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1.274 isarray 2.0.1 2.0.1

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1.275 moment 2.22.2 2.22.2

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1.276 forwarded 0.2.0 0.2.0

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1.277 xtend 2.1.2 2.1.2

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1.278 python-certifi 2021.10.8

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1.279 core-js 1.2.7 1.2.7

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1.280 string-humanize 1.0.0 1.0.0

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1.281 blob 0.0.5 0.0.5

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1.282 bufferutil 4.0.1 4.0.1

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1.283 stack-chain 1.3.7 1.3.7

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1.284 react-dom 17.0.2 17.0.2

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1.285 bson 1.0.9 1.0.9

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1.286 types-cookie 0.4.1 0.4.1

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1.290 statuses 1.5.0 1.5.0
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1.291 is-hexadecimal 1.0.4 1.0.4
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1.292 @babel/runtime 7.16.3 7.16.3
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1.293 debug 2.6.9 2.6.9
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1.294 mimic-response 1.0.1 1.0.1
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1.296 send 0.17.1 0.17.1
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1.297 prop-types 15.8.1 15.8.1
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1.299 clone 2.1.2 2.1.2
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1.300 datatables.net-dt 1.11.3 1.11.3
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1.308 process-nextick-args 2.0.1 2.0.1

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1.309 tweetnacl 0.14.5 0.14.5

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1.310 @nivo/tooltip 0.72.0 0.72.0

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1.311 schema-utils 0.4.7 0.4.7

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1.318 amcharts3-animate 1.1.2 1.1.2

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1.345 mobx-logger 0.7.1 0.7.1
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1.387 @mapbox/vector-tile 1.3.1 1.3.1
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1.389 string-template 1.0.0 1.0.0
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1.390 parseuri 0.0.6 0.0.6
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1.391 @mapbox/mapbox-gl-style-spec 13.16.0 13.16.0
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1.392 wgs84 0.0.0 0.0.0
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1.400 @amcharts/amcharts3-react 2.0.8 2.0.8
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1.409 bson 1.1.6 1.1.6
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1.410 @nivo/sunburst 0.72.0 0.72.0
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1.411 detect-node 2.1.0 2.1.0
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1.417 toidentifier 1.0.0 1.0.0
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1.418 @mapbox/geojson-types 1.0.2 1.0.2
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1.419 dtrace-provider 0.8.8 0.8.8
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1.426 react-select 1.3.0 1.3.0
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1.428 forever-agent 0.6.1 0.6.1
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1.430 @nivo/colors 0.72.0 0.72.0
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1.433 buffer-from 1.1.2 1.1.2
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1.434 promise-example 0.0.0 0.0.0
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1.437 log4javascript 1.4.16 1.4.16
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1.438 xmlhttprequest-ssl 1.6.3 1.6.3
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1.439 lowercase-keys 1.0.0 1.0.0
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1.441 json-schema-traverse 0.3.1 0.3.1
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1.442 commander 2.20.3 2.20.3
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1.443 @mapbox/jsonlint-lines-primitives 2.0.2 2.0.2

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1.444 case-sensitive-paths-webpack-plugin 2.4.0 2.4.0
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1.445 accepts 1.3.7 1.3.7
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1.446 @nivo/recompose 0.72.0 0.72.0
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1.459 @types/body-parser 1.19.2 1.19.2
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- 1.520 redeyed 0.4.4 0.4.4**
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1.548 ieee754 1.1.13 1.1.13

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1.549 python-requests 2.27.1

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1.550 mapbox-gl 0.51.0-beta.2 0.51.0-beta.2

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1.551 lodash.get 4.4.2 4.4.2

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1.552 @nivo/legends 0.72.0 0.72.0

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1.5 ajv 5.5.2 5.5.2

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1.7 @types/serve-static 1.13.10 1.13.10

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1.8 readable-stream 1.1.14 1.1.14

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1.21 negotiator 0.6.2 0.6.2

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1.39 methods 1.1.2 1.1.2

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1.52 ecdsa-sig-formatter 1.0.11 1.0.11

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1.57 kdbush 2.0.1 2.0.1

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1.59 fixed-data-table-2 0.7.17 0.7.17

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1.60 ua-parser-js 0.7.14 0.7.14

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1.61 caseless 0.12.0 0.12.0

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1.93 datatables.net-responsive 2.1.1 2.1.1

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1.94 raw-loader 0.5.1 0.5.1

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Found in path(s):

* /opt/ws_local/PERMITS_SQL/1019208040_1591851362.94/0/raw-loader-0-5-1-tgz/package/index.js

1.95 has-binary2 1.0.3 1.0.3

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1.96 @mapbox/whoots-js 3.1.0 3.1.0

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1.100 random-bytes 1.0.0 1.0.0

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1.102 types-unist 2.0.6 2.0.6

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1.103 webui-popover 1.2.18 1.2.18

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1.104 ua-parser-js 0.7.31 0.7.31

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1.106 react-motion 0.4.8 0.4.8

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1.107 path-to-regexp 1.8.0 1.8.0

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1.108 amqplib 0.7.1 0.7.1

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1.109 ms 2.1.2 2.1.2

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1.110 grid-index 1.1.0 1.1.0

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1.111 d3-time-format 3.0.0 3.0.0

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1.112 datatables.net-responsive 2.2.9 2.2.9

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1.113 @babel/runtime 7.17.2 7.17.2

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1.115 response-time 2.3.2 2.3.2

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1.118 react-shadow-dom-retarget-events 1.1.0

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1.123 on-finished 2.3.0 2.3.0

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1.124 date-fns 2.29.1 2.29.1

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1.125 redux 3.7.2 3.7.2

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1.126 socket.io-parser 3.3.2 3.3.2

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1.127 sprintf-js 1.0.3 1.0.3

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1.128 raw-body 2.4.0 2.4.0

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1.129 cron-converter 0.0.12 0.0.12

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1.130 regexp-clone 0.0.1 0.0.1

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1.131 geojson-rewind 0.3.1 0.3.1

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1.132 base64-js 1.5.1 1.5.1

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1.133 assert-plus 1.0.0 1.0.0

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1.134 bitsyntax 0.1.0 0.1.0

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1.135 babylon 5.8.38 5.8.38

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1.136 shimmer 1.2.1 1.2.1

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1.137 @mapbox/geojson-rewind 0.5.0 0.5.0

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1.138 typedarray 0.0.6 0.0.6

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*/

// Original can be found at:

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

// Modifications by Joshua Bell inexorabletash@gmail.com

// <https://github.com/inexorabletash/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[])

1.139 request 2.88.2 2.88.2

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Version 2.0, January 2004

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1.140 helmet 4.6.0 4.6.0

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1.141 character-reference-invalid 1.1.4 1.1.4

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1.142 asn1 0.2.6 0.2.6

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1.143 datatables.net-scroller 1.4.2 1.4.2

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1.144 d3-scale-chromatic 2.0.0 2.0.0

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1.145 change-emitter 0.1.6 0.1.6

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1.148 pbf 3.2.1 3.2.1

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1.150 @types/cls-hooked 4.3.3 4.3.3

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1.154 entities 2.0.3 2.0.3

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1.156 bcrypt-pbkdf 1.0.2 1.0.2

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1.157 react-lifecycles-compat 3.0.4 3.0.4

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1.161 http-cache-semantics 3.8.1 3.8.1

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1.162 node-gp 1.12.5 1.12.5

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1.167 emojis-list 3.0.0 3.0.0

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1.168 node-gyp-build 3.7.0 3.7.0

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1.171 node-uuid 1.4.8 1.4.8

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1.178 regenerator-runtime 0.13.5 0.13.5

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1.185 microseconds 0.2.0 0.2.0

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1.187 compression 1.7.4 1.7.4

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1.192 jquery-ui 1.11.4 1.11.4

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1.195 component-inherit 0.0.3 0.0.3

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1.200 sindresorhus-is 0.7.0 0.7.0

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1.203 sort-object 0.3.2 0.3.2

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1.204 indexof 0.0.1 0.0.1

1.205 js-base64 2.6.4 2.6.4

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1.212 delaunator 4.0.1 4.0.1

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1.217 split-on-first 1.1.0 1.1.0

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1.230 jwt-decode 2.2.0 2.2.0

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1.231 url-to-options 1.0.1 1.0.1

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1.233 p-timeout 2.0.1 2.0.1

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1.237 isarray 0.0.1 0.0.1

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1.238 intl-relativeformat 2.2.0 2.2.0

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1.239 value-equal 1.0.1 1.0.1

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1.240 dom-serializer 1.3.2 1.3.2

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1.241 reactapp 1.0.0 1.0.0

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1.243 font-family-papandreou 0.2.0-patch2

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1.244 geojson-vt 3.2.1 3.2.1

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1.248 prop-types 15.7.2 15.7.2

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1.256 htmlparser2 7.2.0 7.2.0

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1.257 ast-types 0.10.1 0.10.1

