \n } \n\n\nexport default At; \n", "//

```

```

@flow\n\nimport { BooleanType, StringType, ValueType, NullType, toString, NumberType, isValidType,
isValidNativeType } from './types';\nimport RuntimeError from './runtime_error';\nimport { typeOf } from
'./values';\n\nimport type { Expression } from './expression';\nimport type ParsingContext from
'./parsing_context';\nimport type EvaluationContext from './evaluation_context';\nimport type { Type } from
'./types';\n\nclass In implements Expression {\n  type: Type;\n  needle: Expression;\n  haystack: Expression;\n\n  constructor(needle: Expression, haystack: Expression) {\n    this.type = BooleanType;\n    this.needle =
needle;\n    this.haystack = haystack;\n  }\n\n  static parse(args: $ReadOnlyArray<mixed>, context:
ParsingContext) {\n    if (args.length !== 3) {\n      return context.error(`Expected 2 arguments, but found
${args.length - 1} instead.`);\n    }\n\n    const needle = context.parse(args[1], 1, ValueType);\n\n    const
haystack = context.parse(args[2], 2, ValueType);\n\n    if (!needle || !haystack) return null;\n\n    if
(!isValidType(needle.type, [BooleanType, StringType, NumberType, NullType, ValueType])) {\n      return
context.error(`Expected first argument to be of type boolean, string, number or null, but found
${toString(needle.type)} instead`);\n    }\n\n    return new In(needle, haystack);\n  }\n\n  evaluate(ctx:
EvaluationContext) {\n    const needle = (this.needle.evaluate(ctx): any);\n\n    const haystack = (this.haystack.evaluate(ctx): any);\n\n    if (!haystack) return false;\n\n    if
(!isValidNativeType(needle, ['boolean', 'string', 'number', 'null'])) {\n      throw new RuntimeError(`Expected
first argument to be of type boolean, string, number or null, but found ${toString(typeOf(needle))} instead.`);\n
}\n\n    if (!isValidNativeType(haystack, ['string', 'array'])) {\n      throw new RuntimeError(`Expected second
argument to be of type array or string, but found ${toString(typeOf(haystack))} instead.`);\n    }\n\n    return
haystack.indexOf(needle) >= 0;\n  }\n\n  eachChild(fn: (_: Expression) => void) {\n    fn(this.needle);\n
fn(this.haystack);\n  }\n\n  outputDefined() {\n    return true;\n  }\n\n  serialize() {\n    return ["in",
this.needle.serialize(), this.haystack.serialize()];\n  }\n}\n\nexport default In;\n\n"/ @flow\n\nimport
{ BooleanType, StringType, ValueType, NullType, toString,
NumberType, isValidType, isValidNativeType } from './types';\nimport RuntimeError from
'./runtime_error';\nimport { typeOf } from './values';\n\nimport type { Expression } from './expression';\nimport type
ParsingContext from './parsing_context';\nimport type EvaluationContext from './evaluation_context';\nimport type
{ Type } from './types';\n\nclass IndexOf implements Expression {\n  type: Type;\n  needle: Expression;\n
haystack: Expression;\n  fromIndex: ?Expression;\n\n  constructor(needle: Expression, haystack: Expression,
fromIndex?: Expression) {\n    this.type = NumberType;\n    this.needle = needle;\n    this.haystack =
haystack;\n    this.fromIndex = fromIndex;\n  }\n\n  static parse(args: $ReadOnlyArray<mixed>, context:
ParsingContext) {\n    if (args.length <= 2 || args.length >= 5) {\n      return context.error(`Expected 3 or 4
arguments, but found ${args.length - 1} instead.`);\n    }\n\n    const needle = context.parse(args[1],
1, ValueType);\n\n    const haystack = context.parse(args[2], 2, ValueType);\n\n    if (!needle || !haystack)
return null;\n\n    if (!isValidType(needle.type, [BooleanType, StringType, NumberType, NullType, ValueType]))
{\n      return context.error(`Expected first argument to be of type boolean, string, number or null, but found
${toString(needle.type)} instead`);\n    }\n\n    if (args.length === 4) {\n      const fromIndex =
context.parse(args[3], 3, NumberType);\n\n      if (!fromIndex) return null;\n\n      return new IndexOf(needle,
haystack, fromIndex);\n    } else {\n      return new IndexOf(needle, haystack);\n    }\n  }\n\n  evaluate(ctx: EvaluationContext) {\n    const needle = (this.needle.evaluate(ctx): any);\n    const haystack =
(this.haystack.evaluate(ctx): any);\n\n    if (!isValidNativeType(needle, ['boolean', 'string', 'number', 'null'])) {\n
\n      throw new RuntimeError(`Expected
first argument to be of type boolean, string, number or null, but found ${toString(typeOf(needle))} instead.`);\n
}\n\n    if (!isValidNativeType(haystack, ['string', 'array'])) {\n      throw new RuntimeError(`Expected second
argument to be of type array or string, but found ${toString(typeOf(haystack))} instead.`);\n    }\n\n    if
(this.fromIndex) {\n      const fromIndex = (this.fromIndex.evaluate(ctx): number);\n      return
haystack.indexOf(needle, fromIndex);\n    }\n\n    return haystack.indexOf(needle);\n  }\n\n  eachChild(fn:
(_: Expression) => void) {\n    fn(this.needle);\n    fn(this.haystack);\n    if (this.fromIndex) {\n
fn(this.fromIndex);\n    }\n  }\n\n  outputDefined() {\n    return false;\n  }\n\n  serialize() {\n    if

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(this.fromIndex != null && this.fromIndex !== undefined) {\n      const fromIndex =
this.fromIndex.serialize();\n      return ["index-of", this.needle.serialize(),
this.haystack.serialize(), fromIndex];\n    }\n    return ["index-of", this.needle.serialize(),
this.haystack.serialize()];\n  }\n}\n\nexport default IndexOf;\n", "// @flow\n\nimport assert from 'assert';\n\nimport
{typeOf} from '../values';\nimport {ValueType, type Type} from '../types';\nimport type {Expression} from
'../expression';\nimport type ParsingContext from '../parsing_context';\nimport type EvaluationContext from
'../evaluation_context';\n\n// Map input label values to output expression index\ntype Cases = {[number | string]:
number};\n\nclass Match implements Expression {\n  type: Type;\n  inputType: Type;\n\n  input: Expression;\n  cases: Cases;\n  outputs: Array<Expression>;\n  otherwise: Expression;\n\n  constructor(inputType: Type,
outputType: Type, input: Expression, cases: Cases, outputs: Array<Expression>, otherwise: Expression) {\n
this.inputType = inputType;\n  this.type = outputType;\n  this.input
= input;\n  this.cases = cases;\n  this.outputs = outputs;\n  this.otherwise = otherwise;\n }\n\n  static
parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n    if (args.length < 5)\n      return
context.error(`Expected at least 4 arguments, but found only ${args.length - 1}.`);\n    if (args.length % 2 !== 1)\n
return context.error(`Expected an even number of arguments.`);\n\n    let inputType;\n    let
outputType;\n    if (context.expectedType && context.expectedType.kind !== 'value') {\n      outputType =
context.expectedType;\n    }\n    const cases = {};\n    const outputs = [];\n    for (let i = 2; i < args.length -
1; i += 2) {\n      let labels = args[i];\n      const value = args[i + 1];\n\n      if (!Array.isArray(labels)) {\n
labels = [labels];\n      }\n\n      const labelContext = context.concat(i);\n      if (labels.length ===
0) {\n        return labelContext.error(`Expected at least one branch label.`);\n      }\n\n      for (const label
of labels) {\n        if (typeof label !== 'number' && typeof label !== 'string') {\n          return
labelContext.error(`Branch labels must be numbers or strings.`);\n        } else if (typeof label === 'number' &&
Math.abs(label) > Number.MAX_SAFE_INTEGER) {\n          return labelContext.error(`Branch labels must
be integers no larger than ${Number.MAX_SAFE_INTEGER}.`);\n        } else if (typeof label === 'number'
&& Math.floor(label) !== label) {\n          return labelContext.error(`Numeric branch labels must be integer
values.`);\n        } else if (!inputType) {\n          inputType = typeOf(label);\n        } else if
(labelContext.checkSubtype(inputType, typeOf(label))) {\n          return null;\n        }\n      }\n      if
(typeof cases[String(label)]
!== 'undefined') {\n        return labelContext.error(`Branch labels must be unique.`);\n      }\n\n      cases[String(label)] = outputs.length;\n    }\n\n    const result = context.parse(value, i, outputType);\n
if (!result) return null;\n    outputType = outputType || result.type;\n    outputs.push(result);\n  }\n\n  const input = context.parse(args[1], 1, ValueType);\n  if (!input) return null;\n  const otherwise =
context.parse(args[args.length - 1], args.length - 1, outputType);\n  if (!otherwise) return null;\n\n  assert(inputType && outputType);\n  if (input.type.kind !== 'value' &&
context.concat(1).checkSubtype((inputType: any), input.type)) {\n    return null;\n  }\n\n  return new
Match((inputType: any), (outputType: any), input, cases, outputs, otherwise);\n }\n\n  evaluate(ctx:
EvaluationContext) {\n    const input
= (this.input.evaluate(ctx): any);\n    const output = (typeOf(input) === this.inputType &&
this.outputs[this.cases[input]]) || this.otherwise;\n    return output.evaluate(ctx);\n  }\n\n  eachChild(fn: (_:
Expression) => void) {\n    fn(this.input);\n    this.outputs.forEach(fn);\n    fn(this.otherwise);\n  }\n\n  outputDefined(): boolean {\n    return this.outputs.every(out => out.outputDefined()) &&
this.otherwise.outputDefined();\n  }\n\n  serialize(): Array<mixed> {\n    const serialized = ["match",
this.input.serialize()];\n\n    // Sort so serialization has an arbitrary defined order, even though\n    // branch
order doesn't affect evaluation\n    const sortedLabels = Object.keys(this.cases).sort();\n\n    // Group branches
by unique match expression to support condensed\n    // serializations of the form [case1, case2, ...] ->
matchExpression\n    const groupedByOutput: Array<[number, Array<number | string>]> =
[];\n    const outputLookup: {[index: number]: number} = {};\n    // lookup index into groupedByOutput for a given
output expression\n    for (const label of sortedLabels) {\n      const outputIndex =

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```

outputLookup[this.cases[label]];\n      if (outputIndex === undefined) {\n          // First time seeing this
output, add it to the end of the grouped list\n          outputLookup[this.cases[label]] = groupedByOutput.length;\n          groupedByOutput.push([this.cases[label], [label]]);\n      } else {\n          // We've seen this
expression before, add the label to that output's group\n          groupedByOutput[outputIndex][1].push(label);\n      }\n  }\n  }\n  const coerceLabel = (label) => this.inputType.kind === 'number' ? Number(label) : label;\n  for (const [outputIndex, labels] of groupedByOutput) {\n      if (labels.length === 1) {\n          // Only a
single label matches this output expression\n          serialized.push(coerceLabel(labels[0]));\n      } else {\n          // Array of literal labels pointing to
this output expression\n          serialized.push(labels.map(coerceLabel));\n      }\n      serialized.push(this.outputs[outputIndex].serialize());\n      serialized.push(this.otherwise.serialize());\n  }\n  return serialized;\n  }\n}\n\nexport default Match;\n", "/* @flow\n\nimport assert from 'assert';\nimport
{BooleanType} from './types';\nimport type {Expression} from './expression';\nimport type ParsingContext from
'./parsing_context';\nimport type EvaluationContext from './evaluation_context';\nimport type {Type} from
'./types';\n\ntype Branches = Array<[Expression, Expression]>;\n\nclass Case implements Expression {\n  type:
Type;\n  branches: Branches;\n  otherwise: Expression;\n\n  constructor(type: Type, branches: Branches,
otherwise: Expression) {\n    this.type = type;\n    this.branches
= branches;\n    this.otherwise = otherwise;\n  }\n\n  static parse(args: $ReadOnlyArray<mixed>, context:
ParsingContext) {\n    if (args.length < 4)\n      return context.error(`Expected at least 3 arguments, but found
only ${args.length - 1}.`);\n    if (args.length % 2 !== 0)\n      return context.error(`Expected an odd number of
arguments.`);\n    let outputType: ?Type;\n    if (context.expectedType && context.expectedType.kind !==
'value') {\n      outputType = context.expectedType;\n    }\n    const branches = [];\n    for (let i = 1; i <
args.length - 1; i += 2) {\n      const test = context.parse(args[i], i, BooleanType);\n      if (!test) return
null;\n      const result = context.parse(args[i + 1], i + 1, outputType);\n      if (!result) return null;\n      branches.push([test, result]);\n      outputType = outputType || result.type;\n    }\n    const otherwise
= context.parse(args[args.length - 1], args.length - 1, outputType);\n    if (!otherwise) return null;\n    assert(outputType);\n    return new Case((outputType: any), branches, otherwise);\n  }\n\n  evaluate(ctx:
EvaluationContext) {\n    for (const [test, expression] of this.branches) {\n      if (test.evaluate(ctx)) {\n
return expression.evaluate(ctx);\n      }\n    }\n    return this.otherwise.evaluate(ctx);\n  }\n\n  eachChild(fn: (_: Expression) => void) {\n    for (const [test, expression] of this.branches) {\n      fn(test);\n      fn(expression);\n    }\n    fn(this.otherwise);\n  }\n\n  outputDefined(): boolean {\n    return
this.branches.every(([, out]) => out.outputDefined()) && this.otherwise.outputDefined();\n  }\n\n  serialize() {\n
const serialized = [\"case\"];\n    this.eachChild(child => { serialized.push(child.serialize()); });\n    return
serialized;\n  }\n}\n\nexport default Case;\n", "/* @flow\n\nimport {ValueType, NumberType, StringType, array, toString,
isValidType, isValidNativeType} from './types';\nimport RuntimeError from './runtime_error';\nimport {typeOf}
from './values';\nimport type {Expression} from './expression';\nimport type ParsingContext from
'./parsing_context';\nimport type EvaluationContext from './evaluation_context';\nimport type {Type} from
'./types';\n\nclass Slice implements Expression {\n  type: Type;\n  input: Expression;\n  beginIndex:
Expression;\n  endIndex: ?Expression;\n\n  constructor(type: Type, input: Expression, beginIndex: Expression,
endIndex?: Expression) {\n    this.type = type;\n    this.input = input;\n    this.beginIndex = beginIndex;\n
this.endIndex = endIndex;\n  }\n\n  static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n
if (args.length <= 2 || args.length >= 5) {\n      return context.error(`Expected 3 or 4 arguments,
but found ${args.length - 1} instead.`);\n    }\n    const input = context.parse(args[1], 1, ValueType);\n    const beginIndex = context.parse(args[2], 2, NumberType);\n    if (!input || !beginIndex) return null;\n    if
(!isValidType(input.type, [array(ValueType), StringType, ValueType])) {\n      return context.error(`Expected
first argument to be of type array or string, but found ${toString(input.type)} instead`);\n    }\n    if
(args.length === 4) {\n      const endIndex = context.parse(args[3], 3, NumberType);\n      if (!endIndex)
return null;\n      return new Slice(input.type, input, beginIndex, endIndex);\n    } else {\n      return new

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Slice(input.type, input, beginIndex);\n    }\n    }\n\n    evaluate(ctx: EvaluationContext) {\n        const input =\n        (this.input.evaluate(ctx): any);\n        const beginIndex = (this.beginIndex.evaluate(ctx): number);\n        if\n        (!isValidNativeType(input, ['string',\n        'array'])) {\n            throw new RuntimeError(`Expected first argument to be of type array or string, but found\n        ${toString(typeOf(input))} instead.`);\n        }\n        if (this.endIndex) {\n            const endIndex =\n            (this.endIndex.evaluate(ctx): number);\n            return input.slice(beginIndex, endIndex);\n        }\n        return\n        input.slice(beginIndex);\n    }\n\n    eachChild(fn: (_: Expression) => void) {\n        fn(this.input);\n        fn(this.beginIndex);\n        if (this.endIndex) {\n            fn(this.endIndex);\n        }\n    }\n\n    outputDefined() {\n        return false;\n    }\n\n    serialize() {\n        if (this.endIndex != null && this.endIndex !== undefined) {\n            const endIndex = this.endIndex.serialize();\n            return ["slice", this.input.serialize(), this.beginIndex.serialize(),\n            endIndex];\n        }\n        return ["slice", this.input.serialize(), this.beginIndex.serialize()];\n    }\n}\n\nexport\ndefault Slice;\n", "//\n\n@flow\n\nimport { toString, ValueType, BooleanType, CollatorType } from './types';\nimport Assertion from\n './assertion';\nimport { typeOf } from './values';\nimport RuntimeError from './runtime_error';\n\nimport type\n {Expression} from './expression';\nimport type EvaluationContext from './evaluation_context';\nimport type\n ParsingContext from './parsing_context';\nimport type {Type} from './types';\n\nntype ComparisonOperator = '==' |\n '!=' | '<' | '>' | '<=' | '>=';\n\nfunction isComparableType(op: ComparisonOperator, type: Type) {\n    if (op === '==' ||\n    op === '!=') {\n        // equality operator\n        return type.kind === 'boolean' ||\n        type.kind === 'string' ||\n        type.kind === 'number' ||\n        type.kind === 'null' ||\n        type.kind === 'value';\n    } else {\n        //\n        ordering operator\n        return type.kind === 'string' ||\n        type.kind === 'number' ||\n        type.kind ===\n        'value';\n    }\n}\n\nfunction eq(ctx,\n    a, b) {\n    return a === b;\n}\n\nfunction neq(ctx, a, b) {\n    return a !== b;\n}\n\nfunction lt(ctx, a, b) {\n    return a < b;\n}\n\nfunction\n    gt(ctx, a, b) {\n    return a > b;\n}\n\nfunction lteq(ctx, a, b) {\n    return a <= b;\n}\n\nfunction\n    gteq(ctx, a, b) {\n    return a >= b;\n}\n\nfunction eqCollate(ctx, a, b, c) {\n    return c.compare(a, b) === 0;\n}\n\nfunction\n    neqCollate(ctx, a, b, c) {\n    return\n    !eqCollate(ctx, a, b, c);\n}\n\nfunction ltCollate(ctx, a, b, c) {\n    return c.compare(a, b) < 0;\n}\n\nfunction\n    gtCollate(ctx, a, b, c) {\n    return c.compare(a, b) > 0;\n}\n\nfunction lteqCollate(ctx, a, b, c) {\n    return c.compare(a, b) <= 0;\n}\n\nfunction\n    gteqCollate(ctx, a, b, c) {\n    return c.compare(a, b) >= 0;\n}\n\n/**\n * Special form for comparison operators,\n    implementing the signatures:\n    * - (T, T, ?Collator) => boolean\n    * - (T, value, ?Collator) => boolean\n    * - (value,\n    T, ?Collator) => boolean\n    * For inequalities, T must be either value, string, or number. For ==/!=, it\n    * can\n    also be boolean or null.\n    * Equality semantics are equivalent\n    to Javascript's strict equality (===/!==)\n    * -- i.e., when the arguments' types don't match, == evaluates to false, !=\n    to\n    true.\n    * When types don't match in an ordering comparison, a runtime error is thrown.\n    * @private\n    */\n\nfunction makeComparison(op: ComparisonOperator, compareBasic, compareWithCollator) {\n    const\n    isOrderComparison = op !== '==' && op !== '!=';\n\n    return class Comparison implements Expression {\n        type: Type;\n        lhs: Expression;\n        rhs: Expression;\n        collator: ?Expression;\n        hasUntypedArgument:\n        boolean;\n\n        constructor(lhs: Expression, rhs: Expression, collator: ?Expression) {\n            this.type =\n            BooleanType;\n            this.lhs = lhs;\n            this.rhs = rhs;\n            this.collator = collator;\n\n            this.hasUntypedArgument = lhs.type.kind === 'value' || rhs.type.kind === 'value';\n        }\n\n        static parse(args:\n        $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression\n        {\n            if (args.length !== 3 && args.length !== 4)\n                return context.error(`Expected two or three\n            arguments.`);\n\n            const op: ComparisonOperator = (args[0]: any);\n            let lhs = context.parse(args[1],\n            1, ValueType);\n            if (!lhs) return null;\n            if (!isComparableType(op, lhs.type)) {\n                return\n                context.concat(1).error(`"${op}" comparisons are not supported for type\n            "${toString(lhs.type)}");\n            }\n\n            let rhs = context.parse(args[2], 2, ValueType);\n            if (!rhs) return null;\n            if (!isComparableType(op,\n            rhs.type)) {\n                return context.concat(2).error(`"${op}" comparisons are not supported for type\n            "${toString(rhs.type)}");\n            }\n\n            if (\n                lhs.type.kind !== rhs.type.kind &&\n                lhs.type.kind !== 'value' &&\n                rhs.type.kind !== 'value'\n            ) {\n                return\n                context.error(`Cannot

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compare types '{toString(lhs.type)}' and '{toString(rhs.type)}';\n        }\n        if (isOrderComparison)
{\n        // typing rules specific to less/greater than operators\n        if (lhs.type.kind === 'value' &&
rhs.type.kind !== 'value') {\n        // (value, T)\n        lhs = new Assertion(rhs.type, [lhs]);\n        }
else if (lhs.type.kind !== 'value' && rhs.type.kind === 'value') {\n        // (T, value)\n        rhs = new
Assertion(lhs.type, [rhs]);\n        }\n        }\n        let collator = null;\n        if (args.length === 4) {\n
        if (\n        lhs.type.kind !== 'string' &&\n        rhs.type.kind !== 'string' &&\n
lhs.type.kind !== 'value' &&\n        rhs.type.kind !== 'value'\n        ) {\n        return
context.error(`Cannot use collator to compare non-string types.`);\n
        }\n        collator = context.parse(args[3], 3, CollatorType);\n        if (!collator) return null;\n
}\n        return new Comparison(lhs, rhs, collator);\n        }\n        evaluate(ctx: EvaluationContext) {\n
const lhs = this.lhs.evaluate(ctx);\n        const rhs = this.rhs.evaluate(ctx);\n        if (isOrderComparison &&
this.hasUntypedArgument) {\n        const lt = typeOf(lhs);\n        const rt = typeOf(rhs);\n        //
check that type is string or number, and equal\n        if (lt.kind !== rt.kind || !(lt.kind === 'string' || lt.kind ===
'number')) {\n        throw new RuntimeError(`Expected arguments for "${op}" to be (string, string) or
(number, number), but found (${lt.kind}, ${rt.kind}) instead.`);\n        }\n        }\n        if (this.collator
&& !isOrderComparison && this.hasUntypedArgument) {\n        const lt = typeOf(lhs);\n
        const rt = typeOf(rhs);\n        if (lt.kind !== 'string' || rt.kind !== 'string') {\n        return
compareBasic(ctx, lhs, rhs);\n        }\n        }\n        return this.collator ?\n
compareWithCollator(ctx, lhs, rhs, this.collator.evaluate(ctx)) :\n        compareBasic(ctx, lhs, rhs);\n        }\n        eachChild(fn: (_: Expression) => void) {\n        fn(this.lhs);\n        fn(this.rhs);\n        if (this.collator) {\n
        fn(this.collator);\n        }\n        }\n        outputDefined(): boolean {\n        return true;\n        }\n
serialize() {\n        const serialized = [op];\n        this.eachChild(child => { serialized.push(child.serialize());
});\n        return serialized;\n        }\n        };\n}\n\nexport const Equals = makeComparison('=', eq,
eqCollate);\nexport const NotEquals = makeComparison('!=', neq, neqCollate);\nexport const LessThan
= makeComparison('<', lt, ltCollate);\nexport const GreaterThan = makeComparison('>', gt, gtCollate);\nexport
const LessThanOrEqual = makeComparison('<=', lteq, lteqCollate);\nexport const GreaterThanOrEqual =
makeComparison('>=', gteq, gteqCollate);\n"/ @flow\n\nimport { StringType, NumberType } from
'./types';\n\nimport type { Expression } from './expression';\nimport type EvaluationContext from
'./evaluation_context';\nimport type ParsingContext from './parsing_context';\nimport type { Type } from
'./types';\n\ndeclare var Intl: {\n    NumberFormat: Class<Intl$NumberFormat>\n};\n\ndeclare class
Intl$NumberFormat {\n    constructor (\n        locales?: string | string[],\n        options?: NumberFormatOptions\n    ):
Intl$NumberFormat;\n\n    static (\n        locales?: string | string[],\n        options?: NumberFormatOptions\n    ):
Intl$NumberFormat;\n\n    format(a: number): string;\n\n    resolvedOptions(): any;\n}\n\ntype
NumberFormatOptions = {\n    style?: 'decimal'
| 'currency' | 'percent';\n    currency?: null | string;\n    minimumFractionDigits?: null | string;\n
    maximumFractionDigits?: null | string;\n};\n\nexport default class NumberFormat implements Expression {\n
type: Type;\n    number: Expression;\n    locale: Expression | null; // BCP 47 language tag\n    currency: Expression
| null; // ISO 4217 currency code, required if style=currency\n    minFractionDigits: Expression | null; // Default 0\n
    maxFractionDigits: Expression | null; // Default 3\n\n    constructor(number: Expression,\n        locale:
Expression | null,\n        currency: Expression | null,\n        minFractionDigits: Expression | null,\n
        maxFractionDigits: Expression | null) {\n        this.type = StringType;\n        this.number = number;\n        this.locale
= locale;\n        this.currency = currency;\n        this.minFractionDigits = minFractionDigits;\n
        this.maxFractionDigits = maxFractionDigits;\n    }\n\n    static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n
        if (args.length !== 3)\n        return context.error(`Expected two arguments.`);\n\n        const number = context.parse(args[1], 1,
NumberType);\n        if (!number) return null;\n\n        const options = (args[2]: any);\n        if (typeof options !==
'object' || Array.isArray(options))\n        return context.error(`NumberFormat options argument must be an
object.`);\n\n        let locale = null;\n        if (options['locale']) {\n        locale = context.parse(options['locale'], 1,

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StringType);\n      if (!locale) return null;\n    }\n    let currency = null;\n    if (options['currency']) {\n      currency = context.parse(options['currency'], 1, StringType);\n      if (!currency) return null;\n    }\n    let minFractionDigits = null;\n    if (options['min-fraction-digits']) {\n      minFractionDigits =\n        context.parse(options['min-fraction-digits'],\n          1, NumberType);\n      if (!minFractionDigits) return null;\n    }\n    let maxFractionDigits = null;\n    if (options['max-fraction-digits']) {\n      maxFractionDigits = context.parse(options['max-fraction-digits'], 1,\n        NumberType);\n      if (!maxFractionDigits) return null;\n    }\n    return new NumberFormat(number,\n      locale, currency, minFractionDigits, maxFractionDigits);\n  }\n  evaluate(ctx: EvaluationContext) {\n    return\n      new Intl.NumberFormat(this.locale ? this.locale.evaluate(ctx) : [],\n        {\n          style: this.currency ?\n            \"currency\" : \"decimal\", \n          currency: this.currency ? this.currency.evaluate(ctx) : undefined, \n          minimumFractionDigits: this.minFractionDigits ? this.minFractionDigits.evaluate(ctx) : undefined, \n          maximumFractionDigits: this.maxFractionDigits ? this.maxFractionDigits.evaluate(ctx) : undefined, \n        })\n        .format(this.number.evaluate(ctx));\n  }\n  eachChild(fn: (_: Expression) => void) {\n    fn(this.number);\n    if (this.locale) {\n      fn(this.locale);\n    }\n    if (this.currency) {\n      fn(this.currency);\n    }\n    if (this.minFractionDigits)\n      fn(this.minFractionDigits);\n    if (this.maxFractionDigits)\n      fn(this.maxFractionDigits);\n  }\n  outputDefined() {\n    return false;\n  }\n  serialize() {\n    const options = {};\n    if (this.locale) {\n      options['locale'] = this.locale.serialize();\n    }\n    if (this.currency) {\n      options['currency'] = this.currency.serialize();\n    }\n    if (this.minFractionDigits) {\n      options['min-fraction-digits'] = this.minFractionDigits.serialize();\n    }\n    if (this.maxFractionDigits)\n      {\n        options['max-fraction-digits'] = this.maxFractionDigits.serialize();\n      }\n    return [\"number-format\", this.number.serialize(), options];\n  }\n  \"\" @flow\n  import\n  {NumberType, toString} from './types';\n  import {typeOf} from './values';\n  import RuntimeError from\n  './runtime_error';\n  import type {Expression} from './expression';\n  import type ParsingContext from\n  './parsing_context';\n  import type EvaluationContext from './evaluation_context';\n  import type {Type} from\n  './types';\n  class Length implements Expression {\n    type: Type;\n    input: Expression;\n\n    constructor(input:\n    Expression) {\n      this.type = NumberType;\n      this.input = input;\n    }\n\n    static parse(args:\n    $ReadOnlyArray<mixed>, context: ParsingContext) {\n      if (args.length !== 2)\n        return\n        context.error(`Expected 1 argument, but found ${args.length - 1} instead.`);\n      const input =\n        context.parse(args[1], 1);\n      if (!input) return null;\n      if (input.type.kind !== 'array' && input.type.kind !==\n        'string' && input.type.kind\n        !== 'value')\n        return context.error(`Expected argument of type string or array, but found\n        ${toString(input.type)} instead.`);\n      return new Length(input);\n    }\n\n    evaluate(ctx: EvaluationContext)\n    {\n      const input = this.input.evaluate(ctx);\n      if (typeof input === 'string') {\n        return input.length;\n      } else if (Array.isArray(input)) {\n        return input.length;\n      } else {\n        throw new\n        RuntimeError(`Expected value to be of type string or array, but found\n        ${toString(typeOf(input))} instead.`);\n      }\n    }\n\n    eachChild(fn: (_: Expression) => void) {\n      fn(this.input);\n    }\n\n    outputDefined() {\n      return false;\n    }\n\n    serialize() {\n      const serialized = [\"length\"];\n      this.eachChild(child => {\n        serialized.push(child.serialize());\n      });\n      return serialized;\n    }\n  }\n  export default Length;\n  \"\" //\n  @flow\n  import {\n    type Type,\n    NumberType,\n    StringType,\n    BooleanType,\n    ColorType,\n    ObjectType,\n    ValueType,\n    ErrorType,\n    CollatorType,\n    array,\n    toString as typeToString\n  } from './types';\n  import {typeOf, Color, validateRGBA,\n    toString as valueToString} from './values';\n  import CompoundExpression from './compound_expression';\n  import\n  RuntimeError from './runtime_error';\n  import Let from './let';\n  import Var from './var';\n  import Literal from\n  './literal';\n  import Assertion from './assertion';\n  import Coercion from './coercion';\n  import At from './at';\n  import In\n  from './in';\n  import IndexOf from './index_of';\n  import Match from './match';\n  import Case from './case';\n  import\n  Slice from './slice';\n  import Step from './step';\n  import Interpolate from './interpolate';\n  import Coalesce from\n  './coalesce';\n  import {\n    Equals,\n    NotEquals,\n    LessThan,\n    GreaterThan,\n    LessThanOrEqual,\n
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GreaterThanOrEqual\n} from './comparison';\nimport CollatorExpression from './collator';\nimport
NumberFormat from './number_format';\nimport FormatExpression from './format';\nimport ImageExpression from
'/image';\nimport Length from './length';\nimport Within from './within';\n\nimport type {Varargs} from
'./compound_expression';\nimport type {ExpressionRegistry} from './expression';\n\nconst expressions:
ExpressionRegistry = {\n // special forms\n '==': Equals,\n '!=': NotEquals,\n '>': GreaterThan,\n '<':
LessThan,\n '>=': GreaterThanOrEqual,\n '<=': LessThanOrEqual,\n 'array': Assertion,\n 'at': At,\n
'boolean': Assertion,\n 'case': Case,\n 'coalesce': Coalesce,\n 'collator': CollatorExpression,\n 'format':
FormatExpression,\n 'image': ImageExpression,\n 'in': In,\n 'index-of': IndexOf,\n 'interpolate': Interpolate,\n
'interpolate-hcl': Interpolate,\n 'interpolate-lab': Interpolate,\n 'length': Length,\n 'let': Let,\n 'literal':
Literal,\n 'match': Match,\n 'number': Assertion,\n 'number-format':
NumberFormat,\n 'object': Assertion,\n 'slice': Slice,\n 'step': Step,\n 'string': Assertion,\n 'to-boolean':
Coercion,\n 'to-color': Coercion,\n 'to-number': Coercion,\n 'to-string': Coercion,\n 'var': Var,\n 'within':
Within\n};\n\nfunction rgba(ctx, [r, g, b, a]) {\n r = r.evaluate(ctx);\n g = g.evaluate(ctx);\n b =
b.evaluate(ctx);\n const alpha = a ? a.evaluate(ctx) : 1;\n const error = validateRGBA(r, g, b, alpha);\n if (error)
throw new RuntimeError(error);\n return new Color(r / 255 * alpha, g / 255 * alpha, b / 255 * alpha,
alpha);\n}\n\nfunction has(key, obj) {\n return key in obj;\n}\n\nfunction get(key, obj) {\n const v = obj[key];\n
return typeof v === 'undefined' ? null : v;\n}\n\nfunction binarySearch(v, a, i, j) {\n while (i <= j) {\n const m
= (i + j) >> 1;\n if (a[m] === v)\n return true;\n if (a[m] > v)\n j = m - 1;\n else\n i
= m + 1;\n }\n return false;\n}\n\nfunction varargs(type: Type): Varargs {\n return
{type};\n}\n\nCompoundExpression.register(expressions, {\n 'error': [\n ErrorType,\n [StringType],\n
(ctx, [v]) => { throw new RuntimeError(v.evaluate(ctx)); }\n ],\n 'typeof': [\n StringType,\n
[ValueType],\n (ctx, [v]) => typeToString(typeOf(v.evaluate(ctx)))\n ],\n 'to-rgba': [\n
array(NumberType, 4),\n [ColorType],\n (ctx, [v]) => {\n return v.evaluate(ctx).toArray();\n }\n
],\n 'rgb': [\n ColorType,\n [NumberType, NumberType, NumberType],\n rgba\n ],\n 'rgba': [\n
ColorType,\n [NumberType, NumberType, NumberType, NumberType],\n rgba\n ],\n 'has': {\n
type: BooleanType,\n overloads: [\n [\n [StringType],\n (ctx, [key]) =>
has(key.evaluate(ctx), ctx.properties())\n ],\n
[StringType, ObjectType],\n (ctx, [key, obj]) => has(key.evaluate(ctx), obj.evaluate(ctx))\n ]\n
],\n 'get': {\n type: ValueType,\n overloads: [\n [\n [StringType],\n (ctx,
[key]) => get(key.evaluate(ctx), ctx.properties())\n ],\n
[StringType, ObjectType],\n (ctx, [key, obj]) => get(key.evaluate(ctx), obj.evaluate(ctx))\n ]\n
],\n 'feature-state': [\n
ValueType,\n [StringType],\n (ctx, [key]) => get(key.evaluate(ctx), ctx.featureState || {})\n ],\n
'properties': [\n ObjectType,\n [],\n (ctx) => ctx.properties()\n ],\n 'geometry-type': [\n
StringType,\n [],\n (ctx) => ctx.geometryType()\n ],\n 'id': [\n ValueType,\n [],\n (ctx) =>
ctx.id()\n ],\n 'zoom': [\n NumberType,\n [],\n (ctx) => ctx.globals.zoom\n
],\n 'heatmap-density': [\n NumberType,\n [],\n (ctx) => ctx.globals.heatmapDensity || 0\n ],\n
'line-progress': [\n NumberType,\n [],\n (ctx) => ctx.globals.lineProgress || 0\n ],\n 'accumulated':
[\n ValueType,\n [],\n (ctx) => ctx.globals.accumulated === undefined ? null :
ctx.globals.accumulated\n ],\n '+': [\n NumberType,\n varargs(NumberType),\n (ctx, args) => {\n
let result = 0;\n for (const arg of args) {\n result += arg.evaluate(ctx);\n }\n return
result;\n }\n ],\n '*': [\n NumberType,\n varargs(NumberType),\n (ctx, args) => {\n let
result = 1;\n for (const arg of args) {\n result *= arg.evaluate(ctx);\n }\n return
result;\n }\n ],\n '-': {\n type: NumberType,\n overloads: [\n
[\n [NumberType, NumberType],\n (ctx, [a, b]) => a.evaluate(ctx) - b.evaluate(ctx)\n
],\n
[\n [NumberType],\n (ctx, [a]) => -a.evaluate(ctx)\n ]\n ]\n },\n '/': [\n
NumberType,\n [NumberType, NumberType],\n (ctx, [a, b]) => a.evaluate(ctx) / b.evaluate(ctx)\n
],\n '%': [\n NumberType,\n [NumberType, NumberType],\n (ctx, [a, b]) => a.evaluate(ctx) %

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b.evaluate(ctx)\n ],\n 'ln2': [\n    NumberType,\n    [],\n    () => Math.LN2\n ],\n 'pi': [\n    NumberType,\n    [],\n    () => Math.PI\n ],\n 'e': [\n    NumberType,\n    [],\n    () => Math.E\n ],\n '^': [\n    NumberType,\n    [NumberType, NumberType],\n    (ctx, [b, e]) => Math.pow(b.evaluate(ctx),\n    e.evaluate(ctx))\n ],\n 'sqrt': [\n    NumberType,\n    [NumberType],\n    (ctx, [x]) =>\n    Math.sqrt(x.evaluate(ctx))\n ],\n 'log10': [\n    NumberType,\n    [NumberType],\n    (ctx, [n]) => Math.log(n.evaluate(ctx)) /\n    Math.LN10\n ],\n 'ln': [\n    NumberType,\n    [NumberType],\n    (ctx, [n]) =>\n    Math.log(n.evaluate(ctx))\n ],\n 'log2': [\n    NumberType,\n    [NumberType],\n    (ctx, [n]) =>\n    Math.log(n.evaluate(ctx)) / Math.LN2\n ],\n 'sin': [\n    NumberType,\n    [NumberType],\n    (ctx, [n])\n    => Math.sin(n.evaluate(ctx))\n ],\n 'cos': [\n    NumberType,\n    [NumberType],\n    (ctx, [n]) =>\n    Math.cos(n.evaluate(ctx))\n ],\n 'tan': [\n    NumberType,\n    [NumberType],\n    (ctx, [n]) =>\n    Math.tan(n.evaluate(ctx))\n ],\n 'asin': [\n    NumberType,\n    [NumberType],\n    (ctx, [n]) =>\n    Math.asin(n.evaluate(ctx))\n ],\n 'acos': [\n    NumberType,\n    [NumberType],\n    (ctx, [n]) =>\n    Math.acos(n.evaluate(ctx))\n ],\n 'atan': [\n    NumberType,\n    [NumberType],\n    (ctx, [n]) => Math.atan(n.evaluate(ctx))\n ],\n 'min': [\n    NumberType,\n    varargs(NumberType),\n    (ctx, args) => Math.min(...args.map(arg => arg.evaluate(ctx)))\n ],\n 'max': [\n    NumberType,\n    varargs(NumberType),\n    (ctx, args) => Math.max(...args.map(arg => arg.evaluate(ctx)))\n ],\n 'abs': [\n    NumberType,\n    [NumberType],\n    (ctx, [n]) => Math.abs(n.evaluate(ctx))\n ],\n 'round': [\n    NumberType,\n    [NumberType],\n    (ctx, [n]) => {\n        const v = n.evaluate(ctx);\n        // Javascript's Math.round() rounds towards +Infinity for halfway\n        // values, even when they're negative. It's\n        more common to round\n        // away from 0 (e.g., this is what python and C++ do)\n        return v < 0 ? -\n        Math.round(-v) : Math.round(v);\n    } ],\n 'floor': [\n    NumberType,\n    [NumberType],\n    (ctx,\n    [n]) =>\n    Math.floor(n.evaluate(ctx))\n ],\n 'ceil': [\n    NumberType,\n    [NumberType],\n    (ctx, [n]) =>\n    Math.ceil(n.evaluate(ctx))\n ],\n 'filter-===': [\n    BooleanType,\n    [StringType, ValueType],\n    (ctx, [k,\n    v]) => ctx.properties()[k].value === (v: any).value\n ],\n 'filter-id-===': [\n    BooleanType,\n    [ValueType],\n    (ctx, [v]) => ctx.id() === (v: any).value\n ],\n 'filter-type-===': [\n    BooleanType,\n    [StringType],\n    (ctx, [v]) => ctx.geometryType() === (v: any).value\n ],\n 'filter-<': [\n    BooleanType,\n    [StringType, ValueType],\n    (ctx, [k, v]) => {\n        const a = ctx.properties()[k].value;\n        const b = (v: any).value;\n        return typeof a === typeof b && a < b;\n    } ],\n 'filter-id-<': [\n    BooleanType,\n    [ValueType],\n    (ctx, [v]) => {\n        const a = ctx.id();\n        const b = (v:\n        any).value;\n        return typeof a === typeof b && a < b;\n    } ],\n 'filter->': [\n    BooleanType,\n    [StringType, ValueType],\n    (ctx, [k, v]) => {\n        const a = ctx.properties()[k].value;\n        const b\n        = (v: any).value;\n        return typeof a === typeof b && a > b;\n    } ],\n 'filter-id->': [\n    BooleanType,\n    [ValueType],\n    (ctx, [v]) => {\n        const a = ctx.id();\n        const b = (v:\n        any).value;\n        return typeof a === typeof b && a > b;\n    } ],\n 'filter-<=': [\n    BooleanType,\n    [StringType, ValueType],\n    (ctx, [k, v]) => {\n        const a = ctx.properties()[k].value;\n        const b\n        = (v: any).value;\n        return typeof a === typeof b && a <= b;\n    } ],\n 'filter-id-<=': [\n    BooleanType,\n    [ValueType],\n    (ctx, [v]) => {\n        const a = ctx.id();\n        const\n        b = (v: any).value;\n        return typeof a === typeof b && a <= b;\n    } ],\n 'filter->=': [\n    BooleanType,\n    [StringType, ValueType],\n    (ctx, [k, v]) => {\n        const a = ctx.properties()[k:\n        any].value;\n        const b = (v: any).value;\n        return typeof a === typeof b && a >= b;\n    } ],\n 'filter-id->=': [\n    BooleanType,\n    [ValueType],\n    (ctx, [v]) => {\n        const a = ctx.id();\n        const b = (v: any).value;\n        return typeof a === typeof b && a >= b;\n    } ],\n 'filter-has': [\n    BooleanType,\n    [ValueType],\n    (ctx, [k]) => (k: any).value in ctx.properties()\n ],\n 'filter-has-id': [\n    BooleanType,\n    [],\n    (ctx) => (ctx.id() !== null && ctx.id() !== undefined)\n ],\n 'filter-type-in': [\n    BooleanType,\n    [array(StringType)],\n    (ctx, [v]) => (v: any).value.indexOf(ctx.geometryType())

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>= 0\n ],\n 'filter-id-in': [\n BooleanType,\n [array(ValueType)],\n (ctx, [v]) => (v:
any).value.indexOf(ctx.id()) >= 0\n ],\n 'filter-in-small': [\n BooleanType,\n [StringType,
array(ValueType)],\n // assumes v is an array literal\n (ctx, [k, v]) => (v:
any).value.indexOf(ctx.properties()[k: any].value) >= 0\n ],\n 'filter-in-large': [\n BooleanType,\n
[StringType, array(ValueType)],\n // assumes v is a array literal with values sorted in ascending order and of a
single type\n (ctx, [k, v]) => binarySearch(ctx.properties()[k: any].value, (v: any).value, 0, (v:
any).value.length - 1)\n ],\n 'all': {\n type: BooleanType,\n overloads: [\n [\n
[BooleanType, BooleanType],\n (ctx, [a, b]) => a.evaluate(ctx) && b.evaluate(ctx)\n ],\n [\n
varargs(BooleanType),\n (ctx, args)
=> {\n for (const arg of args) {\n if (!arg.evaluate(ctx))\n return false;\n
}\n return true;\n }\n ]\n ],\n 'any': {\n type: BooleanType,\n
overloads: [\n [\n [BooleanType, BooleanType],\n (ctx, [a, b]) => a.evaluate(ctx) ||
b.evaluate(ctx)\n ],\n [\n varargs(BooleanType),\n (ctx, args) => {\n for
(const arg of args) {\n if (arg.evaluate(ctx))\n return true;\n }\n
return false;\n }\n ]\n ]\n ],\n '!': [\n BooleanType,\n [BooleanType],\n (ctx,
[b]) => !b.evaluate(ctx)\n ],\n 'is-supported-script': [\n BooleanType,\n [StringType],\n // At parse
time this will always return true, so we need to exclude this expression with isGlobalPropertyConstant\n (ctx,
[s]) => {\n const isSupportedScript = ctx.globals && ctx.globals.isSupportedScript;\n if
(isSupportedScript) {\n return isSupportedScript(s.evaluate(ctx));\n }\n return true;\n }\n
],\n 'uppercase': [\n StringType,\n [StringType],\n (ctx, [s]) => s.evaluate(ctx).toUpperCase()\n ],\n
'downcase': [\n StringType,\n [StringType],\n (ctx, [s]) => s.evaluate(ctx).toLowerCase()\n ],\n
'concat': [\n StringType,\n varargs(ValueType),\n (ctx, args) => args.map(arg =>
valueToString(arg.evaluate(ctx))).join("\n ],\n 'resolved-locale': [\n StringType,\n [CollatorType],\n
(ctx, [collator]) => collator.evaluate(ctx).resolvedLocale()\n ]\n});\n\nexport default expressions;\n", "//
@flow\n\n**\n * A type used for

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returning and propagating errors. The first element of the union\n * represents success and contains a value, and the
second represents an error and\n * contains an error value.\n * @private\n *\nexport type Result<T, E> =\n | {\n
result: 'success', value: T }\n | {\n result: 'error', value: E };\n\nexport function success<T, E>(value: T): Result<T,
E> {\n return {\n result: 'success', value;\n }\n}\n\nexport function error<T, E>(value: E): Result<T, E> {\n return
{\n result: 'error', value;\n }\n}\n\n", "// @flow\n\nimport type {StylePropertySpecification} from './style-spec';\n\nexport
function supportsPropertyExpression(spec: StylePropertySpecification): boolean {\n return spec['property-type']
=== 'data-driven' || spec['property-type'] === 'cross-faded-data-driven';\n }\n\nexport function
supportsZoomExpression(spec: StylePropertySpecification): boolean {\n return !!spec.expression &&
spec.expression.parameters.indexOf('zoom') > -1;\n }\n\nexport function supportsInterpolation(spec:
StylePropertySpecification): boolean {\n return !!spec.expression && spec.expression.interpolated;\n }\n\n", "//
@flow\n\nexport default function getType(val: mixed): string {\n if (val instanceof Number) {\n return
'number';\n } else if (val instanceof String) {\n return 'string';\n } else if (val instanceof Boolean) {\n
return 'boolean';\n } else if (Array.isArray(val)) {\n return 'array';\n } else if (val === null) {\n return
'null';\n } else {\n return typeof val;\n }\n }\n\n", "\nimport * as colorSpaces from './util/color_spaces';\nimport
Color from './util/color';\nimport extend from './util/extend';\nimport getType from './util/get_type';\nimport * as
interpolate from './util/interpolate';\nimport Interpolate from './expression/definitions/interpolate';\nimport
Formatted from './expression/types/formatted';\nimport ResolvedImage from
'./expression/types/resolved_image';\nimport {supportsInterpolation} from
'./util/properties';\nimport {findStopLessThanOrEqualTo} from './expression/stops';\n\nexport function
isFunction(value) {\n return typeof value === 'object' && value !== null &&
!Array.isArray(value);\n }\n\nfunction identityFunction(x) {\n return x;\n }\n\nexport function
createFunction(parameters, propertySpec) {\n const isColor = propertySpec.type === 'color';\n const
zoomAndFeatureDependent = parameters.stops && typeof parameters.stops[0][0] === 'object';\n const

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featureDependent = zoomAndFeatureDependent || parameters.property !== undefined;\n  const zoomDependent =
zoomAndFeatureDependent || !featureDependent;\n  const type = parameters.type ||
(supportsInterpolation(propertySpec) ? 'exponential' : 'interval');\n\n  if (isColor) {\n    parameters = extend({},
parameters);\n\n    if (parameters.stops) {\n      parameters.stops = parameters.stops.map((stop) => {\n
return [stop[0], Color.parse(stop[1])];\n      });\n    }\n\n    if (parameters.default) {\n      parameters.default = Color.parse(parameters.default);\n    } else {\n
parameters.default = Color.parse(propertySpec.default);\n    }\n\n    if (parameters.colorSpace &&
parameters.colorSpace !== 'rgb' && !colorSpaces[parameters.colorSpace]) { // eslint-disable-line
import/namespace\n      throw new Error(`Unknown color space: ${parameters.colorSpace}`);\n    }\n\n    let
innerFun;\n    let hashedStops;\n    let categoricalKeyType;\n    if (type === 'exponential') {\n      innerFun =
evaluateExponentialFunction;\n    } else if (type === 'interval') {\n      innerFun = evaluateIntervalFunction;\n    }
else if (type === 'categorical') {\n      innerFun = evaluateCategoricalFunction;\n\n      // For categorical functions,
generate an Object as a hashmap of the stops for fast searching\n      hashedStops = Object.create(null);\n      for
(const stop of parameters.stops) {\n        hashedStops[stop[0]]
= stop[1];\n      }\n\n      // Infer key type based on first stop key-- used to enforce strict type checking later\n
categoricalKeyType = typeof parameters.stops[0][0];\n\n    } else if (type === 'identity') {\n      innerFun =
evaluateIdentityFunction;\n    } else {\n      throw new Error(`Unknown function type "${type}"`);\n    }\n\n    if
(zoomAndFeatureDependent) {\n      const featureFunctions = {};\n      const zoomStops = [];\n      for (let s = 0;
s < parameters.stops.length; s++) {\n        const stop = parameters.stops[s];\n        const zoom = stop[0].zoom;\n
        if (featureFunctions[zoom] === undefined) {\n          featureFunctions[zoom] = {\n            zoom,\n
            type: parameters.type,\n            property: parameters.property,\n            default:
parameters.default,\n            stops: []\n          };\n          zoomStops.push(zoom);\n        }\n
        featureFunctions[zoom].stops.push([stop[0].value, stop[1]]);\n      }\n\n      const featureFunctionStops = [];\n
      for (const z of zoomStops) {\n        featureFunctionStops.push([featureFunctions[z].zoom,
createFunction(featureFunctions[z], propertySpec)]);\n      }\n\n      const interpolationType = {name: 'linear'};\n
      return {\n        kind: 'composite',\n        interpolationType,\n        interpolationFactor:
Interpolate.interpolationFactor.bind(undefined, interpolationType),\n        zoomStops:
featureFunctionStops.map(s => s[0]),\n        evaluate: ({zoom}, properties) {\n          return
evaluateExponentialFunction({\n            stops: featureFunctionStops,\n            base: parameters.base\n
          }, propertySpec, zoom).evaluate(zoom, properties);\n        }\n      }; \n    } else if (zoomDependent) {\n
const interpolationType = type === 'exponential' ?\n      {name: 'exponential',
base: parameters.base !== undefined ? parameters.base : 1} : null;\n      return {\n        kind: 'camera',\n
interpolationType,\n        interpolationFactor: Interpolate.interpolationFactor.bind(undefined,
interpolationType),\n        zoomStops: parameters.stops.map(s => s[0]),\n        evaluate: ({zoom}) =>
innerFun(parameters, propertySpec, zoom, hashedStops, categoricalKeyType)\n      }; \n    } else {\n      return {\n
        kind: 'source',\n        evaluate(_, feature) {\n          const value = feature && feature.properties ?
feature.properties[parameters.property] : undefined;\n          if (value === undefined) {\n            return
coalesce(parameters.default, propertySpec.default);\n          }\n          return innerFun(parameters,
propertySpec, value, hashedStops, categoricalKeyType);\n        }\n      }; \n    }\n  }\n\nfunction coalesce(a, b, c)
{\n  if (a !== undefined) return a;\n  if (b
!== undefined) return b;\n  if (c !== undefined) return c;\n}\n\nfunction evaluateCategoricalFunction(parameters,
propertySpec, input, hashedStops, keyType) {\n  const evaluated = typeof input === keyType ? hashedStops[input]
: undefined; // Enforce strict typing on input\n  return coalesce(evaluated, parameters.default,
propertySpec.default);\n}\n\nfunction evaluateIntervalFunction(parameters, propertySpec, input) {\n  // Edge
cases\n  if (getType(input) !== 'number') return coalesce(parameters.default, propertySpec.default);\n  const n =
parameters.stops.length;\n  if (n === 1) return parameters.stops[0][1];\n  if (input <= parameters.stops[0][0])
return parameters.stops[0][1];\n  if (input >= parameters.stops[n - 1][0]) return parameters.stops[n - 1][1];\n\n  const index = findStopLessThanOrEqualTo(parameters.stops.map((stop) => stop[0]), input);\n  return

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parameters.stops[index][1];\n}\n\nfunction evaluateExponentialFunction(parameters, propertySpec, input)
{\n  const base = parameters.base !== undefined ? parameters.base : 1;\n\n  // Edge cases\n  if (getType(input)
!== 'number') return coalesce(parameters.default, propertySpec.default);\n  const n = parameters.stops.length;\n  if
(n === 1) return parameters.stops[0][1];\n  if (input <= parameters.stops[0][0]) return parameters.stops[0][1];\n  if
(input >= parameters.stops[n - 1][0]) return parameters.stops[n - 1][1];\n\n  const index =
findStopLessThanOrEqualTo(parameters.stops.map((stop) => stop[0]), input);\n  const t = interpolationFactor(\n
input, base,\n  parameters.stops[index][0],\n  parameters.stops[index + 1][0]);\n\n  const outputLower =
parameters.stops[index][1];\n  const outputUpper = parameters.stops[index + 1][1];\n  let interp =
interpolate[propertySpec.type] || identityFunction; // eslint-disable-line import/namespace\n\n  if
(parameters.colorSpace && parameters.colorSpace !== 'rgb') {\n    const colorspace =
colorSpaces[parameters.colorSpace];
// eslint-disable-line import/namespace\n    interp = (a, b) =>
colorspace.reverse(colorspace.interpolate(colorspace.forward(a), colorspace.forward(b), t));\n  }\n\n  if (typeof
outputLower.evaluate === 'function') {\n    return {\n      evaluate(...args) {\n        const evaluatedLower
= outputLower.evaluate.apply(undefined, args);\n        const evaluatedUpper =
outputUpper.evaluate.apply(undefined, args);\n        // Special case for fill-outline-color, which has no spec
default.\n        if (evaluatedLower === undefined || evaluatedUpper === undefined) {\n          return
undefined;\n        }\n        return interp(evaluatedLower, evaluatedUpper, t);\n      }\n    };\n  }\n\n  return interp(outputLower, outputUpper, t);\n}\n\nfunction evaluateIdentityFunction(parameters, propertySpec,
input) {\n  if (propertySpec.type === 'color') {\n    input = Color.parse(input);\n  } else if (propertySpec.type === 'formatted') {\n    input = Formatted.fromString(input.toString());\n  } else if
(propertySpec.type === 'resolvedImage') {\n    input = ResolvedImage.fromString(input.toString());\n  } else if
(getType(input) !== propertySpec.type && (propertySpec.type !== 'enum' || !propertySpec.values[input])) {\n
input = undefined;\n  }\n  return coalesce(input, parameters.default, propertySpec.default);\n}\n\n/**\n * Returns
a ratio that can be used to interpolate between exponential function\n * stops.\n * How it works:\n * Two
consecutive stop values define a (scaled and shifted) exponential\n * function `f(x) = a * base^x + b`, where `base` is
the user-specified base,\n * and `a` and `b` are constants affording sufficient degrees of freedom to fit\n * the
function to the given stops.\n * Here's a bit of algebra that lets us compute `f(x)` directly from the stop\n *
values without explicitly solving for `a` and `b`:\n *\n * First
stop value: `f(x0) = y0 = a * base^x0 + b`\n * Second stop value: `f(x1) = y1 = a * base^x1 + b`\n * => `y1 - y0 =
a(base^x1 - base^x0)`\n * => `a = (y1 - y0)/(base^x1 - base^x0)`\n *\n * Desired value: `f(x) = y = a * base^x + b`\n
* => `f(x) = y0 + a * (base^x - base^x0)`\n *\n * From the above, we can replace the `a` in `a * (base^x - base^x0)`
and do a\n * little algebra:\n * ``\n * a * (base^x - base^x0) = (y1 - y0)/(base^x1 - base^x0) * (base^x - base^x0)\n
* = (y1 - y0) * (base^x - base^x0) / (base^x1 - base^x0)\n * ``\n *\n * If we let `(base^x - base^x0) /
(base^x1 - base^x0)`, then we have\n * `f(x) = y0 + (y1 - y0) * ratio`. In other words, `ratio` may be treated as\n *
an interpolation factor between the two stops' output values.\n *\n * (Note: a slightly different form for `ratio`,\n *
`(base^(x-x0) - 1) / (base^(x1-x0) - 1)`, is equivalent, but requires fewer\n * expensive `Math.pow()` operations.)\n
*\n * @private\n */\nfunction interpolationFactor(input,
base, lowerValue, upperValue) {\n  const difference = upperValue - lowerValue;\n  const progress = input -
lowerValue;\n\n  if (difference === 0) {\n    return 0;\n  } else if (base === 1) {\n    return progress /
difference;\n  } else {\n    return (Math.pow(base, progress) - 1) / (Math.pow(base, difference) - 1);\n  }\n}\n\n// @flow\n\nimport assert from 'assert';\nimport extend from './util/extend';\nimport ParsingError from
 './parsing_error';\nimport ParsingContext from './parsing_context';\nimport EvaluationContext from
 './evaluation_context';\nimport CompoundExpression from './compound_expression';\nimport Step from
 './definitions/step';\nimport Interpolate from './definitions/interpolate';\nimport Coalesce from
 './definitions/coalesce';\nimport Let from './definitions/let';\nimport definitions from './definitions';\nimport * as
isConstant from './is_constant';\nimport RuntimeError from './runtime_error';\nimport {success, error} from
 './util/result';\nimport

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{supportsPropertyExpression, supportsZoomExpression, supportsInterpolation} from './util/properties';\n\nimport
type {Type, EvaluationKind} from './types';\n\nimport type {Value} from './values';\n\nimport type {Expression} from
'./expression';\n\nimport type {StylePropertySpecification} from './style-spec';\n\nimport type {Result} from
'./util/result';\n\nimport type {InterpolationType} from './definitions/interpolate';\n\nimport type
{PropertyValueSpecification} from './types';\n\nimport type {FormattedSection} from './types/formatted';\n\nimport
type Point from '@mapbox/point-geometry';\n\nimport type {CanonicalTileID} from './../source/tile_id';\n\nexport
type Feature = {\n  +type: 1 | 2 | 3 | 'Unknown' | 'Point' | 'MultiPoint' | 'LineString' | 'MultiLineString' | 'Polygon' |
'MultiPolygon',\n  +id?: any,\n  +properties: {[_: string]: any},\n  +patterns?: {[_: string]: {"min": string,
"mid": string, "max": string}},\n  +geometry?: Array<Array<Point>>};\n\nexport
type FeatureState = {[_: string]: any};\n\nexport type GlobalProperties = $ReadOnly<{\n  zoom: number,\n
heatmapDensity?: number,\n  lineProgress?: number,\n  isSupportedScript?: (_: string) => boolean,\n
accumulated?: Value}>;\n\nexport class StyleExpression {\n  expression: Expression;\n\n  _evaluator:
EvaluationContext;\n  _defaultValue: Value;\n  _warningHistory: {[key: string]: boolean};\n  _enumValues:
?{[_: string]: any};\n\n  constructor(expression: Expression, propertySpec: ?StylePropertySpecification) {\n
this.expression = expression;\n  this._warningHistory = {};\n  this._evaluator = new EvaluationContext();\n
this._defaultValue = propertySpec ? getDefaultValue(propertySpec) : null;\n  this._enumValues =
propertySpec && propertySpec.type === 'enum' ? propertySpec.values : null;\n  }\n\n  evaluateWithoutErrorHandling(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?:
CanonicalTileID,
  availableImages?: Array<string>, formattedSection?: FormattedSection): any {\n    this._evaluator.globals =
globals;\n    this._evaluator.feature = feature;\n    this._evaluator.featureState = featureState;\n
this._evaluator.canonical = canonical;\n    this._evaluator.availableImages = availableImages || null;\n
this._evaluator.formattedSection = formattedSection;\n\n    return this.expression.evaluate(this._evaluator);\n
  }\n\n  evaluate(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?:
CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection): any {\n
this._evaluator.globals = globals;\n    this._evaluator.feature = feature || null;\n    this._evaluator.featureState =
featureState || null;\n    this._evaluator.canonical = canonical;\n    this._evaluator.availableImages =
availableImages || null;\n    this._evaluator.formattedSection = formattedSection
|| null;\n\n    try {\n      const val = this.expression.evaluate(this._evaluator);\n      // eslint-disable-next-line
no-self-compare\n      if (val === null || val === undefined || (typeof val === 'number' && val !== val)) {\n
return this._defaultValue;\n      }\n      if (this._enumValues && !(val in this._enumValues)) {\n
throw new RuntimeError(`Expected value to be one of ${Object.keys(this._enumValues).map(v =>
JSON.stringify(v)).join(', ')}, but found ${JSON.stringify(val)} instead.`);\n      }\n      return val;\n    }
catch (e) {\n      if (!this._warningHistory[e.message]) {\n        this._warningHistory[e.message] = true;\n
if (typeof console !== 'undefined') {\n          console.warn(e.message);\n        }\n      }\n    }\n
return this._defaultValue;\n  }\n}\n\nexport function isExpression(expression: mixed) {\n  return
Array.isArray(expression) && expression.length > 0 &&\n    typeof expression[0] === 'string' && expression[0]
in definitions;\n}\n\n/**\n * Parse and typecheck the given style spec JSON expression. If\n * options.defaultValue
is provided, then the resulting StyleExpression's\n * `evaluate()` method will handle errors by logging a warning
(once per\n * message) and returning the default value. Otherwise, it will throw\n * evaluation errors.\n *\n *
@private\n */\nexport function createExpression(expression: mixed, propertySpec: ?StylePropertySpecification):
Result<StyleExpression, Array<ParsingError>> {\n  const parser = new ParsingContext(definitions, [],
propertySpec ? getExpectedType(propertySpec) : undefined);\n\n  // For string-valued properties, coerce to string
at the top level rather than asserting.\n  const parsed = parser.parse(expression, undefined, undefined, undefined,\n
propertySpec && propertySpec.type === 'string' ? {typeAnnotation: 'coerce'} : undefined);\n\n  if (!parsed) {\n
assert(parser.errors.length > 0);\n    return error(parser.errors);\n  }\n\n  return
success(new StyleExpression(parsed, propertySpec));\n}\n\nexport class ZoomConstantExpression<Kind:
EvaluationKind> {\n  kind: Kind;\n  isStateDependent: boolean;\n  _styleExpression: StyleExpression;\n\n

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constructor(kind: Kind, expression: StyleExpression) {\n    this.kind = kind;\n    this._styleExpression =
expression;\n    this.isStateDependent = kind !== ('constant': EvaluationKind) &&
!isConstant.isStateConstant(expression.expression);\n }
\n\n evaluateWithoutErrorHandling(globals:
GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?:
Array<string>, formattedSection?: FormattedSection): any {\n    return
this._styleExpression.evaluateWithoutErrorHandling(globals, feature, featureState, canonical, availableImages,
formattedSection);\n }
\n\n evaluate(globals:
GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?:
Array<string>, formattedSection?: FormattedSection): any {\n    return this._styleExpression.evaluate(globals,
feature, featureState, canonical, availableImages, formattedSection);\n }
\n}\n\nexport class
ZoomDependentExpression<Kind: EvaluationKind> {\n    kind: Kind;\n    zoomStops: Array<number>;\n
isStateDependent: boolean;\n\n _styleExpression: StyleExpression;\n    interpolationType: ?InterpolationType;\n\n
constructor(kind: Kind, expression: StyleExpression, zoomStops: Array<number>, interpolationType?:
InterpolationType) {\n    this.kind = kind;\n    this.zoomStops = zoomStops;\n    this._styleExpression =
expression;\n    this.isStateDependent = kind !== ('camera': EvaluationKind) &&
!isConstant.isStateConstant(expression.expression);\n    this.interpolationType = interpolationType;\n }
\n\n evaluateWithoutErrorHandling(globals:
GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?:
Array<string>, formattedSection?: FormattedSection): any {\n    return
this._styleExpression.evaluateWithoutErrorHandling(globals, feature, featureState, canonical, availableImages,
formattedSection);\n }
\n\n evaluate(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState,
canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection): any {\n
return this._styleExpression.evaluate(globals, feature, featureState, canonical, availableImages, formattedSection);\n
}\n\n interpolationFactor(input: number, lower: number, upper: number): number {\n    if
(this.interpolationType) {\n        return Interpolate.interpolationFactor(this.interpolationType, input, lower,
upper);\n    } else {\n        return 0;\n    }\n }\n }\n }\n\n\nexport type ConstantExpression = {\n    kind:
'constant',\n    +evaluate: (globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID,
availableImages?: Array<string>) => any,\n }\n\n\nexport type SourceExpression = {\n    kind: 'source',\n
isStateDependent: boolean,\n    +evaluate: (globals: GlobalProperties, feature?: Feature, featureState?: FeatureState,
canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection) =>
any,\n };\n\n\nexport type CameraExpression = {\n    kind: 'camera',\n    +evaluate: (globals: GlobalProperties,
feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>) =>
any,\n    +interpolationFactor: (input: number, lower: number, upper: number) => number,\n    zoomStops:
Array<number>,\n    interpolationType: ?InterpolationType;\n }\n\n\nexport type CompositeExpression = {\n    kind:
'composite',\n    isStateDependent: boolean,\n    +evaluate: (globals: GlobalProperties, feature?: Feature,
featureState?:
FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection)
=> any,\n    +interpolationFactor: (input: number, lower: number, upper: number) => number,\n    zoomStops:
Array<number>,\n    interpolationType: ?InterpolationType;\n }\n\n\nexport type StylePropertyExpression =\n |
ConstantExpression\n | SourceExpression\n | CameraExpression\n | CompositeExpression;\n\n\nexport function
createPropertyExpression(expression: mixed, propertySpec: StylePropertySpecification):
Result<StylePropertyExpression, Array<ParsingError>> {\n    expression = createExpression(expression,
propertySpec);\n    if (expression.result === 'error') {\n        return expression;\n    }\n\n    const parsed =
expression.value.expression;\n\n    const isFeatureConstant = isConstant.isFeatureConstant(parsed);\n    if
(!isFeatureConstant && !supportsPropertyExpression(propertySpec)) {\n        return error([new ParsingError(", 'data
expressions

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not supported')));\n } \n\n const isZoomConstant = isConstant.isGlobalPropertyConstant(parsed, ['zoom']);\n if\n(!isZoomConstant && !supportsZoomExpression(propertySpec)) {\n return error([new ParsingError(", 'zoom\nexpressions not supported')]);\n }\n\n const zoomCurve = findZoomCurve(parsed);\n if (!zoomCurve &&\n!isZoomConstant) {\n return error([new ParsingError(", \"zoom\" expression may only be used as input to a\n top-level \"step\" or \"interpolate\" expression.']);\n } else if (zoomCurve instanceof ParsingError) {\n return\nerror([zoomCurve]);\n } else if (zoomCurve instanceof Interpolate && !supportsInterpolation(propertySpec)) {\n\nreturn error([new ParsingError(", \"interpolate\" expressions cannot be used with this property')]);\n }\n\n if\n(!zoomCurve) {\n return success(isFeatureConstant ?\n (new ZoomConstantExpression('constant',\nexpression.value): ConstantExpression) :\n (new ZoomConstantExpression('source',\nexpression.value): SourceExpression));\n }\n\n const interpolationType = zoomCurve instanceof Interpolate ?\nzoomCurve.interpolation : undefined;\n\n return success(isFeatureConstant ?\n (new\nZoomDependentExpression('camera', expression.value, zoomCurve.labels, interpolationType): CameraExpression)\n:\n (new ZoomDependentExpression('composite', expression.value, zoomCurve.labels, interpolationType):\nCompositeExpression));\n}\n\nimport {isFunction, createFunction} from './function';\nimport {Color} from\n './values';\n\n// serialization wrapper for old-style stop functions normalized to the\n// expression interface\nexport\nclass StylePropertyFunction<T> {\n _parameters: PropertyValueSpecification<T>;\n _specification:\nStylePropertySpecification;\n kind: EvaluationKind;\n evaluate: (globals: GlobalProperties, feature?: Feature)\n=> any;\n interpolationFactor: ?(input: number, lower: number, upper: number) => number;\n zoomStops:\n?Array<number>;\n\n constructor(parameters: PropertyValueSpecification<T>, specification:\nStylePropertySpecification) {\n this._parameters = parameters;\n this._specification = specification;\n\n extend(this, createFunction(this._parameters, this._specification));\n }\n\n static deserialize(serialized:\n{ _parameters: PropertyValueSpecification<T>, _specification: StylePropertySpecification}) {\n return ((new\nStylePropertyFunction(serialized._parameters, serialized._specification)): StylePropertyFunction<T>);\n }\n\n static serialize(input: StylePropertyFunction<T>) {\n return {\n _parameters: input._parameters,\n _specification: input._specification\n }; }\n}\n\nexport function normalizePropertyExpression<T>(value:\nPropertyValueSpecification<T>, specification: StylePropertySpecification): StylePropertyExpression {\n if\n(isFunction(value)) {\n return (new StylePropertyFunction(value, specification):\nany);\n } else if (isExpression(value)) {\n const expression = createPropertyExpression(value,\nspecification);\n if (expression.result === 'error') {\n // this should have been caught in validation\nthrow new Error(expression.value.map(err => `${err.key}: ${err.message}`).join(', '));\n }\n return\nexpression.value;\n } else {\n let constant: any = value;\n if (typeof value === 'string' &&\nspecification.type === 'color') {\n constant = Color.parse(value);\n }\n return {\n kind:\n'constant',\n evaluate: () => constant\n }; }\n}\n\n// Zoom-dependent expressions may only use\n[\"zoom\"] as the input to a top-level \"step\" or \"interpolate\" expression (collectively referred to as a \"curve\").\nThe curve may be wrapped in one or more \"let\" or \"coalesce\" expressions.\nfunction\nfindZoomCurve(expression: Expression): Step | Interpolate | ParsingError\n| null {\n let result = null;\n if (expression instanceof Let) {\n result =\nfindZoomCurve(expression.result);\n } else if (expression instanceof Coalesce) {\n for (const arg of\nexpression.args) {\n result = findZoomCurve(arg);\n if (result) {\n break;\n }\n}\n } else if ((expression instanceof Step || expression instanceof Interpolate) &&\nexpression.input\ninstanceof CompoundExpression &&\nexpression.input.name === 'zoom') {\n result = expression;\n}\n\n if (result instanceof ParsingError) {\n return result;\n }\n\n expression.eachChild((child) => {\nconst childResult = findZoomCurve(child);\n if (childResult instanceof ParsingError) {\n result =\nchildResult;\n } else if (!result && childResult) {\n result = new ParsingError(", \"zoom\" expression\nmay only be used as input to a top-level \"step\" or \"interpolate\"\nexpression.);\n } else if (result && childResult && result !== childResult) {\n result = new\nParsingError(", 'Only one zoom-based \"step\" or \"interpolate\" subexpression may be used in an expression.);\n }\n});\n\n return result;\n}\n\nimport {ColorType, StringType, NumberType, BooleanType, ValueType,

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FormattedType, ResolvedImageType, array} from './types';\n\nfunction getExpectedType(spec:
StylePropertySpecification): Type {\n  const types = {\n    color: ColorType,\n    string: StringType,\n    number: NumberType,\n    enum: StringType,\n    boolean: BooleanType,\n    formatted: FormattedType,\n    resolvedImage: ResolvedImageType\n  };\n  if (spec.type === 'array') {\n    return array(types[spec.value] ||
ValueType, spec.length);\n  }\n  return types[spec.type];\n}\n\nfunction getDefaultType(spec:
StylePropertySpecification): Value {\n  if (spec.type === 'color' && isFunction(spec.default))
{\n    // Special case for heatmap-color: it uses the 'default:' to define a\n    // default color ramp, but
createExpression expects a simple value to fall\n    // back to in case of runtime errors\n    return new Color(0,
0, 0, 0);\n  } else if (spec.type === 'color') {\n    return Color.parse(spec.default) || null;\n  } else if (spec.default
=== undefined) {\n    return null;\n  } else {\n    return spec.default;\n  }\n}\n\n", "@flow\n\nimport assert
from 'assert';\nimport type {StylePropertySpecification} from './style-spec';\n\nexport default
convertFunction;\n\nfunction convertLiteral(value) {\n  return typeof value === 'object' ? ['literal', value] :
value;\n}\n\nfunction convertFunction(parameters: any, propertySpec: StylePropertySpecification) {\n  let stops =
parameters.stops;\n  if (!stops) {\n    // identity function\n    return convertIdentityFunction(parameters,
propertySpec);\n  }\n  const zoomAndFeatureDependent
= stops && typeof stops[0][0] === 'object';\n  const featureDependent = zoomAndFeatureDependent ||
parameters.property !== undefined;\n  const zoomDependent = zoomAndFeatureDependent ||
!featureDependent;\n  stops = stops.map((stop) => {\n    if (!featureDependent && propertySpec.tokens &&
typeof stop[1] === 'string') {\n      return [stop[0], convertTokenString(stop[1]);\n    }\n    return [stop[0],
convertLiteral(stop[1]);\n  }]);\n  if (zoomAndFeatureDependent) {\n    return
convertZoomAndPropertyFunction(parameters, propertySpec, stops);\n  } else if (zoomDependent) {\n    return
convertZoomFunction(parameters, propertySpec, stops);\n  } else {\n    return
convertPropertyFunction(parameters, propertySpec, stops);\n  }\n}\n\nfunction
convertIdentityFunction(parameters, propertySpec): Array<mixed> {\n  const get = ['get',
parameters.property];\n  if (parameters.default === undefined) {\n    // By default, expressions for
string-valued properties get coerced. To preserve\n    // legacy function semantics, insert an explicit assertion
instead.\n    return propertySpec.type === 'string' ? ['string', get] : get;\n  } else if (propertySpec.type === 'enum')
{\n    return [\n      'match',\n      get,\n      Object.keys(propertySpec.values),\n      get,\n      parameters.default\n    ];\n  } else {\n    const expression = [propertySpec.type === 'color' ? 'to-color' :
propertySpec.type, get, convertLiteral(parameters.default)];\n    if (propertySpec.type === 'array') {\n
expression.splice(1, 0, propertySpec.value, propertySpec.length || null);\n    }\n    return expression;\n  }\n}\n\nfunction getInterpolateOperator(parameters) {\n  switch (parameters.colorSpace) {\n    case 'hcl': return
'interpolate-hcl';\n    case 'lab': return 'interpolate-lab';\n    default: return 'interpolate';\n  }\n}\n\nfunction
convertZoomAndPropertyFunction(parameters,
propertySpec, stops) {\n  const featureFunctionParameters = {};\n  const featureFunctionStops = {};\n  const
zoomStops = [];\n  for (let s = 0; s < stops.length; s++) {\n    const stop = stops[s];\n    const zoom =
stop[0].zoom;\n    if (featureFunctionParameters[zoom] === undefined) {\n
featureFunctionParameters[zoom] = {\n      zoom,\n      type: parameters.type,\n      property:
parameters.property,\n      default: parameters.default,\n    };\n    featureFunctionStops[zoom] = [];\n
zoomStops.push(zoom);\n    }\n    featureFunctionStops[zoom].push([stop[0].value, stop[1]]);\n  }\n  // the interpolation type for the zoom dimension of a zoom-and-property\n  // function is determined directly from
the style property specification\n  // for which it's being used: linear for interpolatable properties, step\n  // otherwise.\n  const functionType = getFunctionType({},
propertySpec);\n  if (functionType === 'exponential') {\n    const expression =
[getInterpolateOperator(parameters), ['linear'], ['zoom']];\n    for (const z of zoomStops) {\n      const output
= convertPropertyFunction(featureFunctionParameters[z], propertySpec, featureFunctionStops[z]);\n
appendStopPair(expression, z, output, false);\n    }\n    return expression;\n  } else {\n    const expression
= ['step', ['zoom']];\n    for (const z of zoomStops) {\n      const output =

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convertPropertyFunction(featureFunctionParameters[z], propertySpec, featureFunctionStops[z]);\n
appendStopPair(expression, z, output, true);\n    }\n\n    fixupDegenerateStepCurve(expression);\n\n    return
expression;\n  }\n}\n\nfunction coalesce(a, b) {\n  if (a !== undefined) return a;\n  if (b !== undefined) return
b;\n}\n\nfunction convertPropertyFunction(parameters, propertySpec, stops) {\n  const type =
getFunctionType(parameters,
  propertySpec);\n  const get = ['get', parameters.property];\n  if (type === 'categorical' && typeof stops[0][0] ===
'boolean') {\n    assert(parameters.stops.length > 0 && parameters.stops.length <= 2);\n    const expression =
['case'];\n    for (const stop of stops) {\n      expression.push(['=', get, stop[0]], stop[1]);\n    }\n    expression.push(convertLiteral(coalesce(parameters.default, propertySpec.default)));\n    return expression;\n  }
else if (type === 'categorical') {\n    const expression = ['match', get];\n    for (const stop of stops) {\n
appendStopPair(expression, stop[0], stop[1], false);\n    }\n    expression.push(convertLiteral(coalesce(parameters.default, propertySpec.default)));\n    return expression;\n  }
else if (type === 'interval') {\n    const expression = ['step', ['number', get]]; \n    for (const stop of stops) {\n
appendStopPair(expression, stop[0],
stop[1], true);\n    }\n    fixupDegenerateStepCurve(expression);\n    return parameters.default ===
undefined ? expression : [\n      'case',\n      ['=', ['typeof', get], 'number'],\n      expression,\n      convertLiteral(parameters.default)\n    ];\n  } else if (type === 'exponential') {\n    const base =
parameters.base !== undefined ? parameters.base : 1;\n    const expression = [\n      getInterpolateOperator(parameters),\n      base === 1 ? ['linear'] : ['exponential', base],\n      ['number',
get]\n    ];\n    for (const stop of stops) {\n      appendStopPair(expression, stop[0], stop[1], false);\n
}\n    return parameters.default === undefined ? expression : [\n      'case',\n      ['=', ['typeof', get],
'number'],\n      expression,\n      convertLiteral(parameters.default)\n    ];\n  } else {\n    throw new
Error(`Unknown property
function type ${type}`);\n  }\n}\n\nfunction convertZoomFunction(parameters, propertySpec, stops, input =
['zoom']) {\n  const type = getFunctionType(parameters, propertySpec);\n  let expression;\n  let isStep = false;\n
if (type === 'interval') {\n    expression = ['step', input];\n    isStep = true;\n  } else if (type === 'exponential')
{\n    const base = parameters.base !== undefined ? parameters.base : 1;\n    expression =
[getInterpolateOperator(parameters), base === 1 ? ['linear'] : ['exponential', base], input];\n\n  } else {\n
throw new Error(`Unknown zoom function type "${type}"`);\n  }\n\n  for (const stop of stops) {\n
appendStopPair(expression, stop[0], stop[1], isStep);\n  }\n\n  fixupDegenerateStepCurve(expression);\n\n
return expression;\n}\n\nfunction fixupDegenerateStepCurve(expression) {\n  // degenerate step curve (i.e. a
constant function): add a noop stop\n  if (expression[0] === 'step' && expression.length
=== 3) {\n    expression.push(0);\n    expression.push(expression[3]);\n  }\n}\n\nfunction
appendStopPair(curve, input, output, isStep) {\n  // Skip duplicate stop values. They were not validated for
functions, but they are for expressions.\n  // https://github.com/mapbox/mapbox-gl-js/issues/4107\n  if
(curve.length > 3 && input === curve[curve.length - 2]) {\n    return;\n  }\n  // step curves don't get the first
input value, as it is redundant.\n  if (!(isStep && curve.length === 2)) {\n    curve.push(input);\n  }\n
curve.push(output);\n}\n\nfunction getFunctionType(parameters, propertySpec) {\n  if (parameters.type) {\n
return parameters.type;\n  } else {\n    assert(propertySpec.expression);\n    return (propertySpec.expression:
any).interpolated ? 'exponential' : 'interval';\n  }\n}\n\n// \"String with {name} token\" => [\"concat\", \"String with
\", [\"get\", \"name\"], \" token\"]\n\nexport function convertTokenString(s:
string) {\n  const result = ['concat'];\n  const re = /{([^{}]+)}/g;\n  let pos = 0;\n  for (let match = re.exec(s);
match !== null; match = re.exec(s)) {\n    const literal = s.slice(pos, re.lastIndex - match[0].length);\n    pos =
re.lastIndex;\n    if (literal.length > 0) result.push(literal);\n    result.push(['get', match[1]]);\n  }\n\n  if
(result.length === 1) {\n    return s;\n  }\n\n  if (pos < s.length) {\n    result.push(s.slice(pos));\n  } else if
(result.length === 2) {\n    return ['to-string', result[1]];\n  }\n\n  return result;\n}\n\n\"// @flow\n\nimport
{createExpression} from './expression';\nimport type {GlobalProperties, Feature} from './expression';\nimport type
{CanonicalTileID} from './source/tile_id';\n\ntype FilterExpression = (globalProperties: GlobalProperties, feature:

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Feature, canonical?: CanonicalTileID) => boolean;\nexport type FeatureFilter = {filter: FilterExpression,
needGeometry: boolean};\n\nexport
default createFilter;\nexport {isExpressionFilter};\n\nfunction isExpressionFilter(filter: any) {\n  if (filter === true
|| filter === false) {\n    return true;\n  }\n  if (!Array.isArray(filter) || filter.length === 0) {\n    return
false;\n  }\n  switch (filter[0]) {\n    case 'has':\n      return filter.length >= 2 && filter[1] !== 'Sid' && filter[1]
!== '$type';\n    case 'in':\n      return filter.length >= 3 && (typeof filter[1] !== 'string' ||
Array.isArray(filter[2]));\n    case 'in':\n      return filter.length >= 3 && (typeof filter[1] !== 'string' ||
Array.isArray(filter[2]));\n    case '!has':\n      return false;\n    case '==':\n      return filter.length !== 3 || (Array.isArray(filter[1]) ||
Array.isArray(filter[2]));\n    case '>':\n      return filter.length !== 3 || (Array.isArray(filter[1]) ||
Array.isArray(filter[2]));\n    case '>':\n      return filter.length !== 3 || (Array.isArray(filter[1]) ||
Array.isArray(filter[2]));\n    case '<':\n      return filter.length !== 3 || (Array.isArray(filter[1]) ||
Array.isArray(filter[2]));\n    case '<':\n      return filter.length !== 3 || (Array.isArray(filter[1]) ||
Array.isArray(filter[2]));\n    case 'any':\n      for (const f of filter.slice(1)) {\n        if
(!isExpressionFilter(f) && typeof f !== 'boolean') {\n          return false;\n        }\n      }\n      return true;\n    case 'all':\n      for (const f of filter.slice(1)) {\n        if
(!isExpressionFilter(f) && typeof f !== 'boolean') {\n          return false;\n        }\n      }\n      return true;\n    default:\n      return true;\n  }\n}\n\nconst filterSpec = {\n  'type': 'boolean',\n  'default':
false,\n  'transition': false,\n  'property-type': 'data-driven',\n  'expression': {\n    'interpolated': false,\n
'parameters': ['zoom', 'feature']\n  }\n};\n\n/**\n * Given a filter expressed as nested arrays, return a new function\n
* that evaluates whether a given feature (with a .properties or .tags property)\n * passes its test.\n * @private\n *
@param {Array} filter mapbox gl filter\n * @returns {Function} filter-evaluating function\n */\nfunction
createFilter(filter: any): FeatureFilter {\n  if (filter === null || filter === undefined) {\n    return {filter: () => true,
needGeometry: false};\n  }\n  if (!isExpressionFilter(filter)) {\n    filter = convertFilter(filter);\n  }\n  const compiled = createExpression(filter, filterSpec);\n  if (compiled.result === 'error') {\n    throw new
Error(compiled.value.map(err
=> `${err.key}: ${err.message}`).join(', '));\n  } else {\n    const needGeometry = geometryNeeded(filter);\n
return {filter: (globalProperties: GlobalProperties, feature: Feature, canonical?: CanonicalTileID) =>
compiled.value.evaluate(globalProperties, feature, {}, canonical),\n    needGeometry};\n  }\n}\n\n//
Comparison function to sort numbers and strings\nfunction compare(a, b) {\n  return a < b ? -1 : a > b ? 1 :
0;\n}\n\nfunction geometryNeeded(filter) {\n  if (!Array.isArray(filter)) return false;\n  if (filter[0] === 'within')
return true;\n  for (let index = 1; index < filter.length; index++) {\n    if (geometryNeeded(filter[index])) return
true;\n  }\n  return false;\n}\n\nfunction convertFilter(filter: ?Array<any>): mixed {\n  if (!filter) return true;\n
const op = filter[0];\n  if (filter.length <= 1) return (op !== 'any');\n  const converted =\n    op === '==' ?
convertComparisonOp(filter[1], filter[2], '==')\n    : \n    op === '!=' ? convertNegation(convertComparisonOp(filter[1], filter[2], '=='))\n    : \n    op === '<' || \n    op
=== '>' || \n    op === '<=' || \n    op === '>=' ? convertComparisonOp(filter[1], filter[2], op)\n    : \n    op === 'any'
? convertDisjunctionOp(filter.slice(1))\n    : \n    op === 'all' ? ['all'].concat(filter.slice(1).map(convertFilter))\n    : \n    op === 'none' ? ['all'].concat(filter.slice(1).map(convertFilter).map(convertNegation))\n    : \n    op === 'in' ?
convertInOp(filter[1], filter.slice(2))\n    : \n    op === 'in' ? convertNegation(convertInOp(filter[1], filter.slice(2)))\n    : \n    op === 'has' ? convertHasOp(filter[1])\n    : \n    op === 'has' ? convertNegation(convertHasOp(filter[1]))\n    : \n    op
=== 'within' ? filter\n    : \n    true;\n  return converted;\n}\n\nfunction convertComparisonOp(property: string,
value: any, op: string) {\n  switch (property) {\n    case '$type':\n      return [`filter-type-${op}`, value];\n    case
'$id':\n      return [`filter-id-${op}`, value];\n    default:\n      return [`filter-${op}`, property, value];\n  }\n}\n\nfunction
convertDisjunctionOp(filters: Array<Array<any>>) {\n  return
['any'].concat(filters.map(convertFilter));\n}\n\nfunction convertInOp(property: string, values: Array<any>) {\n  if
(values.length === 0) {\n    return false;\n  }\n  switch (property) {\n    case '$type':\n      return [`filter-type-in`, ['literal',
values]];\n    case '$id':\n      return [`filter-id-in`, ['literal', values]];\n    default:\n      if (values.length > 200 &&
!values.some(v => typeof v !== typeof values[0])) {\n        return ['filter-in-large', property, ['literal',
values.sort(compare)]];\n      } else {\n        return ['filter-in-small', property, ['literal', values]];\n      }\n    }\n}\n\nfunction convertHasOp(property: string) {\n  switch (property) {\n    case '$type':\n      return true;\n    case
'$id':\n      return [`filter-has-id`];\n    default:\n      return [`filter-has`, property];\n  }\n}\n\nfunction convertNegation(filter: mixed) {\n  return ['!',
filter];\n}\n\n", /* @flow\n\nimport {isExpressionFilter} from './index';\nimport type {FilterSpecification} from

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./types';\n\ntype ExpectedTypes = {[_: string]: 'string' | 'number' | 'boolean'};\n\n/**\n * Convert the given legacy
filter to (the JSON representation of) an\n * equivalent expression\n * @private\n */\nexport default function
convertFilter(filter: FilterSpecification): mixed {\n  return _convertFilter(filter, {});\n}\n\n/**\n * Convert the given
filter to an expression, storing the expected types for\n * any feature properties referenced in expectedTypes.\n * \n * These expected types are needed in order to construct preflight type checks\n * needed for handling 'any' filters. A
preflight type check is necessary in\n * order to mimic legacy filters' semantics around expected type mismatches.\n
* \n * For example, consider the legacy filter:\n * \n * ["any",\n * ["all", [">", "y", 0], [">", "y", 0]], [">", "x", 0]]\n * \n * Naively, we might convert this to the expression:\n
*\n * ["any", ["all", [">", "get", "y", 0], [">", "get", "z", 0]], [">", "get", "x", 0]]\n * \n * But if
we tried to evaluate this against, say `{x: 1, y: null, z: 0}`, the\n * [">", "get", "y", 0] would cause an
evaluation error, leading to the\n * entire filter returning false. Legacy filter semantics, though, ask for\n * [">",
"y", 0] to simply return `false` when `y` is of the wrong type,\n * allowing the subsequent terms of the outer
`any`\n * expression to be evaluated\n * (resulting, in this case, in a `true` value, because x > 0).\n * \n * We account
for this by inserting a preflight type-checking expression before\n * each `any` term, allowing us to avoid
evaluating the actual converted filter\n * if any type mismatches would cause it to produce an evaluation error:\n
*\n * ["any",\n * ["case",\n * ["all", ["==", ["typeof", ["get", "y"]], "number"], ["==", ["typeof", ["get", "z"], "number"]],\n
* ["all", [">", "get", "y", 0], [">", "get", "z", 0]],\n * false\n * ],\n * ["case",\n * ["==", ["typeof", ["get", "x"], "number"]],\n
* [">", "get", "x", 0],\n * false\n * ]\n * ]\n * \n * An alternative, possibly more direct approach would be to use type checks\n
* in the conversion of each comparison operator, so that the converted version\n * of each individual ==, >=, etc. would mimic the legacy filter
semantics. The\n * downside of this approach is that it can lead to many more type checks than\n * would otherwise
be necessary: outside the context of an `any` expression,\n * bailing out due to a runtime type error (expression
semantics) and returning\n * false (legacy filter semantics) are equivalent: they cause the filter to\n * produce a
`false` result.\n
*\nfunction _convertFilter(filter: FilterSpecification, expectedTypes: ExpectedTypes): mixed {\n  if
(isExpressionFilter(filter)) { return filter; }\n\n  if (!filter) return true;\n  const op = filter[0];\n  if (filter.length
<= 1) return (op !== 'any');\n\n  let converted;\n\n  if (\n    op === '=' ||\n    op === '!=' ||\n    op === '<'
||\n    op === '>' ||\n    op === '<=' ||\n    op === '>='\n  ) {\n    const [, property, value] = (filter: any);\n
    converted = convertComparisonOp(property, value, op, expectedTypes);\n  } else if (op === 'any') {\n    const
children = (filter: any).slice(1).map(f => {\n      const types = {};\n      const child = _convertFilter(f,
types);\n      const typechecks = runtimeTypeChecks(types);\n      return typechecks === true ? child : ['case',
typechecks, child, false];\n    });\n    return ['any'].concat(children);\n  } else if (op === 'all') {\n    const
children = (filter: any).slice(1).map(f => _convertFilter(f, expectedTypes));\n    return children.length > 1 ?
['all'].concat(children) : [].concat(...children);\n  } else if (op === 'none') {\n    return ['!'];\n  }\n  _convertFilter(['any'].concat(filter.slice(1)), {});\n  } else if (op === 'in') {\n    converted =
convertInOp((filter[1]: any), filter.slice(2));\n  } else if (op === '!in') {\n    converted = convertInOp((filter[1]:
any), filter.slice(2), true);\n  } else if (op === 'has') {\n    converted = convertHasOp((filter[1]: any));\n  } else if
(op === '!has') {\n    converted = ['!', convertHasOp((filter[1]: any))];\n  } else {\n    converted = true;\n  }\n}\n\nreturn converted;\n}\n\n// Given a set of feature properties and an expected type for each one,\n// construct
an boolean expression that tests whether each property has the\n// right type.\n// E.g.: for {name: 'string', population:
'number'}, return\n// [ 'all',\n// ['==', ['typeof',\n// ['get', 'name'], 'string']],\n// ['==', ['typeof', ['get', 'population'], 'number']]\n// ]\nfunction
runtimeTypeChecks(expectedTypes: ExpectedTypes) {\n  const conditions = [];\n  for (const property in
expectedTypes) {\n    const get = property === '$id' ? ['id'] : ['get', property];\n    conditions.push(['==',
['typeof', get], expectedTypes[property]]);\n  }\n  if (conditions.length === 0) return true;\n  if (conditions.length
=== 1) return conditions[0];\n  return ['all'].concat(conditions);\n}\n\nfunction convertComparisonOp(property:
string, value: any, op: string, expectedTypes: ?ExpectedTypes) {\n  let get;\n  if (property === '$type') {\n

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return [op, ['geometry-type', value];\n } else if (property === 'Sid') {\n   get = ['id'];\n } else {\n   get =
['get', property];\n }\n\n if (expectedTypes && value !== null) {\n   const type = ((typeof value): any);\n   expectedTypes[property] = type;\n }\n\n if (op
=== '==' && property !== 'Sid' && value === null) {\n   return [\n     'all',\n     ['has', property], //
missing property != null for legacy filters\n     ['==', get, null]\n   ];\n } else if (op === '!=' && property !==
'Sid' && value === null) {\n   return [\n     'any',\n     ['!', 'has', property]], // missing property != null for
legacy filters\n     ['!=', get, null]\n   ];\n }\n\n return [op, get, value];\n }\n\nfunction
convertInOp(property: string, values: Array<any>, negate = false) {\n   if (values.length === 0) return negate;\n   let get;\n   if (property === '$type') {\n     get = ['geometry-type'];\n   } else if (property === 'Sid') {\n     get =
['id'];\n   } else {\n     get = ['get', property];\n   }\n\n   // Determine if the list of values to be searched is
homogenously typed.\n   // If so (and if the type is string or number), then we can use a\n   // [match, input,
[...values],
true, false] construction rather than a\n   // bunch of `===` tests.\n   let uniformTypes = true;\n   const type = typeof
values[0];\n   for (const value of values) {\n     if (typeof value !== type) {\n       uniformTypes = false;\n     }
}\n\n   if (uniformTypes && (type === 'string' || type === 'number')) {\n     // Match
expressions must have unique values.\n     const uniqueValues = values.sort().filter((v, i) => i === 0 || values[i - 1]
!== v);\n     return ['match', get, uniqueValues, !negate, negate];\n   }\n\n   return [negate ? 'all' : 'any'].concat(\n
values.map(v => [negate ? '!=' : '==', get, v])\n );\n }\n\nfunction convertHasOp(property: string) {\n   if
(property === '$type') {\n     return true;\n   } else if (property === 'Sid') {\n     return ['!=', ['id'], null];\n   } else
{\n     return ['has', property];\n   }\n }\n\n"} @flow\n\nimport {\n   eachLayer,\n   eachProperty\n} from
'./visit';\nimport
{isExpression} from './expression';\nimport convertFunction, {convertTokenString} from
'./function/convert';\nimport convertFilter from './feature_filter/convert';\nimport type {StyleSpecification} from
'./types';\n\n/**\n * Migrate the given style object in place to use expressions. Specifically,\n * this will convert (a)
"stop" functions, and (b) legacy filters to their\n * expression equivalents.\n */\nexport default function(style:
StyleSpecification) {\n   const converted = [];\n\n   eachLayer(style, (layer) => {\n     if (layer.filter) {\n
layer.filter = (convertFilter(layer.filter): any);\n     }\n\n     eachProperty(style, {paint: true, layout: true},
({path, value, reference, set}) => {\n       if (isExpression(value)) return;\n       if (typeof value === 'object' &&
!Array.isArray(value)) {\n         set(convertFunction(value, reference));\n         converted.push(path.join('.'));\n
       } else if (reference.tokens
&& typeof value === 'string') {\n         set(convertTokenString(value));\n       }\n     });\n\n   return
style;\n }\n\n"}\n\nimport migrateToV8 from './migrate/v8';\nimport migrateToExpressions from
'./migrate/expressions';\n\n/**\n * Migrate a Mapbox GL Style to the latest version.\n */\n@private\n@alias
migrate\n@param {object} style a Mapbox GL Style\n@returns {Object} a migrated style\n@example\nvar fs = require('fs');\nvar migrate = require('mapbox-gl-style-spec').migrate;\nvar style =
fs.readFileSync('./style.json', 'utf8');\nfs.writeFileSync('./style.json', JSON.stringify(migrate(style)));\n\nexport
default function(style) {\n   let migrated = false;\n\n   if (style.version === 7) {\n     style = migrateToV8(style);\n
migrated = true;\n   }\n\n   if (style.version === 8) {\n     migrated = migrateToExpressions(style);\n
migrated = true;\n   }\n\n   if (!migrated) {\n     throw new Error('cannot migrate from', style.version);\n   }\n\n   return style;\n }\n\n"}\n\nexport default function (style) {\n   const styleIDs = [];\n   const sourceIDs = [];\n   const compositedSourceLayers = [];\n\n   for (const id in style.sources) {\n     const source = style.sources[id];\n\n     if (source.type !== "vector")\n       continue;\n\n     const match = /^mapbox:\/\|\/(.*)\.exec(source.url);\n\n     if (!match)\n       continue;\n\n     styleIDs.push(id);\n     sourceIDs.push(match[1]);\n   }\n\n   if
(styleIDs.length < 2)\n     return style;\n\n   styleIDs.forEach((id) => {\n     delete style.sources[id];\n   });\n\n   const compositeID = sourceIDs.join(",");\n   style.sources[compositeID] = {\n     "type": "vector",\n
"url": `mapbox:\/\|\/\${compositeID}`\n   }; \n\n   style.layers.forEach((layer) => {\n     if
(styleIDs.indexOf(layer.source) >= 0) {\n       layer.source = compositeID;\n       if ('source-layer' in layer)
{\n

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    if (compositedSourceLayers.indexOf(layer['source-layer']) >= 0) {
      throw new Error('Conflicting source layer names');
    } else {
      compositedSourceLayers.push(layer['source-layer']);
    }
  }
}

return style;
"}

export default ['type', 'source', 'source-layer', 'minzoom', 'maxzoom', 'filter', 'layout'];

import refProperties from './util/ref_properties';

function deref(layer, parent) {
  const result = {};
  for (const k in layer) {
    if (k !== 'ref') {
      result[k] = layer[k];
    }
  }
  refProperties.forEach((k) => {
    if (k in parent) {
      result[k] = parent[k];
    }
  });
  return result;
}

export default derefLayers;

/**
 * Given an array of layers, some of which may contain `ref` properties whose value is the `id` of another property, return a new array where such layers have been augmented with the `type`, `source`, etc. properties from the parent layer, and the `ref` property has been removed.
 * The input is not modified. The output may contain references to portions of the input.
 */
@private
@param {Array<Layer>} layers
@returns {Array<Layer>}
function derefLayers(layers) {
  layers = layers.slice();
  const map = Object.create(null);
  for (let i = 0; i < layers.length; i++) {
    map[layers[i].id] = layers[i];
  }
  for (let i = 0; i < layers.length; i++) {
    if ('ref' in layers[i]) {
      layers[i] = deref(layers[i], map[layers[i].ref]);
    }
  }
  return layers;
}

/**
 * Deeply compares two object literals.
 */
@private
function deepEqual(a: ?mixed, b: ?mixed): boolean {
  if (Array.isArray(a)) {
    if (!Array.isArray(b) || a.length !== b.length) return false;
    for (let i = 0; i < a.length; i++) {
      if (!deepEqual(a[i], b[i])) return false;
    }
    return true;
  }
  if (typeof a === 'object' && a !== null && b !== null) {
    if (!(typeof b === 'object')) return false;
    const keys = Object.keys(a);
    if (keys.length !== Object.keys(b).length) return false;
    for (const key in a) {
      if (!deepEqual(a[key], b[key])) return false;
    }
    return a === b;
  }
  return a === b;
}

export default deepEqual;

import isEqual from './util/deep_equal';

const operations = {
  /*
   * { command: 'setStyle', args: [stylesheet] }
   */
  setStyle: 'setStyle',
  /*
   * { command: 'addLayer', args: [layer, 'beforeLayerId'] }
   */
  addLayer: 'addLayer',
  /*
   * { command: 'removeLayer', args: ['layerId'] }
   */
  removeLayer: 'removeLayer',
  /*
   * { command: 'setPaintProperty', args: ['layerId', 'prop', value] }
   */
  setPaintProperty: 'setPaintProperty',
  /*
   * { command: 'setLayoutProperty', args: ['layerId', 'prop', value] }
   */
  setLayoutProperty: 'setLayoutProperty',
  /*
   * { command: 'setFilter', args: ['layerId', filter] }
   */
  setFilter: 'setFilter',
  /*
   * { command: 'addSource', args: ['sourceId', source] }
   */
  addSource: 'addSource',
  /*
   * { command: 'removeSource', args: ['sourceId'] }
   */
  removeSource: 'removeSource',
  /*
   * { command: 'setGeoJSONSourceData', args: ['sourceId', data] }
   */
  setGeoJSONSourceData: 'setGeoJSONSourceData',
  /*
   * { command: 'setLayerZoomRange', args: ['layerId', 0, 22] }
   */
  setLayerZoomRange: 'setLayerZoomRange',
  /*
   * { command: 'setLayerProperty', args: ['layerId', 'prop', value] }
   */
  setLayerProperty: 'setLayerProperty',
  /*
   * { command: 'setCenter', args: [[lon, lat]] }
   */
  setCenter: 'setCenter',
  /*
   * { command: 'setZoom', args: [zoom] }
   */
  setZoom: 'setZoom',
  /*
   * { command: 'setBearing', args: [bearing] }
   */
  setBearing: 'setBearing',
  /*
   * { command: 'setPitch', args: [pitch] }
   */
  setPitch: 'setPitch',
  /*
   * { command: 'setSprite', args: ['spriteUrl'] }
   */
  setSprite: 'setSprite',
  /*
   * { command: 'setGlyphs', args: ['glyphsUrl'] }
   */
  setGlyphs: 'setGlyphs',
  /*
   * { command: 'setTransition', args: [transition] }
   */
  setTransition: 'setTransition',
  /*
   * { command: 'setLighting', args: [lightProperties] }
   */
  setLight: 'setLight'
};

function addSource(sourceId, after, commands) {
  commands.push({command: operations.addSource, args: [sourceId, after[sourceId]]});
}

function removeSource(sourceId, commands, sourcesRemoved) {
  commands.push({command: operations.removeSource, args: [sourceId]});
  sourcesRemoved[sourceId] = true;
}

function updateSource(sourceId, after, commands, sourcesRemoved) {
  removeSource(sourceId, commands, sourcesRemoved);
  addSource(sourceId, after, commands);
}

function canUpdateGeoJSON(before, after, sourceId) {
  let prop;
  for (prop in before[sourceId]) {
    if (!before[sourceId].hasOwnProperty(prop)) continue;
    if (prop !== 'data' && !isEqual(before[sourceId][prop], after[sourceId][prop])) return

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false;\n    }\n    }\n    for (prop in after[sourceId]) {\n        if (!after[sourceId].hasOwnProperty(prop)) continue;\n        if (prop !== 'data' && !isEqual(before[sourceId][prop], after[sourceId][prop])) {\n            return false;\n        }\n    }\n    return true;\n}\n\nfunction diffSources(before, after, commands, sourcesRemoved) {\n    before = before ||\n    {};\n    after = after || {};\n\n    let sourceId;\n\n    // look for sources to remove\n    for (sourceId in before) {\n        if\n        (!before.hasOwnProperty(sourceId)) continue;\n\n        if (!after.hasOwnProperty(sourceId)) {\n            removeSource(sourceId, commands, sourcesRemoved);\n        }\n    }\n\n    // look for sources to add/update\n    for (sourceId in after) {\n        if\n        (!after.hasOwnProperty(sourceId)) continue;\n        if (!before.hasOwnProperty(sourceId)) {\n            addSource(sourceId, after, commands);\n        } else if (!isEqual(before[sourceId], after[sourceId])) {\n            if\n            (before[sourceId].type === 'geojson' && after[sourceId].type === 'geojson' && canUpdateGeoJSON(before, after,\n            sourceId)) {\n                commands.push({command: operations.setGeoJSONSourceData, args: [sourceId,\n                after[sourceId].data]});\n            } else {\n                // no update command, must remove then add\n                updateSource(sourceId, after, commands, sourcesRemoved);\n            }\n        }\n    }\n}\n\nfunction\n    diffLayerPropertyChanges(before, after, commands, layerId, klass, command) {\n    before = before || {};\n    after\n    = after || {};\n\n    let prop;\n\n    for (prop in before) {\n        if (!before.hasOwnProperty(prop)) continue;\n        if\n        (!isEqual(before[prop], after[prop])) {\n            commands.push({command, args: [layerId, prop, after[prop],\n            klass]});\n        }\n    }\n\n    for (prop in after) {\n        if (!after.hasOwnProperty(prop) ||\n        before.hasOwnProperty(prop)) continue;\n        if (!isEqual(before[prop], after[prop])) {\n            commands.push({command, args: [layerId, prop, after[prop], klass]});\n        }\n    }\n}\n\nfunction pluckId(layer)\n    {\n    return layer.id;\n}\n\nfunction indexById(group, layer) {\n    group[layer.id] = layer;\n    return\n    group;\n}\n\nfunction diffLayers(before, after, commands) {\n    before = before || [];\n    after = after || [];\n\n    //\n    order of layers by id\n    const beforeOrder = before.map(pluckId);\n    const afterOrder = after.map(pluckId);\n\n    //\n    index of layer by id\n    const beforeIndex = before.reduce(indexById, {});\n    const afterIndex\n    = after.reduce(indexById, {});\n\n    // track order of layers as if they have been mutated\n    const tracker =\n    beforeOrder.slice();\n\n    // layers that have been added do not need to be diffed\n    const clean =\n    Object.create(null);\n\n    let i, d, layerId, beforeLayer, afterLayer, insertBeforeLayerId, prop;\n\n    // remove\n    layers\n    for (i = 0, d = 0; i < beforeOrder.length; i++) {\n        layerId = beforeOrder[i];\n        if\n        (!afterIndex.hasOwnProperty(layerId)) {\n            commands.push({command: operations.removeLayer, args:\n            [layerId]});\n            tracker.splice(tracker.indexOf(layerId, d), 1);\n        } else {\n            // limit where in tracker\n            we need to look for a match\n            d++;\n        }\n    }\n\n    // add/reorder layers\n    for (i = 0, d = 0; i <\n    afterOrder.length; i++) {\n        // work backwards as insert is before an existing layer\n        layerId =\n        afterOrder[afterOrder.length - 1 - i];\n\n        if (tracker[tracker.length - 1\n        - i] === layerId) continue;\n\n        if (beforeIndex.hasOwnProperty(layerId)) {\n            // remove the layer before\n            we insert at the correct position\n            commands.push({command: operations.removeLayer, args: [layerId]});\n            tracker.splice(tracker.lastIndexOf(layerId, tracker.length - d), 1);\n        } else {\n            // limit where in tracker\n            we need to look for a match\n            d++;\n        }\n    }\n\n    // add layer at correct position\n    insertBeforeLayerId\n    = tracker[tracker.length - i];\n    commands.push({command: operations.addLayer, args: [afterIndex[layerId],\n    insertBeforeLayerId]});\n    tracker.splice(tracker.length - i, 0, layerId);\n    clean[layerId] = true;\n}\n\n//\n    update layers\n    for (i = 0; i < afterOrder.length; i++) {\n        layerId = afterOrder[i];\n        beforeLayer =\n        beforeIndex[layerId];\n        afterLayer = afterIndex[layerId];\n\n        // no need to update if previously added (new\n        or moved)\n        if (clean[layerId] || isEqual(beforeLayer, afterLayer)) continue;\n\n        // If source, source-layer, or type have\n        changes, then remove the layer\n        // and add it back 'from scratch'\n        if (!isEqual(beforeLayer.source,\n        afterLayer.source) || !isEqual(beforeLayer['source-layer'], afterLayer['source-layer']) || !isEqual(beforeLayer.type,\n        afterLayer.type)) {\n            commands.push({command: operations.removeLayer, args: [layerId]});\n            // we\n            add the layer back at the same position it was already in, so\n            // there's no need to update the `tracker`\n            insertBeforeLayerId = tracker[tracker.lastIndexOf(layerId) + 1];\n            commands.push({command:\n            operations.addLayer, args: [afterLayer, insertBeforeLayerId]});\n            continue;\n        }\n    }\n\n    // layout, paint,

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    commands.push({command: operations.removeLayer, args: [layer.id]});\n    } else {\n      beforeLayers.push(layer);\n    }\n  });\n  }\n  commands =\n  commands.concat(removeOrAddSourceCommands);\n  // Handle changes to `layers`\n  diffLayers(beforeLayers, after.layers, commands);\n  } catch (e) {\n    // fall back to setStyle\n    console.warn('Unable to compute style diff:', e);\n    commands = [{command: operations.setStyle, args:\n    [after]}];\n  }\n  return commands;\n}\n\nexport default diffStyles;\nexport {operations};\n", "@flow\n\n//\nNote: Do not inherit from Error. It breaks when transpiling to ES5.\nexport default class ValidationError {\n  message: string;\n  identifier: ?string;\n  line: ?number;\n\n  constructor(key: ?string, value: ?{ __line__: number\n  }, message: string, identifier: ?string) {\n    this.message = (key ? `${key}:\n    ` : ") + message;\n    if (identifier) this.identifier = identifier;\n    if (value !== null && value !== undefined\n    && value.__line__) {\n      this.line = value.__line__;\n    }\n  }\n}\n", "@flow\n\n//\nNote: Do not inherit\nfrom Error. It breaks when transpiling to ES5.\nexport default class ParsingError {\n  message: string;\n  error:\n  Error;\n  line: number;\n\n  constructor(error: Error) {\n    this.error = error;\n    this.message =\n    error.message;\n    const match = error.message.match(/line (\\d+)/);\n    this.line = match ? parseInt(match[1],\n    10) : 0;\n  }\n}\n", "\nimport ValidationError from './error/validation_error';\nexport default function\nvalidateConstants(options) {\n  const key = options.key;\n  const constants = options.value;\n\n  if (constants)\n    return [new ValidationError(key, constants, 'constants have been deprecated as of v8')];\n  } else {\n    return [];\n  }\n}\n", "@flow\n\n//\nTurn jsonlint-lines-primitives objects into primitive objects\nexport function unbundle(value: mixed) {\n  if (value\n  instanceof Number || value instanceof String || value instanceof Boolean) {\n    return value.valueOf();\n  } else\n  {\n    return value;\n  }\n}\n\nexport function deepUnbundle(value: mixed): mixed {\n  if\n  (Array.isArray(value)) {\n    return value.map(deepUnbundle);\n  } else if (value instanceof Object && !(value\n  instanceof Number || value instanceof String || value instanceof Boolean)) {\n    const unbundledValue: { [key:\n  string]: mixed } = {};\n    for (const key in value) {\n      unbundledValue[key] =\n      deepUnbundle(value[key]);\n    }\n    return unbundledValue;\n  }\n  return\n  unbundle(value);\n}\n", "\nimport ValidationError from './error/validation_error';\nimport getType from\n'./util/get_type';\nimport validateSpec from './validate';\nexport default function validateObject(options) {\n  const key = options.key;\n\n  const object = options.value;\n  const elementSpecs = options.valueSpec || {};\n  const elementValidators =\n  options.objectElementValidators || {};\n  const style = options.style;\n  const styleSpec = options.styleSpec;\n  let errors = [];\n\n  const type = getType(object);\n  if (type !== 'object') {\n    return [new ValidationError(key,\n  object, `object expected, ${type} found`)];\n  }\n\n  for (const objectKey in object) {\n    const\n  elementSpecKey = objectKey.split('.')[0]; // treat 'paint.*' as 'paint'\n    const elementSpec =\n  elementSpecs[elementSpecKey] || elementSpecs['*'];\n\n    let validateElement;\n    if\n  (elementValidators[elementSpecKey]) {\n      validateElement = elementValidators[elementSpecKey];\n    }\n    else if (elementSpecs[elementSpecKey]) {\n      validateElement = validateSpec;\n    } else if\n  (elementValidators['*']) {\n      validateElement = elementValidators['*'];\n    } else if (elementSpecs['*'])\n  {\n      validateElement = validateSpec;\n    } else {\n      errors.push(new ValidationError(key,\n  object[objectKey], `unknown property \\`${objectKey}\\``));\n      continue;\n    }\n\n    errors =\n  errors.concat(validateElement({\n      key: (key ? `${key}` : key) + objectKey,\n      value:\n  object[objectKey],\n      valueSpec: elementSpec,\n      style,\n      styleSpec,\n      object,\n  objectKey\n  }, object));\n  }\n\n  for (const elementSpecKey in elementSpecs) {\n    // Don't check\n  `required` when there's a custom validator for that property.\n    if (elementValidators[elementSpecKey]) {\n      continue;\n    }\n\n    if (elementSpecs[elementSpecKey].required &&\n  elementSpecs[elementSpecKey]['default'] === undefined && object[elementSpecKey] === undefined) {\n      errors.push(new ValidationError(key, object, `missing required property\n  \\`${elementSpecKey}\\``));\n    }\n  }\n  }\n  return errors;\n}\n", "\nimport getType from './util/get_type';\nimport validate from\n'./validate';\nimport ValidationError from './error/validation_error';\nexport default function

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validateArray(options) {\n  const array = options.value;\n  const arraySpec = options.valueSpec;\n  const style =
options.style;\n  const styleSpec = options.styleSpec;\n  const key = options.key;\n  const validateArrayElement
= options.arrayElementValidator || validate;\n\n  if (getType(array) !== 'array') {\n    return [new
Validation\n  Error(key, array, `array expected, ${getType(array)} found`)];\n  }\n\n  if (arraySpec.length &&
array.length !== arraySpec.length) {\n    return [new Validation\n  Error(key, array, `array length\n  ${arraySpec.length} expected, length ${array.length} found`)];\n  }\n\n  if (arraySpec['min-length'] &&
array.length < arraySpec['min-length']) {\n    return [new Validation\n  Error(key, array, `array length at least\n  ${arraySpec['min-length']}\n  expected, length ${array.length} found`)];\n  }\n\n  let arrayElementSpec = {\n    "type": arraySpec.value,\n    "values": arraySpec.values\n  };\n\n  if (styleSpec.$version < 7) {\n    arrayElementSpec.function =
arraySpec.function;\n  }\n\n  if (getType(arraySpec.value) === 'object') {\n    arrayElementSpec =
arraySpec.value;\n  }\n\n  let errors = [];\n  for (let i = 0; i < array.length; i++) {\n    errors =
errors.concat(validateArrayElement({\n      array,\n      arrayIndex: i,\n      value: array[i],\n      valueSpec: arrayElementSpec,\n      style,\n      styleSpec,\n      key: `${key}[${i}]`\n    }));\n  }\n  return errors;\n}\n\n", "\nimport getType from './util/get_type';\nimport ValidationError from
'./error/validation_error';\n\nexport default function validateNumber(options) {\n  const key = options.key;\n  const value = options.value;\n  const valueSpec = options.valueSpec;\n\n  let type = getType(value);\n\n  // eslint-disable-next-line no-self-compare\n  if (type === 'number' && value
!== value) {\n    type = 'NaN';\n  }\n\n  if (type !== 'number') {\n    return [new Validation\n  Error(key, value,\n  `number expected, ${type} found`)];\n  }\n\n  if ('minimum' in valueSpec && value < valueSpec.minimum) {\n
return [new Validation\n  Error(key, value, `${value} is less than the minimum value\n  ${valueSpec.minimum}`)];\n  }\n\n  if ('maximum' in valueSpec && value > valueSpec.maximum) {\n    return [new Validation\n  Error(key,\n  value, `${value} is greater than the maximum value\n  ${valueSpec.maximum}`)];\n  }\n\n  return
[];\n}\n\n", "\nimport ValidationError from './error/validation_error';\nimport getType from './util/get_type';\nimport
validate from './validate';\nimport validateObject from './validate_object';\nimport validateArray from
'./validate_array';\nimport validateNumber from './validate_number';\nimport {isExpression}
from './expression';\nimport {unbundle, deepUnbundle} from './util/unbundle_jsonlint';\nimport {\n  supportsPropertyExpression,\n  supportsZoomExpression,\n  supportsInterpolation\n} from
'./util/properties';\n\nexport default function validateFunction(options) {\n  const functionValueSpec =
options.valueSpec;\n  const functionType = unbundle(options.value.type);\n  let stopKeyType;\n  let
stopDomainValues = {};\n  let previousStopDomainValue;\n  let previousStopDomainZoom;\n\n  const
isZoomFunction = functionType !== 'categorical' && options.value.property === undefined;\n  const
isPropertyFunction = !isZoomFunction;\n  const isZoomAndPropertyFunction =\n  getType(options.value.stops) === 'array' &&\n  getType(options.value.stops[0]) === 'array' &&\n  getType(options.value.stops[0][0]) === 'object';\n\n  const errors = validateObject({\n    key: options.key,\n    value: options.value,\n    valueSpec: options.styleSpec.function,\n    style: options.style,\n    styleSpec: options.styleSpec,\n    objectElementValidators: {\n      stops:
validateFunctionStops,\n      default: validateFunctionDefault\n    }\n  });\n\n  if (functionType ===
'identity' && isZoomFunction) {\n    errors.push(new Validation\n  Error(options.key, options.value, 'missing\n  required property\n  "property"');\n  }\n\n  if (functionType !== 'identity' && !options.value.stops) {\n
errors.push(new Validation\n  Error(options.key, options.value, 'missing required property\n  "stops"');\n  }\n\n  if
(functionType === 'exponential' && options.valueSpec.expression && !supportsInterpolation(options.valueSpec))
{\n    errors.push(new Validation\n  Error(options.key, options.value, 'exponential functions not supported');\n  }\n\n  if (options.styleSpec.$version >= 8) {\n    if (isPropertyFunction &&
!supportsPropertyExpression(options.valueSpec)) {\n      errors.push(new Validation\n  Error(options.key,\n  options.value, 'property functions not supported');\n    } else if (isZoomFunction &&
!supportsZoomExpression(options.valueSpec)) {\n      errors.push(new Validation\n  Error(options.key,\n  options.value, 'zoom functions not supported');\n    }\n  }\n\n  if ((functionType === 'categorical' ||

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isZoomAndPropertyFunction) && options.value.property === undefined) {\n    errors.push(new
Validation\Error(options.key, options.value, "\property\ property is required"));
}\n\n return errors;
}\n\n function validateFunctionStops(options) {\n    if (functionType === 'identity') {\n        return [new
Validation\Error(options.key, options.value, 'identity function may not have a \stops\ property');
}\n\n let errors = [];\n    const value = options.value;\n\n    errors = errors.concat(validateArray({\n        key:
options.key,\n        value,\n        valueSpec: options.valueSpec,\n        style: options.style,\n        styleSpec: options.styleSpec,\n        arrayElementValidator: validateFunctionStop\n    }));\n\n    if
(getType(value) === 'array' && value.length === 0) {\n        errors.push(new Validation\Error(options.key, value,
'array must have at least one stop'));
}\n\n    return errors;
}\n\n function
validateFunctionStop(options) {\n    let errors = [];\n    const value = options.value;\n    const key =
options.key;\n\n    if (getType(value) !== 'array') {\n        return [new Validation\Error(key, value, `array
expected, ${getType(value)} found`)];
}\n\n    if (value.length !== 2) {\n        return [new
Validation\Error(key, value, `array length 2 expected, length ${value.length} found`)];
}\n\n    if
(isZoomAndPropertyFunction) {\n        if (getType(value[0]) !== 'object') {\n            return [new
Validation\Error(key, value, `object expected, ${getType(value[0])} found`)];
}\n\n        if (value[0].zoom === undefined) {\n            return [new Validation\Error(key, value, 'object
stop key must have zoom');
}\n\n            if (value[0].value === undefined) {\n                return [new
Validation\Error(key, value, 'object stop key must have value');
}\n\n                if (previousStopDomainZoom
&& previousStopDomainZoom > unbundle(value[0].zoom)) {\n                    return [new Validation\Error(key,
value[0].zoom, 'stop zoom values must appear in ascending order');
}\n\n                    if (unbundle(value[0].zoom)
!== previousStopDomainZoom) {\n                        previousStopDomainZoom = unbundle(value[0].zoom);\n
previousStopDomainValue = undefined;\n                        stopDomainValues = {};\n                    }\n                    errors =
errors.concat(validateObject({\n                        key: `${key}[0]`,\n                        value: value[0],\n                        valueSpec:
{zoom: {}},\n                        style: options.style,\n                        styleSpec: options.styleSpec,\n                        objectElementValidators: {zoom: validateNumber, value:
validateStopDomainValue\n                    }));
}\n                } else {\n                    errors =
errors.concat(validateStopDomainValue({\n                        key: `${key}[0]`,\n                        value: value[0],\n
valueSpec: {},\n                        style: options.style,\n                        styleSpec: options.styleSpec\n                    }, value));
}\n\n                if (isExpression(deepUnbundle(value[1]))) {\n                    return errors.concat([new
Validation\Error(`${key}[1]`, value[1], 'expressions are not allowed in function stops.')] );
}\n\n                return
errors.concat(validate({\n                    key: `${key}[1]`,\n                    value: value[1],\n                    valueSpec:
functionValueSpec,\n                    style: options.style,\n                    styleSpec: options.styleSpec\n                }));
}\n\n            }\n\n            function validateStopDomainValue(options, stop) {\n                const type = getType(options.value);\n
const value = unbundle(options.value);\n\n                const reportValue = options.value !== null ? options.value :
stop;\n\n                if (!stopKeyType) {\n                    stopKeyType = type;\n                } else if (type !== stopKeyType) {\n
return [new Validation\Error(options.key, reportValue, `${type} stop domain type must match previous stop domain
type ${stopKeyType}`)];
}\n\n                if (type !== 'number' && type !== 'string' && type !== 'boolean') {\n
return [new Validation\Error(options.key, reportValue, 'stop domain value must be a number, string, or boolean')];
}\n\n                if (type !== 'number' && functionType !== 'categorical') {\n                    let message = `number expected,
${type} found`;\n                    if (supportsPropertyExpression(functionValueSpec) && functionType === undefined) {\n
message += "\nIf you intended to use a categorical function, specify \type\": \categorical\`.\`";
}\n                    return
[new Validation\Error(options.key, reportValue, message)];
}\n\n                if (functionType === 'categorical' &&
type === 'number' && (!isFinite(value) || Math.floor(value) !== value)) {\n                    return [new
Validation\Error(options.key, reportValue, `integer expected, found ${value}`)];
}\n\n                if (functionType
!== 'categorical' && type === 'number' && previousStopDomainValue !== undefined && value <
previousStopDomainValue) {\n                    return [new Validation\Error(options.key, reportValue, 'stop domain values
must appear in ascending order')];
}\n                } else {\n                    previousStopDomainValue = value;\n                }\n\n                if

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(functionType === 'categorical' && value in stopDomainValues) {\n      return [new
ValidationError(options.key, reportValue, 'stop domain values must be unique');\n    ] else {\n
stopDomainValues[value] = true;\n    }\n    return [];\n  }\n  function validateFunctionDefault(options)
{\n
    return validate({\n      key: options.key,\n      value: options.value,\n      valueSpec:
functionValueSpec,\n      style: options.style,\n      styleSpec: options.styleSpec\n    });\n  }\n}\n", "//
@flow\n\nimport ValidationError from './error/validation_error';\n\nimport {createExpression,
createPropertyExpression} from './expression';\nimport {deepUnbundle} from './util/unbundle_jsonlint';\nimport
{isStateConstant, isGlobalPropertyConstant, isFeatureConstant} from './expression/is_constant';\n\nexport default
function validateExpression(options: any): Array<ValidationError> {\n  const expression =
(options.expressionContext === 'property' ? createPropertyExpression :
createExpression)(deepUnbundle(options.value), options.valueSpec);\n  if (expression.result === 'error') {\n
return expression.value.map((error) => {\n      return new ValidationError(`${options.key}${error.key}`,
options.value, error.message);\n    });\n  }\n  }\n  const expressionObj = (expression.value: any).expression || (expression.value:
any)._styleExpression.expression;\n  if (options.expressionContext === 'property' && (options.propertyKey ===
'text-font') &&\n    !expressionObj.outputDefined()) {\n    return [new ValidationError(options.key,
options.value, `Invalid data expression for "${options.propertyKey}". Output values must be contained as literals
within the expression.`);\n  ]\n  }\n  if (options.expressionContext === 'property' && options.propertyType ===
'layout' &&\n    (!isStateConstant(expressionObj))) {\n    return [new ValidationError(options.key,
options.value, `"feature-state" data expressions are not supported with layout properties.`);\n  ]\n  }\n  if
(options.expressionContext === 'filter' && !isStateConstant(expressionObj)) {\n    return [new
ValidationError(options.key, options.value, `"feature-state" data expressions are not supported with filters.`);\n
  ]\n  }\n  if (options.expressionContext
&& options.expressionContext.indexOf('cluster') === 0) {\n    if (!isGlobalPropertyConstant(expressionObj,
['zoom', 'feature-state'])) {\n      return [new ValidationError(options.key, options.value, `"zoom" and "feature-
state" expressions are not supported with cluster properties.`);\n    ]\n    if (options.expressionContext ===
'cluster-initial' && !isFeatureConstant(expressionObj)) {\n      return [new ValidationError(options.key,
options.value, 'Feature data expressions are not supported with initial expression part of cluster properties.`);\n
  ]\n  ]\n  }\n  }\n  return [];\n}\n", "\nimport getType from './util/get_type';\nimport ValidationError from
'./error/validation_error';\n\nexport default function validateBoolean(options) {\n  const value = options.value;\n
const key = options.key;\n  const type = getType(value);\n  if (type !== 'boolean') {\n    return [new
ValidationError(key, value, `boolean expected,
${type} found`);\n  ]\n  }\n  return [];\n}\n", "\nimport ValidationError from './error/validation_error';\nimport
getType from './util/get_type';\nimport {parseCSSColor} from 'csscolorparser';\n\nexport default function
validateColor(options) {\n  const key = options.key;\n  const value = options.value;\n  const type =
getType(value);\n  if (type !== 'string') {\n    return [new ValidationError(key, value, `color expected,
${type} found`);\n  ]\n  }\n  if (parseCSSColor(value) === null) {\n    return [new ValidationError(key, value, `color
expected, "${value}" found`);\n  ]\n  }\n  return [];\n}\n", "\nimport ValidationError from
'./error/validation_error';\nimport {unbundle} from './util/unbundle_jsonlint';\n\nexport default function
validateEnum(options) {\n  const key = options.key;\n  const value = options.value;\n  const valueSpec =
options.valueSpec;\n  const errors = [];\n  if (Array.isArray(valueSpec.values)) { // <=v7\n    if
(valueSpec.values.indexOf(unbundle(value))
=== -1) {\n      errors.push(new ValidationError(key, value, `expected one of [${valueSpec.values.join(', ')}],
${JSON.stringify(value)} found`);\n    } else { // >=v8\n      if
(Object.keys(valueSpec.values).indexOf(unbundle(value)) === -1) {\n        errors.push(new ValidationError(key,
value, `expected one of [${Object.keys(valueSpec.values).join(', ')}], ${JSON.stringify(value)} found`);\n      }
\n    }\n  }\n  return errors;\n}\n", "\nimport ValidationError from './error/validation_error';\nimport validateExpression from

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'./validate_expression';\nimport validateEnum from './validate_enum';\nimport getType from
'./util/get_type';\nimport {unbundle, deepUnbundle} from './util/unbundle_jsonlint';\nimport extend from
'./util/extend';\nimport {isExpressionFilter} from './feature_filter';\n\n\nexport default function validateFilter(options)
{\n  if (isExpressionFilter(deepUnbundle(options.value))) {\n    return validateExpression(extend({\n      options, {\n        expressionContext: 'filter',\n        valueSpec: {value: 'boolean'}\n      }));\n  } else {\n    return validateNonExpressionFilter(options);\n  }\n}\n\nfunction validateNonExpressionFilter(options) {\n  const
value = options.value;\n  const key = options.key;\n  if (getType(value) !== 'array') {\n    return [new
ValidationError(key, value, `array expected, ${getType(value)} found`)];\n  }\n  const styleSpec =
options.styleSpec;\n  let type;\n  let errors = [];\n  if (value.length < 1) {\n    return [new
ValidationError(key, value, 'filter array must have at least 1 element`)];\n  }\n  errors =
errors.concat(validateEnum({\n    key: `${key}[0]`,\n    value: value[0],\n    valueSpec:
styleSpec.filter_operator,\n    style: options.style,\n    styleSpec: options.styleSpec\n }));\n  switch
(unbundle(value[0])) {\n    case '<':\n    case '<=':\n    case '>':\n    case
'>=':\n      if (value.length >= 2 && unbundle(value[1]) === 'Stype') {\n        errors.push(new
ValidationError(key, value, `\"$Stype\" cannot be use with operator \"${value[0]}\"`));\n      } /* falls through
*/\n    case '==':\n    case '!=':\n      if (value.length !== 3) {\n        errors.push(new ValidationError(key, value,
`filter array for operator \"${value[0]}\" must have 3 elements`));\n      } /* falls through */\n    case 'in':\n    case 'in':\n      if (value.length >= 2) {\n        type = getType(value[1]);\n        if (type !== 'string') {\n          errors.push(new ValidationError(`${key}[1]`, value[1], `string expected, ${type} found`));\n        }\n      }\n      for (let i = 2; i < value.length; i++) {\n        type = getType(value[i]);\n        if (unbundle(value[1]) === 'Stype')
{\n          errors = errors.concat(validateEnum({\n            key: `${key}[${i}]`,\n            value: value[i],\n            valueSpec: styleSpec.geometry_type,\n            style: options.style,\n            styleSpec: options.styleSpec\n          }));\n        } else if (type !== 'string' && type !== 'number' && type !==
'boolean') {\n          errors.push(new ValidationError(`${key}[${i}]`, value[i], `string, number, or boolean
expected, ${type} found`));\n        }\n      }\n      break;\n    case 'any':\n    case 'all':\n    case 'none':\n      for
(let i = 1; i < value.length; i++) {\n        errors = errors.concat(validateNonExpressionFilter({\n          key:
`${key}[${i}]`,\n          value: value[i],\n          style: options.style,\n          styleSpec: options.styleSpec\n
        }));\n      }\n      break;\n    case 'has':\n    case '!has':\n      type = getType(value[1]);\n      if (value.length
!== 2) {\n        errors.push(new ValidationError(key, value, `filter array
for \"${value[0]}\" operator must have 2 elements`));\n      } else if (type !== 'string') {\n        errors.push(new
ValidationError(`${key}[1]`, value[1], `string expected, ${type} found`));\n      }\n      break;\n    case 'within':\n      type = getType(value[1]);\n      if (value.length !== 2) {\n        errors.push(new ValidationError(key, value,
`filter array for \"${value[0]}\" operator must have 2 elements`));\n      } else if (type !== 'object') {\n        errors.push(new ValidationError(`${key}[1]`, value[1], `object expected, ${type} found`));\n      }\n      break;\n  }\n  return errors;\n}\n\n\nimport validate from './validate';\nimport ValidationError from
'./error/validation_error';\nimport getType from './util/get_type';\nimport {isFunction} from './function';\nimport
{unbundle, deepUnbundle} from './util/unbundle_jsonlint';\nimport {supportsPropertyExpression} from
'./util/properties';\n\n\nexport default function validateProperty(options,
propertyType) {\n  const key = options.key;\n  const style = options.style;\n  const styleSpec =
options.styleSpec;\n  const value = options.value;\n  const propertyKey = options.objectKey;\n  const layerSpec
= styleSpec[`${propertyType}_${options.layerType}`];\n  if (!layerSpec) return [];\n  const transitionMatch =
propertyKey.match(/^(.*)-transition$/);\n  if (propertyType === 'paint' && transitionMatch &&
layerSpec[transitionMatch[1]] && layerSpec[transitionMatch[1]].transition) {\n    return validate({\n      key,\n      value,\n      valueSpec: styleSpec.transition,\n      style,\n      styleSpec\n    });\n  }\n  const valueSpec = options.valueSpec || layerSpec[propertyKey];\n  if (!valueSpec) {\n    return [new
ValidationError(key, value, `unknown property \"${propertyKey}\"`)];\n  }\n  let tokenMatch;\n  if
(getType(value) === 'string' && supportsPropertyExpression(valueSpec) && !valueSpec.tokens

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    && (tokenMatch = /^[^{}+)]$/).exec(value))) {\n      return [new ValidationError(\n        key, value,\n        `\"${propertyKey}\" does not support interpolation syntax`\n        +\n        `Use an identity property function\n        instead: \\`{ \"type\": \"identity\", \"property\": ${JSON.stringify(tokenMatch[1])} \\`.`);\n      ]\n\n      const errors =\n      [];\n\n      if (options.layerType === 'symbol') {\n        if (propertyKey === 'text-field' && style && !style.glyphs) {\n          errors.push(new ValidationError(key, value, 'use of \"text-field\" requires a style \"glyphs\" property'));\n        }\n        if (propertyKey === 'text-font' && isFunction(deepUnbundle(value)) && unbundle(value.type) ===\n        'identity') {\n          errors.push(new ValidationError(key, value, \"text-font\" does not support identity\n          functions));\n        }\n      }\n\n      return errors.concat(validate({\n        key: options.key,\n        value,\n        valueSpec,\n        style,\n        styleSpec,\n        expressionContext: 'property',\n        propertyType,\n        propertyKey\n      }));\n    },\n    \"import\n    validateProperty from './validate_property';\n  \"\n  \n  export default function validatePaintProperty(options) {\n    return\n    validateProperty(options, 'paint');\n  }\n  \"\n  \"\n  import validateProperty from './validate_property';\n  \"\n  export default\n  function validateLayoutProperty(options) {\n    return validateProperty(options, 'layout');\n  }\n  \"\n  \"\n  import\n  ValidationError from './error/validation_error';\n  \"\n  import {unbundle} from './util/unbundle_jsonlint';\n  \"\n  import\n  validateObject from './validate_object';\n  \"\n  import validateFilter from './validate_filter';\n  \"\n  import validatePaintProperty\n  from './validate_paint_property';\n  \"\n  import validateLayoutProperty from './validate_layout_property';\n  \"\n  import\n  validateSpec from './validate';\n  \"\n  import extend from './util/extend';\n  \"\n  export default function validateLayer(options)\n  {\n    let errors = [];\n\n    const layer = options.value;\n    const key = options.key;\n\n    const style = options.style;\n    const styleSpec = options.styleSpec;\n\n    if (!layer.type && !layer.ref) {\n      errors.push(new ValidationError(key, layer, 'either \"type\" or \"ref\" is required'));\n    }\n\n    let type =\n    unbundle(layer.type);\n    const ref = unbundle(layer.ref);\n\n    if (layer.id) {\n      const layerId =\n      unbundle(layer.id);\n\n      for (let i = 0; i < options.arrayIndex; i++) {\n        const otherLayer = style.layers[i];\n\n        if (unbundle(otherLayer.id) === layerId) {\n          errors.push(new ValidationError(key, layer.id, `duplicate\n          layer id \"${layer.id}\", previously used at line ${otherLayer.id.__line__}`));\n        }\n      }\n\n      if ('ref'\n      in layer) {\n        ['type', 'source', 'source-layer', 'filter', 'layout'].forEach((p) => {\n          if (p in layer) {\n            errors.push(new ValidationError(key, layer[p], `\"${p}\" is prohibited for ref layers`));\n          }\n        });\n\n        let parent;\n\n        style.layers.forEach((layer) => {\n          if (unbundle(layer.id) === ref) parent = layer;\n        });\n\n        if (!parent) {\n          errors.push(new ValidationError(key, layer.ref, `ref layer \"${ref}\" not found`));\n        }\n        else if (parent.ref) {\n          errors.push(new ValidationError(key, layer.ref, 'ref cannot reference another ref\n          layer'));\n        }\n        else {\n          type = unbundle(parent.type);\n        }\n        else if (type !== 'background') {\n          if\n          (!layer.source) {\n            errors.push(new ValidationError(key, layer, 'missing required property \"source\"'));\n          }\n          else {\n            const source = style.sources && style.sources[layer.source];\n            const sourceType = source\n            && unbundle(source.type);\n\n            if (!source) {\n              errors.push(new ValidationError(key, layer.source,\n              `source \"${layer.source}\" not found`));\n            }\n            else if (sourceType === 'vector' && type === 'raster')\n            {\n              errors.push(new ValidationError(key, layer.source, `layer \"${layer.id}\" requires a raster source`));\n            }\n            else if (sourceType === 'raster' && type !== 'raster') {\n              errors.push(new ValidationError(key,\n              layer.source, `layer \"${layer.id}\" requires a vector source`));\n            }\n            else if (sourceType === 'vector' &&\n            !layer['source-layer']) {\n              errors.push(new ValidationError(key, layer, `layer \"${layer.id}\" must specify a\n              \"source-layer\"`));\n            }\n            else if (sourceType === 'raster-dem' && type !== 'hillshade') {\n              errors.push(new ValidationError(key, layer.source, 'raster-dem source can only be used with layer type\n              \\hillshade\\.');\n            }\n            else if (type === 'line' && layer.paint && layer.paint['line-gradient'] &&\n            (sourceType !== 'geojson' || !source.lineMetrics)) {\n              errors.push(new ValidationError(key, layer, `layer\n              \"${layer.id}\" specifies a\n              line-gradient, which requires a GeoJSON source with \\lineMetrics\\` enabled.`));\n            }\n          }\n        }\n\n        errors = errors.concat(validateObject({\n          key,\n          value: layer,\n          valueSpec: styleSpec.layer,\n          style:\n          options.style,\n          styleSpec: options.styleSpec,\n          objectElementValidators: {\n            '*() {\n              return\n              [];\n            },\n            // We don't want to enforce the spec's \"requires\": true` for backward compatibility with\n            refs;\n            // the actual requirement is validated above. See https://github.com/mapbox/mapbox-gl-