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1.258 rw 1.3.3 1.3.3

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1.259 react-measure 1.4.7 1.4.7

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1.260 requires-port 1.0.0 1.0.0

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1.261 base-64 0.1.0 0.1.0

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1.262 mdast-util-to-string 2.0.0 2.0.0

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1.263 engine.io-client 3.5.2 3.5.2

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1.265 mdast-util-from-markdown 0.8.5 0.8.5

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1.267 node-gyp-build 4.3.0 4.3.0

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1.269 jquery 3.6.0 3.6.0

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1.270 text 2.0.14 2.0.14

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1.271 intl-messageformat-parser 1.4.0 1.4.0

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1.273 deepmerge 1.5.2 1.5.2

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1.274 isarray 2.0.1 2.0.1

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1.275 moment 2.22.2 2.22.2

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1.276 forwarded 0.2.0 0.2.0

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1.278 python-certifi 2021.10.8

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1.279 core-js 1.2.7 1.2.7

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1.281 blob 0.0.5 0.0.5

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1.282 bufferutil 4.0.1 4.0.1

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1.283 stack-chain 1.3.7 1.3.7

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1.284 react-dom 17.0.2 17.0.2

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1.285 bson 1.0.9 1.0.9

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1.287 js-tokens 4.0.0 4.0.0

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1.307 urllib3 1.26.12

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1.308 process-nextick-args 2.0.1 2.0.1

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1.309 tweetnacl 0.14.5 0.14.5

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1.310 @nivo/tooltip 0.72.0 0.72.0

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1.311 schema-utils 0.4.7 0.4.7

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1.312 sort-desc 0.1.1 0.1.1

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1.313 lodash.once 4.1.1 4.1.1

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1.314 tiny-warning 1.0.3 1.0.3

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1.316 react-dom 15.7.0 15.7.0

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1.317 python-certifi 2021.10.08

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

1.318 amcharts3-animate 1.1.2 1.1.2

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1.322 react-router-dom 5.3.0 5.3.0