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const lightSpec = styleSpec.light;\n  const style = options.style;\n\n  let errors = [];\n\n  const rootType =
  getType(light);\n  if (light === undefined) {\n    return errors;\n  } else if (rootType !== 'object') {\n    errors
= errors.concat([new ValidationError('light', light, `object expected, ${rootType} found`)]);\n    return errors;\n
  }\n\n  for (const key in light) {\n    const transitionMatch = key.match(/^(.*)-transition$/);\n\n    if
(transitionMatch && lightSpec[transitionMatch[1]] && lightSpec[transitionMatch[1]].transition) {\n      errors =
errors.concat(validate({\n        key,\n        value: light[key],\n        valueSpec: styleSpec.transition,\n
        style,\n        styleSpec\n      }));\n    } else if (lightSpec[key]) {\n      errors =
errors.concat(validate({\n        key,\n        value: light[key],\n        valueSpec: lightSpec[key],\n
        style,\n        styleSpec\n      }));\n    } else {\n      errors = errors.concat([new ValidationError(key,
light[key], `unknown property "${key}"`)]);\n    }\n  }\n\n  return errors;\n}\n\n", "// @flow\n\nimport
validateExpression from './validate_expression';\nimport validateString from './validate_string';\n\nexport default
function validateFormatted(options: any) {\n  if (validateString(options).length === 0) {\n    return [];\n  }\n\n  return validateExpression(options);\n}\n\n", "// @flow\n\nimport validateExpression from
 './validate_expression';\nimport validateString from './validate_string';\n\nexport default function
validateImage(options: any) {\n  if (validateString(options).length
=== 0) {\n    return [];\n  }\n\n  return validateExpression(options);\n}\n\n", "\nimport extend from
'../util/extend';\nimport {unbundle, deepUnbundle} from '../util/unbundle_jsonlint';\nimport {isExpression} from
'./expression';\nimport {isFunction} from './function';\n\nimport validateFunction from
 './validate_function';\nimport validateExpression from './validate_expression';\nimport validateObject from
 './validate_object';\nimport validateArray from './validate_array';\nimport validateBoolean from
 './validate_boolean';\nimport validateNumber from './validate_number';\nimport validateColor from
 './validate_color';\nimport validateConstants from './validate_constants';\nimport validateEnum from
 './validate_enum';\nimport validateFilter from './validate_filter';\nimport validateLayer from
 './validate_layer';\nimport validateSource from './validate_source';\nimport validateLight from
 './validate_light';\nimport validateString from './validate_string';\nimport validateFormatted
from './validate_formatted';\nimport validateImage from './validate_image';\n\nconst VALIDATORS = {\n  '*': ()
{\n    return [];\n  },\n  'array': validateArray,\n  'boolean': validateBoolean,\n  'number': validateNumber,\n
'color': validateColor,\n  'constants': validateConstants,\n  'enum': validateEnum,\n  'filter': validateFilter,\n
'function': validateFunction,\n  'layer': validateLayer,\n  'object': validateObject,\n  'source': validateSource,\n
'light': validateLight,\n  'string': validateString,\n  'formatted': validateFormatted,\n  'resolvedImage':
validateImage\n};\n\n// Main recursive validation function. Tracks:\n\n// - key: string representing location of
validation in style tree. Used only\n//   for more informative error reporting.\n// - value: current value from style
being evaluated. May be anything from a\n//   high level object that needs to be descended into deeper or a
simple\n//   scalar value.\n// - valueSpec: current spec
being evaluated. Tracks value.\n// - styleSpec: current full spec being evaluated.\n\nexport default function
validate(options) {\n  const value = options.value;\n  const valueSpec = options.valueSpec;\n  const styleSpec =
options.styleSpec;\n\n  if (valueSpec.expression && isFunction(unbundle(value))) {\n    return
validateFunction(options);\n  } else if (valueSpec.expression && isExpression(deepUnbundle(value))) {\n
return validateExpression(options);\n  } else if (valueSpec.type && VALIDATORS[valueSpec.type]) {\n
return VALIDATORS[valueSpec.type](options);\n  } else {\n    const valid = validateObject(extend({ },
options, {\n      valueSpec: valueSpec.type ? styleSpec[valueSpec.type] : valueSpec\n    }));\n    return
valid;\n  }\n}\n\n", "\nimport ValidationError from '../error/validation_error';\nimport validateString from
 './validate_string';\n\nexport default function(options) {\n  const value = options.value;\n  const key
= options.key;\n\n  const errors = validateString(options);\n  if (errors.length) return errors;\n\n  if
(value.indexOf('{fontstack}') === -1) {\n    errors.push(new ValidationError(key, value, "\"glyphs\" url must
include a \"{fontstack}\" token")); \n  }\n\n  if (value.indexOf('{range}') === -1) {\n    errors.push(new
ValidationError(key, value, "\"glyphs\" url must include a \"{range}\" token")); \n  }\n\n  return

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errors;\n}\n", "\nimport validateConstants from './validate/validate_constants';\nimport validate from
 './validate/validate';\nimport latestStyleSpec from './reference/latest';\nimport validateGlyphsURL from
 './validate/validate_glyphs_url';\nimport validateSource from './validate/validate_source';\nimport validateLight
 from './validate/validate_light';\nimport validateLayer from './validate/validate_layer';\nimport validateFilter from
 './validate/validate_filter';\nimport validatePaintProperty from './validate/validate_paint_property';\nimport
 validateLayoutProperty
 from './validate/validate_layout_property';\n\n/**\n * Validate a Mapbox GL style against the style specification.
 This entrypoint,\n * `mapbox-gl-style-spec/lib/validate_style.min`, is designed to produce as\n * small a browserify
 bundle as possible by omitting unnecessary functionality\n * and legacy style specifications.\n * \n * @private\n *
 @param {Object} style The style to be validated.\n * @param {Object} [styleSpec] The style specification to
 validate against.\n * If omitted, the latest style spec is used.\n * @returns {Array<ValidationError>}\n *
 @example\n * var validate = require('mapbox-gl-style-spec/lib/validate_style.min');\n * var errors =
 validate(style);\n *\nfunction validateStyleMin(style, styleSpec = latestStyleSpec) {\n\n  let errors = [];\n\n  errors = errors.concat(validate({\n    key: ",\n    value: style,\n    valueSpec: styleSpec.$root,\n\n  styleSpec,\n    style,\n    objectElementValidators: {\n
      glyphs: validateGlyphsURL,\n      '*') {\n        return [];\n      }\n    });\n\n  if
 (style.constants) {\n    errors = errors.concat(validateConstants({\n      key: 'constants',\n      value:
 style.constants,\n      style,\n      styleSpec\n    }));\n  }\n\n  return
 sortErrors(errors);\n}\n\nvalidateStyleMin.source = wrapCleanErrors(validateSource);\nvalidateStyleMin.light =
 wrapCleanErrors(validateLight);\nvalidateStyleMin.layer =
 wrapCleanErrors(validateLayer);\nvalidateStyleMin.filter =
 wrapCleanErrors(validateFilter);\nvalidateStyleMin.paintProperty =
 wrapCleanErrors(validatePaintProperty);\nvalidateStyleMin.layoutProperty =
 wrapCleanErrors(validateLayoutProperty);\n\nfunction sortErrors(errors) {\n  return [].concat(errors).sort((a, b) =>
 {\n    return a.line - b.line;\n  });\n}\n\nfunction wrapCleanErrors(inner) {\n  return function(...args) {\n
return sortErrors(inner.apply(this, args));\n
};\n}\n\nexport default validateStyleMin;\n", "/* parser generated by jison 0.4.15 */\n\n Returns a Parser object
 of the following structure:\n\n Parser: {\n  yy: {} }\n\n Parser.prototype: {\n  yy: {},\n  trace: function(),\n
 symbols_: { associative list: name ==> number },\n  terminals_: { associative list: number ==> name },\n
 productions_: [...],\n  performAction: function anonymous(yytext, yyleng, yylineno, yy, yystate, $$, _$),\n  table:
 [...],\n  defaultActions: {...},\n  parseError: function(str, hash),\n  parse: function(input),\n\n lexer: {\n
 EOF: 1,\n  parseError: function(str, hash),\n  setInput: function(input),\n  input: function(),\n  unput:
 function(str),\n  more: function(),\n  less: function(n),\n  pastInput: function(),\n  upcomingInput:
 function(),\n  showPosition: function(),\n  test_match: function(regex_match_array, rule_index),\n  next:
 function(),\n
  lex: function(),\n  begin: function(condition),\n  popState: function(),\n  _currentRules: function(),\n
  topState: function(),\n  pushState: function(condition),\n\n  options: {\n    ranges: boolean
 (optional: true ==> token location info will include a .range[] member)\n    flex: boolean (optional: true
 ==> flex-like lexing behaviour where the rules are tested exhaustively to find the longest match)\n
 backtrack_lexer: boolean (optional: true ==> lexer regexes are tested in order and for each matching regex the
 action code is invoked; the lexer terminates the scan when a token is returned by the action code)\n  },\n\n
 performAction: function(yy, yy_, $avoiding_name_collisions, YY_START),\n  rules: [...],\n  conditions:
 { associative list: name ==> set },\n  }\n\n token location info (@$, _$, etc.): {\n  first_line: n,\n  last_line:
 n,\n  first_column: n,\n
  last_column: n,\n  range: [start_number, end_number] (where the numbers are indexes into the input string,
 regular zero-based)\n  }\n\n the parseError function receives a 'hash' object with these members for lexer and
 parser errors: {\n  text: (matched text)\n  token: (the produced terminal token, if any)\n  line:
 (yylineno)\n  }\n\n while parser (grammar) errors will also provide these members, i.e. parser errors deliver a superset

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of attributes: {\n loc: (yyval)\n expected: (string describing the set of expected tokens)\n recoverable:
(boolean: TRUE when the parser has a error recovery rule available for this particular error)\n }*\nvar parser =
(function() {\nvar o=function(k,v,o,l){for(o=o||{ },l=k.length;l--;>o[k[1]]=v);return
o,$V0=[1,12],$V1=[1,13],$V2=[1,9],$V3=[1,10],$V4=[1,11],$V5=[1,14],$V6=[1,15],$V7=[14,18,22,24],$V8=[1
8,22],$V9=[22,24];\nvar parser = {trace: function trace() { },\nyy: { },\nsymbols_:
{"error":2,"JSONString":3,"STRING":4,"JSONNumber":5,"NUMBER":6,"JSONNullLiteral":7,"NULL":
8,"JSONBooleanLiteral":9,"TRUE":10,"FALSE":11,"JSONText":12,"JSONValue":13,"EOF":14,"JSONO
bject":15,"JSONArray":16,"{"":17,"}":18,"JSONMemberList":19,"JSONMember":20,":":21,";":22,"[":23
,]":24,"JSONElementList":25,"$accept":0,"$end":1},\nterminals_:
{2:"error",4:"STRING",6:"NUMBER",8:"NULL",10:"TRUE",11:"FALSE",14:"EOF",17:"{",18:"}",21
:":",22:";",23:"[",24:"]"},\nproductions_:
[0,[3,1],[5,1],[7,1],[9,1],[9,1],[12,2],[13,1],[13,1],[13,1],[13,1],[13,1],[13,1],[15,2],[15,3],[20,3],[19,1],[19,3],[16,2],
[16,3],[25,1],[25,3]],\nperformAction: function anonymous(yytext, yylen, yylino, yy, yystate /* action[1] */, $$
/* vstack */, _$ /* lstack */) {\n/* this == yyval */\nvar $0 = $.length - 1;\nswitch (yystate) {\ncase 1:\n // replace
escaped characters with actual character\n this.$ = new String(yytext.replace(/\\(\\\\|\\\"|\\'|\\r|\\n)/g,
\\$"+\"1\"))\n .replace(/\\n/g, \\n)\n .replace(/\\r/g, \\r)\n
.replace(/\\t/g, \\t)\n .replace(/\\v/g, \\v)\n .replace(/\\f/g, \\f)\n
.replace(/\\b/g, \\b));\n this.$.__line__ = this.$.__first_line__;\n \\nbreak;\ncase 2:\n this.$ = new
Number(yytext);\n this.$.__line__ = this.$.__first_line__;\n \\nbreak;\ncase 3:\n this.$ = null;\n
\\nbreak;\ncase 4:\n this.$ = new Boolean(true);\n this.$.__line__ = this.$.__first_line__;\n
\\nbreak;\ncase 5:\n this.$ = new Boolean(false);\n this.$.__line__ = this.$.__first_line__;\n
\\nbreak;\ncase 6:\nreturn this.$ = $$[$0-1];\\nbreak;\ncase 13:\nthis.$ = { }; Object.defineProperty(this.$, '__line__',
{\n value: this.$.__first_line__,\n enumerable: false\n })\\nbreak;\ncase
14: case 19:\nthis.$ = $$[$0-1]; Object.defineProperty(this.$, '__line__', {\n value: this.$.__first_line__,\n
enumerable: false\n })\\nbreak;\ncase 15:\nthis.$ = [$$[$0-2], $$[$0]];\\nbreak;\ncase 16:\nthis.$ = { };
this.$[$$[$0][0]] = $$[$0][1];\\nbreak;\ncase 17:\nthis.$ = $$[$0-2]; $$[$0-2][$$[$0][0]] = $$[$0][1];\\nbreak;\ncase
18:\nthis.$ = []; Object.defineProperty(this.$, '__line__', {\n value: this.$.__first_line__,\n enumerable:
false\n })\\nbreak;\ncase 20:\nthis.$ = [$$[$0]];\\nbreak;\ncase 21:\nthis.$ = $$[$0-2]; $$[$0-
2].push($$[$0]);\\nbreak;\n}\n},\ntable:
[[{3:5,4:$V0,5:6,6:$V1,7:3,8:$V2,9:4,10:$V3,11:$V4,12:1,13:2,15:7,16:8,17:$V5,23:$V6},{1:[3]},{14:[1,16]},o($
V7,[2,7]),o($V7,[2,8]),o($V7,[2,9]),o($V7,[2,10]),o($V7,[2,11]),o($V7,[2,12]),o($V7,[2,3]),o($V7,[2,4]),o($V7,[2,
5]),o([14,18,21,22,24],[2,1]),o($V7,[2,2]),{3:20,4:$V0,18:[1,17],19:18,20:19},{3:5,4:$V0,5:6,6:$V1,7:3,8:$V2,9:4,
10:$V3,11:$V4,13:23,15:7,16:8,17:$V5,23:$V6,24:[1,21],25:22},{1:[2,6]},o($V7,[2,13]),{18:[1,24],22:[1,25]},o($
V8,[2,16]),{21:[1,26]},o($V7,[2,18]),{22:[1,28],24:[1,27]},o($V9,[2,20]),o($V7,[2,14]),{3:20,4:$V0,20:29},{3:5,4:
$V0,5:6,6:$V1,7:3,8:$V2,9:4,10:$V3,11:$V4,13:30,15:7,16:8,17:$V5,23:$V6},o($V7,[2,19]),{3:5,4:$V0,5:6,6:$V1
,7:3,8:$V2,9:4,10:$V3,11:$V4,13:31,15:7,16:8,17:$V5,23:$V6},o($V8,[2,17]),o($V8,[2,15]),o($V9,[2,21])],\ndefa
ultActions:
{16:[2,6]},\nparseError: function parseError(str, hash) {\n if (hash.recoverable) {\n this.trace(str);\n } else
{\n throw new Error(str);\n }\n},\nparse: function parse(input) {\n var self = this, stack = [], tstack = [],
vstack = [null], lstack = [], table = this.table, yytext = "", yylino = 0, yylen = 0, recovering = 0, ERROR = 2,
EOF = 1;\n var args = lstack.slice.call(arguments, 1);\n var lexer = Object.create(this.lexer);\n var sharedState
= { yy: { } }; \n for (var k in this.yy) {\n if (Object.prototype.hasOwnProperty.call(this.yy,
k)) {\n sharedState.yy[k] = this.yy[k];\n }\n } \n lexer.setInput(input, sharedState.yy);\n
sharedState.yy.lexer = lexer;\n sharedState.yy.parser = this;\n if (typeof lexer.yylloc == 'undefined') {\n
lexer.yylloc = { }; \n } \n var yyloc = lexer.yylloc;\n lstack.push(yyloc);\n var ranges = lexer.options &&
lexer.options.ranges;\n if (typeof sharedState.yy.parseError === 'function') {\n this.parseError =
sharedState.yy.parseError;\n } else {\n this.parseError = Object.getPrototypeOf(this).parseError;\n } \n
function popStack(n) {\n stack.length = stack.length - 2 * n;\n vstack.length = vstack.length - n;\n

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lstack.length = lstack.length - n;\n  }\n  _token_stack:\n  function lex() {\n    var token;\n    token =
lexer.lex() || EOF;\n    if (typeof token !== 'number') {\n      token = self.symbols_[token] || token;\n    }\n    return token;\n  }\n  var symbol, preErrorSymbol, state, action, a, r, yyval = {}, p, len, newState, expected;\n  while (true) {\n    state = stack[stack.length - 1];\n    if (this.defaultActions[state]) {\n      action =
this.defaultActions[state];\n    } else {\n      if (symbol === null || typeof symbol === 'undefined') {\n        symbol = lex();\n      }\n      action = table[state] && table[state][symbol];\n    }\n    if (typeof
action === 'undefined' || !action.length || !action[0]) {\n      var errStr = ";\n      expected = [];\n      for (p in table[state]) {\n        if (this.terminals_[p] && p > TERROR) {\n          expected.push("\\\" +
this.terminals_[p] + "\\");\n        }\n      }\n      if (lexer.showPosition) {\n        errStr =
'Parse error on line ' + (yylineno + 1) + ':' + lex.yytext + '\nExpecting
' + expected.join(', ') + ', got \'' + (this.terminals_[symbol] || symbol) + '\'';\n      } else {\n        errStr =
'Parse error on line ' + (yylineno + 1) + ': Unexpected ' + (symbol === EOF ? 'end of input' : '\\\" +
(this.terminals_[symbol] || symbol) + "\\");\n      }\n      this.parseError(errStr, {\n        text:
lexer.match,\n        token: this.terminals_[symbol] || symbol,\n        line: lexer.yylineno,\n
loc: yyloc,\n        expected: expected\n      });\n      if (action[0] instanceof Array &&
action.length > 1) {\n        throw new Error('Parse Error: multiple actions possible at state: ' + state + ', token: ' +
symbol);\n      }\n      switch (action[0]) {\n        case 1:\n          stack.push(symbol);\n          vstack.push(lexer.yytext);\n          lstack.push(lexer.yyloc);\n          stack.push(action[1]);\n          symbol = null;\n          if (!preErrorSymbol) {\n            yytext =
lexer.yytext;\n            yylineno = lexer.yylineno;\n            yyloc = lexer.yyloc;\n            if (recovering > 0)
{\n              recovering--;\n            }\n          } else {\n            symbol = preErrorSymbol;\n            preErrorSymbol = null;\n          }\n          break;\n        case 2:\n          len = this.productions_[action[1]][1];\n          yyval.$ = vstack[vstack.length - len];\n          yyval._$ = {\n            first_line: lstack[lstack.length - (len ||
1)].first_line,\n            last_line: lstack[lstack.length - 1].last_line,\n            first_column: lstack[lstack.length -
(len || 1)].first_column,\n            last_column: lstack[lstack.length - 1].last_column\n          };\n          if (ranges)
{\n            yyval._$.range = [\n              lstack[lstack.length
- (len || 1)].range[0],\n              lstack[lstack.length - 1].range[1]\n            ];\n          }\n          r =
this.performAction.apply(yyval, [\n            yytext,\n            yyloc,\n            yylineno,\n
sharedState.yy,\n            action[1],\n            vstack,\n            lstack\n          ].concat(args));\n          if
(typeof r !== 'undefined') {\n            return r;\n          }\n          if (len) {\n            stack = stack.slice(0, -1 *
len * 2);\n            vstack = vstack.slice(0, -1 * len);\n            lstack = lstack.slice(0, -1 * len);\n          }\n          stack.push(this.productions_[action[1]][0]);\n          vstack.push(yyval.$);\n          lstack.push(yyval._$);\n          newState = table[stack[stack.length - 2]][stack[stack.length - 1]);\n          stack.push(newState);\n          break;\n        case 3:\n          return true;\n      }\n    }\n  }\n  return true;\n};\n\n/* generated by jison-lex 0.3.4 */\nvar lexer = (function() {\n  var lexer =
({\n    EOF: 1,\n    parseError: function parseError(str, hash) {\n      if (this.yy.parser) {\n        this.yy.parser.parseError(str, hash);\n      } else {\n        throw new Error(str);\n      }\n    },\n    // resets the lexer,\n    sets new input\n    setInput: function (input, yy) {\n      this.yy = yy || this.yy || {};\n      this._input = input;\n      this._more = this._backtrack = this.done = false;\n      this.yylineno = this.yyleng = 0;\n      this.yytext =
this.matched = this.match = ";\n      this.conditionStack = ['INITIAL'];\n      this.yylloc = {\n        first_line: 1,\n
        first_column: 0,\n        last_line: 1,\n        last_column: 0\n      };\n      if (this.options.ranges) {\n        this.yylloc.range = [0,0];\n      }\n      this.offset = 0;\n      return this;\n    },\n    // consumes and returns one char
from
the input\n    input: function () {\n      var ch = this._input[0];\n      this.yytext += ch;\n      this.yyleng++;\n      this.offset++;\n      this.match += ch;\n      this.matched += ch;\n      var lines = ch.match(/(?:\\r\\n?|\\n).*/g);\n      if (lines) {\n        this.yylineno++;\n        this.yylloc.last_line++;\n      } else {\n        this.yylloc.last_column++;\n      }\n      if (this.options.ranges) {\n        this.yylloc.range[1]++;\n      }\n    }\n  });\n  return lexer;\n})();

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this._input = this._input.slice(1);\n    return ch;\n  },\n\n// unshifts one char (or a string) into the
input\n\nunput:function (ch) {\n    var len = ch.length;\n    var lines = ch.split(/(?:\\r\\n?|\\n)/g);\n\nthis._input = ch + this._input;\n    this.yytext = this.yytext.substr(0, this.yytext.length - len);\n    //this.yyleng -=
len;\n    this.offset -= len;\n    var oldLines = this.match.split(/(?:\\r\\n?|\\n)/g);\n    this.match =
this.match.substr(0,
    this.match.length - 1);\n    this.matched = this.matched.substr(0, this.matched.length - 1);\n\n    if (lines.length
- 1) {\n        this.yylineno -= lines.length - 1;\n    }\n    var r = this.yylloc.range;\n\n    this.yylloc = {\n
first_line: this.yylloc.first_line,\n        last_line: this.yylineno + 1,\n        first_column:
this.yylloc.first_column,\n        last_column: lines ?\n            (lines.length === oldLines.length ?
this.yylloc.first_column : 0)\n            + oldLines[oldLines.length - lines.length].length - lines[0].length :\n
this.yylloc.first_column - len\n    };\n\n    if (this.options.ranges) {\n        this.yylloc.range = [r[0], r[0] +
this.yyleng - len];\n    }\n    this.yyleng = this.yytext.length;\n    return this;\n  },\n\n// When called from
action, caches matched text and appends it on next action\n\nmore:function () {\n    this._more = true;\n    return
this;\n  },\n\n// When called from action, signals the lexer that this rule fails to match the input, so the next
matching rule (regex) should be tested instead.\n\nreject:function () {\n    if (this.options.backtrack_lexer) {\n
this._backtrack = true;\n    } else {\n        return this.parseError('Lexical error on line ' + (this.yylineno + 1) +
'. You can only invoke reject() in the lexer when the lexer is of the backtracking persuasion (options.backtrack_lexer =
true).\\n' + this.showPosition(), {\n            text: "",\n            token: null,\n            line: this.yylineno\n
});\n    }\n    return this;\n  },\n\n// retain first n characters of the match\n\nless:function (n) {\n
this.unput(this.match.slice(n));\n  },\n\n// displays already matched input, i.e. for error
messages\n\npastInput:function () {\n    var past = this.matched.substr(0, this.matched.length - this.match.length);\n
    return (past.length
    > 20 ? '...' : '') + past.substr(-20).replace(/\\n/g, '\\n');\n  },\n\n// displays upcoming input, i.e. for error
messages\n\nupcomingInput:function () {\n    var next = this.match;\n    if (next.length < 20) {\n        next +=
this._input.substr(0, 20 - next.length);\n    }\n    return (next.substr(0,20) + (next.length > 20 ? '...' :
'')).replace(/\\n/g, '\\n');\n  },\n\n// displays the character position where the lexing error occurred, i.e. for error
messages\n\nshowPosition:function () {\n    var pre = this.pastInput();\n    var c = new Array(pre.length +
1).join('-');\n    return pre + this.upcomingInput() + '\\n\\n' + c + '\\n^\\n';\n  },\n\n// test the lexed token: return
FALSE when not a match, otherwise return token\n\ntest_match:function (match, indexed_rule) {\n    var token,\n        lines,\n        backup;\n\n    if (this.options.backtrack_lexer) {\n        // save context\n        backup = {\n
yylineno: this.yylineno,\n            yylloc: {\n                first_line: this.yylloc.first_line,\n                last_line: this.last_line,\n
first_column: this.yylloc.first_column,\n                last_column: this.yylloc.last_column\n            },\n            yytext: this.yytext,\n            match: this.match,\n            matches: this.matches,\n            matched:
this.matched,\n            yyleng: this.yyleng,\n            offset: this.offset,\n            _more: this._more,\n            _input: this._input,\n            yy: this.yy,\n            conditionStack: this.conditionStack.slice(0),\n            done:
this.done\n        };\n\n        if (this.options.ranges) {\n            backup.yylloc.range = this.yylloc.range.slice(0);\n        }\n    }\n\n    lines = match[0].match(/(?:\\r\\n?|\\n).*/g);\n    if (lines) {\n        this.yylineno +=
lines.length;\n    }\n\n    this.yylloc = {\n        first_line: this.yylloc.last_line,\n        last_line: this.yylineno + 1,\n        first_column:
this.yylloc.last_column,\n        last_column: lines ?\n            lines[lines.length - 1].length -
lines[lines.length - 1].match(/\\r?\\n?)/[0].length :\n            this.yylloc.last_column + match[0].length\n    };\n    this.yytext += match[0];\n    this.match += match[0];\n    this.matches = match;\n    this.yyleng =
this.yytext.length;\n    if (this.options.ranges) {\n        this.yylloc.range = [this.offset, this.offset +=
this.yyleng];\n    }\n    this._more = false;\n    this._backtrack = false;\n    this._input =
this._input.slice(match[0].length);\n    this.matched += match[0];\n    token = this.performAction.call(this,
this.yy, this, indexed_rule, this.conditionStack[this.conditionStack.length - 1]);\n    if (this.done && this._input)
{\n        this.done

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= false;\n    }\n    if (token) {\n        return token;\n    } else if (this._backtrack) {\n        // recover
context\n    for (var k in backup) {\n        this[k] = backup[k];\n    }\n    return false; // rule action
called reject() implying the next rule should be tested instead.\n    }\n    return false;\n },\n\n// return next
match in input\nnext:function () {\n    if (this.done) {\n        return this.EOF;\n    }\n    if (!this._input) {\n
        this.done = true;\n    }\n    var token,\n        match,\n        tempMatch,\n        index;\n    if
(!this._more) {\n        this.yytext = "";\n        this.match = "";\n    }\n    var rules = this._currentRules();\n
for (var i = 0; i < rules.length; i++) {\n        tempMatch = this._input.match(this.rules[rules[i]]);\n        if
(tempMatch && (!match || tempMatch[0].length > match[0].length))
{\n            match = tempMatch;\n            index = i;\n            if (this.options.backtrack_lexer) {\n
token = this.test_match(tempMatch, rules[i]);\n                if (token !== false) {\n                    return token;\n
                } else if (this._backtrack) {\n                    match = false;\n                    continue; // rule action called
reject() implying a rule MISmatch.\n                } else {\n                    // else: this is a lexer rule which consumes
input without producing a token (e.g. whitespace)\n                    return false;\n                }\n            } else if
(!this.options.flex) {\n                break;\n            }\n        }\n    }\n    if (match) {\n        token =
this.test_match(match, rules[index]);\n        if (token !== false) {\n            return token;\n        }\n        //
else: this is a lexer rule which consumes
input without producing a token (e.g. whitespace)\n        return false;\n    }\n    if (this._input === "\\") {\n
return this.EOF;\n    } else {\n        return this.parseError("Lexical error on line ' + (this.yylineno + 1) + '.
Unrecognized text.\\n' + this.showPosition(), {\n            text: "\\",\n            token: null,\n            line:
this.yylineno\n        });\n    }\n },\n\n// return next match that has a token\nlex:function lex() {\n    var r =
this.next();\n    if (r) {\n        return r;\n    } else {\n        return this.lex();\n    }\n },\n\n// activates a
new lexer condition state (pushes the new lexer condition state onto the condition stack)\nbegin:function
begin(condition) {\n    this.conditionStack.push(condition);\n },\n\n// pop the previously active lexer condition
state off the condition stack\npopState:function popState() {\n    var n = this.conditionStack.length
- 1;\n    if (n > 0) {\n        return this.conditionStack.pop();\n    } else {\n        return
this.conditionStack[0];\n    }\n },\n\n// produce the lexer rule set which is active for the currently active lexer
condition state\n_currentRules:function _currentRules() {\n    if (this.conditionStack.length &&
this.conditionStack[this.conditionStack.length - 1]) {\n        return
this.conditions[this.conditionStack[this.conditionStack.length - 1]].rules;\n    } else {\n        return
this.conditions["INITIAL"].rules;\n    }\n },\n\n// return the currently active lexer condition state; when an
index argument is provided it produces the N-th previous condition state, if available\ntopState:function topState(n)
{\n    n = this.conditionStack.length - 1 - Math.abs(n || 0);\n    if (n >= 0) {\n        return
this.conditionStack[n];\n    } else {\n        return "INITIAL";\n    }\n },\n\n// alias for
begin(condition)\npushState:function
pushState(condition) {\n    this.begin(condition);\n },\n\n// return the number of states currently on the
stack\nstateStackSize:function stateStackSize() {\n    return this.conditionStack.length;\n },\n\noptions:
{\n},\n\nperformAction: function anonymous(yy,yy_,$avoiding_name_collisions,YY_START) {\nvar
YYSTATE=YY_START;\nswitch($avoiding_name_collisions) {\ncase 0:/* skip whitespace */\nbreak;\ncase
1:return 6\nbreak;\ncase 2:yy_.yytext = yy_.yytext.substr(1,yy_.yyleng-2); return 4\nbreak;\ncase 3:return
17\nbreak;\ncase 4:return 18\nbreak;\ncase 5:return 23\nbreak;\ncase 6:return 24\nbreak;\ncase 7:return
22\nbreak;\ncase 8:return 21\nbreak;\ncase 9:return 10\nbreak;\ncase 10:return 11\nbreak;\ncase 11:return
8\nbreak;\ncase 12:return 14\nbreak;\ncase 13:return 'INVALID'\nbreak;\n}\n},\n\nrules: [/\^(?:\|s+|)/,\/^(?:(-?([0-9][1-
9][0-9]+))(\.[0-9]+)?([eE][+]?[0-9]+)?\|b)/,\/^(?:"(\?:\\\\[\\\\\\\\]bfnrt|\\\\u[a-fA-F0-9]{4}|[^\u0000-\u00a-
\u001f])*")/\,\/^(?:\{\}/,\/^(?:\}/,\/^(?:\[/,\/^(?:\]/,\/^(?::)/,\/^(?:;)/,\/^(?:true|b)/,\/^(?:false|b)/,\/^(?:null|b)/,\/^(?:$)/,\/^(?:
.)/],\nconditions:
{"INITIAL":{"rules":[0,1,2,3,4,5,6,7,8,9,10,11,12,13],"inclusive":true}}}\n});\nreturn lexer;\n})();\n\nparser.lexer
= lexer;\nfunction Parser () {\n    this.yy = {};\n}\n\nParser.prototype = parser;\nparser.Parser = Parser;\nreturn new
Parser;\n})();\n\nif (typeof require !== 'undefined' && typeof exports !== 'undefined') {\nexports.parser =

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parser;\nexports.Parser = parser.Parser;\nexports.parse = function () { return parser.parse.apply(parser, arguments);
};\n}\n", "import ParsingError from './error/parsing_error';\nimport jsonlint from '@mapbox/jsonlint-lines-
primitives';\n\nexport default function readStyle(style) {\n  if (style instanceof String || typeof style === 'string' ||
style instanceof Buffer) {\n    try {\n      return jsonlint.parse(style.toString());\n    } catch (e) {\n
throw new ParsingError(e);\n
  }\n  }\n  return style;\n}\n", "\nimport validateStyleMin from './validate_style.min';\nimport {v8} from './style-
spec';\nimport readStyle from './read_style';\n\n/**\n * Validate a Mapbox GL style against the style specification.\n
*\n * @private\n * @alias validate\n * @param {Object|String|Buffer} style The style to be validated. If a `String`\n
* or `Buffer` is provided, the returned errors will contain line numbers.\n * @param {Object} [styleSpec] The
style specification to validate against.\n * If omitted, the spec version is inferred from the stylesheet.\n * @returns
{Array<ValidationError|ParsingError>}\n * @example\n * var validate = require('mapbox-gl-style-
spec').validate;\n * var style = fs.readFileSync('./style.json', 'utf8');\n * var errors = validate(style);\n *\n\nexport
default function validateStyle(style, styleSpec = v8) {\n  let s = style;\n  try {\n    s = readStyle(s);\n  } catch
(e) {\n    return [e];\n  }\n  return validateStyleMin(s,
styleSpec);\n}\n\nexport const source = validateStyleMin.source;\nexport const light =
validateStyleMin.light;\nexport const layer = validateStyleMin.layer;\nexport const filter =
validateStyleMin.filter;\nexport const paintProperty = validateStyleMin.paintProperty;\nexport const layoutProperty
= validateStyleMin.layoutProperty;\n", "// @flow\nimport validateStyle from './validate_style.min';\nimport {v8}
from './style-spec';\nimport readStyle from './read_style';\nimport ValidationError from
 './error/validation_error';\nimport getType from './util/get_type';\n\nconst SUPPORTED_SPEC_VERSION =
8;\nconst MAX_SOURCES_IN_STYLE = 15;\n\nfunction isValid(value: ?string, regex: RegExp): boolean {\n  if
(!value || getType(value) !== 'string') return true;\n  return !!value.match(regex);\n}\n\nfunction
getSourceCount(source: Object): number {\n  if (source.url) {\n    return source.url.split(',').length;\n  } else {\n
return 0;\n  }\n}\n\nfunction getAllowedKeyErrors(obj:
Object, keys: Array<*>, path: ?string): Array<?ValidationError> {\n  const allowed = new Set(keys);\n  const
errors = [];\n  Object.keys(obj).forEach(k => {\n    if (!allowed.has(k)) {\n      const prop = path ?
`${path}.${k}` : null;\n      errors.push(new ValidationError(prop, obj[k], `Unsupported property \`${k}\`));\n
    }\n  });\n  return errors;\n}\n\nfunction getSourceErrors(source: Object, i: number): Array<?ValidationError>
{\n  const errors = [];\n  /*\n   * Inlined sources are not supported by the Mapbox Styles API, so only\n
   * \"type\", \"url\", and \"tileSize\" properties are valid\n   */\n  const sourceKeys = ['type', 'url', 'tileSize'];\n
  errors.push(...getAllowedKeyErrors(source, sourceKeys, 'source'));\n  /*\n   * \"source\" is required. Valid
examples:\n   * mapbox://mapbox.abcd1234\n   * mapbox://penny.abcd1234\n   *
mapbox://mapbox.abcd1234,penny.abcd1234\n   */\n  const sourceUrlPattern
= /^mapbox:\\\\(\\|\\/([^/]*)$)/;\n  if (!isValid(source.url, sourceUrlPattern)) {\n    errors.push(new
ValidationError(`sources[${i}]`, source.url, 'Source url must be a valid Mapbox tileset url'));\n  }\n  return
errors;\n}\n\nfunction getSourcesErrors(sources: Object): Array<?ValidationError> {\n  const errors = [];\n  let
count = 0;\n  Object.keys(sources).forEach((s: string, i: number) => {\n    const sourceErrors =
getSourceErrors(sources[s], i);\n    // If source has errors, skip counting\n    if (!sourceErrors.length) {\n
count = count + getSourceCount(sources[s]);\n    }\n    errors.push(...sourceErrors);\n  });\n  if (count >
MAX_SOURCES_IN_STYLE) {\n    errors.push(new ValidationError('sources', null, `Styles must contain
${MAX_SOURCES_IN_STYLE} or fewer sources`));\n  }\n  return errors;\n}\n\nfunction getRootErrors(style:
Object, specKeys: Array<any>): Array<?ValidationError> {\n  const errors = [];\n  /*\n   * The following keys are optional but fully managed by the Mapbox Styles\n
   * API. Values on
stylesheet on POST or PATCH will be ignored: \"owner\", \"id\", \"cacheControl\", \"draft\", \"created\",
\"modified\"\n   */\n  /*\n   * The following keys are optional. The Mapbox Styles API respects value on\n
   * stylesheet on PATCH, but ignores the value on POST: \"visibility\"\n   */\n  const optionalRootProperties = [\n
'owner',\n  'id',\n  'cacheControl',\n  'draft',\n  'created',\n  'modified',\n  'visibility'\n  ];\n  const
allowedKeyErrors = getAllowedKeyErrors(style, [...specKeys, ...optionalRootProperties]);\n

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errors.push(...allowedKeyErrors);\n\n if (style.version > SUPPORTED_SPEC_VERSION || style.version <
SUPPORTED_SPEC_VERSION) {\n    errors.push(new ValidationError('version', style.version, `Style version
must be ${SUPPORTED_SPEC_VERSION}`));\n  }\n\n /*\n * \"glyphs\" is optional. If
present, valid examples:\n * mapbox://fonts/penny/{fontstack}/{range}.pbf\n *
mapbox://fonts/mapbox/{fontstack}/{range}.pbf\n *^\n const glyphUrlPattern =
/^mapbox:\\\\fonts\\([\\/*]*)\\\\{fontstack}\\\\{range}.pbf$/;\n if (!isValid(style.glyphs, glyphUrlPattern)) {\n
errors.push(new ValidationError('glyphs', style.glyphs, 'Styles must reference glyphs hosted by Mapbox'));\n }
\n\n /*\n * \"sprite\" is optional. If present, valid examples:\n * mapbox://sprites/penny/abcd1234\n *
mapbox://sprites/mapbox/abcd1234/draft\n * mapbox://sprites/cyrus/abcd1234/abcd1234\n *^\n const
spriteUrlPattern = /^mapbox:\\\\sprites\\([\\/*]*)\\\\([\\/*]*)\\\\{([\\/*]*)?$/;\n if (!isValid(style.sprite, spriteUrlPattern))
{\n    errors.push(new ValidationError('sprite', style.sprite, 'Styles must reference sprites hosted by Mapbox'));\n
}\n\n /*\n * \"visibility\" is optional. If present, valid examples:\n * \"private\"\n * \"public\"\n
*\n const visibilityPattern = /^(public|private)$/;\n if (!isValid(style.visibility, visibilityPattern)) {\n
errors.push(new ValidationError('visibility', style.visibility, 'Style visibility must be public or private'));\n }
\n\n return errors;\n}\n\n**\n * Validate a Mapbox GL style against the style specification and check for\n *
compatibility with the Mapbox Styles API.\n * @param {Object} style The style to be validated.\n * @returns
{Array<ValidationError>}\n * @example\n * var validateMapboxApiSupported = require('mapbox-gl-style-
spec/lib/validate_style_mapbox_api_supported.js');\n * var errors = validateMapboxApiSupported(style);\n
*\nexport default function validateMapboxApiSupported(style: Object): Array<?ValidationError> {\n let s =
style;\n try {\n s = readStyle(s);\n } catch (e) {\n return [e];\n }\n\n let errors = validateStyle(s, v8)\n
.concat(getRootErrors(s, Object.keys(v8.$root)));\n\n if (s.sources)\n {\n errors = errors.concat(getSourcesErrors(s.sources));\n }\n\n return errors;\n}\n\n\"// @flow\n\ntype
ExpressionType = 'data-driven' | 'cross-faded' | 'cross-faded-data-driven' | 'color-ramp' | 'data-constant' |
'constant';\ntype ExpressionParameters = Array<'zoom' | 'feature' | 'feature-state' | 'heatmap-density' | 'line-
progress'>;\ntype ExpressionSpecification = {\n interpolated: boolean,\n parameters:
ExpressionParameters\n}\n\nexport type StylePropertySpecification = {\n type: 'number',\n 'property-type':
ExpressionType,\n expression?: ExpressionSpecification,\n transition: boolean,\n default?: number\n} | {\n
type: 'string',\n 'property-type': ExpressionType,\n expression?: ExpressionSpecification,\n transition:
boolean,\n default?: string,\n tokens?: boolean\n} | {\n type: 'boolean',\n 'property-type': ExpressionType,\n
expression?: ExpressionSpecification,\n transition: boolean,\n default?: boolean\n}
| {\n type: 'enum',\n 'property-type': ExpressionType,\n expression?: ExpressionSpecification,\n values: {[_:
string]: {}},\n transition: boolean,\n default?: string\n} | {\n type: 'color',\n 'property-type':
ExpressionType,\n expression?: ExpressionSpecification,\n transition: boolean,\n default?: string,\n
overridable: boolean\n} | {\n type: 'array',\n value: 'number',\n 'property-type': ExpressionType,\n
expression?: ExpressionSpecification,\n length?: number,\n transition: boolean,\n default?: Array<number>\n}
| {\n type: 'array',\n value: 'string',\n 'property-type': ExpressionType,\n expression?:
ExpressionSpecification,\n length?: number,\n transition: boolean,\n default?: Array<string>\n};\n\nimport v8
from './reference/v8.json';\nimport latest from './reference/latest';\nimport format from './format';\nimport migrate
from './migrate';\nimport composite from './composite';\nimport derefLayers from './deref';\nimport
diff from './diff';\nimport ValidationError from './error/validation_error';\nimport ParsingError from
'./error/parsing_error';\nimport {StyleExpression, isExpression, createExpression, createPropertyExpression,
normalizePropertyExpression, ZoomConstantExpression, ZoomDependentExpression, StylePropertyFunction} from
'./expression';\nimport featureFilter, {isExpressionFilter} from './feature_filter';\nimport convertFilter from
'./feature_filter/convert';\nimport Color from './util/color';\nimport {createFunction, isFunction} from
'./function';\nimport convertFunction from './function/convert';\nimport {eachSource, eachLayer, eachProperty}
from './visit';\nimport validate from './validate_style';\nimport validateMapboxApiSupported from
'./validate_mapbox_api_supported';\n\nconst expression = {\n StyleExpression,\n isExpression,\n
isExpressionFilter,\n createExpression,\n createPropertyExpression,\n normalizePropertyExpression,\n

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ZoomConstantExpression,\n

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ZoomDependentExpression,\n StylePropertyFunction\n};\n\nconst styleFunction = {\n  convertFunction,\n  createFunction,\n  isFunction\n};\n\nconst visit = {eachSource, eachLayer, eachProperty};\n\nexport {\n  v8,\n  latest,\n  format,\n  migrate,\n  composite,\n  derefLayers,\n  diff,\n  ValidationError,\n  ParsingError,\n  expression,\n  featureFilter,\n  convertFilter,\n  Color,\n  styleFunction as function,\n  validate,\n  validateMapboxApiSupported,\n  visit\n};\n\nvalidate.parsed = validate;\nvalidate.latest =\nvalidate;\n"],"names":["sortKeysBy","obj","reference","const","result","key","undefined","format","style","space","$root","layers","map","layer","stringifyPretty","indent","global","this","require$$0","require$$1","getPropertyReference","propertyName","let","i","Reference","layout","length","paint","eachSource","callback","k","sources","eachLayer","eachProperty","options","inner","propertyType","properties","Object","keys","forEach","path","id","value","set","x","eachLayout","indexOf","eachPaint","resolveConstant","constants","isFunction","Array","isArray","stops","renameProperty","from","to","version","source","type","url","coordinates","coord","reverse","property","stop","migrateFontstackURL","input","inputParsed","URL","parse","inputPathnameParts","pathname","split","protocol","hostname","glyphs","migrateFontStack","font","splitAndTrim","string","s","trim","Error","firstSymbolLayer","symbolLayers","splice","concat","output","inputs","ParsingError","message","super","Scope","parent","bindings","name","expression","get","has","NullType","kind","NumberType","StringType","BooleanType","ColorType","ObjectType","ValueType","ErrorType","CollatorType","FormattedType","ResolvedImageType","array","itemType","N","toString","valueMemberTypes","checkSubtype","expected","t","memberType","isValidType","provided","allowedTypes","some","isValidNativeType","Color","r","g","b","a","rgba","parseCSSColor","toArray","Math","round","black","white","transparent","red","Collator","caseSensitive","diacriticSensitive","locale","sensitivity","collator","Intl","usage","compare","lhs","rhs","resolvedLocale","resolvedOptions","FormattedSection","text","image","scale","fontStack","textColor","Formatted","sections","fromString","unformatted","isEmpty","section","factory","join","serialize","serialized","push","ResolvedImage","available","validateRGBA","isValue","mixed","item","typeof","String","JSON","stringify","Literal","args","context","error","expectedType","evaluate","eachChild","outputDefined","RuntimeError","toJSON","types","number","boolean","object","Assertion","floor","parsed","ctx","fn","every","arg","FormatExpression","firstArg","nextTokenMaybeObject","lastExpression","content","evaluateSection","evaluatedContent","ImageExpression","evaluatedImageName","availableImages","Coercion","Boolean","c","parseColor","num","Number","isNaN","valueToString","child","geometryTypes","EvaluationContext","globals","feature","featureState","formattedSection","_parseColorCache","canonical","geometryType","geometry","canonicalID","cached","CompoundExpression","_evaluate","op","definition","definitions","availableOverloads","overloads","filter","signature","signatureContext","ParsingContext","registry","scope","parsedArgs","argParseFailed","params","errors","signatures","stringifySignature","actualTypes","register","CollatorExpression","EXTENT","updateBBox","bbox","min","max","mercatorXfromLng","lng","mercatorYfromLat","lat","PI","log","tan","boxWithinBox","bbox1","bbox2","getTileCoordinates","p","y","tilesAtZoom","pow","z","onBoundary","p1","p2","x1","y1","x2","y2","rayIntersect","pointWithinPolygon","point","rings","inside","len","ring","j","len2","pointWithinPolygons","polygons","perp","v1","v2","twoSided","q1","q2","x3","y3","det1","det2","lineIntersectLine","d","vectorP","vectorQ","lineIntersectPolygon","polygon","lineStringWithinPolygon","line","lineStringWithinPolygons","getTilePolygon","getTilePolygons","updatePoint","polyBBox","worldSize","halfWorldSize","shift","resetBBox","Infinity","getTilePoints","pointBBox","shifts","tilePoints","points","getTileLines","lineBBox","tileLines","tileLine","pointsWithinPolygons","polygonGeometry","tilePolygon","tilePolygons","linesWithinPolygons","Within","geojson","geometries","features","isFeatureConstant","e","test","isStateConstant","isGlobalPropertyConstant","Var","boundExpression","part","expr","index","_parse","annotate","typeAnnotation","Expr","actual","isConstant","ec","isTypeAnnotation","childrenConstant","findStopLessThanOrEqualTo","lastIndex","lowerIndex","upperIndex","currentIndex","currentValue","nextValue","Step","labels","outputs","label","outputType","labelKey","valueKey","stopCount","out","color","Xn","Yn","Zn","t0","t1","t2","t3","deg2rad","rad2deg","xyz2lab","lab2xyz","xyz2rgb","rgb2xyz","rgbToLab","rgbColor","1","alpha","labToRgb","labColor","interpolateLab","interpolateNumber","rgbToHcl","h","atan2","sqrt","hclToRgb","hclColor","cos","sin","interpolateHue","interpolateHcl","lab","forward","interpolate","hcl","Interpolate","operator","interpolation","interpolationFactor","lower","upper","exponentialInterpolation","base","controlPoints","ub","UnitBezier","solve","slice","rest
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","outputLower","outputUpper","toLowerCase","lowerValue","upperValue","difference","progress","Coalesce","needsAnnotation","argCount","requestedImageName","Let","binding","At","In","needle","haystack","IndexOF","fromIndex","Match","inputType","cases","otherwise","labelContext","abs","MAX\_SAFE\_INTEGER","sortedLabels","sort","groupedByOutput","outputLookup","outputIndex","coerceLabel","Case","branches","Slice","beginIndex","endIndex","isComparableType","eq","neq","lt","gt","lteq","gteq","eqCollate","neqCollate","ltCollate","gtCollate","lteqCollate","gteqCollate","makeComparison","compareBasic","compareWithCollator","isOrderComparison","hasUntypedArgument","Comparison","rt","Equals","NotEquals","LessThan","GreaterThan","LessThanOrEqual","GreaterThanOrEqual","NumberFormat","currency","minFractionDigits","maxFractionDigits","minimumFractionDigits","maximumFractionDigits","Length","expressions","v","binarySearch","m","varargs","typeToString","zoom","heatmapDensity","lineProgress","accumulated","LN2","E","n","LN10","asin","acos","atan","ceil","isSupportedScript","toUpperCase","success","supportsPropertyExpression","spec","supportsZoomExpression","parameters","supportsInterpolation","interpolated","getType","val","identityFunction","createFunction","propertySpec","isColor","zoomAndFeatureDependent","featureDependent","zoomDependent","extend","default","colorSpace","colorSpaces","innerFun","hasHedStops","categoricalKeyType","evaluateExponentialFunction","evaluateIntervalFunction","evaluateCategoricalFunction","create","evaluateIdentityFunction","featureFunctions","zoomStops","featureFunctionStops","interpolationType","bind","\_","coalesce","keyType","evaluated","interp","colorspace","evaluatedLower","apply","evaluatedUpper","values","StyleExpression","\_warningHistory","\_evaluator","\_defaultValue","getDefaultValue","\_enumValues","evaluateWithoutErrorHandling","console","warn","isExpression","createExpression","parser","getExpectedType","ZoomConstantExpression","\_styleExpression","isStateDependent","ZoomDependentExpression","createPropertyExpression","isZoomConstant","zoomCurve","findZoomCurve","StylePropertyFunction","specification","\_parameters","\_specification","deserialize","normalizePropertyExpression","err","constant","childResult","enum","formatted","resolvedImage","convertLiteral","convertFunction","convertIdentityFunction","tokens","convertTokenString","convertZoomAndPropertyFunction","convertZoomFunction","convertPropertyFunction","getInterpolateOperator","featureFunctionParameters","functionType","getFunctionType","appendStopPair","fixupDegenerateStepCurve","isStep","curve","re","pos","match","exec","literal","isExpressionFilter","f","filterSpec","createFilter","needGeometry","convertFilter","compiled","geometryNeeded","globalProperties","converted","convertComparisonOp","convertNegation","convertDisjunctionOp","convertInOp","convertHasOp","filters","\_convertFilter","expectedTypes","children","typechecks","runtimeTypeChecks","conditions","negate","uniformTypes","uniqueValues","migrated","migrateToV8","migrateToExpressions","styleIDs","sourceIDs","compositedSourceLayers","compositeID","deref","refProperties","derefLayers","ref","deepEqual","operations","setStyle","addLayer","removeLayer","setPaintProperty","setLayoutProperty","setFilter","addSource","removeSource","setGeoJSONSourceData","setLayerZoomRange","setLayerProperty","setCenter","setZoom","setBearing","setPitch","setSprite","setGlyphs","setTransition","setLight","sourceId","after","commands","command","sourcesRemoved","updateSource","canUpdateGeoJSON","before","prop","hasOwnProperty","isEqual","diffSources","data","diffLayerPropertyChanges","layerId","klass","pluckId","indexById","group","diffLayers","beforeOrder","afterOrder","beforeIndex","reduce","afterIndex","tracker","clean","beforeLayer","afterLayer","insertBeforeLayerId","lastIndexOf","minzoom","maxzoom","diffStyles","center","bearing","pitch","sprite","transition","light","removeOrAddSourceCommands","beforeLayers","ValidationError","identifier","\_\_line\_\_","parseInt","validateConstants","unbundle","valueOf","deepUnbundle","unbundledValue","validateObject","elementSpecs","valueSpec","elementValidators","objectElementValidators","styleSpec","objectKey","elementSpecKey","elementSpec","validateElement","validateSpec","required","validateArray","arraySpec","validateArrayElement","arrayElementValidator","validate","arrayElementSpec","\$version","function","arrayIndex","validateNumber","minimum","maximum","validateFunction","functionValueSpec","stopKeyType","stopDomainValues","previousStopDomainValue","previousStopDomainZoom","isZoomFunction","isPropertyFunction","isZoomAndPropertyFunction","validateFunctionStops","validateFunctionDefault","validateFunctionStop","validateStopDomainValue","reportValue","isFinite","validateExpression","expressionContext","expressionObj","propertyKey","validateBoolean","validateColor","validateEnum","validateFilter","validateNonExpressionFilter","filter\_operator","geometry\_type","validateProperty","layerSpec","layerType","transitionMatch","tokenMatch","validatePaintProperty","validateLayoutProperty","validateLayer","otherLayer","sourceType","lineMetrics","validateString","promoteId","validatePromoteId","validateSource



AAC;EACjB,EAAE,SAAS;EACX,IAAI,MAAM,KAAK,EAAE;EACjB,QAAQ,QAAQ;EACbB,QAAQ,OAAO,C  
AAC,SAAS,KAAK,SAAS;EACvC,QAAQ,EAAE;EACV,QAAQ,OAAO,CAAC,SAAS,CAAC;EAC1B,EAAE,QA  
AQ,GAAG,OAAO,CAAC,QAAQ,CAAC;AAC9B;EACA,EAAE,OAAO,CAAC,SAAS,UAAU,CAAC,GAAG,EA  
AE,aAAa,EAAE,QAAQ,EAAE;EAC5D;EACA,IAAI,IAAI,GAAG,EAAE,KAAK,EAAE,KAAK,EAAE,GAAG,E  
AAE,OAAO,EAAE,IAAI,EAAE,MAAM,EAAE,UAAU,EAAE,UAAU,EAAE,KAAK,EAAE,MAAM,EAAE,KAA  
K,CAAC;AACpG;EACA,IAAI,IAAI,GAAG,IAAI,OAAO,GAAG,CAAC,MAAM,KAAK,UAAU,EAAE;EACjD,  
MAAM,GAAG,GAAG,GAAG,CAAC,MAAM,EAAE,CAAC;EACzB,KAAK;AACL;EACA,IAAI,MAAM,GAAG  
,IAAI,CAAC,SAAS,CAAC,GAAG,EAAE,QAAQ,CAAC,CAAC;AAC3C;EACA,IAAI,IAAI,MAAM,KAAK,SAA  
S,EAAE;EAC9B,MAAM,OAAO,MAAM,CAAC;EACpB,KAAK;AACL;EACA,IAAI,MAAM,GAAG,SAAS,GA  
AG,aAAa,CAAC,MAAM,GAAG,QAAQ,CAAC;AACzD;EACA,IAAI,IAAI,MAAM,CAAC,MAAM,IAAI,MAA  
M,EAAE;EACjC,MAAM,UAAU,GAAG,MAAM,CAAC,OAAO,CAAC,YAAY,EAAE,SAAS,KAAK,EAAE,aAA  
a,EAAE;EAC/E,QAAQ,OAAO,aAAa,IAAI,KAAK,GAAG,GAAG,CAAC;EAC5C,OAAO,CAAC,CAAC;EACT,  
MAAM,IAAI,UAAU,CAAC,MAAM,IAAI,MAAM,EAAE;EACvC,QAAQ,OAAO,UAAU,CAAC;EAC1B,OAAO;  
EACP,KAAK;AACL;EACA,IAAI,IAAI,QAAQ,IAAI,IAAI,EAAE;EAC1B,MAAM,GAAG,GAAG,IAAI,CAAC,K  
AAK,CAAC,MAAM,CAAC,CAAC;EAC/B,MAAM,QAAQ,GAAG,SAAS,CAAC;EAC3B,KAAK;AACL;EACA,I  
AAI,IAAI,OAAO,GAAG,KAAK,QAAQ,IAAI,GAAG,KAAK,IAAI,EAAE;EACjD,MAAM,UAAU,GAAG,aAAa,  
GAAG,MAAM,CAAC;EAC1C,MAAM,KAAK,GAAG,EAAE,CAAC;EACjB,MAAM,KAAK,GAAG,CAAC,CA  
AC;AACbB;EACA,MAAM,IAAI,KAAK,CAAC,OAAO,CAAC,GAAG,CAAC,EAAE;EAC9B,QAAQ,KAAK,GA  
AG,GAAG,CAAC;EACpB,QAAQ,GAAG,GAAG,GAAG,CAAC;EACIB,QAAQ,MAAM,GAAG,GAAG,CAAC,  
MAAM,CAAC;EAC5B,QAAQ,OAAO,KAAK,GAAG,MAAM,EAAE,KAAK,EAAE,EAAE;EACxC,UAAU,KAA  
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M; EACT, IAAI, MAAM, CAAC, QAAQ, GAAG, OAAO, CAAC, IAAI, CAAC, GAAG, CAAC, CAAC; EACxC, GAAG;  
AACH; EACA; EACA, EAAE, IAAI, CAAC, IAAI, CAAC, MAAM, CAAC, MAAM, CAAC, QAAQ, CAAC, IAAI, CAA

C,IAAI,CAAC,MAAM,CAAC,MAAM,CAAC,MAAM,CAAC,MAAM,CAAC,EAAE;EACpE,IAAI,MAAM,CAAC,IAAI,GAAG,CAAC,MAAM,CAAC,QAAQ,GAAG,MAAM,CAAC,QAAQ,GAAG,EAAE;EACzD,mBAAM,MAAM,CAAC,MAAM,GAAG,MAAM,CAAC,MAAM,GAAG,EAAE,CAAC,CAAC;EACvD,GAAG;EACH,EAAE,MAAM,CAAC,IAAI,GAAG,QAAQ,CAAC,IAAI,IAAI,MAAM,CAAC,IAAI,CAAC;EAC7C,EAAE,MAAM,CAAC,OAAO,GAAG,MAAM,CAAC,OAAO,IAAI,QAAQ,CAAC,OAAO,CAAC;EACtD,EAAE,MAAM,CAAC,IAAI,GAAG,MAAM,CAAC,MAAM,EAAE,CAAC;EACcC,EAAE,OAAO,MAAM,CAAC;EACbB,CAAC,CAAC;AACF;EACA,GAAG,CAAC,SAAS,CAAC,SAAS,GAAG,WAAW;EACrC,EAAE,IAAI,IAAI,GAAG,IAAI,CAAC,IAAI,CAAC;EACvB,EAAE,IAAI,IAAI,GAAG,WAAW,CAAC,IAAI,CAAC,IAAI,CAAC,CAAC;EACpC,EAAE,IAAI,IAAI,EAAE;EACZ,IAAI,IAAI,GAAG,IAAI,CAAC,CAAC,CAAC,CAAC;EACnB,IAAI,IAAI,IAAI,KAAK,GAAG,EAAE;EACtB,MAAM,IAAI,CAAC,IAAI,GAAG,IAAI,CAAC,MAAM,CAAC,CAAC,CAAC,CAAC;EACjC,KAAK;EACL,IAAI,IAAI,GAAG,IAAI,CAAC,MAAM,CAAC,CAAC,EAAE,IAAI,CAAC,MAAM,GAAG,IAAI,CAAC,MAAM,CAAC,CAAC;EACrD,GAAG;EACH,EAAE,IAAI,IAAI,IAAE,IAAI,CAAC,QAAQ,GAAG,IAAI,GAAG;EACjC,CAAC;;;;;;;EC/sBD,SAASC,oBAAT,CAA8BC,YAA9B,EAAwE;EAAA,IACpE,KAAK,IAAIC,CAAA,GAAL,CAARD,EAAWC,CAAA,GAAIC,EAAA,CAAUC,MAAV,CAAiBC,MAArC,EAA6CH,CAAA,EAA7C,EAAKD;EAAA,QAC9C,SAAWIB,GAAX,IAAkBmB,EAAA,CAAUA,EAAA,CAAUC,MAAV,CAAiBF,CAAjB,CAAV,CAAIB,EAAKD;EAAA,YAC9C,IAAIIB,GAAA,KAAQgB,YAAZ;kBAA0B,OAAQG,EAAA,CAAUA,EAAA,CAAUC,MAAV,CAAiBF,CAAjB,CAAV,EAA+BIB,GAA/B,CAAR:eADoB;EAAA,SADJ;EAAA,KADkB;EAAA,IAMpE,KAAKiB,IAAIC,GAAAA,GAAI,CAARD,EAAWC,GAAAA,GAAIC,EAAA,CAAUG,KAAV,CAAgBD,MAApC,EAA4CH,GAAAA,EAA5C,EAAiD;EAAA,QAC7C,SAAWIB,KAAK,IAAkBmB,EAAA,CAAUA,EAAA,CAAUG,KAAV,CAAgBJ,GAAhB,CAAV,CAAIB,EAAiD;EAAA,YAC7C,IAAIIB,KAAAA,KAAQgB,YAAZ;kBAA0B,OAAQG,EAAA,CAAUA,EAAA,CAAUG,KAAV,CAAgBJ,GAAhB,CAAV,EAA8BIB,KAA9B,CAAR:eADmB;EAAA,SADJ;EAAA,KANmB;EAAA,IAYpE,OAAQ,IAAR,CAZoE;EAAA,CAZxE;AA2BA,EAAO,SAASuB,UAAAT,CAAoBpB,KAApB,EAA+CqB,QAA/C,EAA2F;EAAA,IAC9F,SAAWC,CAAX,IAAgBtB,KAAA,CAAMuB,OAAtB,EAA+B;EAAA,QAC3BF,QAAA,CAASrB,KAAA,CAAMuB,OAAN,CAAcD,CAAd,CAAT,EAD2B;EAAA,KAD+D;EAAA,CA3BIG;AAiCA,EAAO,SAASE,SAAT,CAAmBxB,KAAAnB,EAA8CqB,QAA9C,EAAyF;EAAA,IAC5F,uBAAoBrB,KAAA,CAAMG,uBAA1B,QAAA,EAAkC;EAAA,QAA7BR,IAAMU,KAAA,UAAANV,CAA6B;EAAA,QAC9B0B,QAAA,CAAShB,KAAT,EAD8B;EAAA,KAD0D;EAAA,CAjChG;AA+CA,EAAO,SAASoB,YAAT,CACHzB,KADG,EAEH0B,OAFG,EAGHL,QAHG,EAIL;EAAA,IACE,SAASM,KAAT,CAAetB,KAAf,EAAsBuB,YAAtB,EAAwD;EAAA,QACpDjC,IAAMkC,UAAA,GAACxB,KAAA,CAAMuB,YAAN,CAApBjC,CADoD;EAAA,QAEPd,IAAI,CAACKC,UAAAL;cAAiB;WAFmC;EAAA,QAGpDC,MAAA,CAAOC,IAAP,CAAYF,UAAZ,EAAwBG,OAAxB,WAAiCnC,KAAQ;EAAA,YACrCwB,QAAA,CAAS;EAAA,gBACLY,IAAA,EAAM;EAAA,oBAAC5B,KAAA,CAAM6B,EAAP;EAAA,oBAAWN,YAAX;EAAA,oBAAYB/B,GAAzB;EAAA,iBADD;EAAA,qBAELA,GAFK;EAAA,gBAGLsC,KAAA,EAAON,UAAA,CAAWHC,GAAX,CAHF;EAAA,gBAILH,SAAA,EAAWkB,oBAAA,CAAqBf,GAArB,CAJN;EAAA,gBAKLuC,GAAA,eAAIC,GAAG;EAAA,oBACHR,UAAA,CAAWHC,GAAX,IAAkBwC,CAAIB,CADG;EAAA,iBALF;EAAA,aAAT,EADqC;EAAA,SAAzC,EAHoD;EAAA,KAD1D;EAAA,IAiBEb,SAAA,CAAUXB,KAAV,YAAkBK,OAAU;EAAA,QACxB,IAAIqB,OAAA,CAAQP,KAAZ,EAAmB;EAAA,YACfQ,KAAA,CAAMtB,KAAAN,EAAa,OAAb,EADe;EAAA,SADK;EAAA,QAIxB,IAAIqB,OAAA,CAAQT,MAAZ,EAAoB;EAAA,YACHBU,KAAA,CAAMtB,KAAAN,EAAa,QAAb,EADgB;EAAA,SAJl;EAAA,KAA5B,EAjBF;EAAA;;EC/CF,SAASiC,UAAAT,CAAoBjC,KAApB,EAA2BgB,QAA3B,EAAqC;EAAA,IACjC,SAAWC,CAAX,IAAgBjB,KAAhB,EAAuB;EAAA,QACnB,IAAIiB,CAAA,CAAeiB,OAAF,CAAU,QAAV,MAAwB,CAA5B,EAA+B;EAAA,YAC3BIB,QAAA,CAAShB,KAAA,CAAMiB,CAAN,CAAT,EAAmBA,CAAnB,EAD2B;EAAA,SADZ;EAAA,KADU;EAAA,CAJrC;EAYA,SAASKB,SAAT,CAAmBnC,KAAAnB,EAA0BgB,QAA1B,EAAoC;EAAA,IACHc,SAAWC,CAAX,IAAgBjB,KAAhB,EAAuB;EAAA,QACnB,IAAIiB,CAAA,CAAeiB,OAAF,CAAU,OAAV,MAAU,CAA3B,EAA8B;EAAA,YAC1BIB,QAAA,CAAShB,KAAA,CAAMiB,CAAN,CAAT,EAAmBA,CAAnB,EAD0B;EAAA,SADX;EAAA,KADS;EAAA,CAZpC;EAoBA,SAASmB,eAAT,CAAYBzC,KAAzB,EAAgCmC,KAAhC,EAAuC;EAAA,IACnC,IAAI,OAAOA,KAAP,KAAiB,QAAjB,IAA6BA,KAAA,CAAM,CAAN,MAAA,GAA9C,EAAmD;EAAA,QAC/C,OAAOM,eAAA,CAAgBzC,KAAhB,EAAuBA,KAAA,CAAM0C,SAAN,CAAgBP,KAAhB,CAAvB,CAAP,CAD+C;EAAA,KAAAnD,MAEO;EAAA,QACH,OAAOA,KAAP,

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ArC3B,CADiB;EAAA,YAEjBsP,MAAA,CAA0/E,IAAP,CAAY,IAAI6hB,eAAJ,CAAoBIC,IAApB,EAA0BpqB,G  
AAA,CAAi6B,CAAJ,CAA1B,6BAA2DA,OAA3D,CAAZ,EAFiB;EAAA,SADK;EAAA,KAA9B,EAH8F;EAAA,I

AS9F,OAAO2N,MAAP,CAT8F;EAAA,CAxBIG;EAoCA,SAAS4jB,eAAT,CAAyB1vB,MAAzB,EAAyCpC,CAAzC,EAA6E;EAAA,IACzEpB,IAAMsP,MAAA,GAAS,EAAfP,CADyE;EAAA,IAOzEA,IAAMmzB,UAAA,GAAa;EAAA,QAAC,MAAD;EAAA,QAAS,KAAT;EAAA,QAAGB,UAAhB;EAAA,KAAAnBnzB,CAPyE;EAAA,IAQzEsP,MAAA,CAAO/E,IAAP,MAAA,OAAA,EAAewoB,mBAAA,CAAoBvvB,MAApB,EAA4B2vB,UAA5B,EAAwC,QAAXC,CAAf,EARyE;EAAA,IAgBzEnzB,IAAMozB,gBAAA,GAAmB,sBAAzBpzB,CAhByE;EAAA,IAiBzE,IAAI,CAAC4yB,OAAA,CAAQpvB,MAAA,CAAOE,GAAf,EAAoB0vB,gBAApB,CAAL,EAA4C;EAAA,QACxC9jB,MAAA,CAAO/E,IAAP,CAAY,IAAI6hB,eAAJ,cAA+BhrB,OAA/B,EAAqCoC,MAAA,CAAOE,GAA5C,EAAiD,+CAAjD,CAAZ,EADwC;EAAA,KAjB6B;EAAA,IAqBzE,OAAO4L,MAAP,CARByE;EAAA,CAPC7E;EA4DA,SAAS+jB,gBAAT,CAA0BzxB,OAA1B,EAAoE;EAAA,IAChE5B,IAAMsP,MAAA,GAAS,EAAfP,CADgE;EAAA,IAEhEmB,IAAImyB,KAAA,GAAQ,CAAZnyB,CAFgE;EAAA,IAIhEgB,MAAA,CAAOC,IAAP,CAAYR,OAAZ,EAAqBS,OAArB,WAA8B0C,GAAW3D,GAAc;EAAA,QACnDpB,IAAMuzB,YAAA,GAAeL,eAAA,CAAGbtXB,OAAA,CAAQmD,CAAR,CAAhB,EAA4B3D,CAA5B,CAARpB,CADmD;EAAA,QAIInD,IAAI,CAACuzB,YAAA,CAAahyB,MAAIB,EAA0B;EAAA,YACTb+xB,KAAA,GAAQA,KAAA,GAAQR,cAAA,CAAelxB,OAAA,CAAQmD,CAAR,CAAf,CAAhB,CADsB;EAAA,SAJyB;EAAA,QAQnDuK,MAAA,CAAO/E,IAAP,MAAA,OAAA,EAAegpB,YAAf,EARmD;EAAA,KAAvD,EAJgE;EAAA,IAehE,IAAID,KAAA,GAAQX,oBAAZ,EAAkC;EAAA,QAC9BrjB,MAAA,CAAO/E,IAAP,CAAY,IAAI6hB,eAAJ,CAAoB,SAApB,EAA+B,IAA/B,2BAA4DuG,0CAA5D,CAAZ,EAD8B;EAAA,KAf8B;EAAA,IAmBhE,OAAOrjB,MAAP,CANBgE;EAAA,CA5DpE;EAkFA,SAASkkB,aAAT,CAAuBnzB,KAAvB,EAAAsCozB,QAATc,EAAqF;EAAA,IACjFzzB,IAAMsP,MAAA,GAAS,EAAfP,CADiF;EAAA,IAWjFA,IAAM0zB,sBAAA,GAAyB;EAAA,QAC3B,OAD2B;EAAA,QAE3B,IAF2B;EAAA,QAG3B,cAH2B;EAAA,QAI3B,OAJ2B;EAAA,QAK3B,SAL2B;EAAA,QAM3B,UAN2B;EAAA,QA03B,YAP2B;EAAA,KAA/B1zB,CAXiF;EAAA,IAqBjFA,IAAM2zB,gBAAA,GAAmBZ,mBAAA,CAAoB1yB,KAApB,EAA+BozB,QA AA,OAAA,CAAaC,sBAAAb,CAA/B,CAAzB1zB,CARBiF;EAAA,IAsBjFsP,MAAA,CAAO/E,IAAP,MAAA,OAAA,EAAeopB,gBAAf,EAATBiF;EAAA,IAwBjF,IAAItzB,KAAA,CAAMkD,OAAN,GAAgBmvB,sBAAhB,IAA0CryB,KAAA,CAAMkD,OAAN,GAAgBmvB,sBAA9D,EAAf;EAAA,QACIFpjB,MAAA,CAAO/E,IAAP,CAAY,IAAI6hB,eAAJ,CAAoB,SAApB,EAA+B/rB,KAAA,CAAMkD,OAARc,6BAAuEmvB,sBAAvE,CAAZ,EADkF;EAAA,KAxBL;EAAA,IAiCjF1yB,IAAM4zB,eAAA,GAAkB,uDAAXB5zB,CAjCiF;EAAA,IAkCjF,IAAI,CAAC4yB,OAAA,CAAQvyB,KAAA,CAAMqE,MAAd,EAAsBkvB,eAATB,CAAL,EAA6C;EAAA,QACzCtkB,MAAA,CAAO/E,IAAP,CAAY,IAAI6hB,eAAJ,CAAoB,QAAPB,EAA8B/rB,KAAA,CAAMqE,MAAPc,EAA4C,+CAA5C,CAAZ,EADyC;EAAA,KAICoC;EAAA,IA4CjF1E,IAAM6zB,gBAAA,GAAmB,mDAAzB7zB,CA5CiF;EAAA,IA6CjF,IAAI,CAAC4yB,OAAA,CAAQvyB,KAAA,CAAM0rB,MAAd,EAAsB8H,gBAATB,CAAL,EAA8C;EAAA,QAC1CvkB,MAAA,CAAO/E,IAAP,CAAY,IAAI6hB,eAAJ,CAAoB,QAAPB,EAA8B/rB,KAAA,CAAM0rB,MAAPc,EAA4C,gDAA5C,CAAZ,EAD0C;EAAA,KA7CmC;EAAA,IASDjF/rB,IAAM8zB,iBAAA,GAAoB,oBAA1B9zB,CATDiF;EAAA,IAuDjF,IAAI,CAAC4yB,OAAA,CAAQvyB,KAAA,CAAM0zB,UAAAd,EAA0BD,iBAA1B,CAAL,EAAmD;EAAA,QAC/CxkB,MAAA,CAAO/E,IAAP,CAAY,IAAI6hB,eAAJ,CAAoB,YAAPB,EAAkC/rB,KAAA,CAAM0zB,UAAxC,EAAoD,4CAApD,CAAZ,EAD+C;EAAA,KAvD8B;EAAA,IA2DjF,OAAOzkB,MAAP,CA3DiF;EAAA,CAIFrF;AA0JA,EAAe,SAAS0kB,0BAAT,CAAoC3zB,KAApC,EAA4E;EAAA,IACvFc,IAAI4D,CAAA,GAAIIE,KAAARc,CADuF;EAAA,IAEvF,IAAI;EAAA,QACA4D,CAAA,GAAIstB,SAAA,CAAUttB,CAAV,CAAJ,CADA;EAAA,KAAJ,CAEE,OAAOmQ,CAAP,EAAU;EAAA,QACR,OAAO,CAACA,CAAD,CAAP,CADQ;EAAA,KAJ2E;EAAA,IAQvF/T,IAAIImO,MAAA,GAASkjB,gBAAA,CAAchtB,CAAd,EAAiB0tB,EAAjB,EACRptB,MAADQ,CACDmuB,aAAA,CAAczuB,CAAd,EAAiB5C,MAAA,CAAOC,IAAP,CAAYqwB,EAAA,CAAGlyB,KAAf,CAAjB,CADC,CAABy,CARuF;EAAA,IAWvF,IAAI4D,CAAA,CAAEnD,OAAN,EAAe;EAAA,QACX0N,MAAA,GAASA,MAAA,CAAojK,MAAP,CAAcuB,gBAAA,CAAiBtuB,CAAA,CAAEnD,OAANB,CAAd,CAAT,CAADW;EAAA,KAXwE;EAAA,IAevF,OAAO0N,MAAP,CAfuF;EAAA;MCxErFvJ,YAAA,GAAa;EAAA,qBACf4c,eADe;EAAA,kBAEfS,YAFe;EAAA,wBAGf6C,kBAHe;EAAA,sBAIf5C,gBAJe;EAAA,8BAKfO,wBALe;EAAA,iCAMfS,2BANe;EAAA,4BAOfb,sBAPe;EAAA,6BAQfG,uBARE;EAAA,2BASfK,qBATE;EAAA,CAAnBhkB,CAIFA;AA8FAA,MAAMi0B,aAAA,GAAgB;EAAA,qBAClBpP,eADkB;EAAA,oBAElBnE,cAFkB;EAAA,gBAGIB1d,YAHkB;EAAA,CAAtBhD,CA9FA;AAoGAA,MAAMk0B,KAAA,GAAQ;EAAA,gBAACzyB,UAAD;EAAA,eAAaI,SAAb;EAAA,kBAAwBC,YAAxB;EAAA,CAAd9B,CAPGA;AAsGA,AAoBA6tB,eAAA,CAAS3hB,MAAT,GA

AkB2hB,aAA1B,CA1HA;AA2HAA,eAAA,CAASsG,MAAT,GAAkBtG,aAA1B;,,,,,,,,,,,,,,,,,,,,,,,,,,,,," }

Found

in path(s):

\* /opt/cola/permits/1096023214\_1601640940.37/0/mapbox-mapbox-gl-style-spec-13-16-0-tgz/package/dist/index.js.map

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\*

\* Ported from Webkit

\* <http://svn.webkit.org/repository/webkit/trunk/Source/WebCore/platform/graphics/UnitBezier.h>

\*/

Found in path(s):

\* /opt/cola/permits/1096023214\_1601640940.37/0/mapbox-mapbox-gl-style-spec-13-16-0-tgz/package/dist/index.js

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 *
 * Ported from Webkit
 * http://svn.webkit.org/repository/webkit/trunk/Source/WebCore/platform/graphics/UnitBezier.h
 */
```

Found in path(s):

```
* /opt/cola/permits/1096023214_1601640940.37/0/mapbox-mapbox-gl-style-spec-13-16-0-
tgz/package/dist/index.es.js
```

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```
{"version":3,"file":"index.es.js","sources":["../../node_modules/json-stringify-pretty-compact/index.js","../format.js","../../node_modules/url/node_modules/punycode/punycode.js","../../node_modules/url/util.js","../../node_modules/querystring/decode.js","../../node_modules/querystring/encode.js","../../node_modules/querystring/index.js","../../node_modules/url/url.js","../visit.js","../migrate/v8.js","../util/extend.js","../expression/parsing_error.js","../expression/scope.js","../expression/types.js","../../node_modules/csscolorparser/csscol
```

orparser.js", "../util/color.js", "../expression/types/collator.js", "../expression/types/formatted.js", "../expression/types/resolved\_image.js", "../expression/values.js", "../expression/definitions/literal.js", "../expression/runtime\_error.js", "../expression/definitions/assertion.js", "../expression/definitions/format.js", "../expression/definitions/image.js", "../expression/definitions/coercion.js", "../expression/evaluation\_context.js", "../expression/compound\_expression.js", "../expression/definitions/collator.js", "../expression/definitions/within.js", "../expression/is\_constant.js", "../expression/definitions/var.js", "../expression/parsing\_context.js", "../expression/stops.js", "../expression/definitions/step.js", "../node\_modules/@mapbox/unitbezier/index.js", "../util/interpolate.js", "../util/color\_spaces.js", "../expression/definitions/interpolate.js", "../expression/definitions/coalesce.js", "../expression/definitions/let.js", "../expression/definitions/at.js", "../expression/definitions/in.js", "../expression/definitions/index\_of.js", "../expression/definitions/match.js", "../expression/definitions/case.js", "../expression/definitions/slice.js", "../expression/definitions/comparison.js", "../expression/definitions/number\_format.js", "../expression/definitions/length.js", "../expression/definitions/index.js", "../util/result.js", "../util/properties.js", "../util/get\_type.js", "../function/index.js", "../expression/index.js", "../function/convert.js", "../feature\_filter/index.js", "../feature\_filter/convert.js", "../migrate/expressions.js", "../migrate.js", "../composite.js", "../util/ref\_properties.js", "../deref.js", "../util/deep\_equal.js", "../diff.js", "../error/validation\_error.js", "../error/parsing\_error.js", "../validate/validate\_constants.js", "../util/unbundle\_jsonlint.js", "../validate/validate\_object.js", "../validate/validate\_array.js", "../validate/validate\_number.js", "../validate/validate\_function.js", "../validate/validate\_expression.js", "../validate/validate\_boolean.js", "../validate/validate\_color.js", "../validate/validate\_enum.js", "../validate/validate\_filter.js", "../validate/validate\_property.js", "../validate/validate\_paint\_property.js", "../validate/validate\_layout\_property.js", "../validate/validate\_layer.js", "../validate/validate\_string.js", "../validate/validate\_source.js", "../validate/validate\_light.js", "../validate/validate\_formatted.js", "../validate/validate\_image.js", "../validate/validate.js", "../validate/validate\_glyphs\_url.js", "../validate/validate\_style.min.js", "../node\_modules/@mapbox/jsonlint-line-primitives/lib/jsonlint.js", "../read\_style.js", "../validate\_style.js", "../validate\_mapbox\_api\_supported.js", "../style-spec.js"], "sourcesContent": ["use

```

strict`;
\n\n// Note: This regex matches even invalid JSON strings, but since we're working on the output of `JSON.stringify` we know that only valid strings are present (unless the user supplied a weird `options.indent` but in that case we don't care since the output would be invalid anyway).
\nvar stringOrChar =
/(\\"(?:^\\\\\\\\|\\\\\\\\)*\\")[:;g;
\nmodule.exports = function stringify(passedObj, options) {
\n  var indent, maxLength,
  replacer;
\n  options = options || {};
\n  indent = JSON.stringify(\n [1],\n undefined,\n options.indent ===
undefined ? 2 : options.indent\n ).slice(2, -3);
\n  maxLength = \n  indent === \"\n  ? Infinity\n  : options.maxLength === undefined\n  ? 80\n  : options.maxLength;
\n  replacer = options.replacer;
\n  return (function _stringify(obj, currentIndent, reserved) {
\n    // prettier-ignore
\n    var end, index, items, key,
    keyPart, keys, length, nextIndent, prettified, start, string, value;
\n    if (obj && typeof obj.toJSON ===
\"function\") {
\n      obj = obj.toJSON();
\n    }
\n    string = JSON.stringify(obj, replacer);
\n    if (string ===
undefined) {
\n      return string;
\n    }
\n    length = maxLength - currentIndent.length - reserved;
\n    if
(string.length <= length) {
\n      prettified = string.replace(stringOrChar, function(match, stringLiteral) {
\n        return stringLiteral || match + \" \";
\n      });
\n      if (prettified.length <= length) {
\n        return prettified;
\n      }
\n    }
\n    if (replacer != null) {
\n      obj = JSON.parse(string);
\n      replacer = undefined;
\n    }
\n    if (typeof obj
=== \"object\" && obj != null) {
\n      nextIndent
= currentIndent + indent;
\n      items = [];
\n      index = 0;
\n      if (Array.isArray(obj)) {
\n        start = \"[\";
\n        end = \"]\";
\n        length = obj.length;
\n        for (; index < length; index++) {
\n          items.push(\n
_stringify(obj[index], nextIndent, index === length - 1 ? 0 : 1) ||\n
          \"null\"
\n        );
\n      }
\n    } else {
\n      start = \"{\";
\n      end = \"}\";
\n      keys = Object.keys(obj);
\n      length = keys.length;
\n      for (; index <
length; index++) {
\n        key = keys[index];
\n        keyPart = JSON.stringify(key) + \": \";
\n        value =
_stringify(\n
obj[key],\n
nextIndent,\n
keyPart.length + (index === length - 1 ? 0 : 1)\n
);
\n        if (value != undefined) {
\n          items.push(keyPart + value);
\n        }
\n      }
\n    }
\n    if
(items.length > 0) {
\n      return [start, indent + items.join(\",\n\" + nextIndent), end].join(\n
\n      \"\n\" + currentIndent
\n    );
\n    }
\n    return string;
\n  })(passedObj, \"\", 0);
\n}
\nimport
reference from './reference/latest.js';
\nimport stringifyPretty from 'json-stringify-pretty-compact';
\nfunction

```

```

sortKeysBy(obj, reference) {\n  const result = {};\n  for (const key in reference) {\n    if (obj[key] !==
undefined) {\n      result[key] = obj[key];\n    }\n  }\n  for (const key in obj) {\n    if (result[key] ===
undefined) {\n      result[key] = obj[key];\n    }\n  }\n  return result;\n}\n\n/*\n * Format a Mapbox GL
Style. Returns a stringified style with its keys\n * sorted in the same order as the reference style.\n * The
optional `space` argument is passed to\n * [JSON.stringify](https://developer.mozilla.org/en-
US/docs/Web/JavaScript/Reference/Global_Objects/JSON/stringify)\n * to generate formatted output.\n *\n * If
`space` is unspecified, a default of `2` spaces will be used.\n *\n * @private\n
 * @param {Object} style a Mapbox GL Style\n * @param {number} [space] space argument to pass to
JSON.stringify\n * @returns {string} stringified formatted JSON\n * @example\n * var fs = require('fs');\n * var
format = require('mapbox-gl-style-spec').format;\n * var style = fs.readFileSync('./source.json', 'utf8');\n *
fs.writeFileSync('./dest.json', format(style));\n * fs.writeFileSync('./dest.min.json', format(style, 0));\n */\nfunction
format(style, space = 2) {\n  style = sortKeysBy(style, reference.$root);\n\n  if (style.layers) {\n    style.layers =
style.layers.map((layer) => sortKeysBy(layer, reference.layer));\n  }\n\n  return stringifyPretty(style, {indent:
space});\n}\n\nexport default format;\n", "/*! https://mths.be/punycodes v1.3.2 by @mathias */\n;(function(root)
{\n\n  /** Detect free variables */\n  var freeExports = typeof exports == 'object' && exports
&&\n  exports.nodeType && exports;\n  var freeModule = typeof module == 'object' && module
&&\n  module.nodeType
&& module;\n  var freeGlobal = typeof global == 'object' && global;\n  if (!\n  freeGlobal.global === freeGlobal
||\n  freeGlobal.window === freeGlobal ||\n  freeGlobal.self === freeGlobal)\n  {\n    root =
freeGlobal;\n  }\n\n  /**\n   * The `punycode` object.\n   * @name punycode\n   * @type Object\n   */\n  var
punycode;\n\n  /** Highest positive signed 32-bit float value */\n  var maxInt = 2147483647, // aka. 0x7FFFFFFF or
2^31-1\n\n  /** Bootstring parameters */\n  var base = 36,\n      tMin = 1,\n      tMax = 26,\n      tSkew = 38,\n      tDamp =
700,\n      tInitialBias = 72,\n      tInitialN = 128, // 0x80\n      tDelimiter = '-', // '\x2D'\n\n  /** Regular expressions
*/\n  var regexPunycode = /^xn--/, \n      regexNonASCII = /[^\x20-\x7E]/, // unprintable ASCII chars + non-ASCII
chars\n  var regexSeparators = /[\x2E\u3002\uFF0E\uFF61]/g, // RFC 3490 separators\n\n  /** Error messages
*/\n  var errors = {\n    overflow: 'Overflow: input needs wider integers to process',\n    not-basic: 'Illegal
input >= 0x80 (not a basic code point)',\n    invalid-input: 'Invalid input'\n  },\n\n  /** Convenience shortcuts
*/\n  var baseMinusTMin = base - tMin,\n      floor = Math.floor,\n      tStringFromCharCode = String.fromCharCode,\n\n  /**
Temporary variable */\n  var tkey;\n\n  /**-----*\n   * A
generic error utility function.\n   * @private\n   * @param {String} type The error type.\n   * @returns {Error}
Throws a `RangeError` with the applicable error message.\n   */\n  function error(type) {\n    throw
RangeError(errors[type]);\n  }\n\n  /**\n   * A generic `Array#map` utility function.\n   * @private\n   * @param
{Array} array The array to iterate over.\n   * @param {Function} callback The function that gets called for every
array\n   * item.\n   * @returns {Array} A new array of values returned by the callback function.\n   */\n  function
map(array, fn) {\n    var length = array.length;\n    var result = [];\n    while
(length--)\n      result[length] = fn(array[length]);\n    return result;\n  }\n\n  /**\n   * A simple
`Array#map`-like wrapper to work with domain name strings or email\n   * addresses.\n   * @private\n   * @param
{String} domain The domain name or email address.\n   * @param {Function} callback The function that gets
called for every\n   * character.\n   * @returns {Array} A new string of characters returned by the callback\n   *
function.\n   */\n  function mapDomain(string, fn) {\n    var parts = string.split('@');\n    var result = '';\n    if
(parts.length > 1) {\n      // In email addresses, only the domain name should be punycoded. Leave\n      // the local
part (i.e. everything up to `@`) intact.\n      result = parts[0] + '@';\n      string = parts[1];\n    }\n    // Avoid
`split(regex)` for IE8 compatibility. See #17.\n    string = string.replace(regexSeparators, '\x2E');\n    var labels =
string.split('.');\n    var encoded = map(labels, fn).join('.');\n    return
result + encoded;\n  }\n\n  /**\n   * Creates an array containing the numeric code points of each Unicode\n   *
character in the string. While JavaScript uses UCS-2 internally,\n   * this function will convert a pair of surrogate
halves (each of which\n   * UCS-2 exposes as separate characters) into a single code point,\n   * matching UTF-
16.\n   * @see `punycode.ucs2.encode`\n   * @see <https://mathiasbynens.be/notes/javascript-encoding>\n   */

```



overflow checking is easier if we increase `i` as we go, then subtract off its starting value at the end to obtain `delta`.

```

for (oldi = i, w = 1, k = base; /* no condition */; k += base) {
  if (index >= inputLength)
    throw new Error('invalid-input');
  let digit = basicToDigit(input.charCodeAt(index++));
  if (digit >= base || digit > floor((maxInt - i) / w))
    throw new Error('overflow');
  i += digit * w;
  if (k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);
  if (digit < t)
    break;
  let baseMinusT = base - t;
  if (w > floor(maxInt / baseMinusT))
    throw new Error('overflow');
  let tw = baseMinusT;
  let tout = output.length + 1;
  let bias = adapt(i - oldi, out, oldi == 0);
  // `i` was supposed to wrap around from `out` to `0`,
  // incrementing `n` each time, so we'll fix that now:
  if (floor(i / out) > maxInt - n)
    throw new Error('overflow');
  let tn = floor(i / out);
  let % = out;
  // Insert `n` at position `i` of the output
  output.splice(i++, 0, n);
  return ucs2encode(output);
}

```

`* Converts a string of Unicode symbols (e.g. a domain name label) to a Punycode string of ASCII-only symbols.`

`@memberOf punycode`

`@param {String} input` The string of Unicode symbols.

`@returns {String}` The resulting Punycode string of ASCII-only symbols.

```

function encode(input) {
  let n, delta, handledCPCCount, basicLength, bias, j, m, q, k, t, currentValue, output = [], /** `inputLength` will hold the number of code points in `input`. */ inputLength, /** Cached calculation results */ handledCPCCountPlusOne, baseMinusT, qMinusT;
  // Convert the input in UCS-2 to Unicode
  let input = ucs2decode(input);
  // Cache the length
  let inputLength = input.length;
  // Initialize the state
  let tn = initialN;
  let delta = 0;
  let bias = initialBias;
  // Handle the basic code points
  for (j = 0; j < inputLength; ++j) {
    let currentValue = input[j];
    if (currentValue < 0x80)
      output.push(stringFromCharCode(currentValue));
    handledCPCCount = basicLength = output.length;
    // `handledCPCCount` is the number of code points that have been handled;
    // `basicLength` is the number of basic code points.
    // Finish the basic string - if it is not empty - with a delimiter
    if (basicLength)
      output.push(delimiter);
    // Main encoding loop:
    while (handledCPCCount < inputLength) {
      // All non-basic code points < n have been handled already. Find the next larger one:
      for (m = maxInt, j = 0; j < inputLength; ++j) {
        let currentValue = input[j];
        if (currentValue >= n && currentValue < m) {
          let tm = currentValue;
          // Increase `delta` enough to advance the decoder's <n,i> state to <m,0> but guard against overflow
          handledCPCCountPlusOne = handledCPCCount + 1;
          if (m - n > floor((maxInt - delta) / handledCPCCountPlusOne))
            throw new Error('overflow');
          delta += (m - n) * handledCPCCountPlusOne;
          let tn = m;
          for (j = 0; j < inputLength; ++j) {
            let currentValue = input[j];
            if (currentValue < n && ++delta > maxInt)
              throw new Error('overflow');
            if (currentValue == n)
              // Represent delta as a generalized variable-length integer
              for (q = delta, k = base; /* no condition */; k += base) {
                if (k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);
                if (q < t)
                  break;
                let tqMinusT = q - t;
                let baseMinusT = base - t;
                let tq = tqMinusT;
                if (q >= baseMinusT)
                  output.push(stringFromCharCode(digitToBasic(t + qMinusT % baseMinusT, 0)));
                let tq = floor(qMinusT / baseMinusT);
                output.push(stringFromCharCode(digitToBasic(q, 0)));
                let bias = adapt(delta, handledCPCCountPlusOne, handledCPCCount == basicLength);
                delta = 0;
                handledCPCCount++;
                handledCPCCount++;
                delta++;
                n++;
              }
            return output.join('');
          }
          /** Converts a Punycode string representing a domain name or an email address to Unicode. Only the Punycoded parts of the input will be converted, i.e. it doesn't matter if you call it on a string that has already been converted to Unicode.
          @memberOf punycode
          @param {String} input The Punycoded domain name or email address to convert to Unicode.
          @returns {String} The Unicode representation of the given Punycode string.
          */
          function toUnicode(input) {
            return mapDomain(input, function(string) {
              return regexPunycode.test(string) ? decode(string.slice(4).toLowerCase()) :

```



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```
function(v) {
  switch (typeof v) {
    case 'string':
      return v;
    case 'boolean':
      return v ? 'true' : 'false';
    case 'number':
      return isFinite(v) ? v : '';
    default:
      return '';
  }
}
module.exports = function(obj, sep, eq, name) {
  sep = sep || '&';
  eq = eq || '=';
  if (obj === null) {
    obj = undefined;
  }
  if (typeof obj === 'object') {
    return Object.keys(obj).map(function(k) {
      var ks = encodeURIComponent(stringifyPrimitive(k)) + eq;
      if (Array.isArray(obj[k])) {
        return obj[k].map(function(v) {
          return ks + encodeURIComponent(stringifyPrimitive(v));
        }).join(sep);
      } else {
        return ks + encodeURIComponent(stringifyPrimitive(obj[k]));
      }
    }).join(sep);
  }
  if (!name) return '';
  return encodeURIComponent(stringifyPrimitive(name)) + eq + encodeURIComponent(stringifyPrimitive(obj));
};
'use strict';
exports.decode = exports.parse = require('./decode');
exports.encode = exports.stringify
```

```
= require('./encode');
// Copyright Joyent, Inc. and other Node contributors.
// Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions: The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software. THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
```

```
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
'use strict';
var punycode = require('punycode');
var util = require('./util');
exports.parse = urlParse;
exports.resolve = urlResolve;
exports.resolveObject = urlResolveObject;
exports.format = urlFormat;
exports.Url = Url;
function Url() {
  this.protocol = null;
  this.slashes = null;
  this.auth = null;
  this.host = null;
  this.port = null;
  this.hostname = null;
  this.hash = null;
  this.search = null;
  this.query = null;
  this.pathname = null;
  this.path = null;
  this.href = null;
}
```

```
Reference: RFC 3986, RFC 1808, RFC 2396
define these here so at least they only have to be compiled once on the first module load.
var protocolPattern = /^[a-z0-9.+-:]/i,
    portPattern = /[0-9]*$/,
    // Special case for a simple path URL
    simplePathPattern
```

```
= /^(\/\?|!\/\?[\^?[\s]*)(\?[\^?[\s]*)?$/,
// RFC 2396: characters reserved for delimiting URLs.
// We actually just auto-escape these.
delims = ['<', '>', '\\', '\'', '\r', '\n', '\t'],
// RFC 2396: characters not allowed for various reasons.
unwise = ['{', '}', '|', '\\', '^', '~'].concat(delims),
// Allowed by RFCs, but cause of XSS attacks. Always escape these.
autoEscape = ['"'].concat(unwise),
// Characters that are never ever allowed in a hostname.
// Note that any invalid chars are also handled, but these are the ones that are
```

```

*expected* to be seen, so we fast-path\n // them.\n nonHostChars = ['%', '/', '?', ';', '#'].concat(autoEscape),\n
hostEndingChars = ['/', '?', '#'],\n hostnameMaxLen = 255,\n hostnamePartPattern = /^[+a-z0-9A-Z_-]{0,63}$/,\n
hostnamePartStart = /^[+a-z0-9A-Z_-]{0,63}(.*)$/,\n // protocols that can allow \"unsafe\" and \"unwise\"\n
chars.\n
unsafeProtocol = {\n 'javascript': true,\n 'javascript:': true\n },\n // protocols that never have a hostname.\n
hostlessProtocol = {\n 'javascript': true,\n 'javascript:': true\n },\n // protocols that always contain a // bit.\n
slashedProtocol = {\n 'http': true,\n 'https': true,\n 'ftp': true,\n 'gopher': true,\n 'file': true,\n 'http:':\n
true,\n 'https:': true,\n 'ftp:': true,\n 'gopher:': true,\n 'file:': true\n },\n querystring =\n
require('querystring');\n\nfunction urlParse(url, parseQueryString, slashesDenoteHost) {\n if (url &&\n
util.isObject(url) && url instanceof Url) return url;\n\n var u = new Url;\n u.parse(url, parseQueryString,\n
slashesDenoteHost);\n return u;\n}\n\nUrl.prototype.parse = function(url, parseQueryString, slashesDenoteHost)\n
{\n if (!util.isString(url)) {\n throw new TypeError(\"Parameter 'url' must be a string, not \" + typeof url);\n }\n\n
// Copy chrome, IE,\n
opera backslash-handling behavior.\n // Back slashes before the query string get converted to forward slashes\n //\n
See: https://code.google.com/p/chromium/issues/detail?id=25916\n var queryIndex = url.indexOf('?'),\n splitter\n
= \n (queryIndex !== -1 && queryIndex < url.indexOf('#')) ? '?' : '#',\n uSplit = url.split(splitter),\n
slashRegex = /^\\/g;\n uSplit[0] = uSplit[0].replace(slashRegex, '/');\n url = uSplit.join(splitter);\n\n var rest =\n
url;\n // trim before proceeding.\n // This is to support parse stuff like \" http://foo.com \\n\"\n rest =\n
rest.trim();\n\n if (!slashesDenoteHost && url.split('#').length === 1) {\n // Try fast path regexp\n var\n
simplePath = simplePathPattern.exec(rest);\n if (simplePath) {\n this.path = rest;\n this.href = rest;\n\n
this.pathname = simplePath[1];\n if (simplePath[2]) {\n this.search = simplePath[2];\n if\n
(parseQueryString) {\n this.query = querystring.parse(this.search.substr(1));\n\n
} else {\n this.query = this.search.substr(1);\n } } else if (parseQueryString) {\n this.search\n
= \";\n this.query = {};\n } } return this;\n }\n\n var proto = protocolPattern.exec(rest);\n if (proto)\n
{\n proto = proto[0];\n var lowerProto = proto.toLowerCase();\n this.protocol = lowerProto;\n rest =\n
rest.substr(proto.length);\n }\n\n // figure out if it's got a host\n // user@server is *always* interpreted as a\n
hostname, and url\n // resolution will treat //foo/bar as host=foo,path=bar because that's\n // how the browser\n
resolves relative URLs.\n if (slashesDenoteHost || proto || rest.match(/^\\/\\/[^\@\\|\\|+@[\^@\\|\\|+\/]) {\n var slashes =\n
rest.substr(0, 2) === '//';\n if (slashes && !(proto && hostlessProtocol[proto])) {\n rest = rest.substr(2);\n\n
this.slashes = true;\n } } } if (!hostlessProtocol[proto] &&\n (slashes || (proto &&\n
!slashedProtocol[proto])))\n
{\n\n // there's a hostname.\n // the first instance of /, ?, ;, or # ends the host.\n //\n // If there is an @ in the\n
hostname, then non-host chars *are* allowed\n // to the left of the last @ sign, unless some host-ending character\n
// comes *before* the @-sign.\n // URLs are obnoxious.\n //\n // ex:\n // http://a@b@c/ => user:a@b\n
host:c\n // http://a@b?@c => user:a host:c path:/?@c\n // v0.12 TODO(isaacs): This is not quite how Chrome\n
does things.\n // Review our test case against browsers more comprehensively.\n\n // find the first instance of any\n
hostEndingChars\n var hostEnd = -1;\n for (var i = 0; i < hostEndingChars.length; i++) {\n var hec =\n
rest.indexOf(hostEndingChars[i]);\n if (hec !== -1 && (hostEnd === -1 || hec < hostEnd))\n hostEnd =\n
hec;\n }\n\n // at this point, either we have an explicit point where the\n // auth portion cannot go past, or the\n
last @ char is the decider.\n var\n
auth, atSign;\n if (hostEnd === -1) {\n // atSign can be anywhere.\n atSign = rest.lastIndexOf('@');\n } else {\n\n
// atSign must be in auth portion.\n // http://a@b/c@d => host:b auth:a path:/c@d\n atSign =\n
rest.lastIndexOf('@', hostEnd);\n }\n\n // Now we have a portion which is definitely the auth.\n // Pull that\n
off.\n if (atSign !== -1) {\n auth = rest.slice(0, atSign);\n rest = rest.slice(atSign + 1);\n this.auth =\n
decodeURIComponent(auth);\n }\n\n // the host is the remaining to the left of the first non-host char\n hostEnd\n
= -1;\n for (var i = 0; i < nonHostChars.length; i++) {\n var hec = rest.indexOf(nonHostChars[i]);\n if (hec\n
!== -1 && (hostEnd === -1 || hec < hostEnd))\n hostEnd = hec;\n } } // if we still have not hit it, then the\n
entire thing is a host.\n if (hostEnd === -1)\n hostEnd = rest.length;\n\n this.host = rest.slice(0, hostEnd);\n

```

```

rest = rest.slice(hostEnd);\n\n
    // pull out port.\n    this.parseHost();\n\n    // we've indicated that there is a hostname,\n    // so even if it's empty, it
has to be present.\n    this.hostname = this.hostname || ";\n\n    // if hostname begins with [ and ends with ]\n    //
assume that it's an IPv6 address.\n    var ipv6Hostname = this.hostname[0] === '[' &&\n
this.hostname[this.hostname.length - 1] === '];\n\n    // validate a little.\n    if (!ipv6Hostname) {\n    var hostparts
= this.hostname.split(/\\./);\n    for (var i = 0, l = hostparts.length; i < l; i++) {\n    var part = hostparts[i];\n    if
(!part) continue;\n    if (!part.match(hostnamePartPattern)) {\n    var newpart = ";\n    for (var j = 0, k =
part.length; j < k; j++) {\n    if (part.charCodeAt(j) > 127) {\n    // we replace non-ASCII char with a
temporary placeholder\n    // we need this to make sure size of hostname is not\n    // broken by
replacing non-ASCII
by nothing\n    newpart += 'x';\n    } else {\n    newpart += part[j];\n    }\n    }\n    // we
test again with ASCII char only\n    if (!newpart.match(hostnamePartPattern)) {\n    var validParts =
hostparts.slice(0, i);\n    var notHost = hostparts.slice(i + 1);\n    var bit = part.match(hostnamePartStart);\n
    if (bit) {\n    validParts.push(bit[1]);\n    notHost.unshift(bit[2]);\n    }\n    if
(notHost.length) {\n    rest = '/' + notHost.join('.') + rest;\n    }\n    this.hostname =
validParts.join('.);\n    break;\n    }\n    }\n    }\n\n    if (this.hostname.length > hostnameMaxLen)
{\n    this.hostname = ";\n    } else {\n    // hostnames are always lower case.\n    this.hostname =
this.hostname.toLowerCase();\n    }\n\n    if (!ipv6Hostname) {\n    // IDNA Support: Returns a punycoded
representation
of \"domain\".\n    // It only converts parts of the domain name that\n    // have non-ASCII characters, i.e. it
doesn't matter if\n    // you call it with a domain that already is ASCII-only.\n    this.hostname =
punycode.toASCII(this.hostname);\n    }\n\n    var p = this.port ? ':' + this.port : ";\n    var h = this.hostname || ";\n
this.host = h + p;\n    this.href += this.host;\n\n    // strip [ and ] from the hostname\n    // the host field still retains
them, though\n    if (ipv6Hostname) {\n    this.hostname = this.hostname.substr(1, this.hostname.length - 2);\n    if
(rest[0] !== '/') {\n    rest = '/' + rest;\n    }\n    }\n\n    // now rest is set to the post-host stuff.\n    // chop off any
delim chars.\n    if (!unsafeProtocol[lowerProto]) {\n\n    // First, make 100% sure that any \"autoEscape\" chars get\n
// escaped, even if encodeURIComponent doesn't think they\n    // need to be.\n    for (var i = 0, l =
autoEscape.length; i < l; i++) {\n
    var ae = autoEscape[i];\n    if (rest.indexOf(ae) === -1)\n    continue;\n    var esc =
encodeURIComponent(ae);\n    if (esc === ae) {\n    esc = escape(ae);\n    }\n    rest =
rest.split(ae).join(esc);\n    }\n    }\n\n    // chop off from the tail first.\n    var hash = rest.indexOf('#');\n    if (hash !== -
1) {\n    // got a fragment string.\n    this.hash = rest.substr(hash);\n    rest = rest.slice(0, hash);\n    }\n    var qm =
rest.indexOf('?');\n    if (qm !== -1) {\n    this.search = rest.substr(qm);\n    this.query = rest.substr(qm + 1);\n    if
(parseQueryString) {\n    this.query = querystring.parse(this.query);\n    }\n    rest = rest.slice(0, qm);\n    } else if
(parseQueryString) {\n    // no query string, but parseQueryString still requested\n    this.search = ";\n    this.query =
{};\n    }\n\n    if (rest) this.pathname = rest;\n    if (slashedProtocol[lowerProto] &&\n    this.hostname &&
!this.pathname) {\n    this.pathname = '/';\n    }\n\n    //to support http.request\n
    if (this.pathname || this.search) {\n    var p = this.pathname || ";\n    var s = this.search || ";\n    this.path = p + s;\n
}\n\n    // finally, reconstruct the href based on what has been validated.\n    this.href = this.format();\n    return
this;\n};\n\n// format a parsed object into a url string\nfunction urlFormat(obj) {\n    // ensure it's an object, and not a
string url.\n    // If it's an obj, this is a no-op.\n    // this way, you can call url_format() on strings\n    // to clean up
potentially wonky urls.\n    if (util.isString(obj)) obj = urlParse(obj);\n    if (!(obj instanceof Url)) return
Url.prototype.format.call(obj);\n    return obj.format();\n}\n\nUrl.prototype.format = function() {\n    var auth =
this.auth || ";\n    if (auth) {\n    auth = encodeURIComponent(auth);\n    auth = auth.replace(/%3A/i, ':');\n    auth +=
'@';\n    }\n\n    var protocol = this.protocol || ";\n    pathname = this.pathname || ";\n    hash = this.hash || ";\n    host
= false;\n    query = ";\n\n    if (this.host) {\n    host = auth + this.host;\n    } else if (this.hostname) {\n    host = auth + (this.hostname.indexOf('.')
=== -1 ?\n    this.hostname :\n    '[' + this.hostname ? ']');\n    if (this.port) {\n    host += ':' + this.port;\n    }\n
}

```

```

}\n\n if (this.query &&\n    util.isObject(this.query) &&\n    Object.keys(this.query).length) {\n    query =
querystring.stringify(this.query);\n } \n\n var search = this.search || (query && ('?' + query)) || ""; \n\n if (protocol
&& protocol.substr(-1) !== ':') protocol += ':';\n\n // only the slashedProtocols get the //. Not mailto:, xmpp:, etc.\n
// unless they had them to begin with.\n if (this.slashes ||\n    (!protocol || slashedProtocol[protocol]) && host !==
false) {\n    host = '/' + (host || ""); \n    if (pathname && pathname.charAt(0) !== '/') pathname = '/' + pathname;\n }
else if (!host) {\n    host = "";\n } \n\n if (hash && hash.charAt(0) !== '#') hash = '#' + hash;\n if (search &&
search.charAt(0)
!== '?') search = '?' + search;\n\n pathname = pathname.replace(/[?#]/g, function(match) {\n    return
encodeURIComponent(match);\n }); \n\n search = search.replace('#', '%23');\n\n return protocol + host + pathname +
search + hash;\n};\n\nfunction urlResolve(source, relative) {\n    return urlParse(source, false,
true).resolve(relative);\n}\n\nUrl.prototype.resolve = function(relative) {\n    return
this.resolveObject(urlParse(relative, false, true)).format();\n};\n\nfunction urlResolveObject(source, relative) {\n    if
(!source) return relative;\n    return urlParse(source, false,
true).resolveObject(relative);\n}\n\nUrl.prototype.resolveObject = function(relative) {\n    if (util.isString(relative))
{\n        var rel = new Url();\n        rel.parse(relative, false, true);\n        relative = rel;\n    } \n\n    var result = new Url();\n    var
tkeys = Object.keys(this);\n    for (var tk = 0; tk < tkeys.length; tk++) {\n        var tkey = tkeys[tk];\n        result[tkey] =
this[tkey];\n    } \n\n    // hash is always overridden,
no matter what.\n    // even href="" will remove it.\n    result.hash = relative.hash;\n\n    // if the relative url is empty,
then there's nothing left to do here.\n    if (relative.href === "") {\n        result.href = result.format();\n        return result;\n
} \n\n    // hrefs like //foo/bar always cut to the protocol.\n    if (relative.slashes && !relative.protocol) {\n        // take
everything except the protocol from relative\n        var rkeys = Object.keys(relative);\n        for (var rk = 0; rk <
rkeys.length; rk++) {\n            var rkey = rkeys[rk];\n            if (rkey !== 'protocol')\n                result[rkey] = relative[rkey];\n        } \n\n        //urlParse appends trailing / to urls like http://www.example.com\n        if (slashedProtocol[result.protocol]
&&\n            result.hostname && !result.pathname) {\n            result.path = result.pathname = '/';\n        } \n\n        result.href =
result.format();\n        return result;\n    } \n\n    if (relative.protocol && relative.protocol !== result.protocol) {\n        // if it's
a known url
protocol, then changing\n        // the protocol does weird things\n        // first, if it's not file:, then we MUST have a
host,\n        // and if there was a path\n        // to begin with, then we MUST have a path.\n        // if it is file:, then the host is
dropped,\n        // because that's known to be hostless.\n        // anything else is assumed to be absolute.\n        if
(!slashedProtocol[relative.protocol]) {\n            var keys = Object.keys(relative);\n            for (var v = 0; v < keys.length;
v++) {\n                var k = keys[v];\n                result[k] = relative[k];\n            } \n            result.href = result.format();\n            return
result;\n        } \n\n        result.protocol = relative.protocol;\n        if (!relative.host && !hostlessProtocol[relative.protocol])
{\n            var relPath = (relative.pathname || "").split('/');\n            while (relPath.length && !(relative.host =
relPath.shift()));\n            if (!relative.host) relative.host = "";\n            if (!relative.hostname) relative.hostname = "";\n            if
(relPath[0] !== "") relPath.unshift("");\n            if (relPath.length < 2) relPath.unshift("");\n            result.pathname = relPath.join('/');\n        } else {\n            result.pathname = relative.pathname;\n        } \n        result.search = relative.search;\n        result.query = relative.query;\n        result.host = relative.host || "";\n        result.auth = relative.auth;\n        result.hostname = relative.hostname ||
relative.host;\n        result.port = relative.port;\n        // to support http.request\n        if (result.pathname || result.search) {\n            var p = result.pathname || "";\n            var s = result.search || "";\n            result.path = p + s;\n        } \n        result.slashes =
result.slashes || relative.slashes;\n        result.href = result.format();\n        return result;\n    } \n\n    var isSourceAbs =
(result.pathname && result.pathname.charAt(0) === '/'),\n        isRelAbs = (\n            relative.host ||\n            relative.pathname && relative.pathname.charAt(0) === '/'\n        ),\n        mustEndAbs = (isRelAbs || isSourceAbs ||\n            (result.host
&& relative.pathname)),\n        removeAllDots = mustEndAbs,\n        srcPath = result.pathname &&
result.pathname.split('/') || [],\n        relPath = relative.pathname && relative.pathname.split('/') || [],\n        psychotic =
result.protocol && !slashedProtocol[result.protocol];\n\n    // if the url is a non-slashed url, then relative\n    // links
like ../.. should be able\n    // to crawl up to the hostname, as well. This is strange.\n    // result.protocol has already

```

```

been set by now.\n // Later on, put the first path part into the host field.\n if (psychotic) {\n   result.hostname = ";\n   result.port = null;\n   if (result.host) {\n     if (srcPath[0] === "") srcPath[0] = result.host;\n     else\n     srcPath.unshift(result.host);\n   }\n   result.host = ";\n   if (relative.protocol) {\n     relative.hostname = null;\n     relative.port = null;\n     if (relative.host) {\n       if (relPath[0] === "") relPath[0] = relative.host;\n       else\n       relPath.unshift(relative.host);\n     }\n     relative.host = null;\n   }\n   mustEndAbs = mustEndAbs && (relPath[0] === "" || srcPath[0] === ");\n }\n\n if (isRelAbs) {\n   // it's absolute.\n   result.host = (relative.host || relative.host === "") ?\n   relative.host : result.host;\n   result.hostname = (relative.hostname || relative.hostname === "") ?\n   relative.hostname : result.hostname;\n   result.search = relative.search;\n   result.query = relative.query;\n   srcPath\n   = relPath;\n   // fall through to the dot-handling below.\n } else if (relPath.length) {\n   // it's relative\n   // throw\n   away the existing file, and take the new path instead.\n   if (!srcPath) srcPath = [];\n   srcPath.pop();\n   srcPath\n   = srcPath.concat(relPath);\n   result.search = relative.search;\n   result.query = relative.query;\n } else if\n   (!util.isNullOrUndefined(relative.search)) {\n   // just pull out the search.\n   // like href='?foo'.\n   // Put this after\n   the other two\n   cases because it simplifies the booleans\n   if (psychotic) {\n     result.hostname = result.host = srcPath.shift();\n   }\n   //occasionally the auth can get stuck only in host\n   //this especially happens in cases like\n   //url.resolveObject('mailto:local1@domain1', 'local2@domain2')\n   var authInHost = result.host &&\n   result.host.indexOf('@') > 0 ?\n   result.host.split('@') : false;\n   if (authInHost) {\n     result.auth =\n     authInHost.shift();\n     result.host = result.hostname = authInHost.shift();\n   }\n   result.search =\n   relative.search;\n   result.query = relative.query;\n   //to support http.request\n   if (!util.isNull(result.pathname) ||\n   !util.isNull(result.search)) {\n     result.path = (result.pathname ? result.pathname : "") +\n     (result.search ?\n     result.search : ");\n   }\n   result.href = result.format();\n   return result;\n }\n\n if (!srcPath.length) {\n   // no path\n   at all. easy.\n   //\n   we've already handled the other stuff above.\n   result.pathname = null;\n   //to support http.request\n   if\n   (result.search) {\n     result.path = '/' + result.search;\n   } else {\n     result.path = null;\n   }\n   result.href =\n   result.format();\n   return result;\n }\n\n // if a url ENDS in . or .., then it must get a trailing slash.\n // however, if\n   it ends in anything else non-slashy,\n // then it must NOT get a trailing slash.\n var last = srcPath.slice(-1)[0];\n var\n   hasTrailingSlash = (\n     (result.host || relative.host || srcPath.length > 1) &&\n     (last === '.' || last === '..') || last\n     === ");\n // strip single dots, resolve double dots to parent dir\n // if the path tries to go above the root, `up` ends\n   up > 0\n var up = 0;\n for (var i = srcPath.length; i >= 0; i--) {\n   last = srcPath[i];\n   if (last === '.') {\n     srcPath.splice(i, 1);\n   } else if (last === '..') {\n     srcPath.splice(i, 1);\n     up++;\n   } else if (up) {\n     srcPath.splice(i, 1);\n     up--;\n   }\n }\n\n // if the path is allowed to go above the root, restore leading ..\n if\n   (!mustEndAbs && !removeAllDots) {\n     for (; up-- > 0; up) {\n       srcPath.unshift('..');\n     }\n   }\n\n if (mustEndAbs\n   && srcPath[0] !== "" &&\n   (!srcPath[0] || srcPath[0].charAt(0) !== '/')) {\n     srcPath.unshift("");\n   }\n\n if (hasTrailingSlash\n   && (srcPath.join('/').substr(-1) !== '/')) {\n     srcPath.push("");\n   }\n\n var isAbsolute = srcPath[0]\n   === "" ||\n   (srcPath[0] && srcPath[0].charAt(0) === '/');\n\n // put the host back\n if (psychotic) {\n   result.hostname = result.host = isAbsolute ?\n     "" : srcPath.length ? srcPath.shift() : ";\n }\n\n //occasionally the auth can get stuck only in host\n   //this especially happens in cases like\n   //url.resolveObject('mailto:local1@domain1', 'local2@domain2')\n   var authInHost = result.host &&\n   result.host.indexOf('@') > 0 ?\n   result.host.split('@')\n   : false;\n   if (authInHost) {\n     result.auth = authInHost.shift();\n     result.host = result.hostname =\n     authInHost.shift();\n   }\n\n   mustEndAbs = mustEndAbs || (result.host && srcPath.length);\n   if\n   (mustEndAbs && !isAbsolute) {\n     srcPath.unshift("");\n   }\n\n   if (!srcPath.length) {\n     result.pathname = null;\n     result.path = null;\n   } else {\n     result.pathname = srcPath.join('/');\n   }\n\n   //to support request.http\n   if\n   (!util.isNull(result.pathname) || !util.isNull(result.search)) {\n     result.path = (result.pathname ? result.pathname : "")\n     +\n     (result.search ? result.search : ");\n   }\n   result.auth = relative.auth || result.auth;\n   result.slashes =\n   result.slashes || relative.slashes;\n   result.href = result.format();\n   return result;\n }\n\n\n Url.prototype.parseHost =\n   function() {\n     var host = this.host;\n     var port = portPattern.exec(host);\n     if (port) {\n       port = port[0];\n       if (port

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!=='') {\n  this.port
= port.substr(1);\n  }\n  host = host.substr(0, host.length - port.length);\n  }\n  if (host) this.hostname =
host;\n};\n", "// @flow\n\nimport Reference from './reference/v8.json';\nimport type {StylePropertySpecification}
from './style-spec';\nimport type {\n  StyleSpecification,\n  SourceSpecification,\n  LayerSpecification,\n  PropertyValueSpecification,\n  DataDrivenPropertyValueSpecification\n} from './types';\n\nfunction
getPropertyReference(propertyName): StylePropertySpecification {\n  for (let i = 0; i < Reference.layout.length;
i++) {\n    for (const key in Reference[Reference.layout[i]]) {\n      if (key === propertyName) return
(Reference[Reference.layout[i]][key]: any);\n    }\n  }\n  for (let i = 0; i < Reference.paint.length; i++) {\n
for (const key in Reference[Reference.paint[i]]) {\n    if (key === propertyName) return
(Reference[Reference.paint[i]][key]: any);\n  }\n}\n\n  return (null: any);\n}\n\n\nexport
function eachSource(style: StyleSpecification, callback: (_: SourceSpecification) => void) {\n  for (const k in
style.sources) {\n    callback(style.sources[k]);\n  }\n}\n\n\nexport function eachLayer(style: StyleSpecification,
callback: (_: LayerSpecification) => void) {\n  for (const layer of style.layers) {\n    callback(layer);\n
}\n}\n\n\ntype PropertyCallback = ({\n  path: [string, 'paint' | 'layout', string], // [layerid, paint/layout, property key]\n
key: string,\n  value: PropertyValueSpecification<mixed> | DataDrivenPropertyValueSpecification<mixed>,\n
reference: StylePropertySpecification,\n  set: (PropertyValueSpecification<mixed> |
DataDrivenPropertyValueSpecification<mixed>) => void\n}) => void;\n\n\nexport function eachProperty(\n  style:
StyleSpecification,\n  options: {paint?: boolean, layout?: boolean},\n  callback: PropertyCallback\n) {\n
function inner(layer, propertyType: 'paint' | 'layout') {\n  const properties = (layer[propertyType]:
any);\n  if (!properties) return;\n  Object.keys(properties).forEach((key) => {\n    callback({\n
path: [layer.id, propertyType, key],\n    key,\n    value: properties[key],\n    reference:
getPropertyReference(key),\n    set(x) {\n      properties[key] = x;\n    }\n  });\n  });\n  }\n}\n\n  eachLayer(style, (layer) => {\n  if (options.paint) {\n    inner(layer, 'paint');\n  }\n  if
(options.layout) {\n    inner(layer, 'layout');\n  }\n});\n}\n\n", "\n\nimport URL from 'url';\nimport
{eachSource, eachLayer, eachProperty} from './visit';\n\nfunction eachLayout(layer, callback) {\n  for (const k in
layer) {\n    if (k.indexOf('layout') === 0) {\n      callback(layer[k], k);\n    }\n  }\n}\n\nfunction
eachPaint(layer, callback) {\n  for (const k in layer) {\n    if (k.indexOf('paint') === 0)\n    {\n      callback(layer[k], k);\n    }\n  }\n}\n\n\nfunction resolveConstant(style, value) {\n  if (typeof value
=== 'string' && value[0] === '@') {\n    return resolveConstant(style, style.constants[value]);\n  } else {\n
return value;\n  }\n}\n\n\nfunction isFunction(value) {\n  return Array.isArray(value.stops);\n}\n\n\nfunction
renameProperty(obj, from, to) {\n  obj[to] = obj[from]; delete obj[from];\n}\n\n\nexport default function(style) {\n
style.version = 8;\n\n  // Rename properties, reverse coordinates in source and layers\n  eachSource(style, (source)
=> {\n    if (source.type === 'video' && source.url !== undefined) {\n      renameProperty(source, 'url',
'urls');\n    }\n    if (source.type === 'video') {\n      source.coordinates.forEach((coord) => {\n
return coord.reverse();\n    });\n  }\n}\n\n  eachLayer(style, (layer) => {\n    eachLayout(layer,
(layout) => {\n      if
(layout['symbol-min-distance'] !== undefined) {\n        renameProperty(layout, 'symbol-min-distance',
'symbol-spacing');\n      }\n    });\n\n    eachPaint(layer, (paint) => {\n      if (paint['background-image']
!== undefined) {\n        renameProperty(paint, 'background-image', 'background-pattern');\n      }\n      if
(paint['line-image'] !== undefined) {\n        renameProperty(paint, 'line-image', 'line-pattern');\n      }\n
      if (paint['fill-image'] !== undefined) {\n        renameProperty(paint, 'fill-image', 'fill-pattern');\n      }\n
    });\n  });\n\n  // Inline Constants\n  eachProperty(style, {paint: true, layout: true}, (property) => {\n    const
value = resolveConstant(style, property.value);\n\n    if (isFunction(value)) {\n      value.stops.forEach((stop)
=> {\n        stop[1] = resolveConstant(style, stop[1]);\n      });\n    }\n\n    property.set(value);\n  });\n
  delete style.constants;\n\n  eachLayer(style, (layer) => {\n    // get rid of text-max-size, icon-max-size\n
// turn text-size, icon-size into layout properties\n    // https://github.com/mapbox/mapbox-gl-style-spec/issues/255\n\n
    eachLayout(layer, (layout) => {\n      delete layout['text-max-size'];\n      delete
layout['icon-max-size'];\n    });\n\n    eachPaint(layer, (paint) => {\n      if (paint['text-size']) {\n        if

```



```

{ kind: 'collator' };\nexport type FormattedTypeT = { kind: 'formatted' };\nexport type ResolvedImageTypeT = {
kind: 'resolvedImage' };;\nexport type EvaluationKind = 'constant' | 'source' | 'camera' | 'composite';;\nexport type
Type =\n  NullTypeT |\n  NumberTypeT |\n  StringTypeT |\n  BooleanTypeT |\n  ColorTypeT |\n
ObjectTypeT |\n  ValueTypeT |\n  ArrayType // eslint-disable-line no-use-before-define\n  ErrorTypeT |\n
CollatorTypeT |\n  FormattedTypeT |\n  ResolvedImageTypeT\n\nexport type ArrayType = {\n  kind: 'array',\n
itemType: Type,\n  N: ?number\n}\n\nexport type NativeType = 'number' | 'string' | 'boolean' | 'null' | 'array' |
'object'\n\nexport const NullType = {kind: 'null'};\nexport const NumberType = {kind: 'number'};\nexport const
StringType = {kind: 'string'};\nexport const BooleanType = {kind: 'boolean'};\nexport const ColorType = {kind:
'color'};\nexport const ObjectType = {kind: 'object'};\nexport const ValueType = {kind: 'value'};\nexport
const ErrorType = {kind: 'error'};\nexport const CollatorType = {kind: 'collator'};\nexport const FormattedType =
{kind: 'formatted'};\nexport const ResolvedImageType = {kind: 'resolvedImage'};\n\nexport function
array(itemType: Type, N: ?number): ArrayType {\n  return {\n    kind: 'array',\n    itemType,\n    N\n
};\n}\n\nexport function toString(type: Type): string {\n  if (type.kind === 'array') {\n    const itemType =
toString(type.itemType);\n    return typeof type.N === 'number' ?\n      `array<${itemType}>` :\n      type.itemType.kind === 'value' ? 'array' : `array<${itemType}>`;\n  } else {\n    return type.kind;\n
}\n}\n\nconst valueMemberTypes = [\n  NullType,\n  NumberType,\n  StringType,\n  BooleanType,\n
ColorType,\n  FormattedType,\n  ObjectType,\n  array(ValueType),\n  ResolvedImageType\n];\n\n/**\n *
Returns null if `t` is a subtype of `expected`; otherwise returns an\n * error message.\n
* @private\n */\nexport function checkSubtype(expected: Type, t: Type): ?string {\n  if (t.kind === 'error') {\n
// Error is a subtype of every type\n    return null;\n  } else if (expected.kind === 'array') {\n    if (t.kind ===
'array' &&\n      ((t.N === 0 && t.itemType.kind === 'value') || !checkSubtype(expected.itemType, t.itemType))
&&\n      (typeof expected.N !== 'number' || expected.N === t.N)) {\n      return null;\n    } } else if
(expected.kind === t.kind) {\n    return null;\n  } else if (expected.kind === 'value') {\n    for (const
memberType of valueMemberTypes) {\n      if (!checkSubtype(memberType, t)) {\n        return null;\n
      }\n    }\n  }\n  return `Expected ${toString(expected)} but found ${toString(t)} instead.`;\n}\n\nexport
function isValidType(provided: Type, allowedTypes: Array<Type>): boolean {\n  return allowedTypes.some(t =>
t.kind === provided.kind);\n}\n\nexport
function isValidNativeType(provided: any, allowedTypes: Array<NativeType>): boolean {\n  return
allowedTypes.some(t => {\n    if (t === 'null') {\n      return provided === null;\n    } else if (t === 'array')
{\n      return Array.isArray(provided);\n    } else if (t === 'object') {\n      return provided &&
!Array.isArray(provided) && typeof provided === 'object';\n    } else {\n      return t === typeof provided;\n
    }\n  });\n}\n\n", "(c) Dean McNamee <dean@gmail.com>, 2012.\n\n// https://github.com/deanm/css-color-
parser-js\n\n// Permission is hereby granted, free of charge, to any person obtaining a copy\n\n// of this software and
associated documentation files (the "Software"), to\n\n// deal in the Software without restriction, including without
limitation the\n\n// rights to use, copy, modify, merge, publish, distribute, sublicense, and/or\n\n// sell copies of the
Software, and to permit persons to whom the Software is\n\n// furnished
to do so, subject to the following conditions:\n\n\n// The above copyright notice and this permission notice shall be
included in\n\n// all copies or substantial portions of the Software.\n\n\n// THE SOFTWARE IS PROVIDED "AS
IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR\n\n// IMPLIED, INCLUDING BUT NOT LIMITED
TO THE WARRANTIES OF MERCHANTABILITY,\n\n// FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE\n\n// AUTHORS OR COPYRIGHT HOLDERS BE LIABLE
FOR ANY CLAIM, DAMAGES OR OTHER\n\n// LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING\n\n// FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
THE USE OR OTHER DEALINGS\n\n// IN THE SOFTWARE.\n\n\n// http://www.w3.org/TR/css3-color/\nvar
kCSSColorTable = {\n  "transparent": [0,0,0,0], "aliceblue": [240,248,255,1],\n  "antiquewhite":
[250,235,215,1], "aqua": [0,255,255,1],\n  "aquamarine": [127,255,212,1], "azure": [240,255,255,1],\n
"beige": [245,245,220,1], "bisque": [255,228,196,1],\n

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  \black\": [0,0,0,1], \blanchedalmond\": [255,235,205,1],\n \blue\": [0,0,255,1], \blueviolet\": [138,43,226,1],\n
  \brown\": [165,42,42,1], \burlywood\": [222,184,135,1],\n \cadetblue\": [95,158,160,1], \chartreuse\":
  [127,255,0,1],\n \chocolate\": [210,105,30,1], \coral\": [255,127,80,1],\n \cornflowerblue\": [100,149,237,1],
  \cornsilk\": [255,248,220,1],\n \crimson\": [220,20,60,1], \cyan\": [0,255,255,1],\n \darkblue\": [0,0,139,1],
  \darkcyan\": [0,139,139,1],\n \darkgoldenrod\": [184,134,11,1], \darkgray\": [169,169,169,1],\n \darkgreen\":
  [0,100,0,1], \darkgrey\": [169,169,169,1],\n \darkkhaki\": [189,183,107,1], \darkmagenta\": [139,0,139,1],\n
  \darkolivegreen\": [85,107,47,1], \darkorange\": [255,140,0,1],\n \darkorchid\": [153,50,204,1], \darkred\":
  [139,0,0,1],\n \darksalmon\": [233,150,122,1], \darkseagreen\": [143,188,143,1],\n \darkslateblue\":
  [72,61,139,1], \darkslategray\": [47,79,79,1],\n \darkslategrey\": [47,79,79,1],
  \darkturquoise\": [0,206,209,1],\n \darkviolet\": [148,0,211,1], \deeppink\": [255,20,147,1],\n \deepskyblue\":
  [0,191,255,1], \dimgray\": [105,105,105,1],\n \dimgrey\": [105,105,105,1], \dodgerblue\": [30,144,255,1],\n
  \firebrick\": [178,34,34,1], \floralwhite\": [255,250,240,1],\n \forestgreen\": [34,139,34,1], \fuchsia\":
  [255,0,255,1],\n \gainsboro\": [220,220,220,1], \ghostwhite\": [248,248,255,1],\n \gold\": [255,215,0,1],
  \goldenrod\": [218,165,32,1],\n \gray\": [128,128,128,1], \green\": [0,128,0,1],\n \greenyellow\":
  [173,255,47,1], \grey\": [128,128,128,1],\n \honeydew\": [240,255,240,1], \hotpink\": [255,105,180,1],\n
  \indianred\": [205,92,92,1], \indigo\": [75,0,130,1],\n \ivory\": [255,255,240,1], \khaki\": [240,230,140,1],\n
  \lavender\": [230,230,250,1], \lavenderblush\": [255,240,245,1],\n \lawngreen\": [124,252,0,1], \lemonchiffon\":
  [255,250,205,1],\n \lightblue\": [173,216,230,1], \lightcoral\": [240,128,128,1],\n \lightcyan\":
  [224,255,255,1], \lightgoldenrodyellow\": [250,250,210,1],\n \lightgray\": [211,211,211,1], \lightgreen\":
  [144,238,144,1],\n \lightgrey\": [211,211,211,1], \lightpink\": [255,182,193,1],\n \lightsalmon\":
  [255,160,122,1], \lightseagreen\": [32,178,170,1],\n \lightskyblue\": [135,206,250,1], \lightslategray\":
  [119,136,153,1],\n \lightslategrey\": [119,136,153,1], \lightsteelblue\": [176,196,222,1],\n \lightyellow\":
  [255,255,224,1], \lime\": [0,255,0,1],\n \limegreen\": [50,205,50,1], \linen\": [250,240,230,1],\n \magenta\":
  [255,0,255,1], \maroon\": [128,0,0,1],\n \mediumaquamarine\": [102,205,170,1], \mediumblue\": [0,0,205,1],\n
  \mediumorchid\": [186,85,211,1], \mediumpurple\": [147,112,219,1],\n \mediumseagreen\": [60,179,113,1],
  \mediumslateblue\": [123,104,238,1],\n \mediumspringgreen\": [0,250,154,1], \mediumturquoise\":
  [72,209,204,1],\n \mediumvioletred\": [199,21,133,1], \midnightblue\": [25,25,112,1],\n \mintcream\":
  [245,255,250,1],
  \mistyrose\": [255,228,225,1],\n \moccasin\": [255,228,181,1], \navajowhite\": [255,222,173,1],\n \navy\":
  [0,0,128,1], \oldlace\": [253,245,230,1],\n \olive\": [128,128,0,1], \olivedrab\": [107,142,35,1],\n \orange\":
  [255,165,0,1], \orangered\": [255,69,0,1],\n \orchid\": [218,112,214,1], \palegoldenrod\": [238,232,170,1],\n
  \palegreen\": [152,251,152,1], \paleturquoise\": [175,238,238,1],\n \palevioletred\": [219,112,147,1],
  \papayawhip\": [255,239,213,1],\n \peachpuff\": [255,218,185,1], \peru\": [205,133,63,1],\n \pink\":
  [255,192,203,1], \plum\": [221,160,221,1],\n \powderblue\": [176,224,230,1], \purple\": [128,0,128,1],\n
  \rebeccapurple\": [102,51,153,1],\n \red\": [255,0,0,1], \rosybrown\": [188,143,143,1],\n \royalblue\":
  [65,105,225,1], \saddlebrown\": [139,69,19,1],\n \salmon\": [250,128,114,1], \sandybrown\": [244,164,96,1],\n
  \seagreen\": [46,139,87,1], \seashell\": [255,245,238,1],\n \sienna\": [160,82,45,1], \silver\":
  [192,192,192,1],\n \skyblue\": [135,206,235,1], \slateblue\": [106,90,205,1],\n \slategray\": [112,128,144,1],
  \slategrey\": [112,128,144,1],\n \snow\": [255,250,250,1], \springgreen\": [0,255,127,1],\n \steelblue\":
  [70,130,180,1], \tan\": [210,180,140,1],\n \teal\": [0,128,128,1], \thistle\": [216,191,216,1],\n \tomato\":
  [255,99,71,1], \turquoise\": [64,224,208,1],\n \violet\": [238,130,238,1], \wheat\": [245,222,179,1],\n \white\":
  [255,255,255,1], \whitesmoke\": [245,245,245,1],\n \yellow\": [255,255,0,1], \yellowgreen\":
  [154,205,50,1]}\n\nfunction clamp_css_byte(i) { // Clamp to integer 0 .. 255.\n i = Math.round(i); // Seems to be
  what Chrome does (vs truncation).\n return i < 0 ? 0 : i > 255 ? 255 : i;\n}\n\nfunction clamp_css_float(f) { //
  Clamp to float 0.0 .. 1.0.\n return f < 0 ? 0 : f > 1 ? 1 : f;\n}\n\nfunction parse_css_int(str) { // int or percentage.\n
  if (str[str.length - 1] === '%')\n return clamp_css_byte(parseFloat(str)
  / 100 * 255);\n return clamp_css_byte(parseInt(str));\n}\n\nfunction parse_css_float(str) { // float or percentage.\n
  if (str[str.length - 1] === '%')\n return clamp_css_float(parseFloat(str) / 100);\n return

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clamp_css_float(parseFloat(str));\n\nfunction css_hue_to_rgb(m1, m2, h) {\n  if (h < 0) h += 1;\n  else if (h > 1)\n  h -= 1;\n  if (h * 6 < 1) return m1 + (m2 - m1) * h * 6;\n  if (h * 2 < 1) return m2;\n  if (h * 3 < 2) return m1 + (m2 - m1) * (2/3 - h) * 6;\n  return m1;\n}\n\nfunction parseCSSColor(css_str) {\n  // Remove all whitespace, not compliant, but should just be more accepting.\n  var str = css_str.replace(/ /g, "").toLowerCase();\n  // Color keywords (and transparent) lookup.\n  if (str in kCSSColorTable) return kCSSColorTable[str].slice(); // dup.\n  // #abc and #abc123 syntax.\n  if (str[0] === '#') {\n    if (str.length === 4) {\n      var iv = parseInt(str.substr(1), 16); //\n      TODO(deanm): Stricter parsing.\n      if (!(iv >= 0 && iv <= 0xffff)) return\n      null; // Covers NaN.\n      return [(iv & 0xf00) >> 4] | ((iv & 0xf00) >> 8),\n              (iv & 0xf0) | ((iv & 0xf0) >> 4),\n              (iv & 0xf) | ((iv & 0xf) << 4),\n              1];\n    } else if (str.length === 7) {\n      var iv =\n      parseInt(str.substr(1), 16); // TODO(deanm): Stricter parsing.\n      if (!(iv >= 0 && iv <= 0xffffffff)) return null; //\n      Covers NaN.\n      return [(iv & 0xff0000) >> 16,\n              (iv & 0xff00) >> 8,\n              iv & 0xff,\n              1];\n    }\n  }\n  return null;\n}\n\nvar op = str.indexOf('('), ep = str.indexOf(');\n  if (op !== -1 && ep + 1 === str.length)\n  {\n    var fname = str.substr(0, op);\n    var params = str.substr(op+1, ep-(op+1)).split(',');\n    var alpha = 1; // To allow case fallthrough.\n    switch (fname) {\n      case 'rgba':\n        if (params.length !== 4) return null;\n        alpha = parse_css_float(params.pop());\n        // Fall through.\n      case 'rgb':\n        if (params.length !== 3) return\n        null;\n        return [parse_css_int(params[0]),\n                parse_css_int(params[1]),\n                parse_css_int(params[2]),\n                alpha];\n      case 'hsla':\n        if (params.length !== 4) return null;\n        alpha = parse_css_float(params.pop());\n        // Fall through.\n      case 'hsl':\n        if (params.length !== 3) return null;\n        var h = (((parseFloat(params[0]) % 360) + 360) % 360) / 360; // 0..1\n        // NOTE(deanm): According to the CSS spec s/l should only be\n        // percentages, but we don't bother and let float or percentage.\n        var s =\n        parse_css_float(params[1]);\n        var l = parse_css_float(params[2]);\n        var m2 = 1 <= 0.5 ? 1 * (s + 1) : 1 + s - 1 * s;\n        var m1 = 1 * 2 - m2;\n        return [clamp_css_byte(css_hue_to_rgb(m1, m2, h+1/3) * 255),\n                clamp_css_byte(css_hue_to_rgb(m1, m2, h-1/3) * 255),\n                alpha];\n    }\n    default:\n      return null;\n  }\n}\n\nreturn null;\n}\n\nmodule { exports.parseCSSColor = parseCSSColor }\n\nexport { }\n\n/**\n * @flow\n * @import { parseCSSColor } from 'csscolorparser';\n * An RGBA color value.\n * Create instances from color strings using the static\n * method `Color.parse`. The constructor accepts RGB channel values in the range\n * `[0, 1]`, premultiplied by A.\n * @param {number} r The red channel.\n * @param {number} g The green channel.\n * @param {number} b The blue channel.\n * @param {number} a The alpha channel.\n * @private\n */\n\nclass Color {\n  r: number;\n  g: number;\n  b: number;\n  a: number;\n\n  constructor(r: number, g: number, b: number, a: number = 1) {\n    this.r = r;\n    this.g = g;\n    this.b = b;\n    this.a = a;\n  }\n\n  static black: Color;\n  static white: Color;\n  static transparent: Color;\n  static red: Color;\n\n  /**\n   * Parses valid CSS color strings and returns a `Color` instance.\n   * @returns A `Color` instance, or `undefined` if the input is not a valid color string.\n   */\n  static parse(input?: string | Color | null): Color | void {\n    if (!input) {\n      return undefined;\n    }\n    if (input instanceof Color) {\n      return input;\n    }\n    if (typeof input !== 'string') {\n      return undefined;\n    }\n    const rgba = parseCSSColor(input);\n    if (!rgba) {\n      return undefined;\n    }\n    return new Color(\n      rgba[0] / 255 * rgba[3],\n      rgba[1] / 255 * rgba[3],\n      rgba[2] / 255 * rgba[3],\n      rgba[3]);\n  }\n\n  /**\n   * Returns an RGBA string representing the color value.\n   */\n  toString(): string {\n    return `rgba(${Math.round(r)}, ${Math.round(g)}, ${Math.round(b)}, ${a})`;\n  }\n\n  toArray(): [number, number, number, number] {\n    const {r, g, b, a} = this;\n    return a === 0 ? [0, 0, 0, 0] :\n    [r * 255 / a,\n     g * 255 / a,\n     b * 255 / a,\n     a];\n  }\n}\n\nColor.black = new Color(0, 0, 0, 1);\nColor.white = new Color(1, 1, 1, 1);\nColor.transparent = new Color(0, 0, 0, 0);\nColor.red = new Color(1, 0, 0, 1);\n\nexport default Color;\n\n/**\n * @flow\n * Flow type declarations for Intl cribbed from\n * https://github.com/facebook/flow/issues/1270\n */\n\ndeclare var Intl: {\n  Collator:

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Class<Intl$Collator>\n};\ndeclare class Intl$Collator {\n  constructor (\n    locales?: string | string[],\n    options?: CollatorOptions\n  ): Intl$Collator;\n\n  static (\n    locales?: string | string[],\n    options?: CollatorOptions\n  ): Intl$Collator;\n\n  compare (a: string, b: string): number;\n\n  resolvedOptions(): any;\n}\n\ntype CollatorOptions = {\n  localeMatcher?: 'lookup' | 'best fit',\n  usage?: 'sort' | 'search',\n  sensitivity?: 'base' | 'accent' | 'case' | 'variant',\n  ignorePunctuation?: boolean,\n  numeric?: boolean,\n  caseFirst?: 'upper' | 'lower' | 'false'\n}\n\nexport default class Collator {\n  locale: string | null;\n  sensitivity: 'base' | 'accent' | 'case' | 'variant';\n  collator: Intl$Collator;\n\n  constructor(caseSensitive: boolean, diacriticSensitive: boolean, locale: string | null) {\n    if (caseSensitive)\n      this.sensitivity = diacriticSensitive ? 'variant' : 'case';\n    else\n      this.sensitivity = diacriticSensitive ? 'accent' : 'base';\n    this.locale = locale;\n    this.collator = new Intl.Collator(this.locale ? this.locale : [],\n      {\n        sensitivity: this.sensitivity, usage: 'search'\n      });\n  }\n\n  compare(lhs: string, rhs: string): number {\n    return this.collator.compare(lhs, rhs);\n  }\n\n  resolvedLocale(): string {\n    // We create a Collator without "usage: search" because we don't want\n    // the search options encoded in our result (e.g. "en-u-co-search")\n    return new Intl.Collator(this.locale ? this.locale : []).resolvedOptions().locale;\n  }\n}\n", "// @flow\n\nimport type Color from './util/color';\nimport type ResolvedImage from './types/resolved_image';\n\nexport class FormattedSection {\n  text: string;\n  image: ResolvedImage | null;\n  scale: number | null;\n  fontStack: string | null;\n  textColor: Color | null;\n\n  constructor(text: string, image: ResolvedImage | null, scale: number | null, fontStack: string | null, textColor: Color | null) {\n    this.text = text;\n    this.image = image;\n    this.scale = scale;\n    this.fontStack = fontStack;\n    this.textColor = textColor;\n  }\n}\n\nexport default class Formatted {\n  sections: Array<FormattedSection>;\n\n  constructor(sections: Array<FormattedSection>) {\n    this.sections = sections;\n  }\n\n  static fromString(unformatted: string): Formatted {\n    return new Formatted([new FormattedSection(unformatted, null, null, null, null)];\n  }\n\n  isEmpty(): boolean {\n    if (this.sections.length === 0) return true;\n    return !this.sections.some(section => section.text.length !== 0 ||\n      (section.image && section.image.name.length !== 0));\n  }\n\n  static factory(text: Formatted | string): Formatted {\n    if (text instanceof Formatted) {\n      return text;\n    } else {\n      return Formatted.fromString(text);\n    }\n  }\n\n  toString(): string {\n    if (this.sections.length === 0) return "";\n    return this.sections.map(section => section.text).join("");\n  }\n\n  serialize(): Array<mixed> {\n    const serialized: Array<mixed> = ["format"];\n    for (const section of this.sections) {\n      if (section.image) {\n        serialized.push(["image", section.image.name]);\n        continue;\n      }\n      serialized.push(section.text);\n      const options: { [key: string]: mixed } = {};\n      if (section.fontStack) {\n        options["text-font"] = ["literal", section.fontStack.split(',')];\n      }\n      if (section.scale) {\n        options["font-scale"] = section.scale;\n      }\n      if (section.textColor) {\n        options["text-color"] = (["rgba"]: Array<mixed>).concat(section.textColor.toArray());\n      }\n      serialized.push(options);\n    }\n    return serialized;\n  }\n}\n", "// @flow\n\nexport type ResolvedImageOptions = {\n  name: string,\n  available: boolean\n};\n\nexport default class ResolvedImage {\n  name: string;\n  available: boolean;\n\n  constructor(options: ResolvedImageOptions) {\n    this.name = options.name;\n    this.available = options.available;\n  }\n\n  toString(): string {\n    return this.name;\n  }\n\n  static fromString(name: string): ResolvedImage | null {\n    if (!name) return null; // treat empty values as no image\n    return new ResolvedImage({name, available: false});\n  }\n\n  serialize(): Array<string> {\n    return ["image", this.name];\n  }\n}\n", "// @flow\n\nimport assert from 'assert';\nimport Color from './util/color';\nimport Collator from './types/collator';\nimport Formatted from './types/formatted';\nimport ResolvedImage from './types/resolved_image';\nimport {NullType, NumberType, StringType, BooleanType, ColorType, ObjectType, ValueType, CollatorType, FormattedType, ResolvedImageType, array} from './types';\nimport type {Type} from './types';\n\nexport function validateRGBA(r: mixed, g: mixed, b: mixed, a?: mixed): string | null {\n  if (!(typeof r === 'number' && r >= 0 && r <= 255 && typeof g === 'number' && g >= 0 && g <=

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255 &&\n    typeof b === 'number' && b >= 0 && b <= 255\n  )) {\n    const value = typeof a === 'number' ?
[r, g, b, a] : [r, g, b];\n    return `Invalid rgba value [${value.join(', ')}]: 'r', 'g', and 'b' must be between 0 and
255.`;\n  }\n\n  if (!(typeof a === 'undefined' || (typeof a === 'number' && a >= 0 && a <= 1))\n  ) {\n
return `Invalid rgba value [${[r, g, b, a].join(', ')}]: 'a' must be between 0 and 1.`;\n  }\n\n  return
null;\n}\n\nexport type Value = null | string | boolean | number | Color | Collator | Formatted | ResolvedImage |
$ReadOnlyArray<Value> | {+[string]: Value }\n\nexport function isValue(mixed: mixed): boolean {\n  if (mixed
=== null) {\n    return true;\n  } else if (typeof mixed
=== 'string') {\n    return true;\n  } else if (typeof mixed === 'boolean') {\n    return true;\n  } else if (typeof
mixed === 'number') {\n    return true;\n  } else if (mixed instanceof Color) {\n    return true;\n  } else if
(mixed instanceof Collator) {\n    return true;\n  } else if (mixed instanceof Formatted) {\n    return true;\n  }
else if (mixed instanceof ResolvedImage) {\n    return true;\n  } else if (Array.isArray(mixed)) {\n    for (const
item of mixed) {\n      if (!isValue(item)) {\n        return false;\n      }\n    }\n    return true;\n  }
else if (typeof mixed === 'object') {\n    for (const key in mixed) {\n      if (!isValue(mixed[key])) {\n
return false;\n      }\n    }\n    return true;\n  } else {\n    return false;\n  }\n}\n\nexport function
typeof(value: Value): Type {\n  if (value === null) {\n    return NullType;\n  } else if (typeof
value === 'string') {\n    return StringType;\n  } else if (typeof value === 'boolean') {\n    return
BooleanType;\n  } else if (typeof value === 'number') {\n    return NumberType;\n  } else if (value instanceof
Color) {\n    return ColorType;\n  } else if (value instanceof Collator) {\n    return CollatorType;\n  } else if
(value instanceof Formatted) {\n    return FormattedType;\n  } else if (value instanceof ResolvedImage) {\n
return ResolvedImageType;\n  } else if (Array.isArray(value)) {\n    const length = value.length;\n    let
itemType: Type | typeof undefined;\n    for (const item of value) {\n      const t = typeof(item);\n      if
(!itemType) {\n        itemType = t;\n      } else if (itemType === t) {\n        continue;\n      } else {\n
itemType = ValueType;\n        break;\n      }\n    }\n    return array(itemType || ValueType,
length);\n  } else {\n    assert(typeof value === 'object');\n    return ObjectType;\n  }\n}\n\nexport function
toString(value: Value) {\n  const type = typeof value;\n  if (value === null) {\n    return "";\n  } else if (type
=== 'string' || type === 'number' || type === 'boolean') {\n    return String(value);\n  } else if (value instanceof
Color || value instanceof Formatted || value instanceof ResolvedImage) {\n    return value.toString();\n  } else {\n
return JSON.stringify(value);\n  }\n}\n\nexport {Color, Collator};\n", "/* @flow\n\nimport assert from
'assert';\nimport {isValue, typeof, Color} from './values';\nimport Formatted from './types/formatted';\nimport
type {Type} from './types';\nimport type {Value} from './values';\nimport type {Expression} from
'./expression';\nimport type ParsingContext from './parsing_context';\n\nclass Literal implements Expression {\n
type: Type;\n  value: Value;\n\n  constructor(type: Type,
value: Value) {\n    this.type = type;\n    this.value = value;\n  }\n\n  static parse(args:
$ReadOnlyArray<mixed>, context: ParsingContext) {\n    if (args.length !== 2)\n      return
context.error(`literal' expression requires exactly one argument, but found ${args.length - 1} instead.`);\n    if
(!isValue(args[1]))\n      return context.error(`invalid value`);\n    const value = (args[1]: any);\n    let type
= typeof(value);\n    // special case: infer the item type if possible for zero-length arrays\n    const expected =
context.expectedType;\n    if (\n      type.kind === 'array' &&\n      type.N === 0 &&\n      expected
&&\n      expected.kind === 'array' &&\n      (typeof expected.N !== 'number' || expected.N === 0)\n    )
{\n      type = expected;\n    }\n    return new Literal(type, value);\n  }\n\n  evaluate() {\n    return
this.value;\n  }\n\n  eachChild()
{\n\n  outputDefined() {\n    return true;\n  }\n\n  serialize(): Array<mixed> {\n    if (this.type.kind ===
'array' || this.type.kind === 'object') {\n      return [\"literal\", this.value];\n    } else if (this.value instanceof
Color) {\n      // Constant-folding can generate Literal expressions that you\n      // couldn't actually generate
with a \"literal\" expression,\n      // so we have to implement an equivalent serialization here\n      return
[\"rgba\"].concat(this.value.toArray());\n    } else if (this.value instanceof Formatted) {\n      // Same as
Color\n      return this.value.serialize();\n    } else {\n      assert(this.value === null ||\n      typeof
this.value === 'string' ||\n      typeof this.value === 'number' ||\n      typeof this.value === 'boolean');\n

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return (this.value: any);\n    }\n  }\n}\n\nexport default Literal;\n", "// @flow\n\nclass\nRuntimeError {\n  name: string;\n  message: string;\n\n  constructor(message: string) {\n    this.name =\n'ExpressionEvaluationError';\n    this.message = message;\n  }\n\n  toJSON() {\n    return this.message;\n  }\n}\n\nexport default RuntimeError;\n", "// @flow\n\nimport assert from 'assert';\nimport {\n  ObjectType,\n  ValueType,\n  StringType,\n  NumberType,\n  BooleanType,\n  checkSubtype,\n  toString,\n  array\n} from\n'./types';\nimport RuntimeError from './runtime_error';\nimport {typeOf} from './values';\nimport type\n{Expression} from './expression';\nimport type ParsingContext from './parsing_context';\nimport type\nEvaluationContext from './evaluation_context';\nimport type {Type} from './types';\n\nconst types = {\n  string:\nStringType,\n  number: NumberType,\n  boolean: BooleanType,\n  object: ObjectType\n};\n\nclass Assertion\nimplements Expression {\n  type: Type;\n  args: Array<Expression>;\n\n  constructor(type:\nType, args: Array<Expression>) {\n    this.type = type;\n    this.args = args;\n  }\n\n  static parse(args:\n$ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n    if (args.length < 2)\n      return\ncontext.error('Expected at least one argument.);\n\n    let i = 1;\n    let type;\n\n    const name: string =\n(args[0]: any);\n    if (name === 'array') {\n      let itemType;\n      if (args.length > 2) {\n        const\n\n        type = args[1];\n        if (typeof type !== 'string' || !(type in types) || type === 'object')\n          return\ncontext.error("The item type argument of \"array\" must be one of string, number, boolean", 1);\n        itemType\n= types[type];\n        i++;\n      } else {\n        itemType = ValueType;\n      }\n\n      let N;\n      if (args.length > 3) {\n        if (args[2] !== null &&\n\n        (typeof args[2]\n\n        !== 'number' ||\n\n        args[2] < 0 ||\n\n        args[2] !== Math.floor(args[2]))\n\n        ) {\n          return context.error("The length argument to \"array\" must be a positive integer literal", 2);\n        }\n\n        N = args[2];\n        i++;\n      }\n\n      type = array(itemType, N);\n    } else {\n      assert(types[name], name);\n      type = types[name];\n    }\n\n    const parsed = [];\n    for (; i <\nargs.length; i++) {\n      const input = context.parse(args[i], i, ValueType);\n      if (!input) return null;\n      parsed.push(input);\n    }\n\n    return new Assertion(type, parsed);\n  }\n\n  evaluate(ctx:\nEvaluationContext) {\n    for (let i = 0; i < this.args.length; i++) {\n      const value =\nthis.args[i].evaluate(ctx);\n      const error = checkSubtype(this.type, typeOf(value));\n      if (!error) {\n        return value;\n      } else if (i === this.args.length - 1) {\n        throw new RuntimeError('Expected\nvalue to be of type ${toString(this.type)}, but found ${toString(typeOf(value))} instead.);\n      }\n    }\n\n    assert(false);\n    return null;\n  }\n\n  eachChild(fn: (_: Expression) => void) {\n    this.args.forEach(fn);\n  }\n\n  outputDefined(): boolean {\n    return this.args.every(arg => arg.outputDefined());\n  }\n\n  serialize():\nArray<mixed> {\n    const type = this.type;\n    const serialized = [type.kind];\n    if (type.kind === 'array')\n      {\n        const itemType = type.itemType;\n        if (itemType.kind === 'string' ||\n\n        itemType.kind ===\n\n        'number' ||\n\n        itemType.kind === 'boolean') {\n          serialized.push(itemType.kind);\n        }\n\n        const\n\n        N = type.N;\n        if (typeof N === 'number' || this.args.length > 1) {\n          serialized.push(N);\n        }\n      }\n\n    return serialized.concat(this.args.map(arg =>\narg.serialize()));\n  }\n}\n\nexport default Assertion;\n", "// @flow\n\nimport {\n  NumberType, ValueType,\n  FormattedType, array, StringType, ColorType, ResolvedImageType\n} from './types';\nimport Formatted,\n{FormattedSection} from './types/formatted';\nimport {toString, typeOf} from './values';\nimport type\n{Expression} from './expression';\nimport type EvaluationContext from './evaluation_context';\nimport type\nParsingContext from './parsing_context';\nimport type {Type} from './types';\n\ntype FormattedSectionExpression\n= {\n  // Content of a section may be Image expression or other\n  // type of expression that is coercable to\n  'string'.\n  content: Expression,\n  scale: Expression | null;\n  font: Expression | null;\n  textColor: Expression | null;\n}\n\nexport default class FormatExpression implements Expression {\n  type: Type;\n  sections:\nArray<FormattedSectionExpression>;\n\n  constructor(sections: Array<FormattedSectionExpression>) {\n    this.type = FormattedType;\n    this.sections = sections;\n  }\n\n  static parse(args: $ReadOnlyArray<mixed>,\ncontext: ParsingContext): ?Expression {\n    if (args.length < 2) {\n      return context.error('Expected at least\none argument.);\n    }\n\n    const firstArg = args[1];\n    if (!Array.isArray(firstArg) && typeof firstArg\n=== 'object') {\n      return context.error('First argument must be an image or text section.);\n    }\n  }\n}

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const sections: Array<FormattedSectionExpression> = [];\n    let nextTokenMaybeObject = false;\n    for (let i
= 1; i <= args.length - 1; ++i) {\n        const arg = (args[i]: any);\n        if (nextTokenMaybeObject && typeof
arg === \"object\" && !Array.isArray(arg)) {\n            nextTokenMaybeObject = false;\n            let scale =
null;\n            if
(arg['font-scale']) {\n                scale = context.parse(arg['font-scale'], 1, NumberType);\n                if (!scale)
return null;\n            }\n            let font = null;\n            if (arg['text-font']) {\n                font =
context.parse(arg['text-font'], 1, array(StringType));\n                if (!font) return null;\n            }\n            let
textColor = null;\n            if (arg['text-color']) {\n                textColor = context.parse(arg['text-color'], 1,
ColorType);\n                if (!textColor) return null;\n            }\n            const lastExpression =
sections[sections.length - 1];\n            lastExpression.scale = scale;\n            lastExpression.font = font;\n            lastExpression.textColor = textColor;\n        } else {\n            const content = context.parse(args[i], 1,
ValueType);\n            if (!content) return null;\n            const
kind = content.type.kind;\n            if (kind !== 'string' && kind !== 'value' && kind !== 'null' && kind !==
'resolvedImage')\n                return context.error('Formatted text type must be 'string', 'value', 'image' or
'null');\n            nextTokenMaybeObject = true;\n            sections.push({content, scale: null, font: null,
textColor: null});\n        }\n    }\n    return new FormatExpression(sections);\n}\n\n evaluate(ctx:
EvaluationContext) {\n    const evaluateSection = section => {\n        const evaluatedContent =
section.content.evaluate(ctx);\n        if (typeof(evaluatedContent) === ResolvedImageType) {\n            return
new FormattedSection(\"\", evaluatedContent, null, null, null);\n        }\n        return new FormattedSection(\n
            toString(evaluatedContent),\n                null,\n                section.scale ? section.scale.evaluate(ctx) :
null,\n                section.font ? section.font.evaluate(ctx).join(',') : null,\n                section.textColor ?
section.textColor.evaluate(ctx) : null\n            );\n    }\n    return new
Formatted(this.sections.map(evaluateSection));\n}\n\n eachChild(fn: (_: Expression) => void) {\n    for (const
section of this.sections) {\n        fn(section.content);\n        if (section.scale) {\n            fn(section.scale);\n        }\n        if (section.font) {\n            fn(section.font);\n        }\n        if (section.textColor) {\n
fn(section.textColor);\n        }\n    }\n}\n\n outputDefined() {\n    // Technically the combinatoric set of
all children\n    // Usually, this.text will be undefined anyway\n    return false;\n}\n\n serialize() {\n
const serialized = [\"format\"];\n    for (const section of this.sections) {\n
serialized.push(section.content.serialize());\n        const options = {};\n        if (section.scale) {\n            options['font-scale'] = section.scale.serialize();\n        }\n        if (section.font) {\n            options['text-font'] = section.font.serialize();\n        }\n        if
(section.textColor) {\n            options['text-color'] = section.textColor.serialize();\n        }\n        serialized.push(options);\n    }\n    return serialized;\n}\n}\n\n\"// @flow\n\nimport {ResolvedImageType,
StringType} from './types';\nimport ResolvedImage from './types/resolved_image';\nimport type {Expression}
from './expression';\nimport type EvaluationContext from './evaluation_context';\nimport type ParsingContext from
 './parsing_context';\nimport type {Type} from './types';\n\nexport default class ImageExpression implements
Expression {\n    type: Type;\n    input: Expression;\n\n    constructor(input: Expression) {\n        this.type =
ResolvedImageType;\n        this.input
= input;\n    }\n\n    static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n        if
(args.length !== 2) {\n            return context.error('Expected two arguments.);\n        }\n        const name =
context.parse(args[1], 1, StringType);\n        if (!name) return context.error('No image name provided.);\n    }\n    return new ImageExpression(name);\n}\n\n evaluate(ctx: EvaluationContext) {\n    const
evaluatedImageName = this.input.evaluate(ctx);\n    const value =
ResolvedImage.fromString(evaluatedImageName);\n    if (value && ctx.availableImages) value.available =
ctx.availableImages.indexOf(evaluatedImageName) > -1;\n    return value;\n}\n\n eachChild(fn: (_:
Expression) => void) {\n    fn(this.input);\n}\n\n outputDefined() {\n    // The output of image is
determined by the list of available images in the evaluation context\n    return false;\n}\n\n serialize() {\n

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return

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["image", this.input.serialize());\n  }\n}\n", "// @flow\n\nimport assert from 'assert';\nimport { BooleanType,\n  ColorType, NumberType, StringType, ValueType } from './types';\nimport { Color, toString as valueToString,\n  validateRGBA } from './values';\nimport RuntimeError from './runtime_error';\nimport Formatted from\n  './types/formatted';\nimport FormatExpression from './definitions/format';\nimport ImageExpression from\n  './definitions/image';\nimport ResolvedImage from './types/resolved_image';\n\nimport type { Expression } from\n  './expression';\nimport type ParsingContext from './parsing_context';\nimport type EvaluationContext from\n  './evaluation_context';\nimport type { Type } from './types';\n\nconst types = {\n  'to-boolean': BooleanType,\n  'to-color': ColorType,\n  'to-number': NumberType,\n  'to-string': StringType\n};\n\n/**\n * Special form for\n error-coalescing coercion expressions \"to-number\", \" * \"to-color\". Since these coercions can fail at runtime, they\n accept multiple\n * arguments, only evaluating one at a time until one succeeds.\n * @private\n */\n\nclass\n Coercion implements Expression {\n  type: Type;\n  args: Array<Expression>;\n\n  constructor(type: Type, args:\n  Array<Expression>) {\n    this.type = type;\n    this.args = args;\n  }\n\n  static parse(args:\n  $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n    if (args.length < 2)\n      return\n      context.error(`Expected at least one argument.`);\n\n    const name: string = (args[0]: any);\n    assert(types[name], name);\n\n    if ((name === 'to-boolean' || name === 'to-string') && args.length !== 2)\n      return context.error(`Expected one argument.`);\n\n    const type = types[name];\n    const parsed = [];\n\n    for (let i = 1; i < args.length; i++) {\n      const input = context.parse(args[i], i, ValueType);\n      if (!input)\n        return null;\n      parsed.push(input);\n    }\n\n    return new Coercion(type, parsed);\n  }\n\n  evaluate(ctx: EvaluationContext) {\n    if (this.type.kind ===\n    'boolean') {\n      return Boolean(this.args[0].evaluate(ctx));\n    } else if (this.type.kind === 'color') {\n      let input;\n      let error;\n      for (const arg of this.args) {\n        input = arg.evaluate(ctx);\n        error = null;\n        if (input instanceof Color) {\n          return input;\n        } else if (typeof input\n        === 'string') {\n          const c = ctx.parseColor(input);\n          if (c) return c;\n        } else if\n        (Array.isArray(input)) {\n          if (input.length < 3 || input.length > 4) {\n            error = `Invalid rgba\n            value ${JSON.stringify(input)}: expected an array containing either three or four numeric values.`;\n          }\n          else {\n            error = validateRGBA(input[0], input[1],\n            input[2], input[3]);\n          }\n          if (!error) {\n            return new Color((input[0]: any) / 255,\n            (input[1]: any) / 255, (input[2]: any) / 255, (input[3]: any));\n          }\n          throw\n          new RuntimeError(error || `Could not parse color from value '${typeof input === 'string' ? input :\n          String(JSON.stringify(input))}`);\n        } else if (this.type.kind === 'number') {\n          let value = null;\n          for (const arg of this.args) {\n            value = arg.evaluate(ctx);\n            if (value === null) return 0;\n            const num = Number(value);\n            if (isNaN(num)) continue;\n            return num;\n          }\n          throw\n          new RuntimeError(`Could not convert ${JSON.stringify(value)} to number.`);\n        } else if (this.type.kind ===\n        'formatted') {\n          // There is no explicit 'to-formatted' but this coercion can be implicitly\n          // created by properties that expect the 'formatted' type.\n          return\n          Formatted.fromString(valueToString(this.args[0].evaluate(ctx))); \n        } else if (this.type.kind ===\n        'resolvedImage') {\n          return ResolvedImage.fromString(valueToString(this.args[0].evaluate(ctx))); \n        }\n      }\n    } else {\n      return valueToString(this.args[0].evaluate(ctx)); \n    }\n  }\n\n  eachChild(fn: (_: Expression) =>\n  void) {\n    this.args.forEach(fn);\n  }\n\n  outputDefined(): boolean {\n    return this.args.every(arg =>\n    arg.outputDefined());\n  }\n\n  serialize() {\n    if (this.type.kind === 'formatted') {\n      return new\n      FormatExpression([{\n        content: this.args[0],\n        scale: null,\n        font: null,\n        textColor: null\n      }]).serialize();\n    }\n    if\n    (this.type.kind === 'resolvedImage') {\n      return new ImageExpression(this.args[0]).serialize();\n    }\n    const serialized = [\n      'to-${this.type.kind}'\n    ];\n    this.eachChild(child\n    => {\n      serialized.push(child.serialize());\n    });\n    return serialized;\n  }\n}\n\nexport default Coercion;\n", "//\n@flow\n\nimport { Color } from './values';\nimport type { FormattedSection } from './types/formatted';\nimport type\n  { GlobalProperties, Feature, FeatureState } from './index';\nimport type { CanonicalTileID } from\n  './././source/tile_id';\n\nconst geometryTypes = ['Unknown', 'Point', 'LineString', 'Polygon'];\n\nclass
```

```

EvaluationContext {\n  globals: GlobalProperties;\n  feature: ?Feature;\n  featureState: ?FeatureState;\n  formattedSection: ?FormattedSection;\n  availableImages: ?Array<string>;\n  canonical: ?CanonicalTileID;\n\n  _parseColorCache: {[_: string]: ?Color};\n\n  constructor() {\n    this.globals = (null: any);\n    this.feature = null;\n    this.featureState = null;\n    this.formattedSection = null;\n    this._parseColorCache = {};\n\n    this.availableImages = null;\n    this.canonical = null;\n  }\n\n  id()\n  {\n    return this.feature && 'id' in this.feature ? this.feature.id : null;\n  }\n\n  geometryType() {\n    return this.feature ? typeof this.feature.type === 'number' ? geometryTypes[this.feature.type] : this.feature.type : null;\n  }\n\n  geometry() {\n    return this.feature && 'geometry' in this.feature ? this.feature.geometry : null;\n  }\n\n  canonicalID() {\n    return this.canonical;\n  }\n\n  properties() {\n    return this.feature && this.feature.properties || {};\n  }\n\n  parseColor(input: string): ?Color {\n    let cached = this._parseColorCache[input];\n    if (!cached) {\n      cached = this._parseColorCache[input] = Color.parse(input);\n    }\n    return cached;\n  }\n}\n\nexport default EvaluationContext;\n", "//\n@flow\n\nimport { toString } from './types';\n\nimport ParsingContext from './parsing_context';\n\nimport EvaluationContext from './evaluation_context';\n\nimport assert from 'assert';\n\nimport type\n  { Expression, ExpressionRegistry } from './expression';\n\nimport type { Type } from './types';\n\nimport type { Value } from './values';\n\nexport type Varargs = { | type: Type |};\n\ntype Signature = Array<Type> | Varargs;\n\ntype Evaluate = (EvaluationContext, Array<Expression>) => Value;\n\ntype Definition = [Type, Signature, Evaluate] |\n  { | type: Type, overloads: Array<[Signature, Evaluate]> |};\n\n\nclass CompoundExpression implements Expression {\n  name: string;\n  type: Type;\n  _evaluate: Evaluate;\n  args: Array<Expression>;\n\n  static definitions: {[_: string]: Definition };\n\n  constructor(name: string, type: Type, evaluate: Evaluate, args: Array<Expression>) {\n    this.name = name;\n    this.type = type;\n    this._evaluate = evaluate;\n    this.args = args;\n  }\n\n  evaluate(ctx: EvaluationContext) {\n    return this._evaluate(ctx, this.args);\n  }\n\n  eachChild(fn: (_: Expression) => void) {\n    this.args.forEach(fn);\n  }\n\n  outputDefined()\n  {\n    return false;\n  }\n\n  serialize(): Array<mixed> {\n    return [this.name].concat(this.args.map(arg => arg.serialize()));\n  }\n\n  static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n    const op: string = (args[0]: any);\n    const definition = CompoundExpression.definitions[op];\n    if (!definition) {\n      return context.error(`Unknown expression \"${op}\". If you wanted a literal array, use [\"literal\", [...]].`, 0);\n    }\n\n    // Now check argument types against each signature\n    const type = Array.isArray(definition) ?\n      definition[0] : definition.type;\n\n    const availableOverloads = Array.isArray(definition) ?\n      [[definition[1], definition[2]]] :\n      definition.overloads;\n\n    const overloads = availableOverloads.filter(([signature]) => (\n      !Array.isArray(signature) || // varargs\n      signature.length === args.length\n      - 1 // correct param count\n    ));\n\n    let signatureContext: ParsingContext = (null: any);\n\n    for (const [params, evaluate] of overloads) {\n      // Use a fresh context for each attempted signature so that, if\n      // we eventually succeed, we haven't polluted `context.errors`.\n      signatureContext = new\n      ParsingContext(context.registry, context.path, null, context.scope);\n\n      // First parse all the args, potentially\n      // coercing to the\n      // types expected by this overload.\n      const parsedArgs: Array<Expression> = [];\n\n      let argParseFailed = false;\n      for (let i = 1; i < args.length; i++) {\n        const arg = args[i];\n\n        const expectedType = Array.isArray(params) ?\n          params[i - 1] :\n          params.type;\n\n        const parsed = signatureContext.parse(arg, 1 + parsedArgs.length, expectedType);\n        if (!parsed) {\n          argParseFailed = true;\n          break;\n        }\n        parsedArgs.push(parsed);\n      }\n\n      if (argParseFailed) {\n        // Couldn't coerce args of this overload to expected type, move\n        // on to next one.\n        continue;\n      }\n\n      if (Array.isArray(params)) {\n        if\n        (params.length !== parsedArgs.length) {\n          signatureContext.error(`Expected ${params.length}\narguments, but found ${parsedArgs.length} instead.`);\n          continue;\n        }\n      }\n\n      for\n      (let i = 0; i < parsedArgs.length; i++) {\n        const expected = Array.isArray(params) ? params[i] :\n        params.type;\n        const arg = parsedArgs[i];\n        signatureContext.concat(i +\n        1).checkSubtype(expected, arg.type);\n      }\n\n      if (signatureContext.errors.length === 0) {\n
```



```

GeoJSONPolygon | GeoJSONMultiPolygon;\n\n// minX, minY, maxX, maxY\ntype BBox = [number, number,
number, number];\nconst EXTENT = 8192;\n\nfunction updateBBox(bbox: BBox, coord: Point) {\n  bbox[0] =
Math.min(bbox[0], coord[0]);\n  bbox[1] = Math.min(bbox[1], coord[1]);\n  bbox[2] = Math.max(bbox[2],
coord[0]);\n  bbox[3] = Math.max(bbox[3], coord[1]);\n}\n\nfunction mercatorXfromLng(lng: number) {\n
return (180 + lng) / 360;\n}\n\nfunction mercatorYfromLat(lat: number) {\n  return (180 - (180 / Math.PI *
Math.log(Math.tan(Math.PI / 4 + lat * Math.PI / 360)))) / 360;\n}\n\nfunction boxWithinBox(bbox1: BBox, bbox2:
BBox) {\n  if (bbox1[0] <= bbox2[0]) return false;\n  if (bbox1[2] >= bbox2[2]) return false;\n  if (bbox1[1] <=
bbox2[1]) return false;\n  if (bbox1[3]
>= bbox2[3]) return false;\n  return true;\n}\n\nfunction getTileCoordinates(p, canonical: CanonicalTileID) {\n
const x = mercatorXfromLng(p[0]);\n  const y = mercatorYfromLat(p[1]);\n  const tilesAtZoom = Math.pow(2,
canonical.z);\n  return [Math.round(x * tilesAtZoom * EXTENT), Math.round(y * tilesAtZoom *
EXTENT)];\n}\n\nfunction onBoundary(p, p1, p2) {\n  const x1 = p[0] - p1[0];\n  const y1 = p[1] - p1[1];\n
const x2 = p[0] - p2[0];\n  const y2 = p[1] - p2[1];\n  return (x1 * y2 - x2 * y1 === 0) && (x1 * x2 <= 0) && (y1
* y2 <= 0);\n}\n\nfunction rayIntersect(p, p1, p2) {\n  return ((p[1] > p1[1]) !== (p2[1] > p1[1])) && (p[0] < (p2[0]
- p1[0]) * (p[1] - p1[1]) / (p2[1] - p1[1]) + p1[0]);\n}\n\n// ray casting algorithm for detecting if point is in
polygon\nfunction pointWithinPolygon(point, rings) {\n  let inside = false;\n  for (let i = 0, len = rings.length; i <
len; i++) {\n    const ring = rings[i];\n    for (let j = 0, len2 = ring.length; j
< len2 - 1; j++) {\n      if (onBoundary(point, ring[j], ring[j + 1])) return false;\n      if (rayIntersect(point,
ring[j], ring[j + 1])) inside = !inside;\n    }\n  }\n  return inside;\n}\n\nfunction pointWithinPolygons(point,
polygons) {\n  for (let i = 0; i < polygons.length; i++) {\n    if (pointWithinPolygon(point, polygons[i])) return
true;\n  }\n  return false;\n}\n\nfunction perp(v1, v2) {\n  return (v1[0] * v2[1] - v1[1] * v2[0]);\n}\n\n// check if
p1 and p2 are in different sides of line segment q1->q2\nfunction twoSided(p1, p2, q1, q2) {\n  // q1->p1 (x1, y1),
q1->p2 (x2, y2), q1->q2 (x3, y3)\n  const x1 = p1[0] - q1[0];\n  const y1 = p1[1] - q1[1];\n  const x2 = p2[0] -
q1[0];\n  const y2 = p2[1] - q1[1];\n  const x3 = q2[0] - q1[0];\n  const y3 = q2[1] - q1[1];\n  const det1 = (x1 *
y3 - x3 * y1);\n  const det2 = (x2 * y3 - x3 * y2);\n  if ((det1 > 0 && det2 < 0) || (det1 < 0 && det2 > 0)) return
true;\n  return false;\n}\n\n//
a, b are end points for line segment1, c and d are end points for line segment2\nfunction lineIntersectLine(a, b, c, d)
{\n  // check if two segments are parallel or not\n  // precondition is end point a, b is inside polygon, if line a->b
is\n  // parallel to polygon edge c->d, then a->b won't intersect with c->d\n  const vectorP = [b[0] - a[0], b[1] -
a[1]];\n  const vectorQ = [d[0] - c[0], d[1] - c[1]];\n  if (perp(vectorQ, vectorP) === 0) return false;\n  // If lines
are intersecting with each other, the relative location should be:\n  // a and b lie in different sides of segment c->d\n
// c and d lie in different sides of segment a->b\n  if (twoSided(a, b, c, d) && twoSided(c, d, a, b)) return true;\n
return false;\n}\n\nfunction lineIntersectPolygon(p1, p2, polygon) {\n  for (const ring of polygon) {\n    // loop
through every edge of the ring\n    for (let j = 0; j < ring.length - 1; ++j) {\n      if (lineIntersectLine(p1, p2,
ring[j], ring[j + 1])) {\n        return true;\n      }\n    }\n  }\n  return false;\n}\n\nfunction
lineStringWithinPolygon(line, polygon) {\n  // First, check if geometry points of line segments are all inside
polygon\n  for (let i = 0; i < line.length; ++i) {\n    if (!pointWithinPolygon(line[i], polygon)) {\n      return
false;\n    }\n  }\n  // Second, check if there is line segment intersecting polygon edge\n  for (let i = 0; i <
line.length - 1; ++i) {\n    if (lineIntersectPolygon(line[i], line[i + 1], polygon)) {\n      return false;\n    }\n
}\n  return true;\n}\n\nfunction lineStringWithinPolygons(line, polygons) {\n  for (let i = 0; i < polygons.length;
i++) {\n    if (lineStringWithinPolygon(line, polygons[i])) return true;\n  }\n  return false;\n}\n\nfunction
getTilePolygon(coordinates, bbox, canonical) {\n  const polygon = [];\n  for (let i = 0; i < coordinates.length; i++)
{\n    const ring
= [];\n    for (let j = 0; j < coordinates[i].length; j++) {\n      const coord =
getTileCoordinates(coordinates[i][j], canonical);\n      updateBBox(bbox, coord);\n      ring.push(coord);\n
}\n    polygon.push(ring);\n  }\n  return polygon;\n}\n\nfunction getTilePolygons(coordinates, bbox, canonical)
{\n  const polygons = [];\n  for (let i = 0; i < coordinates.length; i++) {\n    const polygon =
getTilePolygon(coordinates[i], bbox, canonical);\n    polygons.push(polygon);\n  }\n  return

```

```

polygons;\n}\n\nfunction updatePoint(p, bbox, polyBBox, worldSize) {\n  if (p[0] < polyBBox[0] || p[0] >
polyBBox[2]) {\n    const halfWorldSize = worldSize * 0.5;\n    let shift = (p[0] - polyBBox[0] >
halfWorldSize) ? -worldSize : (polyBBox[0] - p[0] > halfWorldSize) ? worldSize : 0;\n    if (shift === 0) {\n      shift = (p[0] - polyBBox[2] > halfWorldSize) ? -worldSize : (polyBBox[2] - p[0] > halfWorldSize) ? worldSize :
0;\n    }\n    p[0] += shift;\n  }\n  updateBBox(bbox, p);\n}\n\nfunction resetBBox(bbox) {\n  bbox[0] = bbox[1]
= Infinity;\n  bbox[2] = bbox[3] = -Infinity;\n}\n\nfunction getTilePoints(geometry, pointBBox, polyBBox,
canonical) {\n  const worldSize = Math.pow(2, canonical.z) * EXTENT;\n  const shifts = [canonical.x *
EXTENT, canonical.y * EXTENT];\n  const tilePoints = [];\n  for (const points of geometry) {\n    for (const
point of points) {\n      const p = [point.x + shifts[0], point.y + shifts[1]];\n      updatePoint(p, pointBBox,
polyBBox, worldSize);\n      tilePoints.push(p);\n    }\n  }\n  return tilePoints;\n}\n\nfunction
getTileLines(geometry, lineBBox, polyBBox, canonical) {\n  const worldSize = Math.pow(2, canonical.z) *
EXTENT;\n  const shifts = [canonical.x * EXTENT, canonical.y * EXTENT];\n  const tileLines = [];\n  for
(const line of geometry) {\n    const tileLine = [];\n    for (const point of line)
{\n      const p = [point.x + shifts[0], point.y + shifts[1]];\n      updateBBox(lineBBox, p);\n      tileLine.push(p);\n    }\n    tileLines.push(tileLine);\n  }\n  if (lineBBox[2] - lineBBox[0] <= worldSize / 2)
{\n    resetBBox(lineBBox);\n    for (const line of tileLines) {\n      for (const p of line) {\n
updatePoint(p, lineBBox, polyBBox, worldSize);\n      }\n    }\n  }\n  return tileLines;\n}\n\nfunction
pointsWithinPolygons(ctx: EvaluationContext, polygonGeometry: GeoJSONPolygons) {\n  const pointBBox =
[Infinity, Infinity, -Infinity, -Infinity];\n  const polyBBox = [Infinity, Infinity, -Infinity, -Infinity];\n  const
canonical = ctx.canonicalID();\n  if (polygonGeometry.type === 'Polygon') {\n    const tilePolygon =
getTilePolygon(polygonGeometry.coordinates, polyBBox, canonical);\n    const tilePoints =
getTilePoints(ctx.geometry(), pointBBox, polyBBox, canonical);\n    if (!boxWithinBox(pointBBox,
polyBBox)) return false;\n    for (const point of tilePoints) {\n      if (!pointWithinPolygon(point,
tilePolygon)) return false;\n    }\n  }\n  if (polygonGeometry.type === 'MultiPolygon') {\n    const
tilePolygons = getTilePolygons(polygonGeometry.coordinates, polyBBox, canonical);\n    const tilePoints =
getTilePoints(ctx.geometry(), pointBBox, polyBBox, canonical);\n    if (!boxWithinBox(pointBBox, polyBBox))
return false;\n    for (const point of tilePoints) {\n      if (!pointWithinPolygons(point, tilePolygons)) return
false;\n    }\n  }\n  return true;\n}\n\nfunction linesWithinPolygons(ctx: EvaluationContext,
polygonGeometry: GeoJSONPolygons) {\n  const lineBBox = [Infinity, Infinity, -Infinity, -Infinity];\n  const
polyBBox = [Infinity, Infinity, -Infinity, -Infinity];\n  const canonical = ctx.canonicalID();\n  if
(polygonGeometry.type === 'Polygon') {\n    const tilePolygon = getTilePolygon(polygonGeometry.coordinates,
polyBBox, canonical);\n    const tileLines = getTileLines(ctx.geometry(), lineBBox, polyBBox, canonical);\n
if (!boxWithinBox(lineBBox, polyBBox)) return false;\n    for (const line of tileLines) {\n      if
(!lineStringWithinPolygon(line, tilePolygon)) return false;\n    }\n  }\n  if (polygonGeometry.type ===
'MultiPolygon') {\n    const tilePolygons = getTilePolygons(polygonGeometry.coordinates, polyBBox,
canonical);\n    const tileLines = getTileLines(ctx.geometry(), lineBBox, polyBBox, canonical);\n    if
(!boxWithinBox(lineBBox, polyBBox)) return false;\n    for (const line of tileLines) {\n      if
(!lineStringWithinPolygons(line, tilePolygons)) return false;\n    }\n  }\n  return true;\n}\n\n\nclass Within
implements Expression {\n  type: Type;\n  geojson: GeoJSON\n  geometries: GeoJSONPolygons;\n\n  constructor(geojson: GeoJSON, geometries: GeoJSONPolygons) {\n    this.type
= BooleanType;\n    this.geojson = geojson;\n    this.geometries = geometries;\n  }\n\n  static parse(args:
$ReadOnlyArray<mixed>, context: ParsingContext) {\n    if (args.length !== 2)\n      return
context.error(`'within' expression requires exactly one argument, but found ${args.length - 1} instead.`);\n    if
(isValue(args[1])) {\n      const geojson = (args[1]: Object);\n      if (geojson.type === 'FeatureCollection')
{\n        for (let i = 0; i < geojson.features.length; ++i) {\n          const type =
geojson.features[i].geometry.type;\n          if (type === 'Polygon' || type === 'MultiPolygon') {\n
return new Within(geojson, geojson.features[i].geometry);\n          }\n        }\n      } else if

```



```

// The expected type of this expression. Provided only to allow Expression\n // implementations to infer
argument types: Expression#parse() need not\n // check that the output type of the parsed expression matches\n //
`expectedType`.\n expectedType: ?Type;\n\n constructor(\n registry: ExpressionRegistry,\n path:
Array<number> = [],\n expectedType: ?Type,\n scope: Scope = new Scope(),\n errors:
Array<ParsingError> = []\n ) {\n this.registry = registry;\n this.path = path;\n this.key =
path.map(part => `${part}`).join("");\n this.scope = scope;\n this.errors = errors;\n this.expectedType =
expectedType;\n }\n\n /**\n * @param expr the JSON expression to parse\n * @param index the optional
argument index if this expression is an argument of a parent expression that's being parsed\n * @param options\n
* @param options.omitTypeAnnotations set true to omit inferred
type annotations. Caller beware: with this option set, the parsed expression's type will NOT satisfy `expectedType`
if it would normally be wrapped in an inferred annotation.\n * @private\n */\n parse(\n expr: mixed,\n
index?: number,\n expectedType?: ?Type,\n bindings?: Array<[string, Expression]>,\n options:
{typeAnnotation?: 'assert' | 'coerce' | 'omit'} = {})\n ): ?Expression {\n if (index) {\n return
this.concat(index, expectedType, bindings)._parse(expr, options);\n }\n return this._parse(expr, options);\n
}\n\n _parse(expr: mixed, options: {typeAnnotation?: 'assert' | 'coerce' | 'omit'}): ?Expression {\n if (expr ===
null || typeof expr === 'string' || typeof expr === 'boolean' || typeof expr === 'number') {\n expr = ['literal',
expr];\n }\n\n function annotate(parsed, type, typeAnnotation: 'assert' | 'coerce' | 'omit') {\n if
(typeAnnotation
=== 'assert') {\n return new Assertion(type, [parsed]);\n } else if (typeAnnotation === 'coerce') {\n
return new Coercion(type, [parsed]);\n } else {\n return parsed;\n }\n }\n\n if
(Array.isArray(expr)) {\n if (expr.length === 0) {\n return this.error(`Expected an array with at least
one element. If you wanted a literal array, use [\"literal\", []].`);\n }\n\n const op = expr[0];\n if
(typeof op !== 'string') {\n this.error(`Expression name must be a string, but found ${typeof op} instead. If
you wanted a literal array, use [\"literal\", [...]].`, 0);\n return null;\n }\n\n const Expr =
this.registry[op];\n if (Expr) {\n let parsed = Expr.parse(expr, this);\n if (!parsed) return
null;\n\n if (this.expectedType) {\n
const expected = this.expectedType;\n const actual = parsed.type;\n\n // When we expect
a number, string, boolean, or array but have a value, wrap it in an assertion.\n // When we expect a color
or formatted string, but have a string or value, wrap it in a coercion.\n // Otherwise, we do static type-
checking.\n\n // These behaviors are overridable for:\n // * The \"coalesce\"
operator, which needs to omit type annotations.\n // * String-valued properties (e.g. `text-field`), where
coercion is more convenient than assertion.\n\n if ((expected.kind === 'string' ||
expected.kind === 'number' || expected.kind === 'boolean' || expected.kind === 'object' || expected.kind === 'array')
&& actual.kind === 'value') {\n parsed = annotate(parsed, expected, options.typeAnnotation
|| 'assert');\n } else if ((expected.kind === 'color' || expected.kind === 'formatted' || expected.kind ===
'resolvedImage') && (actual.kind === 'value' || actual.kind === 'string')) {\n parsed = annotate(parsed,
expected, options.typeAnnotation || 'coerce');\n } else if (this.checkSubtype(expected, actual)) {\n
return null;\n }\n }\n\n // If an expression's arguments are all literals, we can
evaluate\n // it immediately and replace it with a literal value in the\n // parsed/compiled result.
Expressions that expect an image should\n // not be resolved here so we can later get the available
images.\n\n if (!(parsed instanceof Literal) && (parsed.type.kind !== 'resolvedImage') &&
isConstant(parsed)) {\n const ec = new EvaluationContext();\n try {\n
parsed = new Literal(parsed.type, parsed.evaluate(ec));\n } catch (e) {\n
this.error(e.message);\n return null;\n }\n\n return parsed;\n
}\n\n return this.error(`Unknown expression \"${op}\". If you wanted a literal array, use [\"literal\", [...]].`,
0);\n } else if (typeof expr === 'undefined') {\n return this.error(`undefined` value invalid. Use null
instead.);\n } else if (typeof expr === 'object') {\n return this.error(`Bare objects invalid. Use [\"literal\",
{...}] instead.);\n } else {\n return this.error(`Expected an array, but found ${typeof expr} instead.);\n
}

```

```

    }
  }
  /**
   * Returns a copy of this context suitable for parsing the subexpression at `index`,
   optionally appending to 'let' binding map.
   * Note that `errors` property,
   intended for collecting errors while parsing, is copied by reference rather than cloned.
   @private
   */
  concat(index: number, expectedType?: Type, bindings?: Array<string, Expression>) {
    const path =
      typeof index === 'number' ? this.path.concat(index) : this.path;
    const scope = bindings ?
      this.scope.concat(bindings) : this.scope;
    return new ParsingContext(
      this.registry,
      path,
      expectedType || null,
      scope,
      this.errors
    );
  }
  /**
   * Push a parsing (or type
   checking) error into the `this.errors`
   @param error The message
   @param keys Optionally specify the
   source of the error at a child
   of the current expression at `this.key`.
   @private
   */
  error(error:
    string, ...keys: Array<number>) {
    const key = `${this.key}${keys.map(k => `[${k}]`).join("")}`;
    this.errors.push(new ParsingError(key,
      error));
  }
  /**
   * Returns null if `t` is a subtype of `expected`; otherwise returns an error message
   and also pushes it to `this.errors`.
   */
  checkSubtype(expected: Type, t: Type): ?string {
    const error =
      checkSubtype(expected, t);
    if (error) this.error(error);
    return error;
  }
}
export default
ParsingContext;
function isConstant(expression: Expression) {
  if (expression instanceof Var) {
    return
      isConstant(expression.boundExpression);
  } else if (expression instanceof CompoundExpression &&
    expression.name === 'error') {
    return false;
  } else if (expression instanceof CollatorExpression) {
    //
    Although the results of a Collator expression with fixed arguments
    // generally shouldn't change between
    executions, we can't serialize them
    // as constant expressions because results change based on environment.
    return false;
  } else if (expression instanceof
    Within) {
    return false;
  }
  const isTypeAnnotation = expression instanceof Coercion ||
    expression instanceof Assertion;
  let childrenConstant = true;
  expression.eachChild(child => {
    // We
    can _almost_ assume that if `expressions` children are constant,
    // they would already have been evaluated to
    Literal values when they
    // were parsed. Type annotations are the exception, because they might
    // have
    been inferred and added after a child was parsed.
    // So we recurse into isConstant() for the children of type
    annotations,
    // but otherwise simply check whether they are Literals.
    if (isTypeAnnotation) {
      childrenConstant = childrenConstant && isConstant(child);
    } else {
      childrenConstant =
        childrenConstant && child instanceof Literal;
    }
  });
  if (!childrenConstant) {
    return false;
  }
  return isFeatureConstant(expression)
    && isGlobalPropertyConstant(expression, ['zoom', 'heatmap-density', 'line-progress', 'accumulated', 'is-supported-script']);
}
"/ @flow
import RuntimeError from './runtime_error';
import type {Expression}
from './expression';
export type Stops = Array<number, Expression>;
/**
 * Returns the index of the last
 stop <= input, or 0 if it doesn't exist.
 @private
 */
export function findStopLessThanOrEqualTo(stops:
Array<number>, input: number) {
  const lastIndex = stops.length - 1;
  let lowerIndex = 0;
  let upperIndex
= lastIndex;
  let currentIndex = 0;
  let currentValue, nextValue;
  while (lowerIndex <= upperIndex) {
    currentIndex = Math.floor((lowerIndex + upperIndex) / 2);
    currentValue = stops[currentIndex];
    nextValue = stops[currentIndex + 1];
    if (currentValue <= input) {
      if (currentIndex === lastIndex ||
input < nextValue) { // Search complete
        return currentIndex;
      }
      lowerIndex = currentIndex + 1;
    } else if (currentValue > input) {
      upperIndex =
currentIndex - 1;
    } else {
      throw new RuntimeError('Input is not a number.');
```

```

        this.labels.push(label);\n        this.outputs.push(expression);\n    }\n    }\n\n    static parse(args:\n    $ReadOnlyArray<mixed>, context: ParsingContext) {\n        if (args.length - 1 < 4) {\n            return\n            context.error(`Expected at least 4 arguments, but found only ${args.length - 1}.`);\n        }\n\n        if ((args.length -\n        1) % 2 !== 0) {\n            return context.error(`Expected an even number of arguments.`);\n        }\n\n        const input\n        = context.parse(args[1], 1, NumberType);\n        if (!input) return null;\n\n        const stops: Stops = [];\n\n        let\n        outputType: Type = (null: any);\n        if (context.expectedType && context.expectedType.kind !== 'value') {\n            outputType = context.expectedType;\n        }\n\n        for (let i = 1; i < args.length; i += 2) {\n            const label = i\n            === 1 ? -Infinity : args[i];\n            const value = args[i + 1];\n            const labelKey = i;\n            const valueKey\n            = i + 1;\n\n            if (typeof label !== 'number') {\n                return context.error("Input/output pairs for \"step\" expressions\n                must be defined using literal numeric values (not computed expressions) for the input values.", labelKey);\n            }\n\n            if (stops.length && stops[stops.length - 1][0] >= label) {\n                return context.error("Input/output\n                pairs for \"step\" expressions must be arranged with input values in strictly ascending order.", labelKey);\n            }\n\n            const parsed = context.parse(value, valueKey, outputType);\n            if (!parsed) return null;\n\n            outputType = outputType || parsed.type;\n            stops.push([label, parsed]);\n        }\n\n        return new\n        Step(outputType, input, stops);\n    }\n\n    evaluate(ctx: EvaluationContext) {\n        const labels = this.labels;\n        const outputs = this.outputs;\n\n        if (labels.length === 1) {\n            return outputs[0].evaluate(ctx);\n        }\n\n        const value = ((this.input.evaluate(ctx): any): number);\n        if (value <= labels[0]) {\n            return\n            outputs[0].evaluate(ctx);\n        }\n\n        const stopCount = labels.length;\n        if (value >= labels[stopCount - 1])\n        {\n            return outputs[stopCount - 1].evaluate(ctx);\n        }\n\n        const index =\n        findStopLessThanOrEqualTo(labels, value);\n        return outputs[index].evaluate(ctx);\n    }\n\n    eachChild(fn: (_:\n    Expression) => void) {\n        fn(this.input);\n        for (const expression of this.outputs) {\n            fn(expression);\n        }\n    }\n\n    outputDefined(): boolean {\n        return this.outputs.every(out => out.outputDefined());\n    }\n\n    serialize() {\n        const serialized = ["step", this.input.serialize()];\n        for (let i = 0; i < this.labels.length; i++)\n        {\n            if (i > 0) {\n                serialized.push(this.labels[i]);\n            }\n\n            serialized.push(this.outputs[i].serialize());\n        }\n\n        return serialized;\n    }\n}\n\nexport default Step;\n"/**\n * Copyright (C) 2008 Apple Inc. All Rights\n * Reserved.\n * Redistribution and use in source and binary forms, with or without\n * modification, are permitted\n * provided that the following conditions\n * are met:\n * 1. Redistributions of source code must retain the above\n * copyright\n * notice, this list of conditions and the following disclaimer.\n * 2. Redistributions in binary form\n * must reproduce the above copyright\n * notice, this list of conditions and the following disclaimer in the\n * documentation and/or other materials provided with the distribution.\n * THIS SOFTWARE IS PROVIDED BY\n * APPLE INC. ``AS IS" AND ANY\n * EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT\n * LIMITED TO, THE\n * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A\n * PARTICULAR\n * PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL APPLE INC. OR\n * CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,\n * EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,\n * PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR\n * PROFITS; OR\n * BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY\n * OF LIABILITY, WHETHER\n * IN CONTRACT, STRICT LIABILITY, OR TORT\n * (INCLUDING NEGLIGENCE OR OTHERWISE)\n * ARISING IN ANY WAY OUT OF THE USE\n * OF THIS SOFTWARE, EVEN IF ADVISED OF THE\n * POSSIBILITY OF SUCH DAMAGE.\n * Ported from Webkit\n * http://svn.webkit.org/repository/webkit/trunk/Source/WebCore/platform/graphics/UnitBezier.h\n */\nmodule.exports = UnitBezier;\nfunction UnitBezier(p1x, p1y, p2x, p2y) {\n    // Calculate the polynomial\n    coefficients, implicit first and last control points are (0,0) and (1,1).\n    this.cx = 3.0 * p1x;\n    this.bx = 3.0 * (p2x -\n    p1x) - this.cx;\n    this.ax = 1.0 - this.cx - this.bx;\n\n    this.cy = 3.0 * p1y;\n    this.by = 3.0 * (p2y - p1y) - this.cy;\n    this.ay = 1.0 - this.cy - this.by;\n\n    this.p1x = p1x;\n    this.p1y

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= p2y;\n this.p2x = p2x;\n this.p2y = p2y;\n}\n\nUnitBezier.prototype.sampleCurveX = function(t) {\n // `ax
t^3 + bx t^2 + cx t' expanded using Horner's rule.\n return ((this.ax * t + this.bx) * t + this.cx) *
t;\n};\n\nUnitBezier.prototype.sampleCurveY = function(t) {\n return ((this.ay * t + this.by) * t + this.cy) *
t;\n};\n\nUnitBezier.prototype.sampleCurveDerivativeX = function(t) {\n return (3.0 * this.ax * t + 2.0 * this.bx) *
t + this.cx;\n};\n\nUnitBezier.prototype.solveCurveX = function(x, epsilon) {\n if (typeof epsilon === 'undefined')
epsilon = 1e-6;\n var t0, t1, t2, x2, i;\n // First try a few iterations of Newton's method -- normally very fast.\n for (t2 = x, i = 0; i < 8; i++) {\n x2 = this.sampleCurveX(t2) - x;\n if (Math.abs(x2) < epsilon) return
t2;\n var d2 = this.sampleCurveDerivativeX(t2);\n if (Math.abs(d2) < 1e-6) break;\n t2 = t2 - x2 /
d2;\n }\n // Fall back to the bisection method
for reliability.\n t0 = 0.0;\n t1 = 1.0;\n t2 = x;\n if (t2 < t0) return t0;\n if (t2 > t1) return t1;\n while
(t0 < t1) {\n x2 = this.sampleCurveX(t2);\n if (Math.abs(x2 - x) < epsilon) return t2;\n if (x > x2)
{\n t0 = t2;\n } else {\n t1 = t2;\n }\n t2 = (t1 + t0) * 0.5 + t0;\n }\n // Failure.\n return t2;\n};\n\nUnitBezier.prototype.solve = function(x, epsilon) {\n return
this.sampleCurveY(this.solveCurveX(x, epsilon));\n};\n\n", "// @flow\n\nimport Color from './color';\n\nexport
function number(a: number, b: number, t: number) {\n return (a * (1 - t) + (b * t));\n}\n\nexport function
color(from: Color, to: Color, t: number) {\n return new Color(\n number(from.r, to.r, t),\n number(from.g,
to.g, t),\n number(from.b, to.b, t),\n number(from.a, to.a, t)\n );\n}\n\nexport function array(from:
Array<number>, to: Array<number>, t: number): Array<number>
{\n return from.map((d, i) => {\n return number(d, to[i], t);\n });\n};\n\n", "// @flow\n\nimport Color from
'./color';\n\nimport {number as interpolateNumber} from './interpolate';\n\n\ntype LABColor = {\n l: number,\n a:
number,\n b: number,\n alpha: number\n};\n\ntype HCLColor = {\n h: number,\n c: number,\n l: number,\n
alpha: number\n};\n\n// Constants\nconst Xn = 0.950470, // D65 standard referent\n Yn = 1,\n Zn =
1.088830,\n t0 = 4 / 29,\n t1 = 6 / 29,\n t2 = 3 * t1 * t1,\n t3 = t1 * t1 * t1,\n deg2rad = Math.PI / 180,\n
rad2deg = 180 / Math.PI;\n\n// Utilities\nfunction xyz2lab(t: number) {\n return t > t3 ? Math.pow(t, 1 / 3) : t / t2 +
t0;\n}\n\nfunction lab2xyz(t: number) {\n return t > t1 ? t * t * t : t2 * (t - t0);\n}\n\nfunction xyz2rgb(x: number)
{\n return 255 * (x <= 0.0031308 ? 12.92 * x : 1.055 * Math.pow(x, 1 / 2.4) - 0.055);\n}\n\nfunction rgb2xyz(x:
number) {\n x /= 255;\n return x <=
0.04045 ? x / 12.92 : Math.pow((x + 0.055) / 1.055, 2.4);\n}\n\n// LAB\nfunction rgbToLab(rgbColor: Color):
LABColor {\n const b = rgb2xyz(rgbColor.r),\n a = rgb2xyz(rgbColor.g),\n l = rgb2xyz(rgbColor.b),\n
x = xyz2lab((0.4124564 * b + 0.3575761 * a + 0.1804375 * l) / Xn),\n y = xyz2lab((0.2126729 * b +
0.7151522 * a + 0.0721750 * l) / Yn),\n z = xyz2lab((0.0193339 * b + 0.1191920 * a + 0.9503041 * l) /
Zn);\n\n return {\n l: 116 * y - 16,\n a: 500 * (x - y),\n b: 200 * (y - z),\n alpha: rgbColor.a\n
};\n}\n\nfunction labToRgb(labColor: LABColor): Color {\n let y = (labColor.l + 16) / 116,\n x =
isNaN(labColor.a) ? y : y + labColor.a / 500,\n z = isNaN(labColor.b) ? y : y - labColor.b / 200;\n y = Yn *
lab2xyz(y);\n x = Xn * lab2xyz(x);\n z = Zn * lab2xyz(z);\n return new Color(\n xyz2rgb(3.2404542 * x -
1.5371385 * y - 0.4985314 * z), // D65 -> sRGB\n xyz2rgb(-0.9692660
* x + 1.8760108 * y + 0.0415560 * z),\n xyz2rgb(0.0556434 * x - 0.2040259 * y + 1.0572252 * z),\n
labColor.alpha\n );\n}\n\n// HCL\nfunction rgbToHcl(rgbColor:
Color): HCLColor {\n const {l, a, b} = rgbToLab(rgbColor);\n const h = Math.atan2(b, a) * rad2deg;\n return
{\n h: h < 0 ? h + 360 : h,\n c: Math.sqrt(a * a + b * b),\n l,\n alpha: rgbColor.a\n
};\n}\n\nfunction hclToRgb(hclColor: HCLColor): Color {\n const h = hclColor.h * deg2rad,\n c =
hclColor.c,\n l = hclColor.l;\n return labToRgb({\n l,\n a: Math.cos(h) * c,\n b: Math.sin(h) * c,\n
alpha: hclColor.alpha\n });\n}\n\nfunction
interpolateHue(a: number, b: number, t: number) {\n const d = b - a;\n return a + t * (d > 180 || d < -180 ? d -
360 * Math.round(d / 360) : d);\n}\n\nfunction interpolateHcl(from: HCLColor, to: HCLColor, t: number) {\n
return {\n h: interpolateHue(from.h, to.h, t),\n c: interpolateNumber(from.c, to.c, t),\n l:

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interpolateNumber(from.l, to.l, t),\n    alpha: interpolateNumber(from.alpha, to.alpha, t)\n  };\n}\n\nexport const
lab = {\n  forward: rgbToLab,\n  reverse: labToRgb,\n  interpolate: interpolateLab\n};\n\nexport const hcl = {\n
forward: rgbToHcl,\n  reverse: hclToRgb,\n  interpolate: interpolateHcl\n};\n\n", "// @flow\n\nimport UnitBezier
from '@mapbox/unitbezier';\n\nimport * as interpolate from '../util/interpolate';\n\nimport {toString, NumberType,
ColorType} from './types';\n\nimport {findStopLessThanOrEqualTo} from './stops';\n\nimport {hcl, lab} from
'../util/color_spaces';\n\nimport type {Stops} from './stops';\n\nimport type
{Expression} from './expression';\n\nimport type ParsingContext from './parsing_context';\n\nimport type
EvaluationContext from './evaluation_context';\n\nimport type {Type} from './types';\n\n\nexport type
InterpolationType =\n  { name: 'linear' } |\n  { name: 'exponential', base: number } |\n  { name: 'cubic-bezier',
controlPoints: [number, number, number, number] };\n\n\nclass Interpolate implements Expression {\n  type:
Type;\n\n  operator: 'interpolate' | 'interpolate-hcl' | 'interpolate-lab';\n  interpolation: InterpolationType;\n  input:
Expression;\n  labels: Array<number>;\n  outputs: Array<Expression>;\n\n  constructor(type: Type, operator:
'interpolate' | 'interpolate-hcl' | 'interpolate-lab', interpolation: InterpolationType, input: Expression, stops: Stops) {\n
  this.type = type;\n  this.operator = operator;\n  this.interpolation = interpolation;\n  this.input =
input;\n\n  this.labels = [];\n  this.outputs = [];\n\n  for (const [label, expression] of stops) {\n    this.labels.push(label);\n    this.outputs.push(expression);\n
  }\n}\n\n  static interpolationFactor(interpolation: InterpolationType, input: number, lower: number, upper:
number) {\n  let t = 0;\n  if (interpolation.name === 'exponential') {\n    t =
exponentialInterpolation(input, interpolation.base, lower, upper);\n  } else if (interpolation.name === 'linear') {\n
t = exponentialInterpolation(input, 1, lower, upper);\n  } else if (interpolation.name === 'cubic-bezier') {\n
const c = interpolation.controlPoints;\n    const ub = new UnitBezier(c[0], c[1], c[2], c[3]);\n    t =
ub.solve(exponentialInterpolation(input, 1, lower, upper));\n  }\n  return t;\n}\n\n  static parse(args:
$ReadOnlyArray<mixed>, context: ParsingContext) {\n  let [operator, interpolation, input, ...rest] = args;\n\n  if (!Array.isArray(interpolation)
|| interpolation.length === 0) {\n    return context.error(`Expected an interpolation type expression.`, 1);\n  }\n\n  if (interpolation[0] === 'linear') {\n    interpolation = {name: 'linear'};\n  } else if (interpolation[0]
=== 'exponential') {\n    const base = interpolation[1];\n    if (typeof base !== 'number')\n      return
context.error(`Exponential interpolation requires a numeric base.`, 1, 1);\n    interpolation = {\n      name:
'exponential',\n      base\n    }; \n  } else if (interpolation[0] === 'cubic-bezier') {\n    const
controlPoints = interpolation.slice(1);\n    if (\n      controlPoints.length !== 4 ||\n      controlPoints.some(t => typeof t !== 'number' || t < 0 || t > 1)\n    ) {\n      return context.error(`Cubic
bezier interpolation requires four numeric arguments with values between 0 and 1.`,
1);\n    }\n    interpolation = {\n      name: 'cubic-bezier',\n      controlPoints: (controlPoints:
any)\n    }; \n  } else {\n    return context.error(`Unknown interpolation type
${String(interpolation[0])}`, 1, 0);\n  }\n\n  if (args.length - 1 < 4) {\n    return context.error(`Expected
at least 4 arguments, but found only ${args.length - 1}.`);\n  }\n\n  if ((args.length - 1) % 2 !== 0) {\n
return context.error(`Expected an even number of arguments.`);\n  }\n\n  input = context.parse(input, 2,
NumberType);\n  if (!input) return null;\n\n  const stops: Stops = [];\n\n  let outputType: Type = (null:
any);\n  if (operator === 'interpolate-hcl' || operator === 'interpolate-lab') {\n    outputType = ColorType;\n  }
else if (context.expectedType && context.expectedType.kind !== 'value') {\n    outputType =
context.expectedType;\n  }\n\n  for (let i = 0; i < rest.length; i += 2) {\n    const label = rest[i];\n    const value = rest[i +
1];\n\n    const labelKey = i + 3;\n    const valueKey = i + 4;\n\n    if (typeof label !== 'number') {\n
return context.error(`Input/output pairs for "${interpolate}" expressions must be defined using literal numeric
values (not computed expressions) for the input values.`, labelKey);\n    }\n\n    if (stops.length &&
stops[stops.length - 1][0] >= label) {\n      return context.error(`Input/output pairs for "${interpolate}"
expressions must be arranged with input values in strictly ascending order.`, labelKey);\n    }\n\n    const
parsed = context.parse(value, valueKey, outputType);\n    if (!parsed) return null;\n    outputType =

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outputType || parsed.type;\n      stops.push([label, parsed]);\n    }\n    if (outputType.kind !== 'number' &&\n      outputType.kind !== 'color' &&\n        !(\n          outputType.kind === 'array' &&\n            outputType.itemType.kind === 'number' &&\n              typeof outputType.N === 'number'\n        )) {\n      return context.error(`Type ${toString(outputType)} is not interpolatable.`);\n    }\n    return new Interpolate(outputType, (operator: any), interpolation, input, stops);\n  }\n  evaluate(ctx: EvaluationContext) {\n    const labels = this.labels;\n    const outputs = this.outputs;\n    if (labels.length === 1) {\n      return outputs[0].evaluate(ctx);\n    }\n    const value = ((this.input.evaluate(ctx): any): number);\n    if (value <= labels[0]) {\n      return outputs[0].evaluate(ctx);\n    }\n    const stopCount = labels.length;\n    if (value >= labels[stopCount - 1]) {\n      return outputs[stopCount - 1].evaluate(ctx);\n    }\n    const index = findStopLessThanOrEqualTo(labels, value);\n    const lower = labels[index];\n    const upper = labels[index + 1];\n    const t = Interpolate.interpolationFactor(this.interpolation, value, lower, upper);\n    const outputLower = outputs[index].evaluate(ctx);\n    const outputUpper = outputs[index + 1].evaluate(ctx);\n    if (this.operator === 'interpolate') {\n      return (interpolate[this.type.kind.toLowerCase()]: any)(outputLower, outputUpper, t); // eslint-disable-line import/namespace\n    } else if (this.operator === 'interpolate-hcl') {\n      return hcl.reverse(hcl.interpolate(hcl.forward(outputLower), hcl.forward(outputUpper), t));\n    } else {\n      return lab.reverse(lab.interpolate(lab.forward(outputLower), lab.forward(outputUpper), t));\n    }\n  }\n  eachChild(fn: (_: Expression) => void) {\n    fn(this.input);\n    for (const expression of this.outputs) {\n      fn(expression);\n    }\n  }\n  outputDefined(): boolean {\n    return this.outputs.every(out => out.outputDefined());\n  }\n  serialize(): Array<mixed> {\n    let interpolation;\n    if (this.interpolation.name === 'linear') {\n      interpolation = ["linear"];\n    } else if (this.interpolation.name === 'exponential') {\n      if (this.interpolation.base === 1) {\n        interpolation = ["linear"];\n      } else {\n        interpolation = ["exponential", this.interpolation.base];\n      }\n    } else {\n      interpolation = ["cubic-bezier",\n        ].concat(this.interpolation.controlPoints);\n    }\n    const serialized = [this.operator, interpolation, this.input.serialize()];\n    for (let i = 0; i < this.labels.length; i++) {\n      serialized.push(\n        this.labels[i],\n        this.outputs[i].serialize()\n      );\n    }\n    return serialized;\n  }\n}

```

#### Returns

a ratio that can be used to interpolate between exponential function  $a * \text{base}^x + b$ . How it works: Two consecutive stop values define a (scaled and shifted) exponential function  $f(x) = a * \text{base}^x + b$ , where `base` is the user-specified base, `a` and `b` are constants affording sufficient degrees of freedom to fit the function to the given stops. Here's a bit of algebra that lets us compute  $f(x)$  directly from the stop values without explicitly solving for `a` and `b`:

First stop value:  $f(x_0) = y_0 = a * \text{base}^{x_0} + b$

Second stop value:  $f(x_1) = y_1 = a * \text{base}^{x_1} + b \Rightarrow y_1 - y_0 = a(\text{base}^{x_1} - \text{base}^{x_0}) \Rightarrow a = (y_1 - y_0) / (\text{base}^{x_1} - \text{base}^{x_0})$

Desired value:  $f(x) = y = a * \text{base}^x + b \Rightarrow f(x) = y_0 + a * (\text{base}^x - \text{base}^{x_0})$

From the above, we can replace the `a` in  $a * (\text{base}^x - \text{base}^{x_0})$  and do a little algebra:

$$a * (\text{base}^x - \text{base}^{x_0}) = (y_1 - y_0) / (\text{base}^{x_1} - \text{base}^{x_0}) * (\text{base}^x - \text{base}^{x_0})$$

$= (y_1 - y_0) * (\text{base}^x - \text{base}^{x_0}) / (\text{base}^{x_1} - \text{base}^{x_0})$

If we let  $\text{ratio} = (\text{base}^x - \text{base}^{x_0}) / (\text{base}^{x_1} - \text{base}^{x_0})$ , then we have  $f(x) = y_0 + (y_1 - y_0) * \text{ratio}$ . In other words, `ratio` may be treated as an interpolation factor between the two stops' output values. (Note: a slightly different form for `ratio`,  $(\text{base}^{(x-x_0)} - 1) / (\text{base}^{(x_1-x_0)} - 1)$ , is equivalent, but requires fewer expensive `Math.pow()` operations.)