1.322.1 Available under license :

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{ "version": 3, "file": "react-router-dom.min.js", "sources": [ "../node_modules/@babel/runtime/helpers/esm/setPrototypeOf.js", "../node_modules/@babel/runtime/helpers/esm/inheritsLoose.js", "../node_modules/react-is/cjs/react-is.production.min.js", "../node_modules/react-is/index.js", "../node_modules/object-assign/index.js", "../node_modules/prop-types/factoryWithTypeCheckers.js", "../node_modules/prop-types/factoryWithThrowingShims.js", "../node_modules/prop-types/index.js", "../node_modules/prop-types/lib/ReactPropTypesSecret.js", "../node_modules/@babel/runtime/helpers/esm/extends.js", "../node_modules/resolve-pathname/index.js", "../node_modules/value-equal/index.js", "../node_modules/tiny-invariant/dist/tiny-invariant.esm.js", "../node_modules/history/esm/history.js", "../node_modules/mini-create-react-context/dist/esm/index.js", "../node_modules/path-to-regexp/index.js", "../node_modules/path-to-regexp/node_modules/isarray/index.js", "../node_modules/@babel/runtime/helpers/esm/objectWithoutPropertiesLoose.js", "../node_modules/hoist-non-react-statics/dist/hoist-non-react-statics.cjs.js", "../react-router/esm/react-router.js", "../modules/Utils/locationUtils.js", "../modules/Link.js", "../modules/BrowserRouter.js", "../modules/HashRouter.js", "../modules/NavLink.js"], "sourcesContent": [ "export default function _setPrototypeOf(o, p) {\n  _setPrototypeOf = Object.setPrototypeOf || function _setPrototypeOf(o, p) {\n    o.__proto__ = p;\n    return o;\n  };\n  return _setPrototypeOf(o, p);\n}", "import setPrototypeOf from\n\n'@babel/runtime/helpers/esm/setPrototypeOf';\n\nexport default function _inheritsLoose(subClass, superClass) {\n  subClass.prototype = Object.create(superClass.prototype);\n  subClass.prototype.constructor = subClass;\n  setPrototypeOf(subClass, superClass);\n}", "/* @license React v16.9.0\n * react-is.production.min.js\n *\n * Copyright (c) Facebook, Inc. and its affiliates.\n * This source code is licensed under the MIT license found in\n * the\n * LICENSE file in the root directory of this source tree.\n */\n'use\nstrict';\nObject.defineProperty(exports, '__esModule', { value: !0 });\nvar b = "function" === typeof\nSymbol&&Symbol.for, c = b?Symbol.for("react.element"):60103, d = b?Symbol.for("react.portal"):60106, e = b?Symbo\nol.for("react.fragment"):60107, f = b?Symbol.for("react.strict_mode"):60108, g = b?Symbol.for("react.profiler"):60\n114, h = b?Symbol.for("react.provider"):60109, k = b?Symbol.for("react.context"):60110, l = b?Symbol.for("react.asy\nnc_mode"):60111, m = b?Symbol.for("react.concurrent_mode"):60111, n = b?Symbol.for("react.forward_ref"):6011\n2, p = b?Symbol.for("react.suspense"):60113, q = b?Symbol.for("react.suspense_list"):60120, r = b?Symbol.for("rea\nct.memo"):60115, t = b?Symbol.for("react.lazy"):60116, v = b?Symbol.for("react.fundamental"):60117, w = b?Symbo\nl.for("react.responder"):60118; function x(a) {\n  if ("object" === typeof a && null !== a) {\n    var\n      u = a.$typeof; switch (u) {\n      case c: switch (a = a.type, a) {\n        case l: case m: case e: case g: case f: case p: return\n          a; default: switch (a = a && a.$typeof, a) {\n            case k: case n: case h: return a; default: return u\n          }\n        case t: case r: case d: return\n          u\n        }\n      }\n    }\n  }\n  function y(a) {\n    return\n      x(a) === m\n    }\n  exports.typeOf = x; exports.AsyncMode = l; exports.ConcurrentMode = m; exports.ContextConsumer = k; exp\n  orts.ContextProvider = h; exports.Element = c; exports.ForwardRef = n; exports.Fragment = e; exports.Lazy = t; exports.Me\n  mo = r; exports.Portal = d; exports.Profiler = g; exports.StrictMode = f; exports.Suspense = p; exports.isValidElementType\n  = function(a) {\n    return\n      "string" === typeof a ||\n      "function" === typeof\n      a ||\n      a === e ||\n      a === m ||\n      a === g ||\n      a === f ||\n      a === p ||\n      a === q ||\n      "object" === typeof\n      a &&\n      null !== a &&\n      (a.$typeof === t ||\n      a.$typeof === r ||\n      a.$typeof === h ||\n      a.$typeof === k ||\n      a.$typeof === n ||\n      a.$typeof ===\n      v ||\n      a.$typeof === w\n      )\n    }\n  exports.isAsyncMode = function(a) {\n    return\n      y(a) ||\n      x(a) === l\n    }\n  exports.isConcurrentMode = y; exports.isContextConsumer = function(a) {\n    return\n      x(a) === k\n    }\n  exports.isContextProvider = function(a) {\n    return\n      x(a) === h\n    }\n  }\n}
```



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x(a)===h});\nexports.isElement=function(a){return\"object\"===typeof
a&&null!==(a&&a.$$.typeof===c)};exports.isForwardRef=function(a){return
x(a)===n};exports.isFragment=function(a){return x(a)===e};exports.isLazy=function(a){return
x(a)===t};exports.isMemo=function(a){return x(a)===r};exports.isPortal=function(a){return
x(a)===d};exports.isProfiler=function(a){return x(a)===g};exports.isStrictMode=function(a){return
x(a)===f};exports.isSuspense=function(a){return x(a)===p};\n\", \"use strict\";\n\nif (process.env.NODE_ENV ===
'production') {\n  module.exports = require('./cjs/react-is.production.min.js');\n} else {\n  module.exports =
require('./cjs/react-is.development.js');\n}\n\", \"/*\n  noobject-assign\n  (c) Sindre Sorhus\n  @license MIT\n  *\n  use strict\";\n  /*\n    eslint-disable no-unused-vars\n    *\n    var getOwnPropertySymbols = Object.getPrototypeOfSymbols;\n    var hasOwnProperty = Object.prototype.hasOwnProperty;\n    var propIsEnumerable =
Object.prototype.propertyIsEnumerable;\n\n    function toObject(val) {\n      if (val === null || val === undefined)
{\n        throw new TypeError('Object.assign cannot be called with null or undefined');\n      }\n      return
Object(val);\n    }\n\n    function shouldUseNative() {\n      try {\n        if (!Object.assign) {\n          return false;\n        }\n        //
Detect buggy property enumeration order in older V8 versions.\n\n        https://bugs.chromium.org/p/v8/issues/detail?id=4118\n        var test1 = new String('abc'); // eslint-disable-line no-
new-wrappers\n        test1[5] = 'de';\n        if (Object.getOwnPropertyNames(test1)[0] === '5') {\n          return
false;\n        }\n        // https://bugs.chromium.org/p/v8/issues/detail?id=3056\n        var test2 = {};\n        for (var i = 0; i <
10; i++) {\n          test2['_' + String.fromCharCode(i)] = i;\n        }\n        var order2 =
Object.getOwnPropertyNames(test2).map(function (n) {\n          return test2[n];\n        });\n        if (order2.join('') !==
'0123456789') {\n          return false;\n        }\n        // https://bugs.chromium.org/p/v8/issues/detail?id=3056\n        var test3
= {};\n        test3['abcdefghijklmnopqrst'].split('').forEach(function (letter) {\n          test3[letter] = letter;\n        });\n        if
(Object.keys(Object.assign({}, test3)).join('') !==\n          'abcdefghijklmnopqrst') {\n          return
false;\n        }\n        return true;\n      } catch (err) {\n        // We don't expect any of the above to throw, but better to be
safe.\n        return false;\n      }\n    }\n\n    module.exports = shouldUseNative() ? Object.assign : function (target, source)
{\n      var from;\n      var to = toObject(target);\n      var symbols;\n      for (var s = 1; s < arguments.length; s++) {\n        from =
Object(arguments[s]);\n        for (var key in from) {\n          if (hasOwnProperty.call(from, key)) {\n            to[to[key]] =
from[key];\n          }\n          if (getOwnPropertySymbols) {\n            symbols =
getOwnPropertySymbols(from);\n            for (var i = 0; i < symbols.length; i++) {\n              if
(propIsEnumerable.call(from, symbols[i])) {\n                to[symbols[i]] =
from[symbols[i]];\n              }\n            }\n          }\n          return to;\n        }\n      }\n      return to;\n    };\n\n    /*\n    * Copyright (c) 2013-present, Facebook,
Inc.\n    * This source code is licensed under the MIT license found in the\n    * LICENSE file in the root directory
of this source tree.\n    *\n    use strict\";\n\n    var ReactIs = require('react-is');\n    var assign = require('object-
assign');\n    var ReactPropTypesSecret = require('lib/ReactPropTypesSecret');\n    var checkPropTypes =
require('checkPropTypes');\n    var has = Function.call.bind(Object.prototype.hasOwnProperty);\n    var printWarning
= function() {};\n    if (process.env.NODE_ENV !== 'production') {\n      printWarning = function(text) {\n        var
message = 'Warning: ' + text;\n        if (typeof console !== 'undefined') {\n          console.error(message);\n        }\n        try {\n          // --- Welcome to debugging React ---\n          // This error was thrown as a convenience so that you can use this
stack\n          // to find the callsite that caused this warning to fire.\n          throw new Error(message);\n        } catch (x) {} \n      }\n    }\n\n    function emptyFunctionThatReturnsNull() {\n      return null;\n    }\n\n    module.exports =
function(isValidElement, throwOnDirectAccess) {\n      /* global Symbol */\n      var ITERATOR_SYMBOL = typeof
Symbol === 'function' && Symbol.iterator;\n      var FAUX_ITERATOR_SYMBOL = '@@iterator'; // Before Symbol
spec.\n\n      /*\n      * Returns the iterator method function contained on the iterable object.\n      *\n      * Be sure to invoke
the function with the iterable as context:\n      *\n      * var iteratorFn = getIteratorFn(myIterable);\n      * if
(iteratorFn) {\n      *   var iterator = iteratorFn.call(myIterable);\n      *   ... \n      * }\n      *\n      * @param {?object}
maybeIterable\n      * @return {?function}\n      */\n      function getIteratorFn(maybeIterable) {\n        var iteratorFn =
maybeIterable && (ITERATOR_SYMBOL && maybeIterable[ITERATOR_SYMBOL] ||
maybeIterable[FAUX_ITERATOR_SYMBOL]);\n        if (typeof iteratorFn === 'function') {\n          return iteratorFn;\n        }\n      }\n\n      /*\n      * Collection of methods that allow declaration and validation of props that are\n      * supplied to

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React components. Example usage:\n * \n * var Props = require('ReactPropTypes');\n * var MyArticle =
React.createClass({\n *   propTypes: {\n *     // An optional string prop named "description".\n *
description: Props.string,\n * \n *     // A required enum prop named "category".\n *     category:
Props.oneOf(['News', 'Photos']).isRequired,\n * \n *     // A prop named "dialog" that requires an instance of
Dialog.\n *     dialog: Props.instanceOf(Dialog).isRequired\n *   },\n *   render: function() { ... }\n * });\n
*\n * A more formal specification of how these methods are used:\n * \n * type :=
array|bool|func|object|number|string|oneOf([...])|instanceOf(...)\n * decl :=
ReactPropTypes.{type}(.isRequired)?\n * \n * Each and every declaration produces a function with the same
signature. This\n * allows the creation of custom validation functions. For example:\n * \n * var MyLink =
React.createClass({\n *   propTypes: {\n *     // An optional string or URI prop named "href".\n *     href:
function(props, propName, componentName) {\n *       var propValue = props[propName];\n *       if (propValue
!= null && typeof propValue !== 'string' &&\n *         !(propValue instanceof URI)) {\n *         return new
Error(\n *           'Expected a string or an URI for ' + propName + ' in ' +\n *             componentName\n *
);\n *       }\n *     },\n *     render: function() { ... }\n * });\n * \n * @internal\n * \n var
ANONYMOUS = '<<anonymous>>';\n\n // Important!\n // Keep this list in sync with production version in
`./factoryWithThrowingShims.js`\n var ReactPropTypes = {\n   array: createPrimitiveTypeChecker('array'),\n
bool: createPrimitiveTypeChecker('boolean'),\n   func: createPrimitiveTypeChecker('function'),\n   number:
createPrimitiveTypeChecker('number'),\n   object: createPrimitiveTypeChecker('object'),\n   string:
createPrimitiveTypeChecker('string'),\n   symbol: createPrimitiveTypeChecker('symbol'),\n\n   any:
createAnyTypeChecker(),\n   arrayOf: createArrayOfTypeChecker,\n   element: createElementTypeChecker(),\n
elementType: createElementTypeChecker(),\n   instanceOf: createInstanceTypeChecker,\n   node:
createNodeChecker(),\n   objectOf: createObjectOfTypeChecker,\n   oneOf: createEnumTypeChecker,\n
oneOfType: createUnionTypeChecker,\n   shape: createShapeTypeChecker,\n   exact:
createStrictShapeTypeChecker,\n }; \n\n /**\n * inlined Object.is polyfill to avoid requiring consumers ship their
own\n * https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object/is\n * \n
/*eslint-disable no-self-compare*\n function is(x, y) {\n   // SameValue algorithm\n   if (x === y) {\n     // Steps
1-5, 7-10\n     // Steps 6.b-6.e: +0 !== -0\n     return x !== 0 || 1 / x === 1 / y;\n   } else {\n     // Step 6.a: NaN ==
NaN\n     return x !== x && y !== y;\n   }\n }\n\n /*eslint-enable no-self-compare*\n\n /**\n * We use an Error-
like object for backward compatibility as people may call\n * PropTypes directly and inspect their output.
However, we don't use real\n * Errors anymore. We don't inspect their stack anyway, and creating them\n * is
prohibitively expensive if they are created too often, such as what\n * happens in oneOfType() for any type before
the one that matched.\n * \n function PropTypeError(message) {\n   this.message = message;\n   this.stack = '';\n
}\n\n // Make `instanceof Error` still work for returned errors.\n PropTypeError.prototype = Error.prototype;\n\n
function createChainableTypeChecker(validate) {\n   if (process.env.NODE_ENV !== 'production') {\n     var
manualPropTypeCallCache = {};\n     var manualPropTypeWarningCount = 0;\n   }\n   function
checkType(isRequired, props, propName, componentName, location, propFullName, secret) {\n
componentName = componentName || ANONYMOUS;\n     propFullName = propFullName || propName;\n\n     if
(secret !== ReactPropTypesSecret) {\n       if ((throwOnDirectAccess) {\n         // New behavior only for users of
`prop-types` package\n         var err = new Error(\n           'Calling PropTypes validators directly is not supported by
the `prop-types` package. ' +\n             'Use `PropTypes.checkPropTypes()` to call them. ' +\n             'Read more at
http://fb.me/use-check-prop-types'\n         ));\n         err.name = 'Invariant Violation';\n         throw err;\n       } else
if (process.env.NODE_ENV !== 'production' && typeof console !== 'undefined') {\n         // Old behavior for
people using React.PropTypes\n         var cacheKey = componentName + ':' + propName;\n         if (\n
!manualPropTypeCallCache[cacheKey] &&\n           // Avoid spamming the console because they are often not
actionable except for lib authors\n           manualPropTypeWarningCount < 3\n         ) {\n           printWarning(\n
            'You are manually calling a React.PropTypes validation ' +\n              'function for the `' + propFullName + '`
prop on `' + componentName + `'. This is deprecated ' +\n                'and will throw in the standalone `prop-types`
package. ' +\n                'You may be seeing this warning due to a third-party PropTypes ' +\n                'library. See

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https://fb.me/react-warning-dont-call-proptypes ' + 'for details.'\n      );\n
manualPropTypeCallCache[cacheKey] = true;\n      manualPropTypeWarningCount++;\n    }\n  }\n
}\n  if (props[propName] == null) {\n    if (isRequired) {\n      if (props[propName] === null) {\n
return new PropTypeError('The ' + location + '``' + propFullName + ' is marked as required ' + ('in `` +
componentName + ', but its value is `null`.');\n      }\n      return new PropTypeError('The ' + location + '``' +
propFullName + ' is marked as required in ' + ('``' + componentName + ', but its value is `undefined`.');\n    }\n
return null;\n  } else {\n    return validate(props, propName, componentName, location, propFullName);\n
}\n }\n\n var chainedCheckType = checkType.bind(null, false);\n chainedCheckType.isRequired =
checkType.bind(null, true);\n return chainedCheckType;\n }\n\n function
createPrimitiveTypeChecker(expectedType) {\n  function validate(props, propName, componentName, location,
propFullName, secret) {\n    var propValue = props[propName];\n    var propType = getPropType(propValue);\n
    if (propType !== expectedType) {\n      // `propValue` being instance of, say, date/regexp, pass the 'object'\n
// check, but we can offer a more precise error message here rather than\n      // 'of type `object`'.\n      var
preciseType = getPreciseType(propValue);\n      return new PropTypeError('Invalid ' + location + '``' +
propFullName + ' of type ' + ('``' + preciseType + ' supplied to ``' + componentName + ', expected ' + ('``' +
expectedType + ')).'\n    }\n    return null;\n  }\n  return createChainableTypeChecker(validate);\n }\n\n
function createAnyTypeChecker() {\n  return createChainableTypeChecker(emptyFunctionThatReturnsNull);\n
}\n\n function createArrayOfTypeChecker(typeChecker) {\n  function validate(props, propName,
componentName, location, propFullName) {\n    if (typeof typeChecker !== 'function') {\n      return new
PropTypeError('Property ``' + propFullName + ' of component ``' + componentName + ' has invalid PropType
notation inside arrayOf.);\n    }\n    var propValue = props[propName];\n    if (!Array.isArray(propValue)) {\n
var propType = getPropType(propValue);\n      return new PropTypeError('Invalid ' + location + '``' +
propFullName + ' of type ' + ('``' + propType + ' supplied to ``' + componentName + ', expected an array.);\n
}\n    for (var i = 0; i < propValue.length; i++) {\n      var error = typeChecker(propValue, i, componentName,
location, propFullName + '[' + i + ']', ReactPropTypesSecret);\n      if (error instanceof Error) {\n        return
error;\n      }\n    }\n    return null;\n  }\n  return createChainableTypeChecker(validate);\n }\n\n function
createElementTypeChecker() {\n  function validate(props, propName, componentName, location, propFullName) {\n
var propValue = props[propName];\n    if (!isValidElement(propValue)) {\n      var propType =
getPropType(propValue);\n      return new PropTypeError('Invalid ' + location + '``' + propFullName + ' of type ' +
('``' + propType + ' supplied to ``' + componentName + ', expected a single ReactElement.);\n    }\n    return
null;\n  }\n  return createChainableTypeChecker(validate);\n }\n\n function createElementTypeTypeChecker() {\n
function validate(props, propName, componentName, location, propFullName) {\n    var propValue =
props[propName];\n    if (!ReactIs.isValidElementType(propValue)) {\n      var propType =
getPropType(propValue);\n      return new PropTypeError('Invalid ' + location + '``' + propFullName + ' of type ' +
('``' + propType + ' supplied to ``' + componentName + ', expected a single ReactElement type.);\n    }\n    return
null;\n  }\n  return createChainableTypeChecker(validate);\n }\n\n function
createInstanceTypeChecker(expectedClass) {\n  function validate(props, propName, componentName, location,
propFullName) {\n    if (!(props[propName] instanceof expectedClass)) {\n      var expectedClassName =
expectedClass.name || ANONYMOUS;\n      var actualClassName = getClassName(props[propName]);\n
return new PropTypeError('Invalid ' + location + '``' + propFullName + ' of type ' + ('``' + actualClassName + '
supplied to ``' + componentName + ', expected ' + ('instance of ``' + expectedClassName + ')).'\n    }\n    return
null;\n  }\n  return createChainableTypeChecker(validate);\n }\n\n function
createEnumTypeChecker(expectedValues) {\n  if (!Array.isArray(expectedValues)) {\n    if
(process.env.NODE_ENV !== 'production') {\n      if (arguments.length > 1) {\n        printWarning(\n
'Invalid arguments supplied to oneOf, expected an array, got ' + arguments.length + ' arguments. ' +\n        'A
common mistake is to write oneOf(x, y, z) instead of oneOf([x, y, z]).'\n      );\n    } else {\n
printWarning('Invalid argument supplied to oneOf, expected an array.);\n    }\n    }\n    return
emptyFunctionThatReturnsNull;\n  }\n\n  function validate(props, propName, componentName, location,

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propFullName) {\n    var propValue = props[propName];\n    for (var i = 0; i < expectedValues.length; i++) {\n    if (is(propValue, expectedValues[i])) {\n        return null;\n    }\n    }\n    var valuesString =
JSON.stringify(expectedValues, function replacer(key, value) {\n        var type = getPreciseType(value);\n        if
(type === 'symbol') {\n            return String(value);\n        }\n        return value;\n    });\n    return new
PropTypeError('Invalid ' + location + '``' + propFullName + ` of value ``' + String(propValue) + ` ' + ('supplied to ``'
+ componentName + `, expected one of ' + valuesString + '.')));\n    }\n    return
createChainableTypeChecker(validate);\n    }\n\n    function createObjectOfTypeChecker(typeChecker) {\n    function
validate(props, propName, componentName, location, propFullName) {\n        if (typeof typeChecker !== 'function')
{\n            return new PropTypeError('Property ``' + propFullName + ` of component ``' + componentName + ` has
invalid PropType notation inside objectOf.');

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error;\n    }\n    }\n    return null;\n    }\n\n    return createChainableTypeChecker(validate);\n    }\n\n    function
isNode(propValue) {\n    switch (typeof propValue) {\n    case 'number':\n    case 'string':\n    case 'undefined':\n
    return true;\n    case 'boolean':\n    return !propValue;\n    case 'object':\n    if (Array.isArray(propValue))
{\n    return propValue.every(isNode);\n    }\n    if (propValue === null || isValidElement(propValue)) {\n
    return true;\n    }\n\n    var iteratorFn = getIteratorFn(propValue);\n    if (iteratorFn) {\n    var iterator
= iteratorFn.call(propValue);\n    var step;\n    if (iteratorFn !== propValue.entries) {\n    while (!(step =
iterator.next()).done) {\n    if (!isNode(step.value)) {\n    return false;\n    }\n    }\n    }
else {\n    // Iterator will provide entry [k,v] tuples rather than values.\n    while (!(step =
iterator.next()).done) {\n    var entry = step.value;\n    if (entry) {\n    if (!isNode(entry[1])) {\n
return false;\n    }\n    }\n    }\n    }\n    } else {\n    return false;\n    }\n\n    return true;\n    default:\n    return false;\n    }\n    }\n\n    function isSymbol(propType, propValue) {\n    // Native
Symbol.\n    if (propType === 'symbol') {\n    return true;\n    }\n\n    // falsy value can't be a Symbol\n    if
(!propValue) {\n    return false;\n    }\n\n    // 19.4.3.5 Symbol.prototype[ @@toStringTag] === 'Symbol'\n    if
(propValue[ '@@toStringTag'] === 'Symbol') {\n    return true;\n    }\n\n    // Fallback for non-spec compliant
Symbols which are polyfilled.\n    if (typeof Symbol === 'function' && propValue instanceof Symbol) {\n    return
true;\n    }\n\n    return false;\n    }\n\n    // Equivalent of `typeof` but with special handling for array and regexp.\n
function getPropType(propValue) {\n    var propType = typeof propValue;\n    if (Array.isArray(propValue)) {\n
return 'array';\n    }\n    if (propValue instanceof RegExp) {\n    // Old webkits (at least until Android 4.0) return
'function' rather than\n    // 'object' for typeof a RegExp. We'll normalize this here so that /bla/\n    // passes
PropTypes.object.\n    return 'object';\n    }\n    if (isSymbol(propType, propValue)) {\n    return 'symbol';\n    }\n
return propType;\n    }\n\n    // This handles more types than `getPropType`. Only used for error messages.\n    // See
`createPrimitiveTypeChecker`.\n    function getPreciseType(propValue) {\n    if (typeof propValue === 'undefined' ||
propValue === null) {\n    return " + propValue;\n    }\n    var propType = getPropType(propValue);\n    if
(propType === 'object') {\n    if (propValue instanceof Date) {\n    return 'date';\n    } else if (propValue
instanceof RegExp) {\n    return 'regexp';\n    }\n    }\n    return propType;\n    }\n\n    // Returns a string that is
postfixed to a warning about an invalid type.\n    // For example, "undefined" or "of type array"\n    function
getPostfixForTypeWarning(value) {\n    var type = getPreciseType(value);\n    switch (type) {\n    case 'array':\n
case 'object':\n    return 'an ' + type;\n    case 'boolean':\n    case 'date':\n    case 'regexp':\n    return 'a ' +
type;\n    default:\n    return type;\n    }\n    }\n\n    // Returns class name of the object, if any.\n    function
getClassName(propValue) {\n    if (!propValue.constructor || !propValue.constructor.name) {\n    return
ANONYMOUS;\n    }\n    return propValue.constructor.name;\n    }\n\n    ReactPropTypes.checkPropTypes =
checkPropTypes;\n    ReactPropTypes.resetWarningCache = checkPropTypes.resetWarningCache;\n
ReactPropTypes.PropTypes = ReactPropTypes;\n\n    return ReactPropTypes;\n    };\n\n    /**\n    * Copyright (c) 2013-
present, Facebook, Inc.\n    *\n    * This source code is licensed under the MIT license found in the\n    * LICENSE file in
the root directory of this source tree.\n    */\n\n    'use strict';\n\n    nvar ReactPropTypesSecret =
require('./lib/ReactPropTypesSecret');\n\n    nfunction emptyFunction() {\n    }\n\n    nfunction emptyFunctionWithReset()
{\n    }\n\n    nemptyFunctionWithReset.resetWarningCache = emptyFunction;\n\n    nmodule.exports = function() {\n    function
shim(props, propName, componentName, location, propFullName, secret) {\n    if (secret ===
ReactPropTypesSecret) {\n    // It is still safe when called from React.\n    return;\n    }\n    var err = new Error(\n
'Calling PropTypes validators directly is not supported by the `prop-types` package. ' +\n    'Use
PropTypes.checkPropTypes() to call them. ' +\n    'Read more at http://fb.me/use-check-prop-types'\n    );\n
err.name = 'Invariant Violation';\n    throw err;\n    };\n    shim.isRequired = shim;\n    function getShim() {\n    return
shim;\n    };\n    // Important!\n    // Keep this list in sync with production version in `./factoryWithTypeCheckers.js`.\n
var ReactPropTypes = {\n    array: shim,\n    bool: shim,\n    func: shim,\n    number: shim,\n    object: shim,\n
string: shim,\n    symbol: shim,\n\n    any: shim,\n    arrayOf: getShim,\n    element: shim,\n    elementType: shim,\n
instanceOf: getShim,\n    node: shim,\n    objectOf: getShim,\n    oneOf: getShim,\n    oneOfType: getShim,\n
shape: getShim,\n    exact: getShim,\n\n    checkPropTypes: emptyFunctionWithReset,\n    resetWarningCache:
emptyFunction\n    };\n\n    ReactPropTypes.PropTypes = ReactPropTypes;\n\n    return ReactPropTypes;\n    };\n\n    /**