```

@private
function exponentialInterpolation(input, base, lowerValue, upperValue) {\n  const difference = upperValue - lowerValue;\n  const progress = input - lowerValue;\n  if (difference === 0) {\n    return 0;\n  } else if (base === 1) {\n    return progress / difference;\n  } else {\n    return (Math.pow(base, progress) - 1) / (Math.pow(base, difference) - 1);\n  }\n}\nexport default Interpolate;\n" // @flow\nimport assert from 'assert';\nimport {checkSubtype, ValueType} from './types';\nimport

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ResolvedImage from './types/resolved_image';\nimport type {Expression} from './expression';\nimport type ParsingContext from './parsing_context';\nimport type EvaluationContext from './evaluation_context';\nimport type

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{Type} from './types';\n\nclass Coalesce implements Expression {\n  type: Type;\n  args: Array<Expression>;\n\n  constructor(type: Type, args: Array<Expression>) {\n    this.type = type;\n    this.args = args;\n  }\n\n  static\n  parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n    if (args.length < 2) {\n      return\n      context.error(`Expected at least one argument.`);\n    }\n    let outputType: Type = (null: any);\n    const\n    expectedType = context.expectedType;\n    if (expectedType && expectedType.kind !== 'value') {\n      outputType = expectedType;\n    }\n    const parsedArgs = [];\n    for (const arg of args.slice(1)) {\n      const parsed = context.parse(arg, 1 +\n      parsedArgs.length, outputType, undefined, {typeAnnotation: 'omit'});\n      if (!parsed) return null;\n      outputType = outputType || parsed.type;\n      parsedArgs.push(parsed);\n    }\n    assert(outputType);\n\n    // Above, we parse arguments without inferred type annotation so that\n    // they don't produce a runtime error\n    for `null` input, which would\n    // preempt the desired null-coalescing behavior.\n    // Thus, if any of our\n    arguments would have needed an annotation, we\n    // need to wrap the enclosing coalesce expression with it\n    instead.\n    const needsAnnotation = expectedType &&\n    parsedArgs.some(arg =>\n    checkSubtype(expectedType, arg.type));\n    return needsAnnotation ?\n    new Coalesce(ValueType,\n    parsedArgs) :\n    new Coalesce((outputType: any), parsedArgs);\n  }\n\n  evaluate(ctx: EvaluationContext)\n  {\n    let result = null;\n    let argCount = 0;\n    let requestedImageName;\n\n    for (const arg of this.args) {\n      argCount++;\n      result = arg.evaluate(ctx);\n      // we need to\n      keep track of the first requested image in a coalesce statement\n      // if coalesce can't find a valid image, we\n      return the first image name so styleimagemissing can fire\n      if (result && result instanceof ResolvedImage\n      && !result.available) {\n        if (!requestedImageName) {\n          requestedImageName = result.name;\n        }\n        result = null;\n        if (argCount === this.args.length) {\n          result =\n          requestedImageName;\n        }\n        if (result !== null) break;\n      }\n      return result;\n    }\n\n    eachChild(fn: (_: Expression) => void) {\n      this.args.forEach(fn);\n    }\n\n    outputDefined(): boolean\n    {\n      return this.args.every(arg => arg.outputDefined());\n    }\n\n    serialize() {\n      const serialized = [\"coalesce\"];\n      this.eachChild(child => { serialized.push(child.serialize()); });\n      return\n      serialized;\n    }\n  }\n}\n\nexport default Coalesce;\n", \"// @flow\n\nimport type {Type} from './types';\nimport type\n{Expression} from './expression';\nimport type ParsingContext from './parsing_context';\nimport type\nEvaluationContext from './evaluation_context';\n\nclass Let implements Expression {\n  type: Type;\n  bindings:\n  Array<[string, Expression]>;\n  result: Expression;\n\n  constructor(bindings: Array<[string, Expression]>, result:\n  Expression) {\n    this.type = result.type;\n    this.bindings = [].concat(bindings);\n    this.result = result;\n  }\n\n  evaluate(ctx: EvaluationContext) {\n    return this.result.evaluate(ctx);\n  }\n\n  eachChild(fn: (_:\n  Expression) => void) {\n    for (const binding of this.bindings) {\n      fn(binding[1]);\n    }\n\n    fn(this.result);\n  }\n\n  static parse(args:\n  $ReadOnlyArray<mixed>, context: ParsingContext) {\n    if (args.length < 4)\n      return\n      context.error(`Expected at least 3 arguments, but found ${args.length - 1} instead.`);\n    const bindings:\n    Array<[string, Expression]> = [];\n    for (let i = 1; i < args.length - 1; i += 2) {\n      const name = args[i];\n      if (typeof name !== 'string') {\n        return context.error(`Expected string, but found ${typeof name}\n        instead.`);\n      }\n      if (/^[a-zA-Z0-9_]/.test(name)) {\n        return context.error(`Variable names\n        must contain only alphanumeric characters or '_'`);\n      }\n      const value = context.parse(args[i + 1], i\n      + 1);\n      if (!value) return null;\n      bindings.push([name, value]);\n    }\n\n    const result =\n    context.parse(args[args.length - 1], args.length - 1, context.expectedType, bindings);\n    if (!result) return\n    null;\n\n    return new\n    Let(bindings, result);\n  }\n\n  outputDefined() {\n    return this.result.outputDefined();\n  }\n\n  serialize()\n  {\n    const serialized = [\"let\"];\n    for (const [name, expr] of this.bindings) {\n      serialized.push(name,\n      expr.serialize());\n    }\n    serialized.push(this.result.serialize());\n    return serialized;\n  }\n}\n\nexport\n  default Let;\n", \"// @flow\n\nimport {array, ValueType, NumberType} from './types';\nimport RuntimeError from\n  './runtime_error';\nimport type {Expression} from './expression';\nimport type ParsingContext from\n  './parsing_context';\nimport type EvaluationContext from './evaluation_context';\nimport type {Type, ArrayType}

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from './types';\nimport type {Value} from './values';\n\nclass At implements Expression {\n  type: Type;\n  index: Expression;\n  input: Expression;\n\n  constructor(type: Type, index: Expression, input: Expression) {\n    this.type = type;\n    this.index = index;\n\n    this.input = input;\n  }\n\n  static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n    if (args.length !== 3)\n      return context.error(`Expected 2 arguments, but found ${args.length - 1} instead.`);\n\n    const index = context.parse(args[1], 1, NumberType);\n    const input = context.parse(args[2], 2,\narray(context.expectedType || ValueType));\n\n    if (!index || !input) return null;\n\n    const t: ArrayType =\n(input.type: any);\n    return new At(t.itemType, index, input);\n  }\n\n  evaluate(ctx: EvaluationContext) {\n    const index = ((this.index.evaluate(ctx): any): number);\n    const array = ((this.input.evaluate(ctx): any):\nArray<Value>);\n\n    if (index < 0) {\n      throw new RuntimeError(`Array index out of bounds: ${index} <\n0.`);\n    }\n\n    if (index >= array.length) {\n      throw new RuntimeError(`Array index out of bounds:\n${index} > ${array.length - 1}.`);\n    }\n\n    if (index !== Math.floor(index)) {\n      throw new RuntimeError(`Array index must be an integer, but\nfound ${index} instead.`);\n    }\n\n    return array[index];\n  }\n\n  eachChild(fn: (_: Expression) => void)\n{\n  fn(this.index);\n  fn(this.input);\n}\n\n  outputDefined() {\n    return false;\n  }\n\n  serialize()\n{\n  return ["at", this.index.serialize(), this.input.serialize()];\n}\n}\n\nexport default At;\n"}\n\n@flow\n\nimport {BooleanType, StringType, ValueType, NullType, toString, NumberType, isValidType,\nisValidNativeType} from './types';\nimport RuntimeError from './runtime_error';\nimport {typeOf} from\n './values';\nimport type {Expression} from './expression';\nimport type ParsingContext from\n './parsing_context';\nimport type EvaluationContext from './evaluation_context';\nimport type {Type} from\n './types';\n\nclass In implements Expression {\n  type: Type;\n  needle: Expression;\n  haystack:\nExpression;\n\n  constructor(needle: Expression, haystack: Expression) {\n    this.type = BooleanType;\n    this.needle = needle;\n    this.haystack = haystack;\n  }\n\n  static parse(args: $ReadOnlyArray<mixed>,\ncontext: ParsingContext) {\n    if (args.length !== 3) {\n      return context.error(`Expected 2 arguments, but\nfound ${args.length - 1} instead.`);\n    }\n\n    const needle = context.parse(args[1], 1, ValueType);\n\n    const haystack = context.parse(args[2], 2, ValueType);\n\n    if (!needle || !haystack) return null;\n\n    if (!isValidType(needle.type, [BooleanType, StringType, NumberType, NullType, ValueType])) {\n      return\ncontext.error(`Expected first argument to be of type boolean, string, number or null, but found\n${toString(needle.type)} instead.`);\n    }\n\n    return new In(needle, haystack);\n  }\n\n  evaluate(ctx:\nEvaluationContext) {\n    const needle = (this.needle.evaluate(ctx): any);\n\n    const haystack = (this.haystack.evaluate(ctx): any);\n\n    if (!haystack) return false;\n\n    if (!isValidNativeType(needle, ['boolean', 'string', 'number', 'null'])) {\n      throw new RuntimeError(`Expected\nfirst argument to be of type boolean, string, number or null, but found ${toString(typeOf(needle))}\ninstead.`);\n    }\n\n    if (!isValidNativeType(haystack, ['string', 'array'])) {\n      throw new RuntimeError(`Expected second\nargument to be of type array or string, but found ${toString(typeOf(haystack))}\ninstead.`);\n    }\n\n    return\nhaystack.indexOf(needle) >= 0;\n  }\n\n  eachChild(fn: (_: Expression) => void) {\n    fn(this.needle);\n    fn(this.haystack);\n  }\n\n  outputDefined() {\n    return true;\n  }\n\n  serialize() {\n    return ["in",\nthis.needle.serialize(), this.haystack.serialize()];\n  }\n}\n\nexport default In;\n"}\n\n@flow\n\nimport\n{BooleanType, StringType, ValueType, NullType,\ntoString, NumberType, isValidType, isValidNativeType} from './types';\nimport RuntimeError from\n './runtime_error';\nimport {typeOf} from './values';\n\nimport type {Expression} from './expression';\nimport type\nParsingContext from './parsing_context';\nimport type EvaluationContext from './evaluation_context';\nimport type\n{Type} from './types';\n\nclass IndexOf implements Expression {\n  type: Type;\n  needle: Expression;\n  haystack: Expression;\n  fromIndex: ?Expression;\n\n  constructor(needle: Expression, haystack: Expression,\nfromIndex?: Expression) {\n    this.type = NumberType;\n    this.needle = needle;\n    this.haystack =\nhaystack;\n    this.fromIndex = fromIndex;\n  }\n\n  static parse(args: $ReadOnlyArray<mixed>, context:\nParsingContext) {\n    if (args.length <= 2 || args.length >= 5) {\n      return context.error(`Expected 3 or 4\narguments, but found ${args.length - 1} instead.`);\n    }\n\n    const needle = context.parse(args[1],

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1, ValueType);\n\n    const haystack = context.parse(args[2], 2, ValueType);\n\n    if (!needle || !haystack)
return null;\n    if (!isValidType(needle.type, [BooleanType, StringType, NumberType, NullType, ValueType]))
{\n        return context.error(`Expected first argument to be of type boolean, string, number or null, but found
${toString(needle.type)} instead`);\n    }\n\n    if (args.length === 4) {\n        const fromIndex =
context.parse(args[3], 3, NumberType);\n        if (!fromIndex) return null;\n        return new IndexOf(needle,
haystack, fromIndex);\n    } else {\n        return new IndexOf(needle, haystack);\n    }\n}\n\nevaluate(ctx: EvaluationContext) {\n    const needle = (this.needle.evaluate(ctx): any);\n    const haystack =
(this.haystack.evaluate(ctx): any);\n\n    if (!isValidNativeType(needle, ['boolean', 'string', 'number', 'null'])) {\n
throw new RuntimeError(`Expected
first argument to be of type boolean, string, number or null, but found ${toString(typeOf(needle))} instead.`);\n
}\n\n    if (!isValidNativeType(haystack, ['string', 'array'])) {\n        throw new RuntimeError(`Expected second
argument to be of type array or string, but found ${toString(typeOf(haystack))} instead.`);\n    }\n\n    if
(this.fromIndex) {\n        const fromIndex = (this.fromIndex.evaluate(ctx): number);\n        return
haystack.indexOf(needle, fromIndex);\n    }\n\n    return haystack.indexOf(needle);\n}\n\n eachChild(fn:
(_: Expression) => void) {\n    fn(this.needle);\n    fn(this.haystack);\n    if (this.fromIndex) {\n
fn(this.fromIndex);\n    }\n}\n\n outputDefined() {\n    return false;\n}\n\n serialize() {\n    if
(this.fromIndex != null && this.fromIndex !== undefined) {\n        const fromIndex =
this.fromIndex.serialize();\n        return [\"index-of\",
this.needle.serialize(), this.haystack.serialize(), fromIndex];\n    }\n    return [\"index-of\",
this.needle.serialize(), this.haystack.serialize()];\n}\n}\n\nexport default IndexOf;\n\";\"// @flow\n\nimport assert
from 'assert';\n\nimport {typeOf} from './values';\nimport {ValueType, type Type} from './types';\n\nimport type
{Expression} from './expression';\nimport type ParsingContext from './parsing_context';\nimport type
EvaluationContext from './evaluation_context';\n\n// Map input label values to output expression index\ntype Cases
= {[number | string]: number};\n\nclass Match implements Expression {\n    type: Type;\n    inputType: Type;\n\n    input: Expression;\n    cases: Cases;\n    outputs: Array<Expression>;\n    otherwise: Expression;\n\n    constructor(inputType: Type, outputType: Type, input: Expression, cases: Cases, outputs: Array<Expression>,
otherwise: Expression) {\n        this.inputType = inputType;\n        this.type = outputType;\n        this.input
= input;\n        this.cases = cases;\n        this.outputs = outputs;\n        this.otherwise = otherwise;\n    }\n\n    static
parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n        if (args.length < 5)\n            return
context.error(`Expected at least 4 arguments, but found only ${args.length - 1}.`);\n        if (args.length % 2 !== 1)\n
            return context.error(`Expected an even number of arguments.`);\n\n        let inputType;\n        let
outputType;\n        if (context.expectedType && context.expectedType.kind !== 'value') {\n            outputType =
context.expectedType;\n        }\n        const cases = {};\n        const outputs = [];\n        for (let i = 2; i < args.length -
1; i += 2) {\n            let labels = args[i];\n            const value = args[i + 1];\n\n            if (!Array.isArray(labels)) {\n
labels = [labels];\n            }\n\n            const labelContext = context.concat(i);\n            if (labels.length
=== 0) {\n                return labelContext.error('Expected at least one branch label.);\n            }\n\n            for (const
label of labels) {\n                if (typeof label !== 'number' && typeof label !== 'string') {\n                    return
labelContext.error(`Branch labels must be numbers or strings.`);\n                } else if (typeof label === 'number' &&
Math.abs(label) > Number.MAX_SAFE_INTEGER) {\n                    return labelContext.error(`Branch labels must
be integers no larger than ${Number.MAX_SAFE_INTEGER}.`);\n                } else if (typeof label === 'number'
&& Math.floor(label) !== label) {\n                    return labelContext.error(`Numeric branch labels must be integer
values.`);\n                } else if (!inputType) {\n                    inputType = typeOf(label);\n                } else if
(labelContext.checkSubtype(inputType, typeOf(label))) {\n                    return null;\n                }\n            }\n\n            if
(typeof cases[String(label)] !== 'undefined') {\n                return labelContext.error('Branch labels must be unique.);\n            }\n\n            cases[String(label)] = outputs.length;\n        }\n\n        const result = context.parse(value, i, outputType);\n        if (!result) return null;\n        outputType = outputType || result.type;\n        outputs.push(result);\n    }\n\n    const input = context.parse(args[1], 1, ValueType);\n    if (!input) return null;\n    const otherwise =

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context.parse(args[args.length - 1], args.length - 1, outputType);\n    if (!otherwise) return null;\n\nassert(inputType && outputType);\n    if (input.type.kind !== 'value' &&\ncontext.concat(1).checkSubtype((inputType: any), input.type)) {\n    return null;\n    }\n\n    return new\nMatch((inputType: any), (outputType: any), input, cases, outputs, otherwise);\n}\n\n    evaluate(ctx:\nEvaluationContext) {\n    const\ninput = (this.input.evaluate(ctx): any);\n    const output = (typeOf(input) === this.inputType &&\nthis.outputs[this.cases[input]]) || this.otherwise;\n    return output.evaluate(ctx);\n    }\n\n    eachChild(fn: (_:\nExpression) => void) {\n    fn(this.input);\n    this.outputs.forEach(fn);\n    fn(this.otherwise);\n    }\n\n    outputDefined(): boolean {\n    return this.outputs.every(out => out.outputDefined()) &&\nthis.otherwise.outputDefined();\n    }\n\n    serialize(): Array<mixed> {\n    const serialized = [\"match\", \nthis.input.serialize()];\n    // Sort so serialization has an arbitrary defined order, even though\n    // branch\norder doesn't affect evaluation\n    const sortedLabels = Object.keys(this.cases).sort();\n    // Group branches\nby unique match expression to support condensed\n    // serializations of the form [case1, case2, ...] ->\nmatchExpression\n    const groupedByOutput: Array<[number, Array<number | string>]>\n= [];\n    const outputLookup: {[index: number]: number} = {};\n    // lookup index into groupedByOutput for a\ngiven output expression\n    for (const label of sortedLabels) {\n    const outputIndex =\noutputLookup[this.cases[label]];\n    if (outputIndex === undefined) {\n    // First time seeing this\noutput, add it to the end of the grouped list\n    outputLookup[this.cases[label]] = groupedByOutput.length;\n    groupedByOutput.push([this.cases[label], [label]]);\n    } else {\n    // We've seen this\nexpression before, add the label to that output's group\n    groupedByOutput[outputIndex][1].push(label);\n    }\n    }\n\n    const coerceLabel = (label) => this.inputType.kind === 'number' ? Number(label) : label;\n    for (const [outputIndex, labels] of groupedByOutput) {\n    if (labels.length === 1) {\n    // Only a\nsingle label matches this output expression\n    serialized.push(coerceLabel(labels[0]));\n    } else {\n    // Array of literal labels pointing to\nthis output expression\n    serialized.push(labels.map(coerceLabel));\n    }\n    serialized.push(this.outputs[outputIndex].serialize());\n    }\n    serialized.push(this.otherwise.serialize());\n    return serialized;\n    }\n\n}\n\nexport default Match;\n\n\"/\" @flow\n\nimport assert from 'assert';\n\nimport\n{BooleanType} from './types';\n\nimport type {Expression} from './expression';\n\nimport type ParsingContext from\n './parsing_context';\n\nimport type EvaluationContext from './evaluation_context';\n\nimport type {Type} from\n './types';\n\ninterface Branches = Array<[Expression, Expression]>;\n\nclass Case implements Expression {\n    type:\nType;\n\n    branches: Branches;\n    otherwise: Expression;\n\n    constructor(type: Type, branches: Branches,\notherwise: Expression) {\n    this.type = type;\n    this.branches\n= branches;\n    this.otherwise = otherwise;\n    }\n\n    static parse(args: $ReadOnlyArray<mixed>, context:\nParsingContext) {\n    if (args.length < 4)\nreturn context.error('Expected at least 3 arguments, but found\nonly ${args.length - 1}.');\n    if (args.length % 2 !== 0)\nreturn context.error('Expected an odd number of\narguments.');\n\n    let outputType: ?Type;\n    if (context.expectedType && context.expectedType.kind !==\n'value') {\n    outputType = context.expectedType;\n    }\n\n    const branches = [];\n    for (let i = 1; i <\nargs.length - 1; i += 2) {\n    const test = context.parse(args[i], i, BooleanType);\n    if (!test) return\nnull;\n    const result = context.parse(args[i + 1], i + 1, outputType);\n    if (!result) return null;\n    branches.push([test, result]);\n    outputType = outputType || result.type;\n    }\n\n    const otherwise\n= context.parse(args[args.length - 1], args.length - 1, outputType);\n    if (!otherwise) return null;\n\n    assert(outputType);\n    return new Case((outputType: any), branches, otherwise);\n    }\n\n    evaluate(ctx:\nEvaluationContext) {\n    for (const [test, expression] of this.branches) {\n    if (test.evaluate(ctx)) {\n    return expression.evaluate(ctx);\n    }\n    }\n    return this.otherwise.evaluate(ctx);\n    }\n\n    eachChild(fn: (_:\nExpression) => void) {\n    for (const [test, expression] of this.branches) {\n    fn(test);\n    fn(expression);\n    }\n    fn(this.otherwise);\n    }\n\n    outputDefined(): boolean {\n    return\nthis.branches.every(([, out]) => out.outputDefined()) && this.otherwise.outputDefined();\n    }\n\n    serialize() {\n    const serialized = [\"case\"];\n    this.eachChild(child => { serialized.push(child.serialize()); });\n    return

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serialized;\n

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  }\n}\n\nexport default Case;\n", "/* @flow\n\nimport {ValueType, NumberType, StringType, array, toString, isValidType, isValidNativeType} from './types';\nimport RuntimeError from './runtime_error';\nimport {typeOf} from './values';\nimport type {Expression} from './expression';\nimport type ParsingContext from './parsing_context';\nimport type EvaluationContext from './evaluation_context';\nimport type {Type} from './types';\n\nclass Slice implements Expression {\n  type: Type;\n  input: Expression;\n  beginIndex: Expression;\n  endIndex: ?Expression;\n\n  constructor(type: Type, input: Expression, beginIndex: Expression, endIndex?: Expression) {\n    this.type = type;\n    this.input = input;\n    this.beginIndex = beginIndex;\n    this.endIndex = endIndex;\n  }\n\n  static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n    if (args.length <= 2 || args.length >= 5) {\n      return context.error(`Expected 3 or 4 arguments, but found ${args.length - 1} instead.`);\n    }\n\n    const input = context.parse(args[1], 1, ValueType);\n    const beginIndex = context.parse(args[2], 2, NumberType);\n\n    if (!input || !beginIndex) return null;\n\n    if (!isValidType(input.type, [array(ValueType), StringType, ValueType])) {\n      return context.error(`Expected first argument to be of type array or string, but found ${toString(input.type)} instead.`);\n    }\n\n    if (args.length === 4) {\n      const endIndex = context.parse(args[3], 3, NumberType);\n      if (!endIndex) return null;\n      return new Slice(input.type, input, beginIndex, endIndex);\n    } else {\n      return new Slice(input.type, input, beginIndex);\n    }\n  }\n\n  evaluate(ctx: EvaluationContext) {\n    const input = (this.input.evaluate(ctx): any);\n    const beginIndex = (this.beginIndex.evaluate(ctx): number);\n\n    if (!isValidNativeType(input, ['string', 'array'])) {\n      throw new RuntimeError(`Expected first argument to be of type array or string, but found ${toString(typeOf(input))} instead.`);\n    }\n\n    if (this.endIndex) {\n      const endIndex = (this.endIndex.evaluate(ctx): number);\n      return input.slice(beginIndex, endIndex);\n    }\n\n    return input.slice(beginIndex);\n  }\n\n  eachChild(fn: (_: Expression) => void) {\n    fn(this.input);\n    fn(this.beginIndex);\n    if (this.endIndex) {\n      fn(this.endIndex);\n    }\n  }\n\n  outputDefined() {\n    return false;\n  }\n\n  serialize() {\n    if (this.endIndex !== null && this.endIndex !== undefined) {\n      const endIndex = this.endIndex.serialize();\n      return ['slice', this.input.serialize(), this.beginIndex.serialize(), endIndex];\n    }\n\n    return ['slice', this.input.serialize(), this.beginIndex.serialize()];\n  }\n}\n\nexport default Slice;\n", "/*
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@flow\n\nimport {toString, ValueType, BooleanType, CollatorType} from './types';\nimport Assertion from './assertion';\nimport {typeOf} from './values';\nimport RuntimeError from './runtime_error';\nimport type {Expression} from './expression';\nimport type EvaluationContext from './evaluation_context';\nimport type ParsingContext from './parsing_context';\nimport type {Type} from './types';\n\ntype ComparisonOperator = '===' | '!=' | '<' | '>' | '<=' | '>=';\n\nfunction isComparableType(op: ComparisonOperator, type: Type) {\n  if (op === '===' || op === '!=') {\n    // equality operator\n    return type.kind === 'boolean' ||\n      type.kind === 'string' ||\n      type.kind === 'number' ||\n      type.kind === 'null' ||\n      type.kind === 'value';\n  } else {\n    // ordering operator\n    return type.kind === 'string' ||\n      type.kind === 'number' ||\n      type.kind === 'value';\n  }\n}\n\nfunction eq(ctx, a, b) {\n  return a === b;\n}\n\nfunction neq(ctx, a, b) {\n  return a !== b;\n}\n\nfunction lt(ctx, a, b) {\n  return a < b;\n}\n\nfunction gt(ctx, a, b) {\n  return a > b;\n}\n\nfunction lteq(ctx, a, b) {\n  return a <= b;\n}\n\nfunction gteq(ctx, a, b) {\n  return a >= b;\n}\n\nfunction eqCollate(ctx, a, b, c) {\n  return c.compare(a, b) === 0;\n}\n\nfunction neqCollate(ctx, a, b, c) {\n  return !eqCollate(ctx, a, b, c);\n}\n\nfunction ltCollate(ctx, a, b, c) {\n  return c.compare(a, b) < 0;\n}\n\nfunction gtCollate(ctx, a, b, c) {\n  return c.compare(a, b) > 0;\n}\n\nfunction lteqCollate(ctx, a, b, c) {\n  return c.compare(a, b) <= 0;\n}\n\nfunction gteqCollate(ctx, a, b, c) {\n  return c.compare(a, b) >= 0;\n}\n\n/**\n * Special form for comparison operators, implementing the signatures:\n * - (T, T, ?Collator) => boolean\n * - (T, value, ?Collator) => boolean\n * - (value, T, ?Collator) => boolean\n * - (T, T, ?Collator) => boolean\n * For inequalities, T must be either value, string, or number. For ===/!=, it\n * can also be boolean or null.\n * Equality semantics are equivalent to Javascript's strict equality (===/!==)\n * -- i.e., when the arguments' types don't match, == evaluates to false, != to true.\n * When types don't match in an ordering comparison, a runtime error is thrown.\n */
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Intl$NumberFormat;\n\n  format(a: number): string;\n\n  resolvedOptions(): any;\n\n}\n\ntype
NumberFormatOptions = {\n  style?: 'decimal'
| 'currency' | 'percent';\n  currency?: null | string;\n  minimumFractionDigits?: null | string;\n
maximumFractionDigits?: null | string;\n};\n\nexport default class NumberFormat implements Expression {\n
type: Type;\n  number: Expression;\n  locale: Expression | null; // BCP 47 language tag\n  currency: Expression
| null; // ISO 4217 currency code, required if style=currency\n  minFractionDigits: Expression | null; // Default 0\n
maxFractionDigits: Expression | null; // Default 3\n\n  constructor(number: Expression,\n    locale:
Expression | null,\n    currency: Expression | null,\n    minFractionDigits: Expression | null,\n
maxFractionDigits: Expression | null) {\n    this.type = StringType;\n    this.number = number;\n    this.locale
= locale;\n    this.currency = currency;\n    this.minFractionDigits = minFractionDigits;\n
this.maxFractionDigits = maxFractionDigits;\n  }\n\n  static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n    if (args.length !==
3)\n      return context.error(`Expected two arguments.`);\n    const number = context.parse(args[1], 1,
NumberType);\n    if (!number) return null;\n    const options = (args[2]: any);\n    if (typeof options !==
'object' || Array.isArray(options))\n      return context.error(`NumberFormat options argument must be an
object.`);\n    let locale = null;\n    if (options['locale']) {\n      locale = context.parse(options['locale'], 1,
StringType);\n      if (!locale) return null;\n    }\n    let currency = null;\n    if (options['currency']) {\n
currency = context.parse(options['currency'], 1, StringType);\n    if (!currency) return null;\n    }\n    let minFractionDigits = null;\n    if (options['min-fraction-digits']) {\n      minFractionDigits =
context.parse(options['min-fraction-digits'],
1, NumberType);\n      if (!minFractionDigits) return null;\n    }\n    let maxFractionDigits = null;\n    if
(options['max-fraction-digits']) {\n      maxFractionDigits = context.parse(options['max-fraction-digits'], 1,
NumberType);\n      if (!maxFractionDigits) return null;\n    }\n    return new NumberFormat(number,
locale, currency, minFractionDigits, maxFractionDigits);\n  }\n\n  evaluate(ctx: EvaluationContext) {\n    return
new Intl.NumberFormat(this.locale ? this.locale.evaluate(ctx) : [],\n      {\n        style: this.currency ?
'currency' : 'decimal',\n        currency: this.currency ? this.currency.evaluate(ctx) : undefined,\n
minimumFractionDigits: this.minFractionDigits ? this.minFractionDigits.evaluate(ctx) : undefined,\n
maximumFractionDigits: this.maxFractionDigits ? this.maxFractionDigits.evaluate(ctx) : undefined,\n
}).format(this.number.evaluate(ctx));\n  }\n\n  eachChild(fn: (_: Expression) => void) {\n    fn(this.number);\n    if (this.locale) {\n
fn(this.locale);\n    }\n    if (this.currency) {\n      fn(this.currency);\n    }\n    if (this.minFractionDigits)
{\n      fn(this.minFractionDigits);\n    }\n    if (this.maxFractionDigits) {\n
fn(this.maxFractionDigits);\n    }\n  }\n\n  outputDefined() {\n    return false;\n  }\n\n  serialize() {\n
const options = {};\n    if (this.locale) {\n      options['locale'] = this.locale.serialize();\n    }\n    if
(this.currency) {\n      options['currency'] = this.currency.serialize();\n    }\n    if (this.minFractionDigits) {\n
options['min-fraction-digits'] = this.minFractionDigits.serialize();\n    }\n    if (this.maxFractionDigits)
{\n      options['max-fraction-digits'] = this.maxFractionDigits.serialize();\n    }\n  }\n\n  return [\"number-format\", this.number.serialize(), options];\n}\n\n} // @flow\n\nimport
{NumberType, toString} from './types';\n\nimport {typeOf} from './values';\n\nimport RuntimeError from
'./runtime_error';\n\nimport type {Expression} from './expression';\n\nimport type ParsingContext from
'./parsing_context';\n\nimport type EvaluationContext from './evaluation_context';\n\nimport type {Type} from
'./types';\n\nclass Length implements Expression {\n  type: Type;\n  input: Expression;\n\n  constructor(input:
Expression) {\n    this.type = NumberType;\n    this.input = input;\n  }\n\n  static parse(args:
$ReadOnlyArray<mixed>, context: ParsingContext) {\n    if (args.length !== 2)\n      return
context.error(`Expected 1 argument, but found ${args.length - 1} instead.`);\n    const input =
context.parse(args[1], 1);\n    if (!input) return null;\n    if (input.type.kind !== 'array' && input.type.kind !==
'string' && input.type.kind

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!=='value')\n      return context.error(`Expected argument of type string or array, but found
${toString(input.type)} instead.`);\n\n      return new Length(input);\n    }\n\n    evaluate(ctx: EvaluationContext)
{\n      const input = this.input.evaluate(ctx);\n      if (typeof input === 'string') {\n        return input.length;\n      } else if (Array.isArray(input)) {\n        return input.length;\n      } else {\n        throw new
RuntimeError(`Expected value to be of type string or array, but found ${toString(typeOf(input))} instead.`);\n
      }\n    }\n\n    eachChild(fn: (_: Expression) => void) {\n      fn(this.input);\n    }\n\n    outputDefined() {\n
return false;\n    }\n\n    serialize() {\n      const serialized = [\"length\"];\n      this.eachChild(child => {
serialized.push(child.serialize()); });\n      return serialized;\n    }\n  }\n\n  export default Length;\n\""},//
@flow\n\nimport {\n  type Type,\n  NumberType,\n  StringType,\n  BooleanType,\n  ColorType,\n  ObjectType,\n  ValueType,\n  ErrorType,\n  CollatorType,\n  array,\n  toString as typeToString\n} from './types';\n\nimport {typeOf, Color, validateRGBA,
toString as valueToString} from './values';\nimport CompoundExpression from './compound_expression';\nimport
RuntimeError from './runtime_error';\nimport Let from './let';\nimport Var from './var';\nimport Literal from
 './literal';\nimport Assertion from './assertion';\nimport Coercion from './coercion';\nimport At from './at';\nimport In
from './in';\nimport IndexOf from './index_of';\nimport Match from './match';\nimport Case from './case';\nimport
Slice from './slice';\nimport Step from './step';\nimport Interpolate from './interpolate';\nimport Coalesce from
 './coalesce';\nimport {\n  Equals,\n  NotEquals,\n  LessThan,\n  GreaterThan,\n  LessThanOrEqual,\n  GreaterThanOrEqual\n} from './comparison';\nimport CollatorExpression from './collator';\nimport
NumberFormat from './number_format';\nimport FormatExpression from './format';\nimport ImageExpression from
 './image';\nimport Length from './length';\nimport Within from './within';\n\nimport type {Varargs} from
 './compound_expression';\nimport type {ExpressionRegistry} from './expression';\n\nconst expressions:
ExpressionRegistry = {\n  // special forms\n  '==': Equals,\n  '!=': NotEquals,\n  '>': GreaterThan,\n  '<':
LessThan,\n  '>=': GreaterThanOrEqual,\n  '<=': LessThanOrEqual,\n  'array': Assertion,\n  'at': At,\n  'boolean':
Assertion,\n  'case': Case,\n  'coalesce': Coalesce,\n  'collator': CollatorExpression,\n  'format':
FormatExpression,\n  'image': ImageExpression,\n  'in': In,\n  'index-of': IndexOf,\n  'interpolate': Interpolate,\n
  'interpolate-hcl': Interpolate,\n  'interpolate-lab': Interpolate,\n  'length': Length,\n  'let': Let,\n  'literal':
Literal,\n  'match': Match,\n  'number': Assertion,\n  'number-format':
NumberFormat,\n  'object': Assertion,\n  'slice': Slice,\n  'step': Step,\n  'string': Assertion,\n  'to-boolean':
Coercion,\n  'to-color': Coercion,\n  'to-number': Coercion,\n  'to-string': Coercion,\n  'var': Var,\n  'within':
Within\n};\n\nfunction rgba(ctx, [r, g, b, a]) {\n  r = r.evaluate(ctx);\n  g = g.evaluate(ctx);\n  b =
b.evaluate(ctx);\n  const alpha = a ? a.evaluate(ctx) : 1;\n  const error = validateRGBA(r, g, b, alpha);\n  if (error)
throw new RuntimeError(error);\n  return new Color(r / 255 * alpha, g / 255 * alpha, b / 255 * alpha,
alpha);\n}\n\nfunction has(key, obj) {\n  return key in obj;\n}\n\nfunction get(key, obj) {\n  const v = obj[key];\n
return typeof v === 'undefined' ? null : v;\n}\n\nfunction binarySearch(v, a, i, j) {\n  while (i <= j) {\n    const m
= (i + j) >> 1;\n    if (a[m] === v)\n      return true;\n    if (a[m] > v)\n      j = m - 1;\n    else\n      i
= m + 1;\n  }\n\n  return false;\n}\n\nfunction varargs(type: Type): Varargs {\n  return
{type};\n}\n\nCompoundExpression.register(expressions, {\n  'error': [\n    ErrorType,\n    [StringType],\n
(ctx, [v]) => { throw new RuntimeError(v.evaluate(ctx)); }\n  ],\n  'typeof': [\n    StringType,\n
[ValueType],\n    (ctx, [v]) => typeToString(typeOf(v.evaluate(ctx)))\n  ],\n  'to-rgba': [\n
array(NumberType, 4),\n    [ColorType],\n    (ctx, [v]) => {\n      return v.evaluate(ctx).toArray();\n    }\n
],\n  'rgb': [\n    ColorType,\n    [NumberType, NumberType, NumberType],\n    rgba\n  ],\n  'rgba': [\n
ColorType,\n    [NumberType, NumberType, NumberType, NumberType],\n    rgba\n  ],\n  'has': {\n
type: BooleanType,\n    overloads: [\n      [\n        [StringType],\n        (ctx, [key]) =>
has(key.evaluate(ctx), ctx.properties())\n      ],\n      [\n
[StringType, ObjectType],\n        (ctx, [key, obj]) => has(key.evaluate(ctx), obj.evaluate(ctx))\n      ]\n
],\n  'get': {\n    type: ValueType,\n    overloads: [\n      [\n        [StringType],\n        (ctx,
[key]) => get(key.evaluate(ctx), ctx.properties())\n      ],\n      [\n        [StringType, ObjectType],\n
(ctx,

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[key, obj]) => get(key.evaluate(ctx), obj.evaluate(ctx))\n
    ]\n
    ],\n
    'feature-state': [\n
    ValueType,\n
    [StringType],\n
    (ctx, [key]) => get(key.evaluate(ctx), ctx.featureState || {})\n
    ],\n
    'properties': [\n
    ObjectType,\n
    [],\n
    (ctx) => ctx.properties()\n
    ],\n
    'geometry-type': [\n
    StringType,\n
    [],\n
    (ctx) => ctx.geometryType()\n
    ],\n
    'id': [\n
    ValueType,\n
    [],\n
    (ctx) =>
    ctx.id()\n
    ],\n
    'zoom': [\n
    NumberType,\n
    [],\n
    (ctx) => ctx.globals.zoom\n
    ],\n
    'heatmap-density': [\n
    NumberType,\n
    [],\n
    (ctx) => ctx.globals.heatmapDensity || 0\n
    ],\n
    'line-progress': [\n
    NumberType,\n
    [],\n
    (ctx) => ctx.globals.lineProgress || 0\n
    ],\n
    'accumulated':
    [\n
    ValueType,\n
    [],\n
    (ctx) => ctx.globals.accumulated === undefined ? null :
    ctx.globals.accumulated\n
    ],\n
    '+': [\n
    NumberType,\n
    varargs(NumberType),\n
    (ctx, args) => {\n
    let result = 0;\n
    for (const arg of args) {\n
    result += arg.evaluate(ctx);\n
    }\n
    return
    result;\n
    }\n
    ],\n
    '*': [\n
    NumberType,\n
    varargs(NumberType),\n
    (ctx, args) => {\n
    let
    result = 1;\n
    for (const arg of args) {\n
    result *= arg.evaluate(ctx);\n
    }\n
    return
    result;\n
    }\n
    ],\n
    '-': {\n
    type: NumberType,\n
    overloads: [\n
    [\n
    [NumberType, NumberType],\n
    (ctx, [a, b]) => a.evaluate(ctx) - b.evaluate(ctx)\n
    ],\n
    [\n
    [NumberType],\n
    (ctx, [a]) => -a.evaluate(ctx)\n
    ]\n
    ]\n
    ],\n
    '/': [\n
    NumberType,\n
    [NumberType, NumberType],\n
    (ctx, [a, b]) => a.evaluate(ctx) / b.evaluate(ctx)\n
    ],\n
    '%': [\n
    NumberType,\n
    [NumberType, NumberType],\n
    (ctx, [a, b]) => a.evaluate(ctx) %
    b.evaluate(ctx)\n
    ],\n
    'ln2': [\n
    NumberType,\n
    [],\n
    () => Math.LN2\n
    ],\n
    'pi': [\n
    NumberType,\n
    [],\n
    () => Math.PI\n
    ],\n
    'e': [\n
    NumberType,\n
    [],\n
    () => Math.E\n
    ],\n
    '^': [\n
    NumberType,\n
    [NumberType, NumberType],\n
    (ctx, [b, e]) => Math.pow(b.evaluate(ctx),
    e.evaluate(ctx))\n
    ],\n
    'sqrt': [\n
    NumberType,\n
    [NumberType],\n
    (ctx, [x]) =>
    Math.sqrt(x.evaluate(ctx))\n
    ],\n
    'log10': [\n
    NumberType,\n
    [NumberType],\n
    (ctx, [n]) => Math.log(n.evaluate(ctx)) /
    Math.LN10\n
    ],\n
    'ln': [\n
    NumberType,\n
    [NumberType],\n
    (ctx, [n]) =>
    Math.log(n.evaluate(ctx))\n
    ],\n
    'log2': [\n
    NumberType,\n
    [NumberType],\n
    (ctx, [n]) =>
    Math.log(n.evaluate(ctx)) / Math.LN2\n
    ],\n
    'sin': [\n
    NumberType,\n
    [NumberType],\n
    (ctx, [n])
    => Math.sin(n.evaluate(ctx))\n
    ],\n
    'cos': [\n
    NumberType,\n
    [NumberType],\n
    (ctx, [n]) =>
    Math.cos(n.evaluate(ctx))\n
    ],\n
    'tan': [\n
    NumberType,\n
    [NumberType],\n
    (ctx, [n]) =>
    Math.tan(n.evaluate(ctx))\n
    ],\n
    'asin': [\n
    NumberType,\n
    [NumberType],\n
    (ctx, [n]) =>
    Math.asin(n.evaluate(ctx))\n
    ],\n
    'acos': [\n
    NumberType,\n
    [NumberType],\n
    (ctx, [n]) =>
    Math.acos(n.evaluate(ctx))\n
    ],\n
    'atan': [\n
    NumberType,\n
    [NumberType],\n
    (ctx, [n]) => Math.atan(n.evaluate(ctx))\n
    ],\n
    'min': [\n
    NumberType,\n
    varargs(NumberType),\n
    (ctx, args) => Math.min(...args.map(arg => arg.evaluate(ctx)))\n
    ],\n
    'max': [\n
    NumberType,\n
    varargs(NumberType),\n
    (ctx, args) => Math.max(...args.map(arg => arg.evaluate(ctx)))\n
    ],\n
    'abs': [\n
    NumberType,\n
    [NumberType],\n
    (ctx, [n]) => Math.abs(n.evaluate(ctx))\n
    ],\n
    'round': [\n
    NumberType,\n
    [NumberType],\n
    (ctx, [n]) => {\n
    const v = n.evaluate(ctx);\n
    // Javascript's Math.round() rounds towards +Infinity for halfway\n
    // values, even when they're negative. It's
    more common to round\n
    // away from 0 (e.g., this is what python and C++ do)\n
    return v < 0 ? -
    Math.round(-v) : Math.round(v);\n
    }\n
    ],\n
    'floor': [\n
    NumberType,\n
    [NumberType],\n
    (ctx,
    [n])
    => Math.floor(n.evaluate(ctx))\n
    ],\n
    'ceil': [\n
    NumberType,\n
    [NumberType],\n
    (ctx, [n]) =>
    Math.ceil(n.evaluate(ctx))\n
    ],\n
    'filter-===': [\n
    BooleanType,\n
    [StringType, ValueType],\n
    (ctx, [k,
    v]) => ctx.properties()[k: any].value === (v: any).value\n
    ],\n
    'filter-id-===': [\n
    BooleanType,\n
    [ValueType],\n
    (ctx, [v]) => ctx.id() === (v: any).value\n
    ],\n
    'filter-type-===': [\n
    BooleanType,\n
    [StringType],\n
    (ctx, [v]) => ctx.geometryType() === (v: any).value\n
    ],\n
    'filter-<': [\n
    BooleanType,\n
    [StringType, ValueType],\n
    (ctx, [k, v]) => {\n
    const a = ctx.properties()[k: any].value;\n
    const b = (v: any).value;\n
    return typeof a === typeof b && a < b;\n
    }\n
    ],\n
    'filter-id-<': [\n
    BooleanType,\n
    [ValueType],\n
    (ctx, [v]) => {\n
    const a = ctx.id();\n
    const b =

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(v: any).value;\n      return typeof a === typeof b && a < b;\n    }\n  ],\n  'filter->': [\n    BooleanType,\n    [StringType, ValueType],\n    (ctx, [k, v]) => {\n      const a = ctx.properties()[(k: any).value];\n      const b = (v: any).value;\n      return typeof a === typeof b && a > b;\n    }\n  ],\n  'filter-id->': [\n    BooleanType,\n    [ValueType],\n    (ctx, [v]) => {\n      const a = ctx.id();\n      const b = (v: any).value;\n      return typeof a === typeof b && a > b;\n    }\n  ],\n  'filter-<=': [\n    BooleanType,\n    [StringType, ValueType],\n    (ctx, [k, v]) => {\n      const a = ctx.properties()[(k: any).value];\n      const b = (v: any).value;\n      return typeof a === typeof b && a <= b;\n    }\n  ],\n  'filter-id-<=': [\n    BooleanType,\n    [ValueType],\n    (ctx, [v]) => {\n      const a = ctx.id();\n      const b = (v: any).value;\n      return typeof a === typeof b && a <= b;\n    }\n  ],\n  'filter->=': [\n    BooleanType,\n    [StringType, ValueType],\n    (ctx, [k, v]) => {\n      const a = ctx.properties()[(k: any).value];\n      const b = (v: any).value;\n      return typeof a === typeof b && a >= b;\n    }\n  ],\n  'filter-id->=': [\n    BooleanType,\n    [ValueType],\n    (ctx, [v]) => {\n      const a = ctx.id();\n      const b = (v: any).value;\n      return typeof a === typeof b && a >= b;\n    }\n  ],\n  'filter-has': [\n    BooleanType,\n    [ValueType],\n    (ctx, [k]) => (k: any).value in ctx.properties()\n  ],\n  'filter-has-id': [\n    BooleanType,\n    [],\n    (ctx) => (ctx.id() !== null && ctx.id() !== undefined)\n  ],\n  'filter-type-in': [\n    BooleanType,\n    [array(StringType)],\n    (ctx, [v]) => (v: any).value.indexOf(ctx.geometryType())\n  ],\n  'filter-id-in': [\n    BooleanType,\n    [array(ValueType)],\n    (ctx, [v]) => (v: any).value.indexOf(ctx.id()) >= 0\n  ],\n  'filter-in-small': [\n    BooleanType,\n    [StringType, array(ValueType)],\n    // assumes v is an array literal\n    (ctx, [k, v]) => (v: any).value.indexOf(ctx.properties()[(k: any).value]) >= 0\n  ],\n  'filter-in-large': [\n    BooleanType,\n    [StringType, array(ValueType)],\n    // assumes v is a array literal with values sorted in ascending order and of a single type\n    (ctx, [k, v]) => binarySearch(ctx.properties()[(k: any).value], (v: any).value, 0, (v: any).value.length - 1)\n  ],\n  'all': {\n    type: BooleanType,\n    overloads: [\n      [\n        BooleanType, BooleanType,\n        (ctx, [a, b]) => a.evaluate(ctx) && b.evaluate(ctx)\n      ],\n      [\n        varargs(BooleanType),\n        (ctx, args)\n      ]\n    ]\n  },\n  'any': {\n    type: BooleanType,\n    overloads: [\n      [\n        BooleanType, BooleanType,\n        (ctx, [a, b]) => a.evaluate(ctx) || b.evaluate(ctx)\n      ],\n      [\n        varargs(BooleanType),\n        (ctx, args) => {\n          for (const arg of args) {\n            if (arg.evaluate(ctx))\n              return true;\n          }\n          return false;\n        }\n      ]\n    ]\n  },\n  '!', {\n    BooleanType, [BooleanType],\n    (ctx, [b]) => !b.evaluate(ctx)\n  },\n  'is-supported-script': [\n    BooleanType, [StringType],\n    // At parse time this will always return true, so we need to exclude this expression with isGlobalPropertyConstant\n    (ctx, [s]) => {\n      const isSupportedScript = ctx.globals && ctx.globals.isSupportedScript;\n      if (isSupportedScript) {\n        return isSupportedScript(s.evaluate(ctx));\n      }\n      return true;\n    }\n  ],\n  'uppercase': [\n    StringType, [StringType],\n    (ctx, [s]) => s.evaluate(ctx).toUpperCase()\n  ],\n  'downcase': [\n    StringType, [StringType],\n    (ctx, [s]) => s.evaluate(ctx).toLowerCase()\n  ],\n  'concat': [\n    StringType, varargs(ValueType),\n    (ctx, args) => args.map(arg => valueToString(arg.evaluate(ctx))).join(")\n  ],\n  'resolved-locale': [\n    StringType, [CollatorType],\n    (ctx, [collator]) => collator.evaluate(ctx).resolvedLocale()\n  ]\n});\n\nexport default expressions;\n";\n\n//\n@flow\n\n/**\n * A type used for returning and propagating errors. The first element of the union * represents success and contains a value, and the second represents an error and * contains an error value.\n * @private\n */\nexport type Result<T, E> =\n | {\n   result: 'success', value: T\n } |\n | {\n   result: 'error', value: E\n };\n\nexport function success<T, E>(value: T): Result<T, E> {\n   return {\n     result: 'success', value\n   };\n}\n\nexport function error<T, E>(value: E): Result<T, E> {\n   return {\n     result: 'error', value\n   };\n}\n\n// @flow\n\nimport type {StylePropertySpecification} from './style-spec';\n\nexport function supportsPropertyExpression(spec: StylePropertySpecification): boolean {\n   return spec['property-type'] === 'data-driven' || spec['property-type'] === 'cross-faded-data-driven';\n}\n\nexport function

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supportsZoomExpression(spec: StylePropertySpecification): boolean {\n  return !!spec.expression &&
spec.expression.parameters.indexOf('zoom') > -1;\n}\n\nexport function supportsInterpolation(spec:
StylePropertySpecification): boolean {\n  return !!spec.expression && spec.expression.interpolated;\n}\n\n", "//
@flow\n\nexport default function getType(val: mixed): string {\n  if (val instanceof Number) {\n    return
'number';\n  } else if (val instanceof String) {\n    return 'string';\n  } else if (val instanceof Boolean) {\n
return 'boolean';\n  } else if (Array.isArray(val)) {\n    return 'array';\n  } else if (val === null) {\n    return
'null';\n  } else {\n    return typeof val;\n  }\n}\n\n", "\nimport * as colorSpaces from './util/color_spaces';\nimport
Color from './util/color';\nimport extend from './util/extend';\nimport getType from './util/get_type';\nimport * as
interpolate from './util/interpolate';\nimport Interpolate from './expression/definitions/interpolate';\nimport
Formatted from './expression/types/formatted';\nimport ResolvedImage from
'./expression/types/resolved_image';\nimport {supportsInterpolation} from
'./util/properties';\nimport {findStopLessThanOrEqualTo} from './expression/stops';\n\nexport function
isFunction(value) {\n  return typeof value === 'object' && value !== null &&
!Array.isArray(value);\n}\n\nfunction identityFunction(x) {\n  return x;\n}\n\nexport function
createFunction(parameters, propertySpec) {\n  const isColor = propertySpec.type === 'color';\n  const
zoomAndFeatureDependent = parameters.stops && typeof parameters.stops[0][0] === 'object';\n  const
featureDependent = zoomAndFeatureDependent || parameters.property !== undefined;\n  const zoomDependent =
zoomAndFeatureDependent || !featureDependent;\n  const type = parameters.type ||
(supportsInterpolation(propertySpec) ? 'exponential' : 'interval');\n\n  if (isColor) {\n    parameters = extend({},
parameters);\n\n    if (parameters.stops) {\n      parameters.stops = parameters.stops.map((stop) => {\n
return [stop[0], Color.parse(stop[1]);\n      });\n    }\n\n    if (parameters.default) {\n      parameters.default = Color.parse(parameters.default);\n    } else {\n
parameters.default = Color.parse(propertySpec.default);\n    }\n\n    if (parameters.colorSpace &&
parameters.colorSpace !== 'rgb' && !colorSpaces[parameters.colorSpace]) { // eslint-disable-line
import/namespace\n      throw new Error(`Unknown color space: ${parameters.colorSpace}`);\n    }\n\n    let
innerFun;\n    let hashedStops;\n    let categoricalKeyType;\n    if (type === 'exponential') {\n      innerFun =
evaluateExponentialFunction;\n    } else if (type === 'interval') {\n      innerFun = evaluateIntervalFunction;\n    }
else if (type === 'categorical') {\n      innerFun = evaluateCategoricalFunction;\n\n      // For categorical functions,
generate an Object as a hashmap of the stops for fast searching\n      hashedStops = Object.create(null);\n      for
(const stop of parameters.stops) {\n        hashedStops[stop[0]]
= stop[1];\n      }\n\n      // Infer key type based on first stop key-- used to enforce strict type checking later\n
categoricalKeyType = typeof parameters.stops[0][0];\n\n    } else if (type === 'identity') {\n      innerFun =
evaluateIdentityFunction;\n    } else {\n      throw new Error(`Unknown function type "${type}"`);\n    }\n\n    if
(zoomAndFeatureDependent) {\n      const featureFunctions = {};\n      const zoomStops = [];\n      for (let s = 0;
s < parameters.stops.length; s++) {\n        const stop = parameters.stops[s];\n        const zoom = stop[0].zoom;\n
        if (featureFunctions[zoom] === undefined) {\n          featureFunctions[zoom] = {\n            zoom,\n
            type: parameters.type,\n            property: parameters.property,\n            default:
parameters.default,\n            stops: []\n          };\n          zoomStops.push(zoom);\n        }\n
        featureFunctions[zoom].stops.push([stop[0].value, stop[1]]);\n      }\n\n      const featureFunctionStops = [];\n
      for (const z of zoomStops) {\n        featureFunctionStops.push([featureFunctions[z].zoom,
createFunction(featureFunctions[z], propertySpec)]);\n      }\n\n      const interpolationType = {name: 'linear'};\n
      return {\n        kind: 'composite',\n        interpolationType,\n        interpolationFactor:
Interpolate.interpolationFactor.bind(undefined, interpolationType),\n        zoomStops:
featureFunctionStops.map(s => s[0]),\n        evaluate({zoom}, properties) {\n          return
evaluateExponentialFunction({\n            stops: featureFunctionStops,\n            base: parameters.base\n
          }, propertySpec, zoom).evaluate(zoom, properties);\n        }\n      };\n    } else if (zoomDependent) {\n
const interpolationType = type === 'exponential' ?\n      {name: 'exponential',

```

```

base: parameters.base !== undefined ? parameters.base : 1 } : null;\n    return {\n        kind: 'camera',\n        interpolationType,\n        interpolationFactor: Interpolate.interpolationFactor.bind(undefined,\n        interpolationType),\n        zoomStops: parameters.stops.map(s => s[0]),\n        evaluate: ({zoom}) =>\n        innerFun(parameters, propertySpec, zoom, hashedStops, categoricalKeyType)\n    }; \n } else {\n    return {\n        kind: 'source',\n        evaluate(_, feature) {\n            const value = feature && feature.properties ?\n            feature.properties[parameters.property] : undefined;\n            if (value === undefined) {\n                return\n                coalesce(parameters.default, propertySpec.default);\n            }\n            return innerFun(parameters,\n            propertySpec, value, hashedStops, categoricalKeyType);\n        };\n    };\n}\n\nfunction coalesce(a, b, c)\n{\n    if (a !== undefined) return a;\n    if\n    (b !== undefined) return b;\n    if (c !== undefined) return c;\n}\n\nfunction\n    evaluateCategoricalFunction(parameters, propertySpec, input, hashedStops, keyType) {\n        const evaluated = typeof\n        input === keyType ? hashedStops[input] : undefined; // Enforce strict typing on input\n        return coalesce(evaluated,\n        parameters.default, propertySpec.default);\n    }\n\n    function evaluateIntervalFunction(parameters, propertySpec, input)\n    {\n        // Edge cases\n        if (getType(input) !== 'number') return coalesce(parameters.default, propertySpec.default);\n        const n = parameters.stops.length;\n        if (n === 1) return parameters.stops[0][1];\n        if (input <=\n        parameters.stops[0][0]) return parameters.stops[0][1];\n        if (input >= parameters.stops[n - 1][0]) return\n        parameters.stops[n - 1][1];\n        const index = findStopLessThanOrEqualTo(parameters.stops.map((stop) =>\n        stop[0]), input);\n        return parameters.stops[index][1];\n    }\n\n    function evaluateExponentialFunction(parameters,\n    propertySpec, input)\n    {\n        const base = parameters.base !== undefined ? parameters.base : 1;\n        // Edge cases\n        if (getType(input)\n        !== 'number') return coalesce(parameters.default, propertySpec.default);\n        const n = parameters.stops.length;\n        if\n        (n === 1) return parameters.stops[0][1];\n        if (input <= parameters.stops[0][0]) return parameters.stops[0][1];\n        if\n        (input >= parameters.stops[n - 1][0]) return parameters.stops[n - 1][1];\n        const index =\n        findStopLessThanOrEqualTo(parameters.stops.map((stop) => stop[0]), input);\n        const t = interpolationFactor(\n        input, base,\n        parameters.stops[index][0],\n        parameters.stops[index + 1][0]);\n        const outputLower =\n        parameters.stops[index][1];\n        const outputUpper = parameters.stops[index + 1][1];\n        let interp =\n        interpolate[propertySpec.type] || identityFunction; // eslint-disable-line import/namespace\n        if\n        (parameters.colorSpace && parameters.colorSpace !== 'rgb') {\n            const colorspace =\n            colorSpaces[parameters.colorSpace];\n            // eslint-disable-line import/namespace\n            interp = (a, b) =>\n            colorspace.reverse(colorspace.interpolate(colorspace.forward(a), colorspace.forward(b), t));\n        }\n        if (typeof\n        outputLower.evaluate === 'function') {\n            return {\n                evaluate(...args) {\n                    const evaluatedLower\n                    = outputLower.evaluate.apply(undefined, args);\n                    const evaluatedUpper =\n                    outputUpper.evaluate.apply(undefined, args);\n                    // Special case for fill-outline-color, which has no spec\n                    default.\n                    if (evaluatedLower === undefined || evaluatedUpper === undefined) {\n                        return\n                        undefined;\n                    }\n                    return interp(evaluatedLower, evaluatedUpper, t);\n                };\n            };\n        }\n        return interp(outputLower, outputUpper, t);\n    }\n\n    function evaluateIdentityFunction(parameters, propertySpec,\n    input) {\n        if (propertySpec.type === 'color') {\n            input = Color.parse(input);\n        }\n        } else if (propertySpec.type === 'formatted') {\n            input = Formatted.fromString(input.toString());\n        } else if\n        (propertySpec.type === 'resolvedImage') {\n            input = ResolvedImage.fromString(input.toString());\n        } else if\n        (getType(input) !== propertySpec.type && (propertySpec.type !== 'enum' || !propertySpec.values[input])) {\n            input = undefined;\n        }\n        return coalesce(input, parameters.default, propertySpec.default);\n    }\n\n    /**\n     * Returns\n     * a ratio that can be used to interpolate between exponential function\n     * stops.\n     * How it works:\n     * Two\n     * consecutive stop values define a (scaled and shifted) exponential\n     * function `f(x) = a * base^x + b`, where `base` is\n     * the user-specified base,\n     * and `a` and `b` are constants affording sufficient degrees of freedom to fit\n     * the\n     * function to the given stops.\n     * Here's a bit of algebra that lets us compute `f(x)` directly from the stop\n     * values\n     * without explicitly solving for `a` and `b`:\n     */

```

\* First stop value:  $f(x_0) = y_0 = a * \text{base}^{x_0} + b$  \* Second stop value:  $f(x_1) = y_1 = a * \text{base}^{x_1} + b$  \*  $\Rightarrow y_1 - y_0 = a(\text{base}^{x_1} - \text{base}^{x_0})$  \*  $\Rightarrow a = (y_1 - y_0) / (\text{base}^{x_1} - \text{base}^{x_0})$  \* Desired value:  $f(x) = y = a * \text{base}^x + b$  \*  $\Rightarrow f(x) = y_0 + a * (\text{base}^x - \text{base}^{x_0})$  \* From the above, we can replace the  $a$  in  $a * (\text{base}^x - \text{base}^{x_0})$  and do a little algebra:  $a * (\text{base}^x - \text{base}^{x_0}) = (y_1 - y_0) / (\text{base}^{x_1} - \text{base}^{x_0}) * (\text{base}^x - \text{base}^{x_0})$  \*  $= (y_1 - y_0) * (\text{base}^x - \text{base}^{x_0}) / (\text{base}^{x_1} - \text{base}^{x_0})$  \* If we let  $(\text{base}^x - \text{base}^{x_0}) / (\text{base}^{x_1} - \text{base}^{x_0})$ , then we have  $f(x) = y_0 + (y_1 - y_0) * \text{ratio}$ . In other words,  $\text{ratio}$  may be treated as an interpolation factor between the two stops' output values. (Note: a slightly different form for  $\text{ratio}$ ,  $(\text{base}^{(x-x_0)} - 1) / (\text{base}^{(x_1-x_0)} - 1)$ , is equivalent, but requires fewer expensive `Math.pow()` operations.)

```

@private
function interpolationFactor(input,
base, lowerValue, upperValue) {
  const difference = upperValue - lowerValue;
  const progress = input - lowerValue;
  if (difference === 0) {
    return 0;
  } else if (base === 1) {
    return progress / difference;
  } else {
    return (Math.pow(base, progress) - 1) / (Math.pow(base, difference) - 1);
  }
}

import assert from 'assert';
import extend from './util/extend';
import ParsingError from './parsing_error';
import ParsingContext from './parsing_context';
import EvaluationContext from './evaluation_context';
import CompoundExpression from './compound_expression';
import Step from './definitions/step';
import Interpolate from './definitions/interpolate';
import Coalesce from './definitions/coalesce';
import Let from './definitions/let';
import definitions from './definitions';
import * as isConstant from './is_constant';
import RuntimeError from './runtime_error';
import { success, error } from './util/result';

import {
  supportsPropertyExpression, supportsZoomExpression, supportsInterpolation
} from './util/properties';
import type { Type, EvaluationKind } from './types';
import type { Value } from './values';
import type { Expression } from './expression';
import type { StylePropertySpecification } from './style-spec';
import type { Result } from './util/result';
import type { InterpolationType } from './definitions/interpolate';
import type { PropertyValueSpecification } from './types';
import type { FormattedSection } from './types/formatted';
import type Point from '@mapbox/point-geometry';
import type { CanonicalTileID } from './source/tile_id';
export type Feature = {
  type: 1 | 2 | 3 | 'Unknown' | 'Point' | 'MultiPoint' | 'LineString' | 'MultiLineString' | 'Polygon' | 'MultiPolygon',
  id?: any,
  properties: {[_: string]: any},
  patterns?: {[_: string]: {"min": string, "mid": string, "max": string}},
  geometry?: Array<Array<Point>>
};
export type FeatureState = {[_: string]: any};
export type GlobalProperties = $ReadOnly<{
  zoom: number,
  heatmapDensity?: number,
  lineProgress?: number,
  isSupportedScript?: (_: string) => boolean,
  accumulated?: Value
}>;
export class StyleExpression {
  expression: Expression;
  _evaluator: EvaluationContext;
  _defaultValue: Value;
  _warningHistory: {[key: string]: boolean};
  _enumValues: {[_: string]: any};
  constructor(expression: Expression, propertySpec: ?StylePropertySpecification) {
    this.expression = expression;
    this._warningHistory = {};
    this._evaluator = new EvaluationContext();
    this._defaultValue = propertySpec ? getDefaultValue(propertySpec) : null;
    this._enumValues = propertySpec && propertySpec.type === 'enum' ? propertySpec.values : null;
  }
  evaluateWithoutErrorHandling(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID,
availableImages?: Array<string>, formattedSection?: FormattedSection): any {
    this._evaluator.globals = globals;
    this._evaluator.feature = feature;
    this._evaluator.featureState = featureState;
    this._evaluator.canonical = canonical;
    this._evaluator.availableImages = availableImages || null;
    this._evaluator.formattedSection = formattedSection;
    return this.expression.evaluate(this._evaluator);
  }
  evaluate(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection): any {
    this._evaluator.globals = globals;
    this._evaluator.feature = feature || null;
    this._evaluator.featureState = featureState || null;
    this._evaluator.canonical = canonical;
    this._evaluator.availableImages = availableImages || null;
    this._evaluator.formattedSection = formattedSection
  }
}

```

```

|| null;\n\n    try {\n        const val = this.expression.evaluate(this._evaluator);\n        // eslint-disable-next-line
no-self-compare\n        if (val === null || val === undefined || (typeof val === 'number' && val !== val)) {\n            return this._defaultValue;\n        }\n        if (this._enumValues && !(val in this._enumValues)) {\n            throw new RuntimeError(`Expected value to be one of ${Object.keys(this._enumValues).map(v =>
JSON.stringify(v)).join(', ')}, but found ${JSON.stringify(val)} instead.`);\n        }\n        return val;\n    }
catch (e) {\n        if (!this._warningHistory[e.message]) {\n            this._warningHistory[e.message] = true;\n            if (typeof console !== 'undefined') {\n                console.warn(e.message);\n            }\n        }\n        return this._defaultValue;\n    }\n}\n\n\nexport function isExpression(expression: mixed) {\n    return Array.isArray(expression) && expression.length > 0 && typeof expression[0] === 'string' &&
expression[0] in definitions;\n}\n\n/**\n * Parse and typecheck the given style spec JSON expression. If\n * options.defaultValue is provided, then the resulting StyleExpression's\n * `evaluate()` method will handle errors by logging a warning (once per\n * message) and returning the default value. Otherwise, it will throw\n * evaluation errors.\n */\n\n@private\nexport function createExpression(expression: mixed, propertySpec:
?StylePropertySpecification): Result<StyleExpression, Array<ParsingError>> {\n    const parser = new
ParsingContext(definitions, [], propertySpec ? getExpectedType(propertySpec) : undefined);\n    // For string-
valued properties, coerce to string at the top level rather than asserting.\n    const parsed = parser.parse(expression,
undefined, undefined, undefined,\n        propertySpec && propertySpec.type === 'string' ? {typeAnnotation:
'coerce'} :
undefined);\n    if (!parsed) {\n        assert(parser.errors.length > 0);\n        return error(parser.errors);\n    }\n    return success(new StyleExpression(parsed, propertySpec));\n}\n\n\nexport class ZoomConstantExpression<Kind:
EvaluationKind> {\n    kind: Kind;\n    isStateDependent: boolean;\n    _styleExpression: StyleExpression;\n\n    constructor(kind: Kind, expression: StyleExpression) {\n        this.kind = kind;\n        this._styleExpression =
expression;\n        this.isStateDependent = kind !== ('constant': EvaluationKind) &&
!isConstant.isStateConstant(expression.expression);\n    }\n\n    evaluateWithoutErrorHandling(globals:
GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?:
Array<string>, formattedSection?: FormattedSection): any {\n        return
this._styleExpression.evaluateWithoutErrorHandling(globals, feature, featureState, canonical, availableImages,
formattedSection);\n    }\n\n    evaluate(globals:
GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?:
Array<string>, formattedSection?: FormattedSection): any {\n        return this._styleExpression.evaluate(globals,
feature, featureState, canonical, availableImages, formattedSection);\n    }\n}\n\n\nexport class
ZoomDependentExpression<Kind: EvaluationKind> {\n    kind: Kind;\n    zoomStops: Array<number>;\n    isStateDependent: boolean;\n    _styleExpression: StyleExpression;\n    interpolationType: ?InterpolationType;\n\n    constructor(kind: Kind, expression: StyleExpression, zoomStops: Array<number>, interpolationType?:
InterpolationType) {\n        this.kind = kind;\n        this.zoomStops = zoomStops;\n        this._styleExpression =
expression;\n        this.isStateDependent = kind !== ('camera': EvaluationKind) &&
!isConstant.isStateConstant(expression.expression);\n        this.interpolationType = interpolationType;\n    }\n\n    evaluateWithoutErrorHandling(globals:
GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?:
Array<string>, formattedSection?: FormattedSection): any {\n        return
this._styleExpression.evaluateWithoutErrorHandling(globals, feature, featureState, canonical, availableImages,
formattedSection);\n    }\n\n    evaluate(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState,
canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection): any {\n        return
this._styleExpression.evaluate(globals, feature, featureState, canonical, availableImages, formattedSection);\n    }\n\n    interpolationFactor(input: number, lower: number, upper: number): number {\n        if
(this.interpolationType) {\n            return Interpolate.interpolationFactor(this.interpolationType, input, lower,
upper);\n        } else {\n            return 0;\n        }\n    }\n}\n\n\nexport type ConstantExpression = {\n    kind:
'constant',\n

```

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+evaluate: (globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID,
availableImages?: Array<string>) => any,\n}\n\nexport type SourceExpression = {\n  kind: 'source',\n
isStateDependent: boolean,\n  +evaluate: (globals: GlobalProperties, feature?: Feature, featureState?: FeatureState,
canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection) =>
any,\n};\n\nexport type CameraExpression = {\n  kind: 'camera',\n  +evaluate: (globals: GlobalProperties,
feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>) =>
any,\n  +interpolationFactor: (input: number, lower: number, upper: number) => number,\n  zoomStops:
Array<number>,\n  interpolationType: ?InterpolationType\n};\n\nexport type CompositeExpression = {\n  kind:
'composite',\n  isStateDependent: boolean,\n  +evaluate: (globals: GlobalProperties, feature?: Feature,
featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?:
FormattedSection) => any,\n  +interpolationFactor: (input: number, lower: number, upper: number) => number,\n
zoomStops: Array<number>,\n  interpolationType: ?InterpolationType\n};\n\nexport type StylePropertyExpression
=\n | ConstantExpression\n | SourceExpression\n | CameraExpression\n | CompositeExpression;\n\nexport
function createPropertyExpression(expression: mixed, propertySpec: StylePropertySpecification):
Result<StylePropertyExpression, Array<ParsingError>> {\n  expression = createExpression(expression,
propertySpec);\n  if (expression.result === 'error') {\n    return expression;\n  }\n\n  const parsed =
expression.value.expression;\n\n  const isFeatureConstant = isConstant.isFeatureConstant(parsed);\n  if
(!isFeatureConstant && !supportsPropertyExpression(propertySpec)) {\n    return error([new ParsingError(", 'data
expressions
not supported')]);\n  }\n\n  const isZoomConstant = isConstant.isGlobalPropertyConstant(parsed, ['zoom']);\n  if
(!isZoomConstant && !supportsZoomExpression(propertySpec)) {\n    return error([new ParsingError(", 'zoom
expressions not supported')]);\n  }\n\n  const zoomCurve = findZoomCurve(parsed);\n  if (!zoomCurve &&
!isZoomConstant) {\n    return error([new ParsingError(", \"zoom\" expression may only be used as input to a
top-level \"step\" or \"interpolate\" expression.)]);\n  } else if (zoomCurve instanceof ParsingError) {\n    return
error([zoomCurve]);\n  } else if (zoomCurve instanceof Interpolate && !supportsInterpolation(propertySpec)) {\n
return error([new ParsingError(", \"interpolate\" expressions cannot be used with this property')]);\n  }\n\n  if
(!zoomCurve) {\n    return success(isFeatureConstant ?\n      (new ZoomConstantExpression('constant',
expression.value): ConstantExpression) :\n      (new ZoomConstantExpression('source',
expression.value): SourceExpression));\n  }\n\n  const interpolationType = zoomCurve instanceof Interpolate ?
zoomCurve.interpolation : undefined;\n\n  return success(isFeatureConstant ?\n      (new
ZoomDependentExpression('camera', expression.value, zoomCurve.labels, interpolationType): CameraExpression)
:\n      (new ZoomDependentExpression('composite', expression.value, zoomCurve.labels, interpolationType):
CompositeExpression));\n}\n\nimport {isFunction, createFunction} from '../function';\nimport {Color} from
'./values';\n\n// serialization wrapper for old-style stop functions normalized to the\n// expression interface\nexport
class StylePropertyFunction<T> {\n  _parameters: PropertyValueSpecification<T>;\n  _specification:
StylePropertySpecification;\n\n  kind: EvaluationKind;\n  evaluate: (globals: GlobalProperties, feature?: Feature)
=> any;\n  interpolationFactor: ?(input: number, lower: number, upper: number) => number;\n  zoomStops:
?Array<number>;\n\n  constructor(parameters: PropertyValueSpecification<T>, specification:
StylePropertySpecification) {\n    this._parameters = parameters;\n    this._specification = specification;\n
extend(this, createFunction(this._parameters, this._specification));\n  }\n\n  static deserialize(serialized:
{ _parameters: PropertyValueSpecification<T>, _specification: StylePropertySpecification }) {\n    return ((new
StylePropertyFunction(serialized._parameters, serialized._specification)): StylePropertyFunction<T>);\n  }\n\n
static serialize(input: StylePropertyFunction<T>) {\n    return {\n      _parameters: input._parameters,\n
_specification: input._specification\n    };\n  }\n}\n\nexport function normalizePropertyExpression<T>(value:
PropertyValueSpecification<T>, specification: StylePropertySpecification): StylePropertyExpression {\n  if
(isFunction(value)) {\n    return (new StylePropertyFunction(value, specification):
any);\n  } else if (isExpression(value)) {\n    const expression = createPropertyExpression(value,
specification);\n    if (expression.result === 'error') {\n      // this should have been caught in validation\n

```

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throw new Error(expression.value.map(err => `${err.key}: ${err.message}`).join(', '));\n    }\n    return
expression.value;\n\n    } else {\n        let constant: any = value;\n        if (typeof value === 'string' &&
specification.type === 'color') {\n            constant = Color.parse(value);\n        }\n        return {\n            kind:
'constant',\n            evaluate: () => constant\n        };\n    }\n}\n\n// Zoom-dependent expressions may only use
["zoom"] as the input to a top-level "step" or "interpolate" expression (collectively referred to as a "curve").
The curve may be wrapped in one or more "let" or "coalesce" expressions.\nfunction
findZoomCurve(expression: Expression): Step | Interpolate | ParsingError
| null {\n    let result = null;\n    if (expression instanceof Let) {\n        result =
findZoomCurve(expression.result);\n    } else if (expression instanceof Coalesce) {\n        for (const arg of
expression.args) {\n            result = findZoomCurve(arg);\n            if (result) {\n                break;\n            }\n        }\n    } else if ((expression instanceof Step || expression instanceof Interpolate) &&\n        expression.input
instanceof CompoundExpression &&\n        expression.input.name === 'zoom') {\n        result = expression;\n    }\n\n    if (result instanceof ParsingError) {\n        return result;\n    }\n\n    expression.eachChild((child) => {\n
const childResult = findZoomCurve(child);\n        if (childResult instanceof ParsingError) {\n            result =
childResult;\n        } else if (!result && childResult) {\n            result = new ParsingError(" \"zoom\" expression
may only be used as input to a top-level \"step\" or \"interpolate\"
expression.");\n        } else if (result && childResult && result !== childResult) {\n            result = new
ParsingError(" \"Only one zoom-based \"step\" or \"interpolate\" subexpression may be used in an expression.");\n        }\n    });\n\n    return result;\n}\n\nimport { ColorType, StringType, NumberType, BooleanType, ValueType,
FormattedType, ResolvedImageType, array } from './types';\n\nfunction getExpectedType(spec:
StylePropertySpecification): Type {\n    const types = {\n        color: ColorType,\n        string: StringType,\n        number: NumberType,\n        enum: StringType,\n        boolean: BooleanType,\n        formatted: FormattedType,\n        resolvedImage: ResolvedImageType\n    }; \n    if (spec.type === 'array') {\n        return array(types[spec.value] ||
ValueType, spec.length);\n    }\n\n    return types[spec.type];\n}\n\nfunction getDefaultType(spec:
StylePropertySpecification): Value {\n    if (spec.type === 'color' && isFunction(spec.default))
{\n        // Special case for heatmap-color: it uses the 'default:' to define a\n        // default color ramp, but
createExpression expects a simple value to fall\n        // back to in case of runtime errors\n        return new Color(0,
0, 0, 0);\n    } else if (spec.type === 'color') {\n        return Color.parse(spec.default) || null;\n    } else if (spec.default
=== undefined) {\n        return null;\n    } else {\n        return spec.default;\n    }\n}\n\n", // @flow\n\nimport assert
from 'assert';\nimport type { StylePropertySpecification } from './style-spec';\n\nexport default
convertFunction;\n\nfunction convertLiteral(value) {\n    return typeof value === 'object' ? ['literal', value] :
value;\n}\n\nfunction convertFunction(parameters: any, propertySpec: StylePropertySpecification) {\n    let stops =
parameters.stops;\n    if (!stops) {\n        // identity function\n        return convertIdentityFunction(parameters,
propertySpec);\n    }\n\n    const zoomAndFeatureDependent
= stops && typeof stops[0][0] === 'object';\n    const featureDependent = zoomAndFeatureDependent ||
parameters.property !== undefined;\n    const zoomDependent = zoomAndFeatureDependent ||
!featureDependent;\n\n    stops = stops.map((stop) => {\n        if (!featureDependent && propertySpec.tokens &&
typeof stop[1] === 'string') {\n            return [stop[0], convertTokenString(stop[1]);\n        ]\n        return [stop[0],
convertLiteral(stop[1]);\n    }]);\n\n    if (zoomAndFeatureDependent) {\n        return
convertZoomAndPropertyFunction(parameters, propertySpec, stops);\n    } else if (zoomDependent) {\n        return
convertZoomFunction(parameters, propertySpec, stops);\n    } else {\n        return
convertPropertyFunction(parameters, propertySpec, stops);\n    }\n}\n\nfunction
convertIdentityFunction(parameters, propertySpec): Array<mixed> {\n    const get = ['get',
parameters.property];\n\n    if (parameters.default === undefined) {\n        // By default, expressions for
string-valued properties get coerced. To preserve\n        // legacy function semantics, insert an explicit assertion
instead.\n        return propertySpec.type === 'string' ? ['string', get] : get;\n    } else if (propertySpec.type === 'enum')
{\n        return [\n            'match',\n            get,\n            Object.keys(propertySpec.values),\n            get,\n            parameters.default\n        ];\n    } else {\n        const expression = [propertySpec.type === 'color' ? 'to-color' :

```

```

propertySpec.type, get, convertLiteral(parameters.default));\n    if (propertySpec.type === 'array') {\n
expression.splice(1, 0, propertySpec.value, propertySpec.length || null);\n    }\n    return expression;\n
}\n}\n\nfunction getInterpolateOperator(parameters) {\n    switch (parameters.colorSpace) {\n        case 'hcl': return
'interpolate-hcl';\n        case 'lab': return 'interpolate-lab';\n        default: return 'interpolate';\n    }\n}\n\nfunction
convertZoomAndPropertyFunction(parameters,
    propertySpec, stops) {\n    const featureFunctionParameters = {};\n    const featureFunctionStops = {};\n    const
zoomStops = [];\n    for (let s = 0; s < stops.length; s++) {\n        const stop = stops[s];\n        const zoom =
stop[0].zoom;\n        if (featureFunctionParameters[zoom] === undefined) {\n
featureFunctionParameters[zoom] = {\n            zoom,\n            type: parameters.type,\n            property:
parameters.property,\n            default: parameters.default,\n        };\n        featureFunctionStops[zoom] = [];\n
zoomStops.push(zoom);\n    }\n    featureFunctionStops[zoom].push([stop[0].value, stop[1]]);\n    }\n\n    // the interpolation type for the zoom dimension of a zoom-and-property\n    // function is determined directly from
the style property specification\n    // for which it's being used: linear for interpolatable properties, step\n    //
otherwise.\n    const functionType = getFunctionType({},
    propertySpec);\n    if (functionType === 'exponential') {\n        const expression =
[getInterpolateOperator(parameters), ['linear'], ['zoom']];\n        for (const z of zoomStops) {\n            const output
= convertPropertyFunction(featureFunctionParameters[z], propertySpec, featureFunctionStops[z]);\n
appendStopPair(expression, z, output, false);\n        }\n        return expression;\n    } else {\n        const expression
= ['step', ['zoom']];\n        for (const z of zoomStops) {\n            const output =
convertPropertyFunction(featureFunctionParameters[z], propertySpec, featureFunctionStops[z]);\n
appendStopPair(expression, z, output, true);\n        }\n        fixupDegenerateStepCurve(expression);\n        return
expression;\n    }\n}\n\nfunction coalesce(a, b) {\n    if (a !== undefined) return a;\n    if (b !== undefined) return
b;\n}\n\nfunction convertPropertyFunction(parameters, propertySpec, stops) {\n    const type =
getFunctionType(parameters, propertySpec);\n    const get = ['get', parameters.property];\n    if (type ===
'categorical' && typeof stops[0][0] === 'boolean') {\n        assert(parameters.stops.length > 0 &&
parameters.stops.length <= 2);\n        const expression = ['case'];\n        for (const stop of stops) {\n
expression.push(['=', get, stop[0]], stop[1]);\n        }\n        expression.push(convertLiteral(coalesce(parameters.default, propertySpec.default)));
return expression;\n    }
else if (type === 'categorical') {\n        const expression = ['match', get];\n        for (const stop of stops) {\n
appendStopPair(expression, stop[0], stop[1], false);\n        }\n        expression.push(convertLiteral(coalesce(parameters.default, propertySpec.default)));
return expression;\n    }
else if (type === 'interval') {\n        const expression = ['step', ['number', get]];
for (const stop of stops) {\n            appendStopPair(expression,
stop[0], stop[1], true);\n        }\n        fixupDegenerateStepCurve(expression);\n        return parameters.default ===
undefined ? expression : [\n            'case',\n            ['=', ['typeof', get], 'number'],\n            expression,\n
convertLiteral(parameters.default)\n        ];\n    } else if (type === 'exponential') {\n        const base =
parameters.base !== undefined ? parameters.base : 1;\n        const expression = [\n
getInterpolateOperator(parameters),\n            base === 1 ? ['linear'] : ['exponential', base],\n            ['number',
get]\n        ];\n        for (const stop of stops) {\n            appendStopPair(expression, stop[0], stop[1], false);\n
        }\n        return parameters.default === undefined ? expression : [\n            'case',\n            ['=', ['typeof', get],
'number'],\n            expression,\n            convertLiteral(parameters.default)\n        ];\n    } else {\n        throw new
Error(`Unknown property
function type ${type}`);\n    }\n}\n\nfunction convertZoomFunction(parameters, propertySpec, stops, input =
['zoom']) {\n    const type = getFunctionType(parameters, propertySpec);\n    let expression;\n    let isStep = false;\n
if (type === 'interval') {\n        expression = ['step', input];\n        isStep = true;\n    } else if (type === 'exponential')
{\n        const base = parameters.base !== undefined ? parameters.base : 1;\n        expression =
[getInterpolateOperator(parameters), base === 1 ? ['linear'] : ['exponential', base], input];\n    } else {\n        throw new
Error(`Unknown zoom function type "${type}"`);\n    }\n    for (const stop of stops) {\n

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appendStopPair(expression, stop[0], stop[1], isStep);\n } \n\n fixupDegenerateStepCurve(expression);\n\n
return expression;\n}\n\nfunction fixupDegenerateStepCurve(expression) {\n // degenerate step curve (i.e. a
constant function): add a noop stop\n  if (expression[0] === 'step' && expression.length
=== 3) {\n    expression.push(0);\n    expression.push(expression[3]);\n  }\n}\n\nfunction
appendStopPair(curve, input, output, isStep) {\n // Skip duplicate stop values. They were not validated for
functions, but they are for expressions.\n // https://github.com/mapbox/mapbox-gl-js/issues/4107\n  if
(curve.length > 3 && input === curve[curve.length - 2]) {\n    return;\n  }\n // step curves don't get the first
input value, as it is redundant.\n  if (!(isStep && curve.length === 2)) {\n    curve.push(input);\n  }\n
curve.push(output);\n}\n\nfunction getFunctionType(parameters, propertySpec) {\n  if (parameters.type) {\n
return parameters.type;\n  } else {\n    assert(propertySpec.expression);\n    return (propertySpec.expression:
any).interpolated ? 'exponential' : 'interval';\n  }\n}\n\n// \"String with {name} token\" => [\"concat\", \"String with
\", [\"get\", \"name\"], \" token\"]\n\nexport function convertTokenString(s:
string) {\n  const result = ['concat'];\n  const re = /{([^\}]+)}/g;\n  let pos = 0;\n  for (let match = re.exec(s);
match !== null; match = re.exec(s)) {\n    const literal = s.slice(pos, re.lastIndex - match[0].length);\n    pos =
re.lastIndex;\n    if (literal.length > 0) result.push(literal);\n    result.push(['get', match[1]]);\n  }\n\n  if
(result.length === 1) {\n    return s;\n  }\n\n  if (pos < s.length) {\n    result.push(s.slice(pos));\n  } else if
(result.length === 2) {\n    return ['to-string', result[1]];\n  }\n\n  return result;\n}\n\n\"// @flow\n\nimport
{createExpression} from './expression';\nimport type {GlobalProperties, Feature} from './expression';\nimport type
{CanonicalTileID} from './source/tile_id';\n\ntype FilterExpression = (globalProperties: GlobalProperties, feature:
Feature, canonical?: CanonicalTileID) => boolean;\n\nexport type FeatureFilter = {filter: FilterExpression,
needGeometry: boolean};\n\nexport
default createFilter;\n\nexport {isExpressionFilter};\n\nfunction isExpressionFilter(filter: any) {\n  if (filter === true
|| filter === false) {\n    return true;\n  }\n\n  if (!Array.isArray(filter) || filter.length === 0) {\n    return
false;\n  }\n\n  switch (filter[0]) {\n    case 'has':\n      return filter.length >= 2 && filter[1] !== 'Sid' && filter[1]
!== 'type';\n\n    case 'in':\n      return filter.length >= 3 && (typeof filter[1] !== 'string' ||
Array.isArray(filter[2]));\n\n    case 'in':\n    case '!has':\n    case 'none':\n      return false;\n\n    case '==':\n    case
'!=':\n    case '>':\n    case '>':\n    case '<':\n    case '<':\n      return filter.length !== 3 || (Array.isArray(filter[1]) ||
Array.isArray(filter[2]));\n\n    case 'any':\n    case 'all':\n      for (const f of filter.slice(1)) {\n        if
(!isExpressionFilter(f) && typeof f !== 'boolean') {\n          return false;\n        }\n      }\n\n      return true;\n\n    default:\n      return true;\n  }\n}\n\nconst filterSpec = {\n  'type': 'boolean',\n  'default':
false,\n  'transition': false,\n  'property-type': 'data-driven',\n  'expression': {\n    'interpolated': false,\n
'parameters': ['zoom', 'feature']\n  }\n};\n\n/**\n * Given a filter expressed as nested arrays, return a new function\n
* that evaluates whether a given feature (with a .properties or .tags property)\n * passes its test.\n *\n * @private\n *
@param {Array} filter mapbox-gl-filter\n * @returns {Function} filter-evaluating function\n */\n\nfunction
createFilter(filter: any): FeatureFilter {\n  if (filter === null || filter === undefined) {\n    return {filter: () => true,
needGeometry: false};\n  }\n\n  if (!isExpressionFilter(filter)) {\n    filter = convertFilter(filter);\n  }\n\n  const compiled = createExpression(filter, filterSpec);\n  if (compiled.result === 'error') {\n    throw new
Error(compiled.value.map(err
=> `${err.key}: ${err.message}`).join(', '));\n  } else {\n    const needGeometry = geometryNeeded(filter);\n
return {filter: (globalProperties: GlobalProperties, feature: Feature, canonical?: CanonicalTileID) =>
compiled.value.evaluate(globalProperties, feature, {}, canonical),\n      needGeometry};\n  }\n}\n\n//
Comparison function to sort numbers and strings\n\nfunction compare(a, b) {\n  return a < b ? -1 : a > b ? 1 :
0;\n}\n\nfunction geometryNeeded(filter) {\n  if (!Array.isArray(filter)) return false;\n  if (filter[0] === 'within')
return true;\n  for (let index = 1; index < filter.length; index++) {\n    if (geometryNeeded(filter[index])) return
true;\n  }\n  return false;\n}\n\nfunction convertFilter(filter: ?Array<any>): mixed {\n  if (!filter) return true;\n
const op = filter[0];\n  if (filter.length <= 1) return (op !== 'any');\n  const converted =\n    op === '==' ?
convertComparisonOp(filter[1], filter[2], '==')

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:\n    op === '!=' ? convertNegation(convertComparisonOp(filter[1], filter[2], '==')) :\n    op === '<' ||\n    op
=== '>' ||\n    op === '<=' ||\n    op === '>=' ? convertComparisonOp(filter[1], filter[2], op) :\n    op === 'any'
? convertDisjunctionOp(filter.slice(1)) :\n    op === 'all' ? ['all'].concat(filter.slice(1).map(convertFilter)) :\n
op === 'none' ? ['all'].concat(filter.slice(1).map(convertFilter).map(convertNegation)) :\n    op === 'in' ?
convertInOp(filter[1], filter.slice(2)) :\n    op === 'in' ? convertNegation(convertInOp(filter[1], filter.slice(2))) :\n
    op === 'has' ? convertHasOp(filter[1]) :\n    op === 'has' ? convertNegation(convertHasOp(filter[1])) :\n
op === 'within' ? filter :\n    true;\n    return converted;\n}\n\nfunction convertComparisonOp(property: string,
value: any, op: string) {\n    switch (property) {\n        case '$type':\n            return [ `filter-type-${op}`, value];\n        case
'$id':\n            return [ `filter-id-${op}`, value];\n        default:\n            return [ `filter-${op}`, property, value];\n    }\n}\n\nfunction
convertDisjunctionOp(filters: Array<Array<any>>) {\n    return
['any'].concat(filters.map(convertFilter));\n}\n\nfunction convertInOp(property: string, values: Array<any>) {\n    if
(values.length === 0) { return false; }\n    switch (property) {\n        case '$type':\n            return [ `filter-type-in`, ['literal',
values]];\n        case '$id':\n            return [ `filter-id-in`, ['literal', values]];\n        default:\n            if (values.length > 200 &&
!values.some(v => typeof v !== typeof values[0])) {\n                return [ `filter-in-large`, property, ['literal',
values.sort(compare)]]; \n            } else {\n                return [ `filter-in-small`, property, ['literal', values]]; \n            }\n    }\n}\n\nfunction convertHasOp(property: string) {\n    switch (property) {\n        case '$type':\n            return true;\n        case '$id':\n            return [ `filter-has-id`];\n        default:\n            return [ `filter-has`, property];\n    }\n}\n\nfunction convertNegation(filter: mixed) {\n    return ['!',
filter];\n}\n\n"/ @flow\n\nimport {isExpressionFilter} from './index';\n\nimport type {FilterSpecification} from
'./types';\n\ntype ExpectedTypes = {[_: string]: 'string' | 'number' | 'boolean'};\n\n/**\n * Convert the given legacy
filter to (the JSON representation of) an\n * equivalent expression\n * @private\n */\n\nexport default function
convertFilter(filter: FilterSpecification): mixed {\n    return _convertFilter(filter, {});\n}\n\n/**\n * Convert the given
filter to an expression, storing the expected types for\n * any feature properties referenced in expectedTypes.\n * These expected types are needed in order to construct preflight type checks\n * needed for handling 'any' filters. A
preflight type check is necessary in\n * order to mimic legacy filters' semantics around expected type mismatches.\n * For example, consider the legacy filter:\n * ["any",\n * ["all", [">", "y"], 0], [">", "y"], 0], [">", "x"], 0]]\n * Naively, we might convert this to the expression:\n * ["any", ["all", [">", ["get", "y"], 0], [">", ["get", "z"], 0], [">", ["get", "x"], 0]]]\n * But if
we tried to evaluate this against, say {x: 1, y: null, z: 0}, the\n * [">", ["get", "y"], 0] would cause an
evaluation error, leading to the\n * entire filter returning false. Legacy filter semantics, though, ask for\n * [">",
"y"], 0] to simply return `false` when `y` is of the wrong type,\n * allowing the subsequent terms of the outer
`any` expression to be evaluated\n * (resulting, in this case, in a `true` value, because x > 0).\n * We account
for this by inserting a preflight type-checking expression before\n * each `any` term, allowing us to avoid
evaluating the actual converted filter\n * if any type mismatches would cause it to produce an evaluation error:\n * ["any",\n * ["case",\n * ["all", ["==", ["typeof", ["get", "y"], "number"], ["==", ["typeof", ["get", "z"], "number"]],\n * ["all", [">", ["get", "y"], 0], [">", ["get", "z"], 0]],\n * false\n * ],\n * ["case",\n * ["==", ["typeof", ["get", "x"], "number"]],\n * [">", ["get", "x"], 0],\n * false\n * ]]\n * ]\n * An alternative, possibly more direct approach would be to use type checks\n * in the conversion of each
comparison operator, so that the converted version\n * of each individual ==, >=, etc. would mimic the legacy filter
semantics. The\n * downside of this approach is that it can lead to many more type checks than\n * would otherwise
be necessary: outside the context of an `any` expression,\n * bailing out due to a runtime type error (expression
semantics) and returning\n * false (legacy filter semantics) are equivalent: they cause the filter to\n * produce a
`false`\n * result.\n */\n\nfunction _convertFilter(filter: FilterSpecification, expectedTypes: ExpectedTypes): mixed {\n    if
(isExpressionFilter(filter)) { return filter; }\n\n    if (!filter) return true;\n    const op = filter[0];\n    if (filter.length
<= 1) return (op !== 'any');\n\n    let converted;\n\n    if (\n        op === '==' ||\n        op === '!=' ||\n        op === '<'

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||\n    op === '>' ||\n    op === '<=' ||\n    op === '>='\n  ) {\n    const [, property, value] = (filter: any);\n    converted = convertComparisonOp(property, value, op, expectedTypes);\n  } else if (op === 'any') {\n    const\n    children = (filter: any).slice(1).map(f => {\n      const types = {};\n      const child = _convertFilter(f,\n      types);\n      const typechecks = runtimeTypeChecks(types);\n      return typechecks === true ? child : ['case',\n      typechecks, child, false];\n    });\n    return ['any'].concat(children);\n  } else if (op === 'all') {\n    const children = (filter: any).slice(1).map(f => _convertFilter(f, expectedTypes));\n    return children.length > 1\n    ? ['all'].concat(children) : [].concat(...children);\n  } else if (op === 'none') {\n    return ['!'],\n    _convertFilter(['any'].concat(filter.slice(1)), {});\n  } else if (op === 'in') {\n    converted =\n    convertInOp((filter[1]: any), filter.slice(2));\n  } else if (op === '!in') {\n    converted = convertInOp((filter[1]:\n    any), filter.slice(2), true);\n  } else if (op === 'has') {\n    converted = convertHasOp((filter[1]: any));\n  } else if\n  (op === '!has') {\n    converted = ['!', convertHasOp((filter[1]: any))];\n  } else {\n    converted = true;\n  }\n  }\n  }\n  return converted;\n}\n\n// Given a set of feature properties and an expected type for each one,\n// construct\n// an boolean expression that tests whether each property has the\n// right type.\n// E.g.: for {name: 'string', population:\n// 'number'}, return\n// ['all',\n// ['==',\n// ['typeof', ['get', 'name'], 'string']],\n// ['==', ['typeof', ['get', 'population'], 'number']]\n// ]\nfunction\nruntimeTypeChecks(expectedTypes: ExpectedTypes) {\n  const conditions = [];\n  for (const property in\n  expectedTypes) {\n    const get = property === '$id' ? ['id'] : ['get', property];\n    conditions.push(['==',\n    ['typeof', get], expectedTypes[property]]);\n  }\n  if (conditions.length === 0) return true;\n  if (conditions.length\n  === 1) return conditions[0];\n  return ['all'].concat(conditions);\n}\n\nfunction convertComparisonOp(property:\nstring, value: any, op: string, expectedTypes: ?ExpectedTypes) {\n  let get;\n  if (property === '$type') {\n    return [op, ['geometry-type'], value];\n  } else if (property === '$id') {\n    get = ['id'];\n  } else {\n    get =\n    ['get', property];\n  }\n  if (expectedTypes && value !== null) {\n    const type = ((typeof value): any);\n    expectedTypes[property] = type;\n  }\n  if\n  (op === '==' && property !== '$id' && value === null) {\n    return [\n    'all',\n    ['has', property], //\n    missing property != null for legacy filters\n    ['==', get, null]\n    ];\n  } else if (op === '!=' && property !==\n  '$id' && value === null) {\n    return [\n    'any',\n    ['!', ['has', property]], // missing property != null for\n    legacy filters\n    ['!=', get, null]\n    ];\n  }\n  return [op, get, value];\n}\n\nfunction\nconvertInOp(property: string, values: Array<any>, negate = false) {\n  if (values.length === 0) return negate;\n  let get;\n  if (property === '$type') {\n    get = ['geometry-type'];\n  } else if (property === '$id') {\n    get =\n    ['id'];\n  } else {\n    get = ['get', property];\n  }\n  // Determine if the list of values to be searched is\n  homogenous typed.\n  // If so (and if the type is string or number), then we can use a\n  // [match, input,\n  [...values],\n  true, false] construction rather than a\n  // bunch of `===` tests.\n  let uniformTypes = true;\n  const type = typeof\n  values[0];\n  for (const value of values) {\n    if (typeof value !== type) {\n      uniformTypes = false;\n      break;\n    }\n  }\n  if (uniformTypes && (type === 'string' || type === 'number')) {\n    // Match\n    expressions must have unique values.\n    const uniqueValues = values.sort().filter((v, i) => i === 0 || values[i - 1]\n    !== v);\n    return ['match', get, uniqueValues, !negate, negate];\n  }\n  return [negate ? 'all' : 'any'].concat(\n  values.map(v => [negate ? '!=' : '==', get, v])\n  );\n}\n\nfunction convertHasOp(property: string) {\n  if\n  (property === '$type') {\n    return true;\n  } else if (property === '$id') {\n    return ['!=', ['id'], null];\n  } else\n  {\n    return ['has', property];\n  }\n}\n\n\"\"\" @flow\n\nimport {\n  eachLayer,\n  eachProperty\n} from\n'./visit';\nimport\n{isExpression} from './expression';\nimport convertFunction, {convertTokenString} from\n'./function/convert';\nimport convertFilter from './feature_filter/convert';\nimport type {StyleSpecification} from\n'./types';\n\n/**\n * Migrate the given style object in place to use expressions. Specifically,\n * this will convert (a)\n * \"stop\" functions, and (b) legacy filters to their\n * expression equivalents.\n */\nexport default function(style:\nStyleSpecification) {\n  const converted = [];\n  eachLayer(style, (layer) => {\n    if (layer.filter) {\n      layer.filter = (convertFilter(layer.filter): any);\n    }\n  });\n  eachProperty(style, {paint: true, layout: true},\n  ({path, value, reference, set}) => {\n    if (isExpression(value)) return;\n    if (typeof value === 'object' &&

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!Array.isArray(value)) {\n      set(convertFunction(value, reference));\n      converted.push(path.join('.'));\n    } else if (reference.tokens
&& typeof value === 'string') {\n      set(convertTokenString(value));\n    }\n  });\n\n  return
style;\n}\n\n", "\nimport migrateToV8 from './migrate/v8';\nimport migrateToExpressions from
 './migrate/expressions';\n\n/**\n * Migrate a Mapbox GL Style to the latest version.\n * @private\n * @alias
migrate\n * @param {object} style a Mapbox GL Style\n * @returns {Object} a migrated style\n * @example\n *
var fs = require('fs');\n * var migrate = require('mapbox-gl-style-spec').migrate;\n * var style =
fs.readFileSync('./style.json', 'utf8');\n * fs.writeFileSync('./style.json', JSON.stringify(migrate(style)));\n *\nexport
default function(style) {\n  let migrated = false;\n  if (style.version === 7) {\n    style = migrateToV8(style);\n   
migrated = true;\n  }\n  if (style.version === 8) {\n    migrated = migrateToExpressions(style);\n   
migrated = true;\n  }\n  if (!migrated) {\n    throw new Error('cannot migrate from', style.version);\n  }\n  return style;\n}\n\n", "\nexport default function (style) {\n  const styleIDs = [];\n  const sourceIDs = [];\n  const compositedSourceLayers = [];\n  for (const id in style.sources) {\n    const source = style.sources[id];\n    if (source.type !== "vector")\n      continue;\n    const match = /^mapbox:\\\\(\\(.*)\\.exec(source.url));\n    if (!match)\n      continue;\n    styleIDs.push(id);\n    sourceIDs.push(match[1]);\n  }\n  if
(styleIDs.length < 2)\n    return style;\n  styleIDs.forEach((id) => {\n    delete style.sources[id];\n  });\n  const compositeID = sourceIDs.join(",");\n  style.sources[compositeID] = {\n    "type": "vector",\n
"url": `mapbox://${compositeID}`\n  };\n  style.layers.forEach((layer) => {\n    if
(styleIDs.indexOf(layer.source) >= 0) {\n      layer.source = compositeID;\n      if ('source-layer' in layer)
{\n
        if (compositedSourceLayers.indexOf(layer['source-layer']) >= 0) {\n          throw new Error('Conflicting
source layer names');\n        } else {\n          compositedSourceLayers.push(layer['source-layer']);\n        }
      }\n    }\n  });\n  return style;\n}\n\n", "\nexport default ['type', 'source', 'source-layer', 'minzoom',
'maxzoom', 'filter', 'layout'];\n\n", "\nimport refProperties from './util/ref_properties';\n\nfunction deref(layer, parent)
{\n  const result = {};\n  for (const k in layer) {\n    if (k !== 'ref') {\n      result[k] = layer[k];\n    }\n  }\n  refProperties.forEach((k) => {\n    if (k in parent) {\n      result[k] = parent[k];\n    }\n  });\n  return result;\n}\n\nexport default derefLayers;\n\n/**\n * Given an array of layers, some of which may contain `ref`
properties\n * whose value is the `id` of another property, return a new array where\n * such layers have
been augmented with the 'type', 'source', etc. properties\n * from the parent layer, and the `ref` property has been
removed.\n * @private\n * @param {Array<Layer>} layers\n * @returns {Array<Layer>}\n *\nfunction derefLayers(layers) {\n  layers = layers.slice();\n  const map = Object.create(null);\n  for (let i = 0; i < layers.length; i++) {\n
map[layers[i].id] = layers[i];\n  }\n  for (let i = 0; i < layers.length; i++) {\n    if ('ref' in layers[i]) {\n
layers[i] = deref(layers[i], map[layers[i].ref]);\n    }\n  }\n  return layers;\n}\n\n", "\n @flow\n\n/**\n * Deeply
compares two object literals.\n * @private\n *\nfunction deepEqual(a: ?mixed, b: ?mixed): boolean {\n  if
(Array.isArray(a)) {\n    if (!Array.isArray(b) || a.length !== b.length) return false;\n    for (let i = 0; i < a.length;
i++) {\n      if (!deepEqual(a[i],
b[i])) return false;\n    }\n    return true;\n  }\n  if (typeof a === 'object' && a !== null && b !== null) {\n
if (!(typeof b === 'object')) return false;\n    const keys = Object.keys(a);\n    if (keys.length !==
Object.keys(b).length) return false;\n    for (const key in a) {\n      if (!deepEqual(a[key], b[key])) return
false;\n    }\n    return true;\n  }\n  return a === b;\n}\n\nexport default deepEqual;\n\n", "\nimport isEqual from
 './util/deep_equal';\n\nconst operations = {\n  /*\n   * { command: 'setStyle', args: [stylesheet] }\n   *\n  setStyle: 'setStyle',\n  /*\n   * { command: 'addLayer', args: [layer, 'beforeLayerId'] }\n   *\n  addLayer:
'addLayer',\n  /*\n   * { command: 'removeLayer', args: ['layerId'] }\n   *\n  removeLayer: 'removeLayer',\n  /*\n   * { command: 'setPaintProperty', args: ['layerId', 'prop', value] }\n   *\n  setPaintProperty:
'setPaintProperty',\n  /*\n   * { command: 'setLayoutProperty', args: ['layerId', 'prop', value] }\n   *\n  setLayoutProperty:
'setLayoutProperty',\n  /*\n   * { command: 'setFilter', args: ['layerId', filter] }\n   *\n  setFilter: 'setFilter',\n\n

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/*\n * { command: 'addSource', args: ['sourceId', source] }\n */\n addSource: 'addSource',\n\n /*\n * {
command: 'removeSource', args: ['sourceId'] }\n */\n removeSource: 'removeSource',\n\n /*\n * {
command: 'setGeoJSONSourceData', args: ['sourceId', data] }\n */\n setGeoJSONSourceData:
'setGeoJSONSourceData',\n\n /*\n * { command: 'setLayerZoomRange', args: ['layerId', 0, 22] }\n */\n
setLayerZoomRange: 'setLayerZoomRange',\n\n /*\n * { command: 'setLayerProperty', args: ['layerId', 'prop',
value] }\n */\n setLayerProperty: 'setLayerProperty',\n\n /*\n * { command: 'setCenter', args: [[lon, lat] ]}\n
*/\n setCenter: 'setCenter',\n\n /*\n * { command:
'setZoom', args: [zoom] }\n */\n setZoom: 'setZoom',\n\n /*\n * { command: 'setBearing', args: [bearing]
}\n */\n setBearing: 'setBearing',\n\n /*\n * { command: 'setPitch', args: [pitch] }\n */\n setPitch:
'setPitch',\n\n /*\n * { command: 'setSprite', args: ['spriteUrl'] }\n */\n setSprite: 'setSprite',\n\n /*\n * {
command: 'setGlyphs', args: ['glyphsUrl'] }\n */\n setGlyphs: 'setGlyphs',\n\n /*\n * { command:
'setTransition', args: [transition] }\n */\n setTransition: 'setTransition',\n\n /*\n * { command: 'setLighting',
args: [lightProperties] }\n */\n setLight: 'setLight'\n\n};\n\nfunction addSource(sourceId, after, commands) {\n
commands.push({command: operations.addSource, args: [sourceId, after[sourceId]]});\n\n}\n\nfunction
removeSource(sourceId, commands, sourcesRemoved) {\n commands.push({command: operations.removeSource,
args: [sourceId]});\n sourcesRemoved[sourceId] = true;\n\n}\n\nfunction
updateSource(sourceId, after, commands, sourcesRemoved) {\n removeSource(sourceId, commands,
sourcesRemoved);\n addSource(sourceId, after, commands);\n\n}\n\nfunction canUpdateGeoJSON(before, after,
sourceId) {\n let prop;\n for (prop in before[sourceId]) {\n if (!before[sourceId].hasOwnProperty(prop))
continue;\n if (prop !== 'data' && !isEqual(before[sourceId][prop], after[sourceId][prop])) {\n return
false;\n }\n }\n for (prop in after[sourceId]) {\n if (!after[sourceId].hasOwnProperty(prop)) continue;\n
if (prop !== 'data' && !isEqual(before[sourceId][prop], after[sourceId][prop])) {\n return false;\n }\n
}\n return true;\n}\n\nfunction diffSources(before, after, commands, sourcesRemoved) {\n before = before ||
{};\n after = after || {};\n\n let sourceId;\n\n // look for sources to remove\n for (sourceId in before) {\n if
(!before.hasOwnProperty(sourceId)) continue;\n
if (!after.hasOwnProperty(sourceId)) {\n removeSource(sourceId, commands, sourcesRemoved);\n
}\n }\n\n // look for sources to add/update\n for (sourceId in after) {\n if
(!after.hasOwnProperty(sourceId)) continue;\n if (!before.hasOwnProperty(sourceId)) {\n
addSource(sourceId, after, commands);\n } else if (!isEqual(before[sourceId], after[sourceId])) {\n if
(before[sourceId].type === 'geojson' && after[sourceId].type === 'geojson' && canUpdateGeoJSON(before, after,
sourceId)) {\n commands.push({command: operations.setGeoJSONSourceData, args: [sourceId,
after[sourceId].data]});\n } else {\n // no update command, must remove then add\n
updateSource(sourceId, after, commands, sourcesRemoved);\n }\n }\n }\n\n}\n\nfunction
diffLayerPropertyChanges(before, after, commands, layerId, klass, command) {\n before = before || {};\n after
= after || {};\n\n let prop;\n\n for (prop in before) {\n if (!before.hasOwnProperty(prop)) continue;\n if
(!isEqual(before[prop], after[prop])) {\n commands.push({command, args: [layerId, prop, after[prop],
klass]});\n }\n }\n\n for (prop in after) {\n if (!after.hasOwnProperty(prop)) ||
before.hasOwnProperty(prop)) continue;\n if (!isEqual(before[prop], after[prop])) {\n
commands.push({command, args: [layerId, prop, after[prop], klass]});\n }\n }\n\n}\n\nfunction pluckId(layer)
{\n return layer.id;\n}\n\nfunction indexById(group, layer) {\n group[layer.id] = layer;\n return
group;\n}\n\nfunction diffLayers(before, after, commands) {\n before = before || [];\n after = after || [];\n\n //
order of layers by id\n const beforeOrder = before.map(pluckId);\n const afterOrder = after.map(pluckId);\n\n
// index of layer by id\n const beforeIndex = before.reduce(indexById, {});\n const
afterIndex = after.reduce(indexById, {});\n\n // track order of layers as if they have been mutated\n const
tracker = beforeOrder.slice();\n\n // layers that have been added do not need to be diffed\n const clean =
Object.create(null);\n\n let i, d, layerId, beforeLayer, afterLayer, insertBeforeLayerId, prop;\n\n // remove
layers\n for (i = 0, d = 0; i < beforeOrder.length; i++) {\n layerId = beforeOrder[i];\n if
(!afterIndex.hasOwnProperty(layerId)) {\n commands.push({command: operations.removeLayer, args:

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[layerId]);\n      tracker.splice(tracker.indexOf(layerId, d), 1);\n    } else {\n      // limit where in tracker
we need to look for a match\n      d++;\n    }\n  }\n\n  // add/reorder layers\n  for (i = 0, d = 0; i <
afterOrder.length; i++) {\n    // work backwards as insert is before an existing layer\n    layerId =
afterOrder[afterOrder.length - 1 - i];\n\n    if (tracker[tracker.length -
1 - i] === layerId) continue;\n\n    if (beforeIndex.hasOwnProperty(layerId)) {\n      // remove the layer before
we insert at the correct position\n      commands.push({command: operations.removeLayer, args: [layerId]});\n      tracker.splice(tracker.lastIndexOf(layerId, tracker.length - d), 1);\n    } else {\n      // limit where in tracker
we need to look for a match\n      d++;\n    }\n\n    // add layer at correct position\n    insertBeforeLayerId
= tracker[tracker.length - i];\n    commands.push({command: operations.addLayer, args: [afterIndex[layerId],
insertBeforeLayerId]});\n    tracker.splice(tracker.length - i, 0, layerId);\n    clean[layerId] = true;\n  }\n\n  //
update layers\n  for (i = 0; i < afterOrder.length; i++) {\n    layerId = afterOrder[i];\n    beforeLayer =
beforeIndex[layerId];\n    afterLayer = afterIndex[layerId];\n\n    // no need to update if previously added (new
or moved)\n    if (clean[layerId] || isEqual(beforeLayer, afterLayer)) continue;\n\n    // If source, source-layer, or type have
changes, then remove the layer\n    // and add it back 'from scratch'.\n    if (!isEqual(beforeLayer.source,
afterLayer.source) || !isEqual(beforeLayer['source-layer'], afterLayer['source-layer']) || !isEqual(beforeLayer.type,
afterLayer.type)) {\n      commands.push({command: operations.removeLayer, args: [layerId]});\n      // we
add the layer back at the same position it was already in, so\n      // there's no need to update the `tracker`\n      insertBeforeLayerId = tracker[tracker.lastIndexOf(layerId) + 1];\n      commands.push({command:
operations.addLayer, args: [afterLayer, insertBeforeLayerId]});\n      continue;\n    }\n\n    // layout, paint,
filter, minzoom, maxzoom\n    diffLayerPropertyChanges(beforeLayer.layout, afterLayer.layout, commands,
layerId, null, operations.setLayoutProperty);\n\n    diffLayerPropertyChanges(beforeLayer.paint, afterLayer.paint, commands, layerId, null,
operations.setPaintProperty);\n    if (!isEqual(beforeLayer.filter, afterLayer.filter)) {\n      commands.push({command: operations.setFilter, args: [layerId, afterLayer.filter]});\n    }\n\n    if
(!isEqual(beforeLayer.minzoom, afterLayer.minzoom) || !isEqual(beforeLayer.maxzoom, afterLayer.maxzoom)) {\n      commands.push({command: operations.setLayerZoomRange, args: [layerId, afterLayer.minzoom,
afterLayer.maxzoom]});\n    }\n\n    // handle all other layer props, including paint.*\n    for (prop in
beforeLayer) {\n      if (!beforeLayer.hasOwnProperty(prop)) continue;\n      if (prop === 'layout' || prop ===
'paint' || prop === 'filter' ||\n        prop === 'metadata' || prop === 'minzoom' || prop === 'maxzoom') continue;\n      if (prop.indexOf('paint.') === 0) {\n        diffLayerPropertyChanges(beforeLayer[prop], afterLayer[prop],
commands, layerId, prop.slice(6), operations.setPaintProperty);\n      } else if (!isEqual(beforeLayer[prop],
afterLayer[prop])) {\n        commands.push({command: operations.setLayerProperty, args: [layerId, prop,
afterLayer[prop]]});\n      }\n    }\n\n    for (prop in afterLayer) {\n      if
(!afterLayer.hasOwnProperty(prop) || beforeLayer.hasOwnProperty(prop)) continue;\n      if (prop === 'layout' ||
prop === 'paint' || prop === 'filter' ||\n        prop === 'metadata' || prop === 'minzoom' || prop === 'maxzoom')
continue;\n      if (prop.indexOf('paint.') === 0) {\n        diffLayerPropertyChanges(beforeLayer[prop],
afterLayer[prop], commands, layerId, prop.slice(6), operations.setPaintProperty);\n      } else if
(!isEqual(beforeLayer[prop], afterLayer[prop])) {\n        commands.push({command:
operations.setLayerProperty, args: [layerId, prop, afterLayer[prop]]});\n      }\n    }\n  }\n\n  // **\n
* Diff two stylesheets\n * Creates semantically aware diffs that can easily be applied at runtime.\n * Operations
produced by the diff closely resemble the mapbox-gl-js API. Any\n * error creating the diff will fall back to the
'setStyle' operation.\n * Example diff:\n * [\n *   { command: 'setConstant', args: ['@water', '#0000FF'] },\n *
{ command: 'setPaintProperty', args: ['background', 'background-color', 'black'] }\n * ]\n * \n * @private\n * @param
{*} [before] stylesheet to compare from\n * @param {*} [after] stylesheet to compare to\n * @returns Array list of
changes\n */\nfunction diffStyles(before, after) {\n  if (!before) return [{command: operations.setStyle, args:
[after]}];\n\n  let commands = [];\n\n  try {\n    // Handle changes to top-level properties\n    if
(!isEqual(before.version, after.version)) {\n      return [{command: operations.setStyle, args: [after]}];\n    }\n

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    if (!isEqual(before.center, after.center)) {\n
      commands.push({command: operations.setCenter, args: [after.center]});\n    }\n    if
(isEqual(before.zoom, after.zoom)) {\n      commands.push({command: operations.setZoom, args:
[after.zoom]});\n    }\n    if (!isEqual(before.bearing, after.bearing)) {\n      commands.push({command:
operations.setBearing, args: [after.bearing]});\n    }\n    if (!isEqual(before.pitch, after.pitch)) {\n
commands.push({command: operations.setPitch, args: [after.pitch]});\n    }\n    if (!isEqual(before.sprite,
after.sprite)) {\n      commands.push({command: operations.setSprite, args: [after.sprite]});\n    }\n    if
(!isEqual(before.glyphs, after.glyphs)) {\n      commands.push({command: operations.setGlyphs, args:
[after.glyphs]});\n    }\n    if (!isEqual(before.transition, after.transition)) {\n
commands.push({command: operations.setTransition, args: [after.transition]});\n    }\n    if
(!isEqual(before.light, after.light)) {\n      commands.push({command: operations.setLight, args:
[after.light]});\n    }\n\n    // Handle changes to `sources`\n    // If a source is to be removed, we also--before
the removeSource\n    // command--need to remove all the style layers that depend on it.\n    const
sourcesRemoved = {};\n    // First collect the {add,remove}Source commands\n    const
removeOrAddSourceCommands = [];\n    diffSources(before.sources, after.sources,
removeOrAddSourceCommands, sourcesRemoved);\n\n    // Push a removeLayer command for each style layer
that depends on a\n    // source that's being removed.\n    // Also, exclude any such layers them from the input to
`diffLayers`\n    // below, so that diffLayers produces the appropriate `addLayers`\n    // command\n    const
beforeLayers = [];\n    if (before.layers) {\n      before.layers.forEach((layer) => {\n        if
(sourcesRemoved[layer.source])\n        {\n          commands.push({command: operations.removeLayer, args: [layer.id]});\n        } else {\n
beforeLayers.push(layer);\n        }\n      });\n    }\n    commands =
commands.concat(removeOrAddSourceCommands);\n\n    // Handle changes to `layers`\n    diffLayers(beforeLayers, after.layers, commands);\n\n  } catch (e) {\n    // fall back to setStyle\n    console.warn('Unable to compute style diff:', e);\n    commands = [{command: operations.setStyle, args:
[after]}];\n  }\n  return commands;\n}\n\n\nexport default diffStyles;\nexport {operations};\n", "@flow\n\n//
Note: Do not inherit from Error. It breaks when transpiling to ES5.\n\nexport default class ValidationError {\n
message: string;\n identifier: ?string;\n line: ?number;\n\n constructor(key: ?string, value: ?{ __line__: number
}, message: string, identifier: ?string) {\n   this.message = (key ? `_${key}`\n   ` : ") + message;\n   if (identifier) this.identifier = identifier;\n   if (value !== null && value !== undefined
&& value.__line__) {\n     this.line = value.__line__;\n   }\n }\n\n", "@flow\n\n// Note: Do not inherit
from Error. It breaks when transpiling to ES5.\n\nexport default class ParsingError {\n message: string;\n error:
Error;\n line: number;\n\n constructor(error: Error) {\n   this.error = error;\n   this.message =
error.message;\n   const match = error.message.match(/line ((\d+)/);\n   this.line = match ? parseInt(match[1],
10) : 0;\n }\n\n", "\nimport ValidationError from '../error/validation_error';\n\nexport default function
validateConstants(options) {\n  const key = options.key;\n  const constants = options.value;\n\n  if (constants)
{\n    return [new ValidationError(key, constants, 'constants have been deprecated as of v8')];\n  } else {\n
return [];\n }\n\n", "@flow\n\n//
Turn jsonlint-lines-primitives objects into primitive objects\n\nexport function unbundle(value: mixed) {\n  if (value
instanceof Number || value instanceof String || value instanceof Boolean) {\n    return value.valueOf();\n  } else
{\n    return value;\n  }\n}\n\nexport function deepUnbundle(value: mixed): mixed {\n  if
(Array.isArray(value)) {\n    return value.map(deepUnbundle);\n  } else if (value instanceof Object && !(value
instanceof Number || value instanceof String || value instanceof Boolean)) {\n    const unbundledValue: { [key:
string]: mixed } = {};\n    for (const key in value) {\n      unbundledValue[key] =
deepUnbundle(value[key]);\n    }\n    return unbundledValue;\n  }\n\n  return
unbundle(value);\n}\n\n", "\nimport ValidationError from '../error/validation_error';\nimport getType from
'../util/get_type';\nimport validateSpec from './validate';\n\nexport default function validateObject(options) {\n
const key = options.key;\n

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const object = options.value;\n  const elementSpecs = options.valueSpec || {};\n  const elementValidators =
options.objectElementValidators || {};\n  const style = options.style;\n  const styleSpec = options.styleSpec;\n  let errors = [];\n\n  const type = getType(object);\n  if (type !== 'object') {\n    return [new ValidationError(key,
object, `object expected, ${type} found`)];\n  }\n\n  for (const objectKey in object) {\n    const
elementSpecKey = objectKey.split('.')[0]; // treat 'paint.*' as 'paint'\n    const elementSpec =
elementSpecs[elementSpecKey] || elementSpecs['*'];\n\n    let validateElement;\n    if
(elementValidators[elementSpecKey]) {\n      validateElement = elementValidators[elementSpecKey];\n    }
else if (elementSpecs[elementSpecKey]) {\n      validateElement = validateSpec;\n    } else if
(elementValidators['*']) {\n      validateElement = elementValidators['*'];\n    } else if (elementSpecs['*'])
{\n      validateElement = validateSpec;\n    } else {\n      errors.push(new ValidationError(key,
object[objectKey], `unknown property \`${objectKey}\``));\n      continue;\n    }\n\n    errors =
errors.concat(validateElement({\n      key: (key ? `${key}` : key) + objectKey,\n      value:
object[objectKey],\n      valueSpec: elementSpec,\n      style,\n      styleSpec,\n      object,\n
objectKey\n    }, object));\n  }\n\n  for (const elementSpecKey in elementSpecs) {\n    // Don't check
`required` when there's a custom validator for that property.\n    if (elementValidators[elementSpecKey]) {\n
continue;\n    }\n\n    if (elementSpecs[elementSpecKey].required &&
elementSpecs[elementSpecKey]['default'] === undefined && object[elementSpecKey] === undefined) {\n
errors.push(new ValidationError(key, object, `missing required property \`${elementSpecKey}\``));\n
  }\n  }\n\n  return errors;\n}\n\n",\n\nimport getType from './util/get_type';\nimport validate from
'./validate';\nimport ValidationError from './error/validation_error';\n\nexport default function
validateArray(options) {\n  const array = options.value;\n  const arraySpec = options.valueSpec;\n  const style =
options.style;\n  const styleSpec = options.styleSpec;\n  const key = options.key;\n  const validateArrayElement
= options.arrayElementValidator || validate;\n\n  if (getType(array) !== 'array') {\n    return [new
ValidationError(key, array, `array expected, ${getType(array)} found`)];\n  }\n\n  if (arraySpec.length &&
array.length !== arraySpec.length) {\n    return [new ValidationError(key, array, `array length
${arraySpec.length} expected, length ${array.length} found`)];\n  }\n\n  if (arraySpec['min-length'] &&
array.length < arraySpec['min-length']) {\n    return [new ValidationError(key, array, `array length at least
${arraySpec['min-length']}\n  expected, length ${array.length} found`)];\n  }\n\n  let arrayElementSpec = {\n    "type": arraySpec.value,\n
"values": arraySpec.values\n  };\n\n  if (styleSpec.$version < 7) {\n    arrayElementSpec.function =
arraySpec.function;\n  }\n\n  if (getType(arraySpec.value) === 'object') {\n    arrayElementSpec =
arraySpec.value;\n  }\n\n  let errors = [];\n  for (let i = 0; i < array.length; i++) {\n    errors =
errors.concat(validateArrayElement({\n    array,\n    arrayIndex: i,\n    value: array[i],\n
valueSpec: arrayElementSpec,\n    style,\n    styleSpec,\n    key: `${key}[${i}`\n  }));\n  }\n\n  return errors;\n}\n\n",\n\nimport getType from './util/get_type';\nimport ValidationError from
'./error/validation_error';\n\nexport default function validateNumber(options) {\n  const key = options.key;\n  const value = options.value;\n  const valueSpec =
options.valueSpec;\n  let type = getType(value);\n\n  // eslint-disable-next-line no-self-compare\n  if (type ===
'number' && value !== value) {\n    type = 'NaN';\n  }\n\n  if (type !== 'number') {\n    return [new
ValidationError(key, value, `number expected, ${type} found`)];\n  }\n\n  if ('minimum' in valueSpec && value <
valueSpec.minimum) {\n    return [new ValidationError(key, value, `${value} is less than the minimum value
${valueSpec.minimum}`)];\n  }\n\n  if ('maximum' in valueSpec && value > valueSpec.maximum) {\n    return
[new ValidationError(key, value, `${value} is greater than the maximum value ${valueSpec.maximum}`)];\n
  }\n\n  return [];\n}\n\n",\n\nimport ValidationError from './error/validation_error';\nimport getType from
'./util/get_type';\nimport validate from './validate';\nimport validateObject from './validate_object';\nimport
validateArray from './validate_array';\nimport validateNumber from './validate_number';\nimport {isExpression}
from './expression';\nimport {unbundle, deepUnbundle} from './util/unbundle_jsonlint';\nimport {\n  supportsPropertyExpression,\n  supportsZoomExpression,\n  supportsInterpolation\n} from

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'./util/properties';\n\nexport default function validateFunction(options) {\n  const functionValueSpec =
options.valueSpec;\n  const functionType = unbundle(options.value.type);\n  let stopKeyType;\n  let
stopDomainValues = {};\n  let previousStopDomainValue;\n  let previousStopDomainZoom;\n\n  const
isZoomFunction = functionType !== 'categorical' && options.value.property === undefined;\n  const
isPropertyFunction = !isZoomFunction;\n  const isZoomAndPropertyFunction =\n
getType(options.value.stops) === 'array' &&\n  getType(options.value.stops[0]) === 'array' &&\n
getType(options.value.stops[0][0]) === 'object';\n\n  const errors = validateObject({\n    key: options.key,\n
value: options.value,\n    valueSpec: options.styleSpec.function,\n
style: options.style,\n    styleSpec: options.styleSpec,\n    objectElementValidators: {\n      stops:
validateFunctionStops,\n      default: validateFunctionDefault\n    }\n  });\n\n  if (functionType ===
'identity' && isZoomFunction) {\n    errors.push(new ValidationError(options.key, options.value, 'missing
required property \"property\"));\n  }\n\n  if (functionType !== 'identity' && !options.value.stops) {\n
errors.push(new ValidationError(options.key, options.value, 'missing required property \"stops\"));\n  }\n\n  if
(functionType === 'exponential' && options.valueSpec.expression && !supportsInterpolation(options.valueSpec))
{\n    errors.push(new ValidationError(options.key, options.value, 'exponential functions not supported'));\n
  }\n\n  if (options.styleSpec.$version >= 8) {\n    if (isPropertyFunction &&
!supportsPropertyExpression(options.valueSpec)) {\n      errors.push(new ValidationError(options.key,
options.value, 'property functions not supported'));\n    } else if (isZoomFunction &&
!supportsZoomExpression(options.valueSpec)) {\n      errors.push(new ValidationError(options.key,
options.value, 'zoom functions not supported'));\n    }\n  }\n\n  if ((functionType === 'categorical' ||
isZoomAndPropertyFunction) && options.value.property === undefined) {\n    errors.push(new
ValidationError(options.key, options.value, \"\"property\" property is required));\n  }\n\n  return errors;\n\n
function validateFunctionStops(options) {\n  if (functionType === 'identity') {\n    return [new
ValidationError(options.key, options.value, 'identity function may not have a \"stops\" property)];\n  }\n\n
let errors = [];\n  const value = options.value;\n\n  errors = errors.concat(validateArray({\n    key:
options.key,\n    value,\n    valueSpec: options.valueSpec,\n    style: options.style,\n
styleSpec: options.styleSpec,\n    arrayElementValidator: validateFunctionStop\n  }));\n\n  if
(getType(value) === 'array' && value.length === 0) {\n    errors.push(new ValidationError(options.key, value,
'array must have at least one stop'));\n  }\n\n  return errors;\n}\n\nfunction
validateFunctionStop(options) {\n  let errors = [];\n  const value = options.value;\n  const key =
options.key;\n\n  if (getType(value) !== 'array') {\n    return [new ValidationError(key, value, `array
expected, ${getType(value)} found`)];\n  }\n\n  if (value.length !== 2) {\n    return [new
ValidationError(key, value, `array length 2 expected, length ${value.length} found`)];\n  }\n\n  if
(isZoomAndPropertyFunction) {\n    if (getType(value[0]) !== 'object') {\n      return [new
ValidationError(key, value, `object expected, ${getType(value[0])} found`)];\n    }\n\n    if (value[0].zoom === undefined) {\n      return [new ValidationError(key, value, 'object
stop key must have zoom)];\n    }\n\n    if (value[0].value === undefined) {\n      return [new
ValidationError(key, value, 'object stop key must have value)];\n    }\n\n    if (previousStopDomainZoom
&& previousStopDomainZoom > unbundle(value[0].zoom)) {\n      return [new ValidationError(key,
value[0].zoom, 'stop zoom values must appear in ascending order)];\n    }\n\n    if (unbundle(value[0].zoom)
!== previousStopDomainZoom) {\n      previousStopDomainZoom = unbundle(value[0].zoom);\n    }\n\n    previousStopDomainValue = undefined;\n    stopDomainValues = {};\n  }\n\n  errors =
errors.concat(validateObject({\n    key: `_${key}[0]`,\n    value: value[0],\n    valueSpec:
{zoom: {}},\n    style: options.style,\n    styleSpec: options.styleSpec,\n    objectElementValidators: {zoom: validateNumber, value:
validateStopDomainValue}\n  }));\n  } else {\n    errors =
errors.concat(validateStopDomainValue({\n    key: `_${key}[0]`,\n    value: value[0],\n
valueSpec: {},\n    style: options.style,\n    styleSpec: options.styleSpec\n  }, value));\n

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}\n\n    if (isExpression(deepUnbundle(value[1]))) {\n        return errors.concat([new
ValidationError(`${key}[1]`, value[1], 'expressions are not allowed in function stops.')]);\n    }\n\n    return
errors.concat(validate({\n        key: `${key}[1]`,\n        value: value[1],\n        valueSpec:
functionValueSpec,\n        style: options.style,\n        styleSpec: options.styleSpec\n    }));\n}\n\nfunction validateStopDomainValue(options, stop) {\n    const type = getType(options.value);\n
    const value = unbundle(options.value);\n\n    const reportValue = options.value !== null ? options.value :
stop;\n\n    if (!stopKeyType) {\n        stopKeyType = type;\n    } else if (type !== stopKeyType) {\n
return [new ValidationError(options.key, reportValue, `${type} stop domain type must match previous stop domain
type ${stopKeyType}`)];\n    }\n\n    if (type !== 'number' && type !== 'string' && type !== 'boolean') {\n
return [new ValidationError(options.key, reportValue, 'stop domain value must be a number, string, or boolean')];\n
}\n\n    if (type !== 'number' && functionType !== 'categorical') {\n        let message = `number expected,
${type} found`;\n        if (supportsPropertyExpression(functionValueSpec) && functionType === undefined) {\n
message += `\nIf you intended to use a categorical function, specify `"type": "categorical"`.`;
}\n
}\n\n    return [new ValidationError(options.key, reportValue, message)];\n}\n\n    if (functionType ===
'categorical' && type === 'number' && (!isFinite(value) || Math.floor(value) !== value)) {\n        return [new
ValidationError(options.key, reportValue, `integer expected, found ${value}`)];\n    }\n\n    if (functionType
!== 'categorical' && type === 'number' && previousStopDomainValue !== undefined && value <
previousStopDomainValue) {\n        return [new ValidationError(options.key, reportValue, 'stop domain values
must appear in ascending order')];\n    } else {\n        previousStopDomainValue = value;\n    }\n\n    if
(functionType === 'categorical' && value in stopDomainValues) {\n        return [new
ValidationError(options.key, reportValue, 'stop domain values must be unique')];\n    } else {\n
stopDomainValues[value] = true;\n    }\n\n    return [];\n}\n\nfunction validateFunctionDefault(options)
{\n
    return validate({\n        key: options.key,\n        value: options.value,\n        valueSpec:
functionValueSpec,\n        style: options.style,\n        styleSpec: options.styleSpec\n    });\n}\n\n"}\n\n//
@flow\n\nimport ValidationError from '../error/validation_error';\n\nimport {createExpression,
createPropertyExpression} from '../expression';\nimport {deepUnbundle} from '../util/unbundle_jsonlint';\nimport
{isStateConstant, isGlobalPropertyConstant, isFeatureConstant} from '../expression/is_constant';\n\nexport default
function validateExpression(options: any): Array<ValidationError> {\n    const expression =
(options.expressionContext === 'property' ? createPropertyExpression :
createExpression)(deepUnbundle(options.value), options.valueSpec);\n    if (expression.result === 'error') {\n
return expression.value.map((error) => {\n        return new ValidationError(`${options.key}${error.key}`,
options.value, error.message);\n    });\n
}\n\n    const expressionObj = (expression.value: any).expression || (expression.value:
any)._styleExpression.expression;\n\n    if (options.expressionContext === 'property' && (options.propertyKey ===
'text-font') &&\n        !expressionObj.outputDefined()) {\n        return [new ValidationError(options.key,
options.value, `Invalid data expression for "${options.propertyKey}". Output values must be contained as literals
within the expression.`)];\n    }\n\n    if (options.expressionContext === 'property' && options.propertyType ===
'layout' &&\n        (!isStateConstant(expressionObj))) {\n        return [new ValidationError(options.key,
options.value, `"feature-state" data expressions are not supported with layout properties.`)];\n    }\n\n    if
(options.expressionContext === 'filter' && !isStateConstant(expressionObj)) {\n        return [new
ValidationError(options.key, options.value, `"feature-state" data expressions are not supported with filters.`)];\n
}\n\n    if (options.expressionContext
&& options.expressionContext.indexOf('cluster') === 0) {\n        if (!isGlobalPropertyConstant(expressionObj,
['zoom', 'feature-state'])) {\n            return [new ValidationError(options.key, options.value, `"zoom" and
"feature-state" expressions are not supported with cluster properties.`)];\n        }\n        if (options.expressionContext ===
'cluster-initial' && !isFeatureConstant(expressionObj)) {\n            return [new ValidationError(options.key,

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options.value, 'Feature data expressions are not supported with initial expression part of cluster properties.));\n
}\n }\n\n return [];\n}\n", "\nimport getType from './util/get_type';\nimport ValidationError from
 './error/validation_error';\n\nexport default function validateBoolean(options) {\n  const value = options.value;\n  const key = options.key;\n  const type = getType(value);\n\n  if (type !== 'boolean') {\n    return [new
  ValidationError(key, value, `boolean expected,
  ${type} found`)];\n  }\n\n  return [];\n}\n", "\nimport ValidationError from './error/validation_error';\nimport
  getType from './util/get_type';\nimport {parseCSSColor} from 'csscolorparser';\n\nexport default function
  validateColor(options) {\n  const key = options.key;\n  const value = options.value;\n  const type =
  getType(value);\n\n  if (type !== 'string') {\n    return [new ValidationError(key, value, `color expected,
  ${type}
  found`)];\n  }\n\n  if (parseCSSColor(value) === null) {\n    return [new ValidationError(key, value, `color
  expected,
  "${value}" found`)];\n  }\n\n  return [];\n}\n", "\nimport ValidationError from
  './error/validation_error';\nimport {unbundle} from './util/unbundle_jsonlint';\n\nexport default function
  validateEnum(options) {\n  const key = options.key;\n  const value = options.value;\n  const valueSpec =
  options.valueSpec;\n  const errors = [];\n\n  if (Array.isArray(valueSpec.values)) { // <=v7\n    if
  (valueSpec.values.indexOf(unbundle(value))
  === -1) {\n      errors.push(new ValidationError(key, value, `expected one of [${valueSpec.values.join(', ')},
  ${JSON.stringify(value)}] found`));\n    }\n  } else { // >=v8\n    if
  (Object.keys(valueSpec.values).indexOf(unbundle(value)) === -1) {\n      errors.push(new ValidationError(key,
  value, `expected one of [${Object.keys(valueSpec.values).join(', ')}, ${JSON.stringify(value)}] found`));\n    }\n
  }\n  return errors;\n}\n", "\nimport ValidationError from './error/validation_error';\nimport validateExpression from
  './validate_expression';\nimport validateEnum from './validate_enum';\nimport getType from
  './util/get_type';\nimport {unbundle, deepUnbundle} from './util/unbundle_jsonlint';\nimport extend from
  './util/extend';\nimport {isExpressionFilter} from './feature_filter';\n\nexport default function validateFilter(options)
  {\n  if (isExpressionFilter(deepUnbundle(options.value))) {\n    return validateExpression(extend({},
  options, {\n      expressionContext: 'filter',\n      valueSpec: {value: 'boolean'}\n    }));\n  } else {\n
  return validateNonExpressionFilter(options);\n  }\n}\n\nfunction validateNonExpressionFilter(options) {\n  const
  value = options.value;\n  const key = options.key;\n\n  if (getType(value) !== 'array') {\n    return [new
  ValidationError(key, value, `array expected,
  ${getType(value)} found`)];\n  }\n\n  const styleSpec =
  options.styleSpec;\n  let type;\n\n  let errors = [];\n\n  if (value.length < 1) {\n    return [new
  ValidationError(key, value, 'filter array must have at least 1 element');\n  }\n\n  errors =
  errors.concat(validateEnum({\n    key: `${key}[0]`,\n    value: value[0],\n    valueSpec:
  styleSpec.filter_operator,\n    style: options.style,\n    styleSpec: options.styleSpec\n  }));\n\n  switch
  (unbundle(value[0])) {\n    case '<':\n    case '<=':\n    case '>':\n
  case '>=':\n      if (value.length >= 2 && unbundle(value[1]) === 'Stype') {\n        errors.push(new
  ValidationError(key, value, `\"${Stype}\" cannot be use with operator \"${value[0]}\"`));\n      }\n      /* falls through
  */\n    case '==':\n    case '!=':\n      if (value.length !== 3) {\n        errors.push(new ValidationError(key, value,
  `filter array for operator \"${value[0]}\" must have 3 elements`));\n      }\n      /* falls through */\n    case 'in':\n
  case '!in':\n      if (value.length >= 2) {\n        type = getType(value[1]);\n        if (type !== 'string') {\n
  errors.push(new ValidationError(`${key}[1]`, value[1], `string expected,
  ${type} found`));\n        }\n      }\n\n      for (let i = 2; i < value.length; i++) {\n        type =
  getType(value[i]);\n        if (unbundle(value[1]) === 'Stype')
  {\n          errors = errors.concat(validateEnum({\n            key: `${key}[${i}]`,\n
          value: value[i],\n            valueSpec: styleSpec.geometry_type,\n            style: options.style,\n
          styleSpec: options.styleSpec\n          }));\n        } else if (type !== 'string' && type !== 'number' && type !==
  'boolean') {\n          errors.push(new ValidationError(`${key}[${i}]`, value[i], `string, number, or boolean
  expected,
  ${type} found`));\n        }\n      }\n      break;\n    case 'any':\n    case 'all':\n    case 'none':\n      for
  (let i = 1; i < value.length; i++) {\n        errors = errors.concat(validateNonExpressionFilter({\n          key:
  `${key}[${i}]`,\n          value: value[i],\n          style: options.style,\n          styleSpec: options.styleSpec\n
        }));\n      }\n      break;\n    case 'has':\n    case '!has':\n      type = getType(value[1]);\n      if (value.length
  }
}