```



```

hasBasename(path, prefix) ? path.substr(prefix.length) : path;\n\nfunction stripTrailingSlash(path) {\n  return
path.charAt(path.length - 1) === '/' ? path.slice(0, -1) : path;\n\nfunction parsePath(path) {\n  var pathname = path ||
'/';\n  var search = '';\n  var hash = '';\n  var hashIndex = pathname.indexOf('#');\n  if (hashIndex !== -1) {\n    hash
= pathname.substr(hashIndex);\n    pathname = pathname.substr(0, hashIndex);\n  }\n  var searchIndex =
pathname.indexOf('?');\n  if (searchIndex !== -1) {\n    search = pathname.substr(searchIndex);\n    pathname =
pathname.substr(0, searchIndex);\n  }\n  return {\n    pathname: pathname,\n    search: search === '?' ? '' : search,\n    hash: hash === '#' ? '' : hash\n  };\n\nfunction createPath(location) {\n  var pathname = location.pathname,\n  search = location.search,\n  hash = location.hash;\n  var path = pathname || '/';\n  if (search && search !== '?') path
+= search.charAt(0) === '?' ? search : '?' + search;\n  if (hash && hash !== '#') path += hash.charAt(0) === '#' ?
hash : '#' + hash;\n  return path;\n}\n\nfunction createLocation(path, state, key, currentLocation) {\n  var
location;\n  if (typeof path === 'string') {\n    // Two-arg form: push(path, state)\n    location = parsePath(path);\n    location.state = state;\n  } else {\n    // One-arg form: push(location)\n    location = _extends({}, path);\n    if
(location.pathname === undefined) location.pathname = '';\n    if (location.search) {\n      if
(location.search.charAt(0) !== '?') location.search = '?' + location.search;\n    } else {\n      location.search = '';\n    }\n    if (location.hash) {\n      if (location.hash.charAt(0) !== '#') location.hash = '#' + location.hash;\n    } else {\n      location.hash = '';\n    }\n    if (state !== undefined && location.state === undefined) location.state = state;\n  }\n  try {\n    location.pathname = decodeURI(location.pathname);\n  } catch (e) {\n    if (e instanceof URIError)
{\n      throw new URIError('Pathname "' + location.pathname + '" could not be decoded. ' + 'This is likely caused
by an invalid percent-encoding.');