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!== 2) {\n      errors.push(new ValidationError(key, value, `filter array
for \"${value[0]}\" operator must have 2 elements`));\n    } else if (type !== 'string') {\n      errors.push(new
ValidationError(`${key}[1]`, value[1], `string expected, ${type} found`));\n    }\n    break;\n  case 'within':\n    type = getType(value[1]);\n    if (value.length !== 2) {\n      errors.push(new ValidationError(key, value,
`filter array for \"${value[0]}\" operator must have 2 elements`));\n    } else if (type !== 'object') {\n
errors.push(new ValidationError(`${key}[1]`, value[1], `object expected, ${type} found`));\n    }\n    break;\n
}\n  return errors;\n}\n\n\", \"nimport validate from './validate';\nimport ValidationError from
 './error/validation_error';\nimport getType from './util/get_type';\nimport {isFunction} from './function';\nimport
{unbundle, deepUnbundle} from './util/unbundle_jsonlint';\nimport {supportsPropertyExpression} from
 './util/properties';\n\nexport default function validateProperty(options,
propertyType) {\n  const key = options.key;\n  const style = options.style;\n  const styleSpec =
options.styleSpec;\n  const value = options.value;\n  const propertyKey = options.objectKey;\n  const layerSpec
= styleSpec[`${propertyType}_${options.layerType}`];\n\n  if (!layerSpec) return [];\n\n  const transitionMatch =
propertyKey.match(/^(.*)-transition$/);\n  if (propertyType === 'paint' && transitionMatch &&
layerSpec[transitionMatch[1]] && layerSpec[transitionMatch[1]].transition) {\n    return validate({\n
key,\n    value,\n    valueSpec: styleSpec.transition,\n    style,\n    styleSpec\n  });\n  }\n\n  const valueSpec = options.valueSpec || layerSpec[propertyKey];\n  if (!valueSpec) {\n    return [new
ValidationError(key, value, `unknown property \"${propertyKey}\"`);\n  ]\n\n  let tokenMatch;\n  if
(getType(value) === 'string' && supportsPropertyExpression(valueSpec) && !valueSpec.tokens
&& (tokenMatch = /^(^+)$/.exec(value))) {\n    return [new ValidationError(\n      key, value,\n
`\"${propertyKey}\" does not support interpolation syntax\n` +\n      `Use an identity property function
instead: \\`{ \"type\": \"identity\", \"property\": ${JSON.stringify(tokenMatch[1])} \\`.`);\n  ]\n\n  const errors =
[];\n\n  if (options.layerType === 'symbol') {\n    if (propertyKey === 'text-field' && style && !style.glyphs) {\n
errors.push(new ValidationError(key, value, 'use of \"text-field\" requires a style \"glyphs\" property));\n
}\n\n    if (propertyKey === 'text-font' && isFunction(deepUnbundle(value)) && unbundle(value.type) ===
'identity') {\n      errors.push(new ValidationError(key, value, \"text-font\" does not support identity
functions));\n    }\n  }\n\n  return errors.concat(validate({\n    key: options.key,\n    value,\n
valueSpec,\n    style,\n    styleSpec,\n
    expressionContext: 'property',\n    propertyType,\n    propertyKey\n  }));\n}\n\n\", \"nimport
validateProperty from './validate_property';\n\nexport default function validatePaintProperty(options) {\n  return
validateProperty(options, 'paint');\n}\n\n\", \"nimport validateProperty from './validate_property';\n\nexport default
function validateLayoutProperty(options) {\n  return validateProperty(options, 'layout');\n}\n\n\", \"nimport
ValidationError from './error/validation_error';\nimport {unbundle} from './util/unbundle_jsonlint';\nimport
validateObject from './validate_object';\nimport validateFilter from './validate_filter';\nimport validatePaintProperty
from './validate_paint_property';\nimport validateLayoutProperty from './validate_layout_property';\nimport
validateSpec from './validate';\nimport extend from './util/extend';\n\nexport default function validateLayer(options)
{\n  let errors = [];\n\n  const layer = options.value;\n  const key = options.key;\n
  const style = options.style;\n  const styleSpec = options.styleSpec;\n\n  if (!layer.type && !layer.ref) {\n
errors.push(new ValidationError(key, layer, 'either \"type\" or \"ref\" is required'));}\n  let type =
unbundle(layer.type);\n  const ref = unbundle(layer.ref);\n\n  if (layer.id) {\n    const layerId =
unbundle(layer.id);\n    for (let i = 0; i < options.arrayIndex; i++) {\n      const otherLayer = style.layers[i];\n
if (unbundle(otherLayer.id) === layerId) {\n        errors.push(new ValidationError(key, layer.id, `duplicate
layer id \"${layer.id}\", previously used at line ${otherLayer.id.__line__}`));\n      }\n    }\n  }\n\n  if ('ref'
in layer) {\n    ['type', 'source', 'source-layer', 'filter', 'layout'].forEach((p) => {\n      if (p in layer) {\n
errors.push(new ValidationError(key, layer[p], `\"${p}\" is prohibited for ref layers`));\n      }\n    });\n\n    let parent;\n    style.layers.forEach((layer) => {\n      if (unbundle(layer.id) === ref) parent = layer;\n
});\n\n    if (!parent) {\n      errors.push(new ValidationError(key, layer.ref, `ref layer \"${ref}\" not
found`));\n    } else if (parent.ref) {\n      errors.push(new ValidationError(key, layer.ref, 'ref cannot reference

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another ref layer'));
    } else {
      type = unbundle(parent.type);
    } else if (type !==
'background') {
    if (!layer.source) {
      errors.push(new ValidationError(key, layer, 'missing required
property "source"));
    } else {
      const source = style.sources && style.sources[layer.source];
      const sourceType = source && unbundle(source.type);
      if (!source) {
        errors.push(new
ValidationError(key, layer.source, `source "${layer.source}" not found`));
      } else if (sourceType ===
'vector' && type === 'raster')
        {
        errors.push(new ValidationError(key, layer.source, `layer "${layer.id}" requires a raster source`));
        } else if (sourceType === 'raster' && type !== 'raster') {
          errors.push(new ValidationError(key,
layer.source, `layer "${layer.id}" requires a vector source`));
        } else if (sourceType === 'vector' &&
!layer['source-layer']) {
          errors.push(new ValidationError(key, layer, `layer "${layer.id}" must specify a
"source-layer"`));
        } else if (sourceType === 'raster-dem' && type !== 'hillshade') {
          errors.push(new ValidationError(key, layer.source, 'raster-dem source can only be used with layer type
"hillshade");
        } else if (type === 'line' && layer.paint && layer.paint['line-gradient'] &&
(sourceType !== 'geojson' || !source.lineMetrics)) {
          errors.push(new ValidationError(key, layer, `layer
"${layer.id}" specifies
a line-gradient, which requires a GeoJSON source with "lineMetrics" enabled.
`));
        }
      }
    }
  }
  errors = errors.concat(validateObject({
    key,
    value: layer,
    valueSpec: styleSpec.layer,
    style:
options.style,
    styleSpec: options.styleSpec,
    objectElementValidators: {
      '*': () => {
        return
[];
      },
      // We don't want to enforce the spec's "requires": true` for backward compatibility with
refs;
      // the actual requirement is validated above. See https://github.com/mapbox/mapbox-gl-
js/issues/5772.
      type() {
        return validateSpec({
          key: `${key}.type`,
          value: layer.type,
          valueSpec: styleSpec.layer.type,
          style: options.style,
          styleSpec: options.styleSpec,
          object: layer,
          objectKey: 'type'
        });
      },
      filter: validateFilter,
      layout(options) {
        return
validateObject({
          layer,
          key: options.key,
          value: options.value,
          style: options.style,
          styleSpec: options.styleSpec,
          objectElementValidators: {
            '*': (options) => {
              return validateLayoutProperty(extend({layerType: type}, options));
            }
          }
        });
      },
      paint(options) {
        return validateObject({
          layer,
          key: options.key,
          value: options.value,
          style: options.style,
          styleSpec: options.styleSpec,
          objectElementValidators: {
            '*': (options) => {
              return validatePaintProperty(extend({layerType: type}, options));
            }
          }
        });
      }
    }
  }));
  return errors;
}

import getType from './util/get_type';
import
ValidationError from './error/validation_error';
export default function validateString(options) {
  const value
= options.value;
  const key = options.key;
  const type = getType(value);
  if (type !== 'string') {
    return [new ValidationError(key, value, `string expected, ${type} found`)];
  }
  return [];
}

import
ValidationError from './error/validation_error';
import {unbundle} from './util/unbundle_jsonlint';
import
validateObject from './validate_object';
import validateEnum from './validate_enum';
import validateExpression
from './validate_expression';
import validateString from './validate_string';
import getType from
'./util/get_type';
const objectElementValidators
= {
  promoteId: validatePromoteId;
}
export default function validateSource(options) {
  const value =
options.value;
  const key = options.key;
  const styleSpec = options.styleSpec;
  const style =
options.style;
  if (!value.type) {
    return [new ValidationError(key, value, `"type" is required`)];
  }
  const type = unbundle(value.type);
  let errors;
  switch (type) {
    case 'vector':
    case 'raster':
    case
'raster-dem':
      errors = validateObject({
        key,
        value,
        valueSpec:
styleSpec[source_`${type.replace('-', '_)`}],
        style: options.style,
        styleSpec,
        objectElementValidators
      });
      return errors;
    case 'geojson':
      errors = validateObject({
        key,
        value,
        valueSpec: styleSpec.source_geojson,
        style,
        styleSpec,
        objectElementValidators

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    });\n    if (value.cluster) {\n        for (const prop in value.clusterProperties) {\n            const [operator,\n            mapExpr] = value.clusterProperties[prop];\n            const reduceExpr = typeof operator === 'string' ? [operator,\n            ['accumulated'], ['get', prop]] : operator;\n            errors.push(...validateExpression({\n                key:\n                `${key}.${prop}.map`,\n                value: mapExpr,\n                expressionContext: 'cluster-map'\n            }));\n            errors.push(...validateExpression({\n                key: `${key}.${prop}.reduce`,\n                value:\n                reduceExpr,\n                expressionContext: 'cluster-reduce'\n            }));\n        }\n    }\n    return\n    errors;\n\n    case 'video':\n        return validateObject({\n            key,\n            value,\n            valueSpec:\n            styleSpec.source_video,\n            style,\n            styleSpec\n        });\n\n    case 'image':\n        return validateObject({\n            key,\n            value,\n            valueSpec: styleSpec.source_image,\n            style,\n            styleSpec\n        });\n\n    case 'canvas':\n        return [new ValidationError(key, null, `Please use\n        runtime APIs to add canvas sources, rather than including them in stylesheets.`, 'source.canvas')];\n\n    default:\n        return validateEnum({\n            key: `${key}.type`,\n            value: value.type,\n            valueSpec: { values:\n            ['vector', 'raster', 'raster-dem', 'geojson', 'video', 'image'],\n            style,\n            styleSpec\n        });\n    }\n\n    function validatePromoteId({key, value}) {\n        if (getType(value) === 'string') {\n            return\n            validateString({key, value});\n        } else {\n            const errors = [];\n            for (const prop in value) {\n                errors.push(...validateString({key: `${key}.${prop}`, value: value[prop]}));\n            }\n            return errors;\n        }\n    }\n\n    import ValidationError\n    from './error/validation_error';\n    import getType from './util/get_type';\n    import validate from './validate';\n\n    export\n    default function validateLight(options) {\n        const light = options.value;\n        const styleSpec = options.styleSpec;\n        const lightSpec = styleSpec.light;\n        const style = options.style;\n\n        let errors = [];\n\n        const rootType =\n        getType(light);\n        if (light === undefined) {\n            return errors;\n        } else if (rootType !== 'object') {\n            errors\n            = errors.concat([new ValidationError('light', light, `object expected, ${rootType} found`)]);\n            return errors;\n        }\n\n        for (const key in light) {\n            const transitionMatch = key.match(/^(.*)-transition$/);\n            if\n            (transitionMatch && lightSpec[transitionMatch[1]] && lightSpec[transitionMatch[1]].transition) {\n                errors =\n                errors.concat(validate({\n                    key,\n                    value: light[key],\n                    valueSpec: styleSpec.transition,\n\n                    style,\n                    styleSpec\n                }));\n            } else if (lightSpec[key]) {\n                errors =\n                errors.concat(validate({\n                    key,\n                    value: light[key],\n                    valueSpec: lightSpec[key],\n\n                    style,\n                    styleSpec\n                }));\n            } else {\n                errors = errors.concat([new ValidationError(key,\n                light[key], `unknown property "${key}"`)]);\n            }\n        }\n\n        return errors;\n    }\n\n    // @flow\n    import\n    validateExpression from './validate_expression';\n    import validateString from './validate_string';\n\n    export\n    default\n    function validateFormatted(options: any) {\n        if (validateString(options).length === 0) {\n            return [];\n        }\n\n        return validateExpression(options);\n    }\n\n    // @flow\n    import validateExpression from\n    './validate_expression';\n    import validateString from './validate_string';\n\n    export\n    default\n    function\n    validateImage(options: any) {\n        if (validateString(options).length\n        === 0) {\n            return [];\n        }\n\n        return validateExpression(options);\n    }\n\n    import extend from\n    './util/extend';\n    import {unbundle, deepUnbundle} from './util/unbundle_jsonlint';\n    import {isExpression} from\n    './expression';\n    import {isFunction} from './function';\n\n    import validateFunction from\n    './validate_function';\n    import validateExpression from './validate_expression';\n    import validateObject from\n    './validate_object';\n    import validateArray from './validate_array';\n    import validateBoolean from\n    './validate_boolean';\n    import validateNumber from './validate_number';\n    import validateColor from\n    './validate_color';\n    import validateConstants from './validate_constants';\n    import validateEnum from\n    './validate_enum';\n    import validateFilter from './validate_filter';\n    import validateLayer from\n    './validate_layer';\n    import validateSource from './validate_source';\n    import validateLight from\n    './validate_light';\n    import validateString from './validate_string';\n    import validateFormatted\n    from './validate_formatted';\n    import validateImage from './validate_image';\n\n    const VALIDATORS = {\n        '*':()\n        {\n            return [];\n        },\n        'array': validateArray,\n        'boolean': validateBoolean,\n        'number': validateNumber,\n        'color': validateColor,\n        'constants': validateConstants,\n        'enum': validateEnum,\n        'filter': validateFilter,\n    }

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'function': validateFunction,\n 'layer': validateLayer,\n 'object': validateObject,\n 'source': validateSource,\n 'light': validateLight,\n 'string': validateString,\n 'formatted': validateFormatted,\n 'resolvedImage':\n validateImage\n};\n\n// Main recursive validation function. Tracks:\n\n// - key: string representing location of\n validation in style tree. Used only\n\n// for more informative error reporting.\n\n// - value: current value from style\n being evaluated. May be anything from a\n\n// high level object that needs to be descended into deeper or a\n simple\n\n// scalar value.\n\n// - valueSpec: current spec\n being evaluated. Tracks value.\n\n// - styleSpec: current full spec being evaluated.\n\n\nexport default function\n validate(options) {\n  const value = options.value;\n  const valueSpec = options.valueSpec;\n  const styleSpec =\n options.styleSpec;\n\n  if (valueSpec.expression && isFunction(unbundle(value))) {\n    return\n validateFunction(options);\n  }\n  else if (valueSpec.expression && isExpression(deepUnbundle(value))) {\n    return\n validateExpression(options);\n  }\n  else if (valueSpec.type && VALIDATORS[valueSpec.type]) {\n    return\n VALIDATORS[valueSpec.type](options);\n  }\n  else {\n    const valid = validateObject(extend({\n      options,\n      valueSpec: valueSpec.type ? styleSpec[valueSpec.type] : valueSpec\n    }));\n    return\n valid;\n  }\n}\n\n", "\nimport ValidationError from './error/validation_error';\nimport validateString from\n './validate_string';\n\nexport default function(options) {\n  const value = options.value;\n  const\n key = options.key;\n\n  const errors = validateString(options);\n  if (errors.length) return errors;\n\n  if\n (value.indexOf('{fontstack}') === -1) {\n    errors.push(new ValidationError(key, value, "\"glyphs\" url must\n include a \"{fontstack}\" token")); \n  }\n\n  if (value.indexOf('{range}') === -1) {\n    errors.push(new\n ValidationError(key, value, "\"glyphs\" url must include a \"{range}\" token")); \n  }\n\n  return\n errors;\n}\n\n", "\nimport validateConstants from './validate/validate_constants';\nimport validate from\n './validate/validate';\nimport latestStyleSpec from './reference/latest';\nimport validateGlyphsURL from\n './validate/validate_glyphs_url';\nimport validateSource from './validate/validate_source';\nimport validateLight\n from './validate/validate_light';\nimport validateLayer from './validate/validate_layer';\nimport validateFilter from\n './validate/validate_filter';\nimport validatePaintProperty from './validate/validate_paint_property';\nimport\n validateLayoutProperty\n from './validate/validate_layout_property';\n\n/**\n * Validate a Mapbox GL style against the style specification.\n This endpoint,\n * `mapbox-gl-style-spec/lib/validate_style.min`, is designed to produce as\n * small a browserify\n bundle as possible by omitting unnecessary functionality\n * and legacy style specifications.\n *\n * @private\n *\n * @param {Object} style The style to be validated.\n * @param {Object} [styleSpec] The style specification to\n validate against.\n * If omitted, the latest style spec is used.\n * @returns {Array<ValidationError>}\n *\n * @example\n * var validate = require('mapbox-gl-style-spec/lib/validate_style.min');\n * var errors =\n validate(style);\n *\n function validateStyleMin(style, styleSpec = latestStyleSpec) {\n  let errors = [];\n\n  errors = errors.concat(validate({\n    key: "\n    value: style,\n    valueSpec: styleSpec.$root,\n    styleSpec,\n    style,\n    objectElementValidators: {\n      glyphs: validateGlyphsURL,\n      '*()' {\n        return [];\n      }\n    }\n  }));\n\n  if\n (style.constants) {\n    errors = errors.concat(validateConstants({\n      key: 'constants',\n      value:\n style.constants,\n      style,\n      styleSpec\n    }));\n  }\n\n  return\n sortErrors(errors);\n}\n\nvalidateStyleMin.source = wrapCleanErrors(validateSource);\nvalidateStyleMin.light =\n wrapCleanErrors(validateLight);\nvalidateStyleMin.layer =\n wrapCleanErrors(validateLayer);\nvalidateStyleMin.filter =\n wrapCleanErrors(validateFilter);\nvalidateStyleMin.paintProperty =\n wrapCleanErrors(validatePaintProperty);\nvalidateStyleMin.layoutProperty =\n wrapCleanErrors(validateLayoutProperty);\n\nfunction sortErrors(errors) {\n  return [].concat(errors).sort((a, b) =>\n {\n  return a.line - b.line;\n });\n}\n\nfunction wrapCleanErrors(inner) {\n  return function(...args) {\n  return\n sortErrors(inner.apply(this, args));\n}\n};\n\n\nexport default validateStyleMin;\n\n", "\n/* parser generated by jison 0.4.15 */\n\n Returns a Parser object\n of the following structure:\n\n Parser: {\n  yy: {}\n }\n\n Parser.prototype: {\n  yy: {},\n  trace: function(),\n  symbols_: { associative list: name ==> number },\n  terminals_: { associative list: number ==> name },\n}

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sharedState.yy,\n          action[1],\n          vstack,\n          lstack\n        ].concat(args));\n        if
(typeof r !== 'undefined') {\n          return r;\n        }\n        if (len) {\n          stack = stack.slice(0, -1 *
len * 2);\n          vstack = vstack.slice(0, -1 * len);\n          lstack = lstack.slice(0, -1 * len);\n        }\n        stack.push(this.productions_[action[1]][0]);\n        vstack.push(yyval.$);\n        lstack.push(yyval._$);\n        newState = table[stack[stack.length - 2]][stack[stack.length - 1]);\n        stack.push(newState);\n        break;\n      case 3:\n        return true;\n    }\n  }\n  return true;\n}};\n/* generated by jison-lex 0.3.4 */\nvar lexer = (function() {\nvar lexer =
({\nEOF:1,\nparseError:function parseError(str, hash) {\n  if (this.yy.parser) {\n
this.yy.parser.parseError(str, hash);\n  } else {\n    throw new Error(str);\n  }\n},\n// resets the lexer,
sets new input\nsetInput:function (input, yy) {\n  this.yy = yy || this.yy || {};\n  this._input = input;\n  this._more = this._backtrack = this.done = false;\n  this.yylines = this.yyleng = 0;\n  this.yytext =
this.matched = this.match = '';\n  this.conditionStack = ['INITIAL'];\n  this.yylloc = {\n    first_line: 1,\n    first_column: 0,\n    last_line: 1,\n    last_column: 0\n  }; \n  if (this.options.ranges) {\n
this.yylloc.range = [0,0];\n  }\n  this.offset = 0;\n  return this;\n},\n// consumes and returns one char
from
the input\ninput:function () {\n  var ch = this._input[0];\n  this.yytext += ch;\n  this.yyleng++;\n  this.offset++;\n  this.match += ch;\n  this.matched += ch;\n  var lines = ch.match(/(?:\\r\\n?|\\n).*/g);\n
if (lines) {\n    this.yylines++;\n    this.yylloc.last_line++;\n  } else {\n
this.yylloc.last_column++;\n  }\n  if (this.options.ranges) {\n    this.yylloc.range[1]++;\n  }\n  this._input = this._input.slice(1);\n  return ch;\n},\n// unshifts one char (or a string) into the
input\nunput:function (ch) {\n  var len = ch.length;\n  var lines = ch.split(/(?:\\r\\n?|\\n)/g);\n  this._input = ch + this._input;\n  this.yytext = this.yytext.substr(0, this.yytext.length - len);\n  //this.yyleng -=
len;\n  this.offset -= len;\n  var oldLines = this.match.split(/(?:\\r\\n?|\\n)/g);\n  this.match =
this.match.substr(0,
this.match.length - 1);\n  this.matched = this.matched.substr(0, this.matched.length - 1);\n  if (lines.length
- 1) {\n    this.yylines -= lines.length - 1;\n  }\n  var r = this.yylloc.range;\n  this.yylloc = {\n
first_line: this.yylloc.first_line,\n    last_line: this.yylines + 1,\n    first_column:
this.yylloc.first_column,\n    last_column: lines ?\n      (lines.length === oldLines.length ?\n
this.yylloc.first_column : 0)\n      + oldLines[oldLines.length - lines.length].length - lines[0].length :\n
this.yylloc.first_column - len\n  }; \n  if (this.options.ranges) {\n    this.yylloc.range = [r[0], r[0] +
this.yyleng - len];\n  }\n  this.yyleng = this.yytext.length;\n  return this;\n},\n// When called from
action, caches matched text and appends it on next action\nmore:function () {\n  this._more = true;\n  return
this;\n},\n// When called from action, signals the lexer that this rule fails to match the input, so the next
matching rule (regex) should be tested instead.\nreject:function () {\n  if (this.options.backtrack_lexer) {\n
this._backtrack = true;\n  } else {\n    return this.parseError('Lexical error on line ' + (this.yylines + 1) + '.
You can only invoke reject() in the lexer when the lexer is of the backtracking persuasion (options.backtrack_lexer =
true).\\n' + this.showPosition(), {\n    text: '\\n',\n    token: null,\n    line: this.yylines\n  });\n  }\n  return this;\n},\n// retain first n characters of the match\nless:function (n) {\n
this.unput(this.match.slice(n));\n  },\n// displays already matched input, i.e. for error
messages\npastInput:function () {\n  var past = this.matched.substr(0, this.matched.length - this.match.length);\n
return (past.length
> 20 ? '...' : '') + past.substr(-20).replace(/\\n/g, '\\n');\n  },\n// displays upcoming input, i.e. for error
messages\nupcomingInput:function () {\n  var next = this.match;\n  if (next.length < 20) {\n    next +=
this._input.substr(0, 20 - next.length);\n  }\n  return (next.substr(0,20) + (next.length > 20 ? '...' :
'')).replace(/\\n/g, '\\n');\n  },\n// displays the character position where the lexing error occurred, i.e. for error
messages\nshowPosition:function () {\n  var pre = this.pastInput();\n  var c = new Array(pre.length +
1).join('\\n');\n  return pre + this.upcomingInput() + '\\n\\n' + c + '\\n^';\n  },\n// test the lexed token: return
FALSE when not a match, otherwise return token\ntest_match:function (match, indexed_rule) {\n  var token,\n

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lines,\n      backup;\n\n      if (this.options.backtrack_lexer) {\n          // save context\n          backup = {\n              yylineno: this.yylineno,\n              yylloc: {\n                  first_line: this.yylloc.first_line,\n                  last_line: this.last_line,\n                  first_column: this.yylloc.first_column,\n                  last_column: this.yylloc.last_column\n              },\n              yytext: this.yytext,\n              match: this.match,\n              matches: this.matches,\n              matched: this.matched,\n              yyleng: this.yyleng,\n              offset: this.offset,\n              _more: this._more,\n              _input: this._input,\n              yy: this.yy,\n              conditionStack: this.conditionStack.slice(0),\n              done: this.done\n          };\n          if (this.options.ranges) {\n              backup.yylloc.range = this.yylloc.range.slice(0);\n          }\n          lines = match[0].match(/(?:\\r\\n?|\\n).*/g);\n          if (lines) {\n              this.yylineno += lines.length;\n          }\n          this.yylloc = {\n              first_line: this.yylloc.last_line,\n              last_line: this.yylineno + 1,\n              first_column: this.yylloc.last_column,\n              last_column: lines ?\n              lines[lines.length - 1].match(/\\r?\\n?/)[0].length :\n              this.yylloc.last_column + match[0].length\n          };\n          this.yytext += match[0];\n          this.match += match[0];\n          this.matches = match;\n          this.yyleng = this.yytext.length;\n          if (this.options.ranges) {\n              this.yylloc.range = [this.offset, this.offset +\n              this.yyleng];\n          }\n          this._more = false;\n          this._backtrack = false;\n          this._input = this._input.slice(match[0].length);\n          this.matched += match[0];\n          token = this.performAction.call(this,\n          this.yy, this, indexed_rule, this.conditionStack[this.conditionStack.length - 1]);\n          if (this.done && this._input) {\n              this.done = false;\n          }\n          if (token) {\n              return token;\n          } else if (this._backtrack) {\n              // recover context\n              for (var k in backup) {\n                  this[k] = backup[k];\n              }\n              return false; // rule action called reject() implying the next rule should be tested instead.\n          }\n          return false;\n      },\n      // return next match in input\n      next:function () {\n          if (this.done) {\n              return this.EOF;\n          }\n          if (!this._input) {\n              this.done = true;\n          }\n          var token,\n              match,\n              tempMatch,\n              index;\n          if (!this._more) {\n              this.yytext = "";\n              this.match = "";\n          }\n          var rules = this._currentRules();\n          for (var i = 0; i < rules.length; i++) {\n              tempMatch = this._input.match(this.rules[rules[i]]);\n              if (tempMatch && (!match || tempMatch[0].length > match[0].length)) {\n                  match = tempMatch;\n                  index = i;\n              }\n          }\n          if (this.options.backtrack_lexer) {\n              token = this.test_match(tempMatch, rules[i]);\n              if (token !== false) {\n                  return token;\n              }\n          } else if (this._backtrack) {\n              match = false;\n              continue; // rule action called reject() implying a rule MISmatch.\n          } else {\n              // else: this is a lexer rule which consumes input without producing a token (e.g. whitespace)\n              return false;\n          }\n          } else if (!this.options.flex) {\n              break;\n          }\n          }\n          if (match) {\n              token = this.test_match(match, rules[index]);\n              if (token !== false) {\n                  return token;\n              }\n              // else: this is a lexer rule which consumes input without producing a token (e.g. whitespace)\n              return false;\n          }\n          if (this._input === "\\") {\n              return this.EOF;\n          } else {\n              return this.parseError('Lexical error on line ' + (this.yylineno + 1) + '. Unrecognized text.\\n' + this.showPosition(), {\n                  text: "\\",\n                  token: null,\n                  line: this.yylineno\n              });\n          }\n      },\n      // return next match that has a token\n      lex:function lex() {\n          var r = this.next();\n          if (r) {\n              return r;\n          } else {\n              return this.lex();\n          }\n      },\n      // activates a new lexer condition state (pushes the new lexer condition state onto the condition stack)\n      begin:function begin(condition) {\n          this.conditionStack.push(condition);\n      },\n      // pop the previously active lexer condition state off the condition stack\n      popState:function popState() {\n          var n = this.conditionStack.length - 1;\n          if (n > 0) {\n              return this.conditionStack.pop();\n          } else {\n              return this.conditionStack[0];\n          }\n      },\n      // produce the lexer rule set which is active for the currently active lexer condition state\n      _currentRules:function _currentRules() {\n          if (this.conditionStack.length && this.conditionStack[this.conditionStack.length - 1]) {\n              return this.conditions[this.conditionStack[this.conditionStack.length - 1]].rules;\n          } else {\n              return

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expression?: ExpressionSpecification,\n transition: boolean,\n default?: boolean\n}
| {\n type: 'enum',\n 'property-type': ExpressionType,\n expression?: ExpressionSpecification,\n values: {[_:
string]: {}},\n transition: boolean,\n default?: string\n} | {\n type: 'color',\n 'property-type':
ExpressionType,\n expression?: ExpressionSpecification,\n transition: boolean,\n default?: string,\n
overridable: boolean\n} | {\n type: 'array',\n value: 'number',\n 'property-type': ExpressionType,\n
expression?: ExpressionSpecification,\n length?: number,\n transition: boolean,\n default?: Array<number>\n}
| {\n type: 'array',\n value: 'string',\n 'property-type': ExpressionType,\n expression?:
ExpressionSpecification,\n length?: number,\n transition: boolean,\n default?: Array<string>\n};\n\nimport v8
from './reference/v8.json';\nimport latest from './reference/latest';\nimport format from './format';\nimport migrate
from './migrate';\nimport composite from './composite';\nimport derefLayers from
'/deref';\nimport diff from './diff';\nimport ValidationError from './error/validation_error';\nimport ParsingError
from './error/parsing_error';\nimport {StyleExpression, isExpression, createExpression, createPropertyExpression,
normalizePropertyExpression, ZoomConstantExpression, ZoomDependentExpression, StylePropertyFunction} from
'/expression';\nimport featureFilter, {isExpressionFilter} from './feature_filter';\nimport convertFilter from
'/feature_filter/convert';\nimport Color from './util/color';\nimport {createFunction, isFunction} from
'/function';\nimport convertFunction from './function/convert';\nimport {eachSource, eachLayer, eachProperty}
from './visit';\nimport validate from './validate_style';\nimport validateMapboxApiSupported from
'/validate_mapbox_api_supported';\n\nconst expression = {\n StyleExpression,\n isExpression,\n
isExpressionFilter,\n createExpression,\n createPropertyExpression,\n normalizePropertyExpression,\n
ZoomConstantExpression,\n
ZoomDependentExpression,\n StylePropertyFunction\n};\n\nconst styleFunction = {\n convertFunction,\n
createFunction,\n isFunction\n};\n\nconst visit = {eachSource, eachLayer, eachProperty};\n\nexport {\n v8,\n
latest,\n format,\n migrate,\n composite,\n derefLayers,\n diff,\n ValidationError,\n ParsingError,\n
expression,\n featureFilter,\n convertFilter,\n Color,\n styleFunction as function,\n validate,\n
validateMapboxApiSupported,\n visit\n};\n\nvalidate.parsed = validate;\nvalidate.latest =
validate;\n"], "names": ["sortKeysBy", "obj", "reference", "const", "result", "key", "undefined", "format", "style", "space", "$root", "layers", "map", "layer", "stringifyPretty", "indent", "global", "this", "require$$0", "require$$1", "getPropertyReference", "propertyName", "let", "i", "Reference", "layout", "length", "paint", "eachSource", "callback", "k", "sources", "eachLayer", "eachProperty", "options", "inner", "propertyType", "properties", "Object", "keys", "forEach", "path", "id", "value", "set", "x", "eachLayout", "indexOf", "eachPaint", "resolveConstant", "constants", "isFunction", "Array", "isArray", "stops", "renameProperty", "from", "to", "version", "source", "type", "url", "coordinates", "coord", "reverse", "property", "stop", "migrateFontstackURL", "input", "inputParsed", "URL", "parse", "inputPathnameParts", "pathname", "split", "protocol", "hostname", "glyphs", "migrateFontStack", "font", "splitAndTrim", "string", "s", "trim", "Error", "firstSymbolLayer", "symbolLayers", "splice", "concat", "output", "inputs", "ParsingError", "message", "super", "Scope", "parent", "bindings", "name", "expression", "get", "has", "NullType", "kind", "NumberType", "StringType", "BooleanType", "ColorType", "ObjectType", "ValueType", "ErrorType", "CollatorType", "FormattedType", "ResolvedImageType", "array", "itemType", "N", "toString", "valueMemberTypes", "checkSubtype", "expected", "t", "memberType", "isValidType", "provided", "allowedTypes", "some", "isValidNativeType", "Color", "r", "g", "b", "a", "rgba", "parseCSSColor", "toArray", "Math", "round", "black", "white", "transparent", "red", "Collator", "caseSensitive", "diacriticSensitive", "locale", "sensitivity", "collator", "Intl", "usage", "compare", "lhs", "rhs", "resolvedLocale", "resolvedOptions", "FormattedSection", "text", "image", "scale", "fontStack", "textColor", "Formatted", "sections", "fromString", "unformatted", "isEmpty", "section", "factory", "join", "serialize", "serialized", "push", "ResolvedImage", "available", "validateRGBA", "isValue", "mixed", "item", "typeof", "String", "JSON", "stringify", "Literal", "args", "context", "error", "expectedType", "evaluate", "eachChild", "outputDefined", "RuntimeError", "toJSON", "types", "number", "boolean", "object", "Assertion", "floor", "parsed", "ctx", "fn", "every", "arg", "FormatExpression", "firstArg", "nextTokenMaybeObject", "lastExpression", "content", "evaluateSection", "evaluatedContent", "ImageExpression", "evaluatedImageName", "availableImages", "Coercion", "Boolean", "c", "parseColor", "num", "Number", "isNaN", "valueToString", "child", "geometryTypes", "EvaluationContext", "globals", "feature", "featureState", "formattedSection", "_parseColorCache", "canonical", "geometryType", "geometry", "canonicalID", "cached", "CompoundE

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xpression", "\_evaluate", "op", "definition", "definitions", "availableOverloads", "overloads", "filter", "signature", "signatureContext", "ParsingContext", "registry", "scope", "parsedArgs", "argParseFailed", "params", "errors", "signatures", "stringifySignature", "actualTypes", "register", "CollatorExpression", "EXTENT", "updateBBox", "bbox", "min", "max", "mercatorXfromLng", "lng", "mercatorYfromLat", "lat", "PI", "log", "tan", "boxWithinBox", "bbox1", "bbox2", "getTileCoordinates", "p", "y", "tilesAtZoom", "pow", "z", "onBoundary", "p1", "p2", "x1", "y1", "x2", "y2", "rayIntersect", "pointWithinPolygon", "point", "rings", "inside", "len", "ring", "j", "len2", "pointWithinPolygons", "polygons", "perp", "v1", "v2", "twoSided", "q1", "q2", "x3", "y3", "det1", "det2", "lineIntersectLine", "d", "vectorP", "vectorQ", "lineIntersectPolygon", "polygon", "lineStringWithinPolygon", "line", "lineStringWithinPolygons", "getTilePolygon", "getTilePolygons", "updatePoint", "polyBBox", "worldSize", "halfWorldSize", "shift", "resetBBox", "Infinity", "getTilePoints", "pointBBox", "shifts", "tilePoints", "points", "getTileLines", "lineBBox", "tileLines", "tileLine", "pointsWithinPolygons", "polygonGeometry", "tilePolygon", "tilePolygons", "linesWithinPolygons", "Within", "geojson", "geometries", "features", "isFeatureConstant", "e", "test", "isStateConstant", "isGlobalPropertyConstant", "Var", "boundExpression", "part", "expr", "index", "\_parse", "annotate", "typeAnnotation", "Expr", "actual", "isConstant", "ec", "isTypeAnnotation", "childrenConstant", "findStopLessThanOrEqualTo", "lastIndex", "lowerIndex", "upperIndex", "currentIndex", "currentValue", "nextValue", "Step", "labels", "outputs", "label", "outputType", "labelKey", "valueKey", "stopCount", "out", "color", "Xn", "Yn", "Zn", "t0", "t1", "t2", "t3", "deg2rad", "rad2deg", "xyz2lab", "lab2xyz", "xyz2rgb", "rgb2xyz", "rgbToLab", "rgbColor", "l", "alpha", "labToRgb", "labColor", "interpolateLab", "interpolateNumber", "rgbToHcl", "h", "atan2", "sqrt", "hclToRgb", "hclColor", "cos", "sin", "interpolateHue", "interpolateHcl", "lab", "forward", "interpolate", "hcl", "Interpolate", "operator", "interpolation", "interpolationFactor", "lower", "upper", "exponentialInterpolation", "base", "controlPoints", "ub", "UnitBezier", "solve", "slice", "rest", "outputLower", "outputUpper", "toLowerCase", "lowerValue", "upperValue", "difference", "progress", "Coalesce", "needsAnnotation", "argCount", "requestedImageName", "Let", "binding", "At", "In", "needle", "haystack", "IndexOf", "fromIndex", "Match", "inputType", "cases", "otherwise", "labelContext", "abs", "MAX\_SAFE\_INTEGER", "sortedLabels", "sort", "groupedByOutput", "outputLookup", "outputIndex", "coerceLabel", "Case", "branches", "Slice", "beginIndex", "endIndex", "isComparableType", "eq", "neq", "lt", "gt", "lteq", "gteq", "eqCollate", "neqCollate", "ltCollate", "gtCollate", "lteqCollate", "gteqCollate", "makeComparison", "compareBasic", "compareWithCollator", "isOrderComparison", "hasUntypedArgument", "Comparison", "rt", "Equals", "NotEquals", "LessThan", "GreaterThan", "LessThanOrEqual", "GreaterThanOrEqual", "NumberFormat", "currency", "minFractionDigits", "maxFractionDigits", "minimumFractionDigits", "maximumFractionDigits", "Length", "expressions", "v", "binarySearch", "m", "varargs", "typeToString", "zoom", "heatmapDensity", "lineProgress", "accumulated", "LN2", "E", "n", "LN10", "asin", "acos", "atan", "ceil", "isSupportedScript", "toUpperCase", "success", "supportsPropertyExpression", "spec", "supportsZoomExpression", "parameters", "supportsInterpolation", "interpolated", "getType", "val", "identityFunction", "createFunction", "propertySpec", "isColor", "zoomAndFeatureDependent", "featureDependent", "zoomDependent", "extend", "default", "colorSpace", "colorSpaces", "innerFun", "hasHedStops", "categoricalKeyType", "evaluateExponentialFunction", "evaluateIntervalFunction", "evaluateCategoricalFunction", "create", "evaluateIdentityFunction", "featureFunctions", "zoomStops", "featureFunctionStops", "interpolationType", "bind", "\_", "coalesce", "keyType", "evaluated", "interp", "colorspace", "evaluatedLower", "apply", "evaluatedUpper", "values", "StyleExpression", "\_warningHistory", "\_evaluator", "\_defaultValue", "getDefaultValue", "\_enumValues", "evaluateWithoutErrorHandling", "console", "warn", "isExpression", "createExpression", "parser", "getExpectedType", "ZoomConstantExpression", "\_styleExpression", "isStateDependent", "ZoomDependentExpression", "createPropertyExpression", "isZoomConstant", "zoomCurve", "findZoomCurve", "StylePropertyFunction", "specification", "\_parameters", "\_specification", "deserialize", "normalizePropertyExpression", "err", "constant", "childResult", "enum", "formatted", "resolvedImage", "convertLiteral", "convertFunction", "convertIdentityFunction", "tokens", "convertTokenString", "convertZoomAndPropertyFunction", "convertZoomFunction", "convertPropertyFunction", "getInterpolateOperator", "featureFunctionParameters", "functionType", "getFunctionType", "appendStopPair", "fixupDegenerateStepCurve", "isStep", "curve", "re", "pos", "match", "exec", "literal", "isExpressionFilter", "f", "filterSpec", "createFilter", "needGeometry", "convertFilter", "compiled", "geometryNeeded", "globalProperties", "converted", "convertComparisonOp", "convertNegation", "convertDisjunctionOp", "convertInOp", "convertHasOp", "filters", "\_convertFilter", "expectedTypes", "children", "typeChecks", "runtimeTypeChecks", "conditions", "negate", "uniformTypes", "uniqueValues", "migrated", "migrateToV8", "migrateToExpressions", "styleIDs", "sourceIDs", "compositedSourceLayers", "compositeID", "deref", "refProperties", "







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,IAAA,GAAO5nB,IAAA,GAUA,IAAA,MAAA,GAAQX,CAAIB,GAAwB,IAArC3B,CADiB;AAAA,YAEjBsP,  
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A,IAgBzEnzB,IAAMozB,gBAAA,GAAMb,sBAAZBpzB,CAHByE;AAAA,IAiBzE,IAAI,CAAC4yB,OAAA,CAA  
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Found

in path(s):

\* /opt/cola/permits/1096023214\_1601640940.37/0/mapbox-mapbox-gl-style-spec-13-16-0-tgz/package/dist/index.es.js.map

No license file was found, but licenses were detected in source scan.

## 13.16.0

### Features and improvements

\* Added `volatile` source property to control storing the tiles in local storage.

([#9702](https://github.com/mapbox/mapbox-gl-js/pull/9702))

\* Added `clusterMinPoints` option for clustered GeoJSON sources that defines the minimum number of points to form a cluster. ([#9748](https://github.com/mapbox/mapbox-gl-js/pull/9748))

## 13.15.0

### Features and improvements

\* Add `distance` expression to `style-spec`. This expression returns the shortest distance between a feature and an input geometry ([#9655](https://github.com/mapbox/mapbox-gl-js/pull/9655))

## 13.14.0

### Features and improvements

\* Add `index-of` and `slice` expressions to search arrays and strings for the first occurrence of a specified value and return a section of the original array or string ([#9450](https://github.com/mapbox/mapbox-gl-js/pull/9450)) (h/t [lbutler](https://github.com/lbutler))

## 13.13.1

###

Features and improvements

\* Expose `expression.isExpressionFilter(..)` from the bundle. ([#9530](https://github.com/mapbox/mapbox-gl-js/pull/9530))

### Bug fixes

\* Fix a broken module import where the `style-spec` package was importing files from `mapbox-gl-js`, it's parent repo, causing downstream build systems to break. ([#9522](https://github.com/mapbox/mapbox-gl-js/pull/9522))

## 13.13.0

### Features and improvements

\* Add `within` expression for testing whether an evaluated feature lies within a given GeoJSON object ([#9352](https://github.com/mapbox/mapbox-gl-js/pull/9352)). For example:<br>

```
`"icon-opacity": ["case", ["==", ["within", "some-polygon"], true], 1, ["==", ["within", "some-polygon"], false], 0]`
```

\* Improve scaling of patterns used in `line-pattern` on all device resolutions and pixel ratios

([#9266](https://github.com/mapbox/mapbox-gl-js/pull/9266))

### Bug fixes

\* Allow needle argument to `in` expression to be false ([#9295](https://github.com/mapbox/mapbox-gl-js/pull/9295))

\*

Fix a bug where `icon-image` expression that evaluates to an empty string (`""`) produced a warning ([#9380](https://github.com/mapbox/mapbox-gl-js/pull/9380))

\* Prevent exception resulting from `line-dash-array` of empty length ([#9385](https://github.com/mapbox/mapbox-gl-js/pull/9385))

## ## 13.12.0

- \* Update `image` expression SDK support table ([#9228](https://github.com/mapbox/mapbox-gl-js/pull/9228))
- \* Fix `promoteId` for line layers ([#9210](https://github.com/mapbox/mapbox-gl-js/pull/9210), [#9212](https://github.com/mapbox/mapbox-gl-js/pull/9212))

## ## 13.11.0

### ### Features and improvements

- \* Add `promoteId` option to use a feature property as ID for feature state ([#8987](https://github.com/mapbox/mapbox-gl-js/pull/8987))
- \* Update `symbol-avoid-edges` documentation regarding global collision detection ([#9157](https://github.com/mapbox/mapbox-gl-js/pull/9157))
- \* Remove reference to `in` function which has been replaced by the `in` expression ([#9102](https://github.com/mapbox/mapbox-gl-js/pull/9102))

### ### Bug fixes

- \* Fix bug where `symbol-sort-key` was not used for collisions that crossed tile boundaries ([#9054](https://github.com/mapbox/mapbox-gl-js/pull/9054))

## ## 13.10.2

### ### Bug fixes

- \* Fix style validation error messages not being displayed ([#9073](https://github.com/mapbox/mapbox-gl-js/pull/9073))

## ## 13.10.0

### ### Features and improvements

- \* Add ability to insert images into text labels using an `image` expression within a `format` expression: `"text-field": ["format", "Some text", ["image", "my-image"], "some more text"]` ([#8904](https://github.com/mapbox/mapbox-gl-js/pull/8904))
- \* Add `in` expression. It can check if a value is in an array (`["in", value, array]`) or a substring is in a string (`["in", substring, string]`) ([#8876](https://github.com/mapbox/mapbox-gl-js/pull/8876))
- \* Add support for stretchable images (aka nine-part or nine-patch images). Stretchable images can be used with `icon-text-fit` to draw resized images with unstretched corners and borders. ([#8997](https://github.com/mapbox/mapbox-gl-js/pull/8997))
- \* Add an es modules build of for mapbox-gl-style-spec in dist/ ([#8247](https://github.com/mapbox/mapbox-gl-js/pull/8247)) (h/t [ahocevar](https://github.com/ahocevar))

## ## 13.9.1

### ### Improvement

- \* Rename `Image` type to `ResolvedImage`, to better represent the result of an `image` expression evaluation. ([#8901](https://github.com/mapbox/mapbox-gl-js/pull/8901))

## ## 13.9.0

- \* Add `image` expression operator to determine image availability ([#8684](https://github.com/mapbox/mapbox-gl-js/pull/8684))
- \* Add a style-spec function to validate that styles are compatible with the Mapbox API ([#8663](https://github.com/mapbox/mapbox-gl-js/pull/8663))

## ## 13.8.0

- Introduce `text-writing-mode` symbol layer property to allow placing point labels vertically. [#8399](https://github.com/mapbox/mapbox-gl-js/pull/8399)
- Allow `text-color` to be used in formatted expressions to be able to draw different parts of a label in different colors. [#8068](https://github.com/mapbox/mapbox-gl-js/pull/8068)
- Improve conversion of legacy filters with duplicate values. [#8542](https://github.com/mapbox/mapbox-gl-js/pull/8542)

## ## 13.7.2

### ### Bug fixes

- \* Fix SDK support spec section for variable label placement ([#8384](https://github.com/mapbox/mapbox-gl-js/pull/8384)) (h/t [ @pozdnyakov](https://github.com/pozdnyakov))

### ### Features and improvements

- \* Add SDK support spec section for text-radial-offset ([#8401](https://github.com/mapbox/mapbox-gl-js/pull/8401))
- \* Add `\*-sort-key` layout property for circle, fill, line ([#8467](https://github.com/mapbox/mapbox-gl-js/pull/8467))
- \* Expose convertFilter API in the style specification ([#8493](https://github.com/mapbox/mapbox-gl-js/pull/8493))

## ## 13.7.1

### ### Bug fixes

- \* Fix format expression options validation ([#8339](https://github.com/mapbox/mapbox-gl-js/pull/8339))
- \* Fix SDK support information for style properties added in v13.7.0: ([#8384](https://github.com/mapbox/mapbox-gl-js/pull/8384))
  - \* Add missing SDK support section for `text-radial-offset` property
  - \* Assign SDK versions for `text-variable-anchor` and `text-justify: auto`

## ## 13.7.0

### ### Features and improvements

- \* Add `text-radial-offset` style property ([#7596](https://github.com/mapbox/mapbox-gl-js/pull/7596))
- \* Add `text-variable-anchor` style property ([#7596](https://github.com/mapbox/mapbox-gl-js/pull/7596))
- \* Add `auto` value to `text-justify` style property ([#7596](https://github.com/mapbox/mapbox-gl-js/pull/7596))

## ## 13.6.0

### ### Features and improvements

- \* Add `clusterProperties` option for aggregated cluster properties ([#2412](https://github.com/mapbox/mapbox-gl-js/issues/2412), fixed by [#7584](https://github.com/mapbox/mapbox-gl-js/pull/7584))
- \* Add `number-format` expression ([#7626](https://github.com/mapbox/mapbox-gl-js/pull/7626))
- \* Add `symbol-sort-key` style property ([#7678](https://github.com/mapbox/mapbox-gl-js/pull/7678))

##

13.5.0

#### ### Features and improvements

- \* Flattens `all` expressions in converted filters ([#7679](https://github.com/mapbox/mapbox-gl-js/pull/7679))
- \* Compatibility tables are updated ([#7574](https://github.com/mapbox/mapbox-gl-js/pull/7574))

## 13.4.0

#### ### Features and improvements

- \* **Tighten style validation**
  - \* Disallow expressions as stop values ([#7396](https://github.com/mapbox/mapbox-gl-js/pull/7396))
  - \* Disallow `feature-state` expressions in filters ([#7366](https://github.com/mapbox/mapbox-gl-js/pull/7366))

## 13.3.0

#### ### Bug fixes

- \* **Expressions**
  - \* Fix `let` expression stripping expected type during parsing ([#7300](https://github.com/mapbox/mapbox-gl-js/issues/7300), fixed by [#7301](https://github.com/mapbox/mapbox-gl-js/pull/7301))
  - \* Fix superfluous wrapping of literals in `literal` expression ([#7336](https://github.com/mapbox/mapbox-gl-js/issues/7336), fixed by [#7337](https://github.com/mapbox/mapbox-gl-js/pull/7337))
  - \* Allow calling `to-color` on values that are already of type `Color` ([#7260](https://github.com/mapbox/mapbox-gl-js/pull/7260))
  - \* Fix `to-array` for empty arrays ([#7261](https://github.com/mapbox/mapbox-gl-js/pull/7261))
  - \* Fix identity functions for `text-field` when using formatted text ([#7351](https://github.com/mapbox/mapbox-gl-js/pull/7351))
  - \* Fix coercion of `null` to `0` in `to-number` expression ([#7083](https://github.com/mapbox/mapbox-gl-js/issues/7083), fixed by [#7274](https://github.com/mapbox/mapbox-gl-js/pull/7274))

#### ### Features and improvements

- \* Add `fill-extrusion-vertical-gradient` property for controlling shading of fill extrusions ([#5768](https://github.com/mapbox/mapbox-gl-js/issues/5768), fixed by [#6841](https://github.com/mapbox/mapbox-gl-js/pull/6841))

## 13.2.0

#### ### Bug fixes

- \* Update the style-spec's old `gl-style-migrate` script to include conversion of legacy functions and filters to their expression equivalents ([#6927](https://github.com/mapbox/mapbox-gl-js/issues/6927), fixed by [#7095](https://github.com/mapbox/mapbox-gl-js/pull/7095))

#### ### Features and improvements

- \* Add `symbol-z-order` symbol layout property to style spec ([#7219](https://github.com/mapbox/mapbox-gl-js/pull/7219))
- \* Implement data-driven styling support for `\*-pattern` properties` ([#6289](https://github.com/mapbox/mapbox-gl-js/pull/6289))

## ## 13.1.1

### ### Bug fixes

- \* Fix broken module import in mapboxgl-style-spec (v13.0.1) ([#6984](https://github.com/mapbox/mapbox-gl-js/issues/6984), fixed by [#6997](https://api.github.com/repos/mapbox/mapbox-gl-js/pulls/6997))

### ### Features and improvements

- \* Improve formatting for style output ([#7029](https://github.com/mapbox/mapbox-gl-js/pull/7029))

## ## 13.1.0

### ### Features and improvements

- \* Add `raster-resampling` raster paint property ([#6411](https://github.com/mapbox/mapbox-gl-js/pull/6411)) (h/t [andrewharvey](https://github.com/andrewharvey))
- \* Add `symbol-placement: line-center` ([#6821](https://github.com/mapbox/mapbox-gl-js/pull/6821))

## ## 13.0.1

### ### Breaking changes

- \* Align implicit type behavior of `match` expressions with with `case/===` ([#6684](https://github.com/mapbox/mapbox-gl-js/pull/6684))
- \* Update spec so that documentation can automatically capture which functions and expressions can be used with which properties ([#6521](https://github.com/mapbox/mapbox-gl-js/pull/6521))

### ### Features and improvements

- \* Add `feature-state` [#6263](https://github.com/mapbox/mapbox-gl-js/pull/6263)
- \* Add support for GeoJSON attribution ([#6364](https://github.com/mapbox/mapbox-gl-js/pull/6364)) (h/t [andrewharvey](https://github.com/andrewharvey))
- \* Upgrade to Flow 0.69 ([#6594](https://github.com/mapbox/mapbox-gl-js/pull/6594))

### ### Bug fixes

- \* Use named exports for style-spec endpoint module ([#6601](https://github.com/mapbox/mapbox-gl-js/issues/6601))

## ## 13.0.0

Malformed package published to NPM.

## ## 12.0.0

### ### Breaking changes

- \* The `to-string`

expression operator now converts null to an empty string rather than to `null`.

[#6534](https://github.com/mapbox/mapbox-gl-js/pull/6534)

#### ### Features and improvements

- \* Add line-gradient property [#6303](https://github.com/mapbox/mapbox-gl-js/pull/6303)

- \* Add collator expression for controlling case and diacritic sensitivity in string comparisons

[#6270](https://github.com/mapbox/mapbox-gl-js/pull/6270)

- \* Add `is-supported-script` expression for determining if a script is supported.

[#6260](https://github.com/mapbox/mapbox-gl-js/pull/6260)

- \* Add `collator` expression for controlling case and diacritic sensitivity in string comparisons

[#6270](https://github.com/mapbox/mapbox-gl-js/pull/6270)

- \* Add `abs`, `round`, `floor`, and `ceil` expression operators [#6496](https://github.com/mapbox/mapbox-gl-js/pull/6496)

- \* Add support for Mapzen Terrarium tiles in raster-dem sources [#6110](https://github.com/mapbox/mapbox-gl-js/pull/6110)

#### ### Bug fixes

- Fix Rollup build

[6575](https://github.com/mapbox/mapbox-gl-js/pull/6575)

### ## 11.1.1

#### ### Bug fixes

- \* Update SDK support information for `text-font`, and `heatmap-color`, and `hillshade` layer properties.

### ## 11.1.0

#### ### Features and improvements

- \* Avoid use of `new Function` for filters by converting old-style filters to expressions

[#5665](https://github.com/mapbox/mapbox-gl-js/pull/5665).

### ## 11.0.0

#### ### Breaking changes

- \* Remove constants validating code [#5885](https://github.com/mapbox/mapbox-gl-js/pull/5885)

- \* `colorSpace: "hcl"` now uses shortest-path interpolation for hue [#5811](https://github.com/mapbox/mapbox-gl-js/issues/5811)

#### ### Features and improvements

- \* Introduce client-side hillshading with `raster-dem` source type and `hillshade` layer type

[#5286](https://github.com/mapbox/mapbox-gl-js/pull/5286)

- \* Add Color#toString and expose Color publicly [#5866](https://github.com/mapbox/mapbox-gl-js/pull/5866)

- \* Improve typing for `===` and `!==` expressions [#5840](https://github.com/mapbox/mapbox-gl-js/pull/5840)

\*

- Made `coalesce` expressions more useful [#5755](https://github.com/mapbox/mapbox-gl-js/issues/5755)
- \* Enable implicit type assertions for array types [#5738](https://github.com/mapbox/mapbox-gl-js/pull/5738)

### ### Bug fixes

- \* Fix standalone browser build [#5736](https://github.com/mapbox/mapbox-gl-js/pull/5736), [#5906](https://github.com/mapbox/mapbox-gl-js/pull/5906)
- \* Handle NaN as input to step and interpolate expressions [#5757](https://github.com/mapbox/mapbox-gl-js/pull/5757)
- \* Fix style diffing for changes to GeoJSON sources [#5745](https://github.com/mapbox/mapbox-gl-js/pull/5745)
- \* Mark layer "type" property as required [#5849](https://github.com/mapbox/mapbox-gl-js/pull/5849)

### ## 10.1.0

- \* Remove support for validating and migrating v6 styles [#5604](https://github.com/mapbox/mapbox-gl-js/pull/5604)
- \* Remove support for validating v7 styles [#5604](https://github.com/mapbox/mapbox-gl-js/pull/5604)
- \* Remove spaces after commas in `to-string` representation of colors [#5480](https://github.com/mapbox/mapbox-gl-js/pull/5480)
- \* Fix bugs preventing `mapbox-gl-style-spec` package on NPM from being used externally [#5502](https://github.com/mapbox/mapbox-gl-js/pull/5502)
- \* Fix flow-typed interface generator [#5478](https://github.com/mapbox/mapbox-gl-js/pull/5478)
- \* Export `function` [#5584](https://github.com/mapbox/mapbox-gl-js/pull/5584)
- \* Export `StylePropertySpecification` type [#5593](https://github.com/mapbox/mapbox-gl-js/pull/5593)
- \* Split the `source\_tile` entry in the JSON schema into `source\_vector` and `source\_raster` [#5604](https://github.com/mapbox/mapbox-gl-js/pull/5604)

### ### Validation Changes

- \* Require that `heatmap-color` use expressions instead of stop functions [#5624](https://github.com/mapbox/mapbox-gl-js/issues/5624)
- \* Remove support for including `{tokens}` in expressions for `text-field` and `icon-image` [#5599](https://github.com/mapbox/mapbox-gl-js/issues/5599)
- \* Disallow interpolation in expressions for `line-dasharray` [#5519](https://github.com/mapbox/mapbox-gl-js/pull/5519)
- \* Validate that zoom expressions only appear at the top level of an expression [#5609](https://github.com/mapbox/mapbox-gl-js/issues/5609)
- \* Validate that `step` and `interpolate` expressions don't have any duplicate stops [#5605](https://github.com/mapbox/mapbox-gl-js/issues/5605)
- \* Split `curve` expression into `step` and `interpolate` expressions [#5542](https://github.com/mapbox/mapbox-gl-js/pull/5542)
- \* Validate expression values for enum-typed properties [#5589](https://github.com/mapbox/mapbox-gl-js/pull/5589)
- \* Improve validation to catch uses of deprecated function syntax [#5667](https://github.com/mapbox/mapbox-gl-js/pull/5667)

### ## 10.0.1

- \* Fix bug preventing @mapbox/mapbox-gl-style-spec package from being usable outside of mapbox-gl-js (#5502)

## ## 10.0.0

- \* Add expression and heatmap layer support. See Mapbox GL JS v0.40.1 changelog entry for details.

## ## 9.0.1

- \* Remove `fast-stable-stringify` dependency (#5152)

## ## 9.0.0

- \* Fix validation error on categorical zoom-and-property functions (#4220)
- \* Relax requirement that styles using "icon-image" must have a "sprite"
- \* Prevent infinite loop in binarySearchForIndex when duplicate stops are present. (#4503)
- \* Ensure generated composite function stops are in the correct order (#4509)
- \* Update SDK support matrices to be current as of GL JS v0.35.1, iOS SDK v3.5.0, Android SDK 5.0.0
- \* Remove support for implicitly-categorical functions
- \* **BREAKING CHANGE:** the API for the `function` module has changed. The `interpolated` and `piecewise-constant` exports were replaced with a single unnamed export, a function which accepts an object conforming to the style spec "function" definition, and an object defining a style spec property. It handles color parsing and validation of feature values internally.
- \* Functions now support a "default" property.
- \* `parseColor` was promoted from gl-js.

## ## 8.11.0

- \* Merge `feature-filter` repository into this repository #639

## ## 8.10.0

v8.0.0 styles are fully compatible with v8.10.0.

### ### Style Specification Changes

- \* Added `colorSpace` option to functions
- \* Added `fill-extrusion` layer type
- \* Add top-level `light` property
- \* Remove increase maximum `maxzoom` to 24
- \* Deprecate paint classes :warning:
- \* Increase strictness of function validation

### ### Reference JSON & API Changes

- \* Added `deref` utility

- \* Added `group\_by\_layout` utility
- \* Merge `mapbox-gl-function` repository into this repository

### ## 8.9.0

v8.0.0 styles are fully compatible with v8.9.0.

- \* Added identity functions
- \* Added `auto` value which represents the calculated default value

### ## 8.8.1

v8.0.0 styles are fully compatible with v8.8.1.

- \* Fixed style validation for layers with invalid types

### ## 8.8.0

v8.0.0 styles are fully compatible with v8.8.0.

- \* Clarified documentation around fill-opacity.
- \* Update function documentation and validation for property functions.
- \* Add text-pitch-alignment property.
- \*
- Add icon-text-fit, icon-text-fit-padding properties.

### ## 8.7.0

v8.0.0 styles are fully compatible with v8.7.0.

- \* Add support for has / !has operators.

### ## 8.6.0

v8.0.0 styles are fully compatible with v8.6.0.

- \* Added support for zoom and feature driven functions.

### ## 8.4.2

v8.0.0 styles are fully compatible with v8.4.2.

- \* Refactored style validator to expose more granular validation methods

### ## 8.4.1

v8.0.0 styles are fully compatible with v8.4.1.

\* Revert ramp validation checks that broke some styles.

#### ## 8.4.0

v8.0.0 styles are fully compatible with v8.4.0.

\* Added ``cluster``, ``clusterRadius``, ``clusterMaxZoom`` GeoJSON source properties.

#### ## 8.3.0

v8.0.0 styles are fully compatible with v8.3.0.

\* Added ``line-offset`` style property

#### ## 8.2.1

v8.0.0 styles are fully compatible with v8.2.1.

\* Enforce that all layers that use a vector source specify a "source-layer"

#### ## 8.2.0

v8.0.0 styles are fully compatible with v8.2.0.

\* Add inline ``example`` property.

\* Enforce that all

style properties must have documentation in ``doc`` property.

\* Create minified style specs with ``doc`` and ``example`` properties removed.

\* ``validate`` now validates against minified style spec.

\* ``format`` now accepts ``space`` option to use with ``JSON.stringify``.

\* Remove ``gl-style-spritefy``. Mapbox GL sprites are now created automatically by the Mapbox style APIs, or for hand-crafted styles, by `[spritezero-cli](https://github.com/mapbox/spritezero-cli)`.

#### ## 8.1.0

v8.0.0 styles are fully compatible with v8.1.0.

\* [BREAKING] Simplified layout/paint layer property types to more closely align with v7 types.

\* Fixed migration script compatibility with newer versions of Node.js and io.js

\* Removed ``constants`` from schema, they were deprecated in v8

\* Added style diff utility to generate semantic deltas between two stylesheets

\* Added ``visibility`` property to ``circle`` layer type

\* Added ``pitch`` property to stylesheet

#### ## 8.0.0

Introduction of Mapbox GL style specification v8. To migrate

a v7 style to v8,  
use the `gl-style-migrate` script as described in the README.

- \* [BREAKING] The value of the `text-font` property is now an array of strings, rather than a single comma separated string.
- \* [BREAKING] Renamed `symbol-min-distance` to `symbol-spacing`.
- \* [BREAKING] Renamed `background-image` to `background-pattern`.
- \* [BREAKING] Renamed `line-image` to `line-pattern`.
- \* [BREAKING] Renamed `fill-image` to `fill-pattern`.
- \* [BREAKING] Renamed the `url` property of the video source type to `urls`.
- \* [BREAKING] Coordinates in video sources are now specified in [lon, lat] order.
- \* [BREAKING] Removed `text-max-size` and `icon-max-size` properties; these are now calculated automatically.
- \* [BREAKING] `text-size` and `icon-size` are now layout properties instead of paint properties.
- \* [BREAKING] Constants are no longer supported. If you are editing styles by hand and want to use constants, you can use a preprocessing step with a tool like [ScreeSS](<https://github.com/screee/screee>).
- \*
- [BREAKING] The format for `mapbox://` glyphs URLs has changed; you should now use `mapbox://fonts/mapbox/{fontstack}/{range}.pbf`.
- \* [BREAKING] Reversed the priority of layers for calculating label placement: labels for layers that appear later in the style now have priority over earlier layers.
- \* Added a new `image` source type.
- \* Added a new `circle` layer type.
- \* Default map center location can now be set in the style.
- \* Added `mapbox://` sprite URLs `mapbox://sprite/{user | "mapbox"}/{id}`

### ## 7.5.0

- \* Added gl-style-composite script, for auto-compositing sources in a style.

### ## 7.4.1

- \* Use JSON.stringify for formatting instead of js-beautify

### ## 7.0.0

Introduction of Mapbox GL style specification v7.

- \* [BREAKING] Improve dashed lines (#234)
- \* [BREAKING] Remove prerendered layers (#232)
- \* Explicit visibility property (#212)
- \* Functions for all properties (#237)

### ## 6.0.0 (Style spec v6)

Introduction of Mapbox GL style specification v6.

- \* [BREAKING] New filter syntax (#178)
- \* [BREAKING] Line gap property (#131)
- \* [BREAKING] Remove dashes from min/max-zoom (#175)
- \* [BREAKING] New layout/paint terminology (#166)
- \* [BREAKING] Single text positioning property (#197)
- \* Added requirements (#200)
- \* Added minimum, maximum, and period values (#198)

## 0.0.5 (in progress)

- \* [BREAKING] Switch to suffix for transition properties (`transition-\*` -> `\*-transition`).
- \* Added support for remote, non-Mapbox TileJSON sources.
- \* [BREAKING] Source `minZoom` and `maxZoom` renamed to `minzoom` and `maxzoom` to match TileJSON.
- \* Added support for `mapbox://` glyph URLs.
- \* [BREAKING] Renamed `raster-fade` to `raster-fade-duration`.
- \* Added background-opacity property.
- \* Added "tokens" property to string values that can autocomplete fields from layers
- \* Added "units" property to describe value types

## 0.0.4 (Aug 8 2014)

- \* Initial public release

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# 1.704 express-handlebars 5.1.0-5.1.0

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## 2.0.2-2.0.2

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## 1.719 @emotion/styled-base 10.0.31-10.0.31

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## 1.724 core-js 2.6.11-2.6.11

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1022320964\_1591851326.93/0/chokidar-2-1-8-tgz/package/README.md

## 1.727 evp\_bytestokey 1.0.3-1.0.3

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## 1.728 @mapbox/point-geometry 0.1.0-0.1.0

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## 1.729 arraybuffer.slice 0.0.6-0.0.6

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# 1.730 platform 1.3.5-1.3.5

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## 1.732 socket.io-client 2.3.0-2.3.0

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## 1.734 @emotion/cache 10.0.29-10.0.29

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# 1.738 range-parser 1.2.1-1.2.1

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## 1.744 console-browserify 1.2.0-1.2.0

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# 1.783 @webassemblyjs/ast 1.9.0-1.9.0

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# 1.785 tiny-invariant 1.1.0-1.1.0

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## 1.788 mime-db 1.43.0-1.43.0

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## 1.789 bn.js 4.11.9-4.11.9

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\* /opt/ws\_local/PERMITS\_SQL/1025968041\_1591326003.49/0/asn1-js-4-10-1-tgz/package/README.md

## 1.807 on-headers 1.0.2-1.0.2

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## 1.825 @xtuc/long 4.2.2-4.2.2

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## 1.833 tunnel-ssh 4.1.4-4.1.4

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```
{
  "name": "my-app",
  "version": "0.1.0",
  "description": "my-app",
  "scripts": {
    "start": "node server.js"
  },
  "repository": "",
  "author": "",
  "license": "Apache License 2.0",
  "dependencies": {
    "raptor": ">=2.3.0",
    "optimist": "~0.3.5",
    "express-raptor": "~0.1.2",
    "express": "~3.1.1",
    "request": "~2.16.6",
    "ebay-global-header": "git://github.scm.corp.ebay.com/cubejs-ebay/ebay-global-header-node.git",
    "raptor-optimizer-ready-plugin": "git://github.scm.corp.ebay.com/cubejs-ebay/raptor-optimizer-ready-plugin.git",
    "ebay-ui-components": "git://github.scm.corp.ebay.com/Raptor/RaptorUIComponents.git",
    "raptor-hot-reload": "~0.1.3",
    "socket.io": "~0.9.14",
    "cluster2": "git://github.scm.corp.ebay.com/cubejs/cluster2.git",
    "context-config": "git://github.scm.corp.ebay.com/cubejs/context-config-node.git",
    "raptor-config": "git://github.scm.corp.ebay.com/cubejs-ebay/raptor-config-node.git"
  }
}
```

```
  },  
  "devDependencies": {}  
}
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1034316680\_1588680866.62/0/my-app-0-1-0-tgz/package/package.json

# 1.844 string\_decoder 1.3.0-1.3.0

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## 1.847 read 1.0.7-1.0.7

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```
# hash.js [![Build Status](https://secure.travis-ci.org/indutny/hash.js.svg)](http://travis-ci.org/indutny/hash.js)
```

Just a bike-shed.

```
## Install
```

```
```sh
npm install hash.js
```
```

```
## Usage
```

```
```js
```

```
var hash = require('hash.js')
hash.sha256().update('abc').digest('hex')
...

```

## Selective hash usage

```
```js
var sha512 = require('hash.js/lib/hash/sha/512');
sha512().update('abc').digest('hex');
...

```

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## 1.854 des.js 1.0.1-1.0.1

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# 1.855 node-gyp-build 3.7.0-3.7.0

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## 1.879 ua-parser-js 0.7.20-0.7.20

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## 1.885 use-global-hook 0.1.12-0.1.12

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## 1.929 react-dom 16.13.1-16.13.1

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# 1.930 react-router-dom 5.2.0-5.2.0

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## 1.932 @emotion/is-prop-valid 0.8.8-0.8.8

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## 7.10.1-7.10.1

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## 1.944 resolve 1.17.0-1.17.0

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## 1.946 neo-async 2.6.2-2.6.2

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## 1.947 pako 1.0.11-1.0.11

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## 1.948 enhanced-resolve 4.1.1-4.1.1

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## 1.949 loader-utils 1.4.0-1.4.0

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## 1.950 @babel/types 7.10.1-7.10.1

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## 1.953 mime-types 2.1.27-2.1.27

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## 1.957 expect.js 0.2.0-0.2.0

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## 1.972 debounce 1.2.0-1.2.0

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# debounce

Useful for implementing behavior that should only happen after a repeated action has completed.

## Installation

\$ component install component/debounce

Or in node:

\$ npm install debounce

## Example

```
```js
var debounce = require('debounce');
window.onresize = debounce(resize, 200);

function resize(e) {
  console.log('height', window.innerHeight);
  console.log('width', window.innerWidth);
}
```
```

To later clear the timer and cancel currently scheduled executions:

```
```
window.onresize.clear();
```
```

To execute any pending invocations and reset the timer:

```
```
window.onresize.flush();
```
```

Alternately, if using newer syntax:

```
```js
import { debounce } from "debounce";
```
```

## ## API

```
### debounce(fn, wait, [ immediate || false ])
```

Creates and returns a new debounced version of the passed function that will postpone its execution until after wait milliseconds have elapsed since the last time it was invoked.

Pass `true` for the `immediate` parameter to cause debounce to trigger the function on the leading edge instead of the trailing edge of the wait interval. Useful in circumstances like preventing accidental double-clicks on a "submit" button from firing a second time.

The debounced function returned has a property `clear` that is a function that will clear any scheduled future executions of your function.

The debounced function returned has a property `flush` that is a function that will immediately execute the function if and only if execution is scheduled, and reset the execution timer for subsequent invocations of the debounced function.

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1050649283\_1591795634.02/0/debounce-1-2-0-tgz/package/Readme.md

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1050649203\_1591795734.25/0/filewatcher-3-0-1-2-tgz/package/README.md

# 1.1000 pkginfo 0.4.1-0.4.1

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# 1.1027 has-to-string-tag-x 1.4.1-1.4.1

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# 1.1028 streamsearch 0.1.2-0.1.2

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# 1.1029 @webassemblyjs/ieee754 1.9.0-1.9.0

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## 1.1030 js-yaml 3.13.1-3.13.1

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## 1.1032 axios 0.19.2-0.19.2

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