```



```

negatives for Windows Phones: https://github.com/reactjs/react-router/issues/586\n */\n\nfunction supportsHistory()\n{\n  var ua = window.navigator.userAgent;\n  if ((ua.indexOf('Android 2.') !== -1 || ua.indexOf('Android 4.0') !== -1) && ua.indexOf('Mobile Safari') !== -1 && ua.indexOf('Chrome') === -1 && ua.indexOf('Windows Phone') === -1) return false;\n  return window.history && 'pushState' in window.history;\n}\n\n/**\n * Returns true if browser fires popstate on hash change.\n * IE10 and IE11 do not.\n */\n\nfunction supportsPopStateOnHashChange() {\n  return window.navigator.userAgent.indexOf('Trident') === -1;\n}\n\n/**\n * Returns false if using go(n) with hash history causes a full page reload.\n */\n\nfunction supportsGoWithoutReloadUsingHash() {\n  return window.navigator.userAgent.indexOf('Firefox') === -1;\n}\n\n/**\n * Returns true if a given popstate event is an extraneous WebKit event.\n * Accounts for the fact that Chrome on iOS fires real popstate events\n * containing undefined state when pressing the back button.\n */\n\nfunction isExtraneousPopstateEvent(event) {\n  event.state === undefined && navigator.userAgent.indexOf('CriOS') === -1;\n}\n\nvar PopStateEvent = 'popstate';\nvar HashChangeEvent = 'hashchange';\n\nfunction getHistoryState() {\n  try {\n    return window.history.state || {};\n  } catch (e) {\n    // IE 11 sometimes throws when accessing window.history.state\n    // See https://github.com/ReactTraining/history/pull/289\n    return {};\n  }\n}\n\n/**\n * Creates a history object that uses the HTML5 history API including\n * pushState, replaceState, and the popstate event.\n */\n\nfunction createBrowserHistory(props) {\n  if (props === void 0) {\n    props = {};\n  }\n  !canUseDOM ? process.env.NODE_ENV !== "production" ? invariant(false, 'Browser history needs a DOM') : invariant(false) : void 0;\n  var globalHistory = window.history;\n  var canUseHistory = supportsHistory();\n  var needsHashChangeListener = !supportsPopStateOnHashChange();\n  var _props = props, _props$forceRefresh = _props.forceRefresh, forceRefresh = _props$forceRefresh === void 0 ? false : _props$forceRefresh, _props$getUserConfirm = _props.getUserConfirmation, getUserConfirmation = _props$getUserConfirm === void 0 ? getConfirmation : _props$getUserConfirm, _props$keyLength = _props.keyLength, keyLength = _props$keyLength === void 0 ? 6 : _props$keyLength;\n  var basename = props.basename ? stripTrailingSlash(addLeadingSlash(props.basename)) : '';\n  function getDOMLocation(historyState) {\n    var _ref = historyState || {}, key = _ref.key, state = _ref.state;\n    var _window$location = window.location, pathname = _window$location.pathname, search = _window$location.search, hash = _window$location.hash;\n    var path = pathname + search + hash;\n    process.env.NODE_ENV !== "production" ? warning(!basename || hasBasename(path, basename), 'You are attempting to use a basename on a page whose URL path does not begin with the basename. Expected path \'' + path + '\" to begin with \'' + basename + '\'.') : void 0;\n    if (basename) path = stripBasename(path, basename);\n    return createLocation(path, state, key);\n  }\n  function createKey() {\n    return Math.random().toString(36).substr(2, keyLength);\n  }\n  var transitionManager = createTransitionManager();\n  function setState(nextState) {\n    _extends(history, nextState);\n    history.length = globalHistory.length;\n    transitionManager.notifyListeners(history.location, history.action);\n  }\n  function handlePopState(event) {\n    // Ignore extraneous popstate events in WebKit.\n    if (isExtraneousPopstateEvent(event)) return;\n    handlePop(getDOMLocation(event.state));\n  }\n  function handleHashChange() {\n    handlePop(getDOMLocation(getHistoryState()));\n  }\n  var forceNextPop = false;\n  function handlePop(location) {\n    if (forceNextPop) {\n      forceNextPop = false;\n      setState();\n    } else {\n      var action = 'POP';\n      transitionManager.confirmTransitionTo(location, action, getUserConfirmation, function (ok) {\n        if (ok) {\n          setState({\n            action: action,\n            location: location\n          });\n        } else {\n          revertPop(location);\n        }\n      });\n    }\n  }\n  function revertPop(fromLocation) {\n    var toLocation = history.location;\n    // TODO: We could probably make this more reliable by keeping a list of keys we've seen in sessionStorage.\n    // Instead, we just default to 0 for keys we don't know.\n    var toIndex = allKeys.indexOf(toLocation.key);\n    if (toIndex === -1) toIndex = 0;\n    var fromIndex = allKeys.indexOf(fromLocation.key);\n    if (fromIndex === -1) fromIndex = 0;\n    var delta = toIndex - fromIndex;\n    if (delta) {\n      forceNextPop = true;\n      go(delta);\n    }\n    var initialLocation = getDOMLocation(getHistoryState());\n    var allKeys = [initialLocation.key];\n    // Public interface\n    function createHref(location) {\n      return basename + createPath(location);\n    }\n    function push(path, state) {\n      process.env.NODE_ENV !== "production" ? warning(!(typeof path === 'object' && path.state !== undefined &&

```



```

state !== undefined), 'You should avoid providing a 2nd state argument to push when the 1st ' + 'argument is a
location-like object that already has state; it is ignored') : void 0;\n  var action = 'PUSH';\n  var location =
createLocation(path, state, createKey(), history.location);\n  transitionManager.confirmTransitionTo(location,
action, getUserConfirmation, function (ok) {\n    if (!ok) return;\n    var href = createHref(location);\n    var key
= location.key,\n    state = location.state;\n\n    if (canUseHistory) {\n      globalHistory.pushState({\nkey: key,\n    state: state\n    }, null, href);\n    if (forceRefresh) {\n      window.location.href = href;\n    } else {\n      var prevIndex = allKeys.indexOf(history.location.key);\n      var nextKeys = allKeys.slice(0,
prevIndex === -1 ? 0 : prevIndex + 1);\n      nextKeys.push(location.key);\n      allKeys = nextKeys;\n    }
setState({\n      action: action,\n      location: location\n    });\n  })\n} else {\n  process.env.NODE_ENV !== "production" ? warning(state === undefined, 'Browser history cannot push state in
browsers that do not support HTML5 history') : void 0;\n  window.location.href = href;\n})\n});\n}\n\nfunction replace(path, state) {\n  process.env.NODE_ENV !== "production" ? warning(!(typeof path === 'object'
&& path.state !== undefined && state !== undefined), 'You should avoid providing a 2nd state argument to replace
when the 1st ' + 'argument is a location-like object that already has state; it is ignored') : void 0;\n  var action =
'REPLACE';\n  var location = createLocation(path, state, createKey(), history.location);\n  transitionManager.confirmTransitionTo(location, action, getUserConfirmation, function (ok) {\n    if (!ok) return;\n    var href = createHref(location);\n    var key = location.key,\n    state = location.state;\n\n    if
(canUseHistory) {\n      globalHistory.replaceState({\n        key: key,\n        state: state\n      }, null, href);\n    if (forceRefresh) {\n      window.location.replace(href);\n    } else {\n      var prevIndex =
allKeys.indexOf(history.location.key);\n      if (prevIndex !== -1) allKeys[prevIndex] = location.key;\n    }
setState({\n      action: action,\n      location: location\n    });\n  })\n} else {\n  process.env.NODE_ENV !== "production" ? warning(state === undefined, 'Browser history cannot replace state in
browsers that do not support HTML5 history') : void 0;\n  window.location.replace(href);\n})\n});\n}\n\nfunction go(n) {\n  globalHistory.go(n);\n}\n\nfunction goBack() {\n  go(-1);\n}\n\nfunction goForward()
{\n  go(1);\n}\n\nvar listenerCount = 0;\nfunction checkDOMListeners(delta) {\n  listenerCount +=
delta;\n\n  if (listenerCount === 1 && delta === 1) {\n    window.addEventListener(PopStateEvent,
handlePopState);\n    if (needsHashChangeListener) window.addEventListener(HashChangeEvent,
handleHashChange);\n  } else if (listenerCount === 0) {\n    window.removeEventListener(PopStateEvent,
handlePopState);\n    if (needsHashChangeListener) window.removeEventListener(HashChangeEvent,
handleHashChange);\n  }\n}\n\nvar isBlocked = false;\nfunction block(prompt) {\n  if (prompt === void 0)
{\n    prompt = false;\n  }\n\n  var unblock = transitionManager.setPrompt(prompt);\n\n  if (!isBlocked) {\n    checkDOMListeners(1);\n    isBlocked = true;\n  }\n\n  return function () {\n    if (isBlocked) {\n      isBlocked
= false;\n      checkDOMListeners(-1);\n    }\n\n    return unblock();\n  };\n}\n\nfunction listen(listener) {\n
var unlisten = transitionManager.appendListener(listener);\n  checkDOMListeners(1);\n  return function () {\n    checkDOMListeners(-1);\n    unlisten();\n  };\n}\n\nvar history = {\n  length: globalHistory.length,\n  action:
'POP',\n  location: initialLocation,\n  createHref: createHref,\n  push: push,\n  replace: replace,\n  go: go,\n
goBack: goBack,\n  goForward: goForward,\n  block: block,\n  listen: listen\n};\n  return history;\n}\n\nvar
HashChangeEvent$1 = 'hashchange';\nvar HashPathCoders = {\n  hashbang: {\n    encodePath: function
encodePath(path) {\n      return path.charAt(0) === '!' ? path : '!' + stripLeadingSlash(path);\n    },\n    decodePath:
function decodePath(path) {\n      return path.charAt(0) === '!' ? path.substr(1) : path;\n    }\n  },\n  noslash: {\n
encodePath: stripLeadingSlash,\n  decodePath: addLeadingSlash\n},\n  slash: {\n    encodePath:
addLeadingSlash,\n    decodePath: addLeadingSlash\n}\n};\n\nfunction getHashPath() {\n  // We can't use
window.location.hash here because it's not\n  // consistent across browsers - Firefox will pre-decode it!\n  var href =
window.location.href;\n  var hashIndex = href.indexOf('#');\n  return hashIndex === -1 ? " :
href.substring(hashIndex + 1);\n}\n\nfunction pushHashPath(path) {\n  window.location.hash = path;\n}\n\nfunction
replaceHashPath(path) {\n  var hashIndex = window.location.href.indexOf('#');\n  window.location.replace(window.location.href.slice(0, hashIndex >= 0 ? hashIndex : 0) + '#' + path);\n}\n\nfunction
createHashHistory(props) {\n  if (props === void 0) {\n    props = {};\n  }\n\n  !canUseDOM ?

```



```

process.env.NODE_ENV !== "production" ? invariant(false, 'Hash history needs a DOM') : invariant(false) : void
0;\n var globalHistory = window.history;\n var canGoWithoutReload = supportsGoWithoutReloadUsingHash();\n
var _props = props,\n    _props$getUserConfirm = _props.getUserConfirmation,\n    getUserConfirmation =
    _props$getUserConfirm === void 0 ? getConfirmation : _props$getUserConfirm,\n    _props$hashType =
    _props.hashType,\n    hashType = _props$hashType === void 0 ? 'slash' : _props$hashType;\n var basename =
    props.basename ? stripTrailingSlash(addLeadingSlash(props.basename)) : '';\n var _HashPathCoders$hashT =
    HashPathCoders[hashType],\n    encodePath = _HashPathCoders$hashT.encodePath,\n    decodePath =
    _HashPathCoders$hashT.decodePath;\n\n function getDOMLocation() {\n    var path =
    decodePath(getHashPath());\n    process.env.NODE_ENV !== "production" ? warning(!basename ||
    hasBasename(path, basename), 'You are attempting to use a basename on a page whose URL path does not begin ' +
    'with the basename. Expected path \'' + path + '\' to begin with \'' + basename + '\'.') : void 0;\n    if (basename) path
    = stripBasename(path, basename);\n    return createLocation(path);\n  }\n\n var transitionManager =
    createTransitionManager();\n\n function setState(nextState) {\n    _extends(history, nextState);\n\n    history.length
    = globalHistory.length;\n    transitionManager.notifyListeners(history.location, history.action);\n  }\n\n var
    forceNextPop = false;\n    var ignorePath = null;\n\n function handleHashChange() {\n    var path = getHashPath();\n
    var encodedPath = encodePath(path);\n\n    if (path !== encodedPath) {\n        // Ensure we always have a properly-
    encoded hash.\n        replaceHashPath(encodedPath);\n    } else {\n        var location = getDOMLocation();\n        var
    prevLocation = history.location;\n        if (!forceNextPop && locationsAreEqual(prevLocation, location)) return; // A
    hashchange doesn't always == location change.\n\n        if (ignorePath === createPath(location)) return; // Ignore this
    change; we already setState in push/replace.\n\n        ignorePath = null;\n        handlePop(location);\n    }\n  }\n\n
function handlePop(location) {\n    if (forceNextPop) {\n        forceNextPop = false;\n        setState();\n    } else {\n
    var action = 'POP';\n    transitionManager.confirmTransitionTo(location, action, getUserConfirmation, function
    (ok) {\n        if (ok) {\n            setState({\n                action: action,\n                location: location\n            });\n        } else {\n
            revertPop(location);\n        }\n    });\n  }\n\n function revertPop(fromLocation) {\n    var toLocation =
    history.location; // TODO: We could probably make this more reliable by\n    // keeping a list of paths we've seen in
    sessionStorage.\n    // Instead, we just default to 0 for paths we don't know.\n\n    var toIndex =
    allPaths.lastIndexOf(createPath(toLocation));\n    if (toIndex === -1) toIndex = 0;\n    var fromIndex =
    allPaths.lastIndexOf(createPath(fromLocation));\n    if (fromIndex === -1) fromIndex = 0;\n    var delta = toIndex -
    fromIndex;\n\n    if (delta) {\n        forceNextPop = true;\n        go(delta);\n    }\n  } // Ensure the hash is encoded
    properly before doing anything else.\n\n    var path = getHashPath();\n    var encodedPath = encodePath(path);\n    if
    (path !== encodedPath) replaceHashPath(encodedPath);\n    var initialLocation = getDOMLocation();\n    var allPaths
    = [createPath(initialLocation)]; // Public interface\n\n    function createHref(location) {\n        return '#' +
    encodePath(basename + createPath(location));\n    }\n\n    function push(path, state) {\n        process.env.NODE_ENV
    !== "production" ? warning(state === undefined, 'Hash history cannot push state; it is ignored') : void 0;\n        var
    action = 'PUSH';\n        var location = createLocation(path, undefined, undefined, history.location);\n        transitionManager.confirmTransitionTo(location, action, getUserConfirmation, function (ok) {\n            if (!ok) return;\n\n            var path = createPath(location);\n            var encodedPath = encodePath(basename + path);\n            var hashChanged =
    getHashPath() !== encodedPath;\n\n            if (hashChanged) {\n                // We cannot tell if a hashchange was caused by a
    PUSH, so we'd\n                // rather setState here and ignore the hashchange. The caveat here\n                // is that other hash
    histories in the page will consider it a POP.\n                ignorePath = path;\n                pushHashPath(encodedPath);\n                var
    prevIndex = allPaths.lastIndexOf(createPath(history.location));\n                var nextPaths = allPaths.slice(0, prevIndex
    === -1 ? 0 : prevIndex + 1);\n                nextPaths.push(path);\n                allPaths = nextPaths;\n                setState({\n                    action:
    action,\n                    location: location\n                });\n            } else {\n                process.env.NODE_ENV !== "production" ?
    warning(false, 'Hash history cannot PUSH the same path; a new entry will not be added to the history stack') : void
    0;\n                setState();\n            }\n        });\n    }\n\n    function replace(path, state) {\n        process.env.NODE_ENV
    !== "production" ? warning(state === undefined, 'Hash history cannot replace state; it is ignored') : void 0;\n        var
    action = 'REPLACE';\n        var location = createLocation(path, undefined, undefined, history.location);\n        transitionManager.confirmTransitionTo(location, action, getUserConfirmation, function (ok) {\n            if (!ok) return;\n

```



```

    var path = createPath(location);\n    var encodedPath = encodePath(basename + path);\n    var hashChanged =
    getHashPath() !== encodedPath;\n\n    if (hashChanged) {\n        // We cannot tell if a hashchange was caused by a
    REPLACE, so we'd\n        // rather setState here and ignore the hashchange. The caveat here\n        // is that other
    hash histories in the page will consider it a POP.\n        ignorePath = path;\n        replaceHashPath(encodedPath);\n
    }\n\n    var prevIndex = allPaths.indexOf(createPath(history.location));\n    if (prevIndex !== -1)
    allPaths[prevIndex] = path;\n    setState({\n        action: action,\n        location: location\n    });\n    }\n\n    function go(n) {\n        process.env.NODE_ENV !== \"production\" ? warning(canGoWithoutReload, 'Hash history
    go(n) causes a full page reload in this browser') : void 0;\n        globalHistory.go(n);\n    }\n\n    function goBack() {\n
    go(-1);\n    }\n\n    function goForward() {\n        go(1);\n    }\n\n    var listenerCount = 0;\n\n    function
    checkDOMListeners(delta) {\n        listenerCount += delta;\n\n        if (listenerCount === 1 && delta === 1) {\n
        window.addEventListener(HashChangeEvent$1, handleHashChange);\n        } else if (listenerCount === 0) {\n
        window.removeEventListener(HashChangeEvent$1, handleHashChange);\n        }\n    }\n\n    var isBlocked = false;\n\n
    function block(prompt) {\n        if (prompt === void 0) {\n            prompt = false;\n        }\n\n        var unblock =
        transitionManager.setPrompt(prompt);\n\n        if (!isBlocked) {\n            checkDOMListeners(1);\n            isBlocked = true;\n
        }\n\n        return function () {\n            if (isBlocked) {\n                isBlocked = false;\n                checkDOMListeners(-1);\n
            }\n\n            return unblock();\n        };\n    }\n\n    function listen(listener) {\n        var unlisten =
        transitionManager.appendListener(listener);\n        checkDOMListeners(1);\n        return function () {\n
        checkDOMListeners(-1);\n            unlisten();\n        };\n    }\n\n    var history = {\n        length: globalHistory.length,\n        action:
    'POP',\n        location: initialLocation,\n        createHref: createHref,\n        push: push,\n        replace: replace,\n        go: go,\n
        goBack: goBack,\n        goForward: goForward,\n        block: block,\n        listen: listen\n    };\n    return
    history;\n}\n\nfunction clamp(n, lowerBound, upperBound) {\n    return Math.min(Math.max(n, lowerBound),
    upperBound);\n}\n\n/**\n * Creates a history object that stores locations in memory.\n */\n\nfunction
    createMemoryHistory(props) {\n    if (props === void 0) {\n        props = {};\n    }\n\n    var _props = props,\n
    getUserConfirmation = _props.getUserConfirmation,\n        _props$initialEntries = _props.initialEntries,\n
    initialEntries = _props$initialEntries === void 0 ? [] : _props$initialEntries,\n        _props$initialIndex =
    _props.initialIndex,\n        initialIndex = _props$initialIndex === void 0 ? 0 : _props$initialIndex,\n
    _props$keyLength = _props.keyLength,\n        keyLength = _props$keyLength === void 0 ? 6 : _props$keyLength;\n
    var transitionManager = createTransitionManager();\n\n    function setState(nextState) {\n        _extends(history,
    nextState);\n\n        history.length = history.entries.length;\n        transitionManager.notifyListeners(history.location,
    history.action);\n    }\n\n    function createKey() {\n        return Math.random().toString(36).substr(2, keyLength);\n    }\n\n
    var index = clamp(initialIndex, 0, initialEntries.length - 1);\n    var entries = initialEntries.map(function (entry) {\n
    return typeof entry === 'string' ? createLocation(entry, undefined, createKey()) : createLocation(entry, undefined,
    entry.key || createKey());\n    });\n\n    // Public interface\n    var createHref = createPath;\n\n    function push(path, state) {\n
        process.env.NODE_ENV !== \"production\" ? warning(!(typeof path === 'object' && path.state !== undefined
        && state !== undefined), 'You should avoid providing a 2nd state argument to push when the 1st ' + 'argument is a
        location-like object that already has state; it is ignored') : void 0;\n        var action = 'PUSH';\n        var location =
        createLocation(path, state, createKey(), history.location);\n        transitionManager.confirmTransitionTo(location,
        action, getUserConfirmation, function (ok) {\n            if (!ok) return;\n            var prevIndex = history.index;\n            var
        nextIndex = prevIndex + 1;\n            var nextEntries = history.entries.slice(0);\n\n            if (nextEntries.length > nextIndex)
        {\n                nextEntries.splice(nextIndex, nextEntries.length - nextIndex, location);\n            } else {\n
        nextEntries.push(location);\n            }\n\n            setState({\n                action: action,\n                location: location,\n                index:
        nextIndex,\n                entries: nextEntries\n            });\n        });\n    }\n\n    function replace(path, state) {\n
        process.env.NODE_ENV !== \"production\" ? warning(!(typeof path === 'object' && path.state !== undefined &&
        state !== undefined), 'You should avoid providing a 2nd state argument to replace when the 1st ' + 'argument is a
        location-like object that already has state; it is ignored') : void 0;\n        var action = 'REPLACE';\n        var location =
        createLocation(path, state, createKey(), history.location);\n        transitionManager.confirmTransitionTo(location,
        action, getUserConfirmation, function (ok) {\n            if (!ok) return;\n            history.entries[history.index] = location;\n
        setState({\n                action: action,\n                location: location\n            });\n        });\n    }\n\n    function go(n) {\n        var nextIndex =

```



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clamp(history.index + n, 0, history.entries.length - 1);\n  var action = 'POP';\n  var location =
history.entries[nextIndex];\n  transitionManager.confirmTransitionTo(location, action, getUserConfirmation,
function (ok) {\n    if (ok) {\n      setState({\n        action: action,\n        location: location,\n        index:
nextIndex\n      });\n    } else {\n      // Mimic the behavior of DOM histories by\n      // causing a render after a
cancelled POP.\n      setState();\n    }\n  });\n  }\n\n  function goBack() {\n    go(-1);\n  }\n\n  function
goForward() {\n    go(1);\n  }\n\n  function canGo(n) {\n    var nextIndex = history.index + n;\n    return nextIndex
>= 0 && nextIndex < history.entries.length;\n  }\n\n  function block(prompt) {\n    if (prompt === void 0) {\n
prompt = false;\n    }\n\n    return transitionManager.setPrompt(prompt);\n  }\n\n  function listen(listener) {\n
return transitionManager.addListener(listener);\n  }\n\n  var history = {\n    length: entries.length,\n    action:
'POP',\n    location: entries[index],\n    index: index,\n    entries: entries,\n    createHref: createHref,\n    push: push,\n
replace: replace,\n    go: go,\n    goBack: goBack,\n    goForward: goForward,\n    canGo: canGo,\n    block:
block,\n    listen: listen\n  };\n  return history;\n}\n\nexport { createBrowserHistory, createHashHistory,
createMemoryHistory, createLocation, locationsAreEqual, parsePath, createPath };\n","import React, { Component
} from 'react';\nimport _inheritsLoose from '@babel/runtime/helpers/esm/inheritsLoose';\nimport PropTypes from
'prop-types';\nimport warning from 'tiny-warning';\n\nvar MAX_SIGNED_31_BIT_INT = 1073741823;\n\nvar
commonjsGlobal = typeof globalThis !== 'undefined' ? globalThis : typeof window !== 'undefined' ? window :
typeof global !== 'undefined' ? global : {};\n\nfunction getUniqueId() {\n  var key = '__global_unique_id__';\n
return commonjsGlobal[key] = (commonjsGlobal[key] || 0) + 1;\n}\n\nfunction objectIs(x, y) {\n  if (x === y) {\n
return x !== 0 || 1 / x === 1 / y;\n  } else {\n    return x !== x && y !== y;\n  }\n}\n\nfunction
createEventEmitter(value) {\n  var handlers = [];\n  return {\n    on: function on(handler) {\n
handlers.push(handler);\n    },\n    off: function off(handler) {\n      handlers = handlers.filter(function (h) {\n
return h !== handler;\n    });\n    },\n    get: function get() {\n      return value;\n    },\n    set: function set(newValue,
changedBits) {\n      value = newValue;\n      handlers.forEach(function (handler) {\n        return handler(value,
changedBits);\n      });\n    }\n  };\n}\n\nfunction onlyChild(children) {\n  return Array.isArray(children) ?
children[0] : children;\n}\n\nfunction createReactContext(defaultValue, calculateChangedBits) {\n  var
_Provider$childContext, _Consumer$contextType;\n\n  var contextProp = '__create-react-context-' + getUniqueId()
+ '__';\n\n  var Provider = /*#__PURE__*/function (_Component) {\n    _inheritsLoose(Provider, _Component);\n\n    function Provider() {\n      var _this;\n\n      _this = _Component.apply(this, arguments) || this;\n      _this.emitter =
createEventEmitter(_this.props.value);\n      return _this;\n    }\n\n    var _proto = Provider.prototype;\n\n    _proto.getChildContext = function getChildContext() {\n      var _ref;\n\n      return _ref = {}, _ref[contextProp] =
this.emitter, _ref;\n    }\n\n    _proto.componentWillReceiveProps = function
componentWillReceiveProps(nextProps) {\n      if (this.props.value !== nextProps.value) {\n        var oldValue =
this.props.value;\n        var newValue = nextProps.value;\n        var changedBits;\n\n        if (objectIs(oldValue,
newValue)) {\n          changedBits = 0;\n        } else {\n          changedBits = typeof calculateChangedBits ===
'function' ? calculateChangedBits(oldValue, newValue) : MAX_SIGNED_31_BIT_INT;\n\n          if
(process.env.NODE_ENV !== 'production') {\n            warning((changedBits & MAX_SIGNED_31_BIT_INT)
=== changedBits, 'calculateChangedBits: Expected the return value to be a ' + '31-bit integer. Instead received: ' +
changedBits);\n          }\n\n          changedBits |= 0;\n\n          if (changedBits !== 0) {\n
this.emitter.set(nextProps.value, changedBits);\n          }\n        }\n      }\n\n      _proto.render = function
render() {\n        return this.props.children;\n      }\n\n      return Provider;\n    }(Component);\n\n    Provider.childContextTypes = (_Provider$childContext = {}, _Provider$childContext[contextProp] =
PropTypes.object.isRequired, _Provider$childContext);\n\n    var Consumer = /*#__PURE__*/function
(_Component2) {\n      _inheritsLoose(Consumer, _Component2);\n\n      function Consumer() {\n        var _this2;\n\n        _this2 = _Component2.apply(this, arguments) || this;\n        _this2.state = {\n          value: _this2.getValue()\n        };\n\n        _this2.onUpdate = function (newValue, changedBits) {\n          var observedBits = _this2.observedBits | 0;\n\n          if ((observedBits & changedBits) !== 0) {\n            _this2.setState({\n              value: _this2.getValue()\n            });\n          }\n        }\n\n        return _this2;\n      }\n\n      var _proto2 = Consumer.prototype;\n\n      _proto2.componentWillReceiveProps = function componentWillReceiveProps(nextProps) {\n        var observedBits =

```


[illegible]


```

match, not in the middle. This is important\n // in non-ending mode, where \"test/\" shouldn't match
\"test//route/\".\n if (!strict) {\n   route = (endsWithDelimiter ? route.slice(0, -delimiter.length) : route) + '(?:' +
delimiter + '(?=$))?' \n } \n\n if (end) {\n   route += '$' \n } else {\n   // In non-ending mode, we need the capturing
groups to match as much as\n   // possible by using a positive lookahead to the end or next path segment.\n   route
+= strict && endsWithDelimiter ? '' : '(?=' + delimiter + '$)' \n } \n\n return attachKeys(new RegExp('^' + route,
flags(options)), keys) \n } \n\n /** \n * Normalize the given path string, returning a regular expression. \n * \n * An
empty array can be passed in for the keys, which will hold the\n * placeholder key descriptions. For example, using
`/user/:id`, `keys` will\n * contain `{ name: 'id', delimiter: '/', optional: false, repeat: false }`. \n * \n * @param
{(string|RegExp|Array)} path \n * @param {(Array|Object)=} keys \n * @param {Object=} options \n *
@return {!RegExp} \n */ \n\n function pathToRegexp(path, keys, options) {\n   if (!isArray(keys)) {\n     options = /**
 * @type {!Object} */ (keys || options) \n     keys = [] \n   } \n\n   options = options || {} \n\n   if (path instanceof RegExp) {\n     return
regexpToRegexp(path, /** @type {!Array} */ (keys)) \n   } \n\n   if (isArray(path)) {\n     return
arrayToRegexp(/** @type {!Array} */ (path), /** @type {!Array} */ (keys), options) \n   } \n\n   return
stringToRegexp(/** @type {string} */ (path), /** @type {!Array} */ (keys), options) \n } \n\n module.exports =
Array.isArray || function(arr) {\n   return Object.prototype.toString.call(arr) === '[object Array]'; \n } \n\n \"export
default function _objectWithoutPropertiesLoose(source, excluded) {\n   if (source == null) return {} \n\n   var target =
{} \n\n   var sourceKeys = Object.keys(source); \n\n   var key, i; \n\n   for (i = 0; i < sourceKeys.length; i++) {\n     key =
sourceKeys[i]; \n\n     if (excluded.indexOf(key) >= 0) continue; \n\n     target[key] = source[key]; \n   } \n\n   return
target; \n }\", \"use strict\"; \n\n /** \n * Copyright 2015, Yahoo! Inc. \n * Copyrights licensed under the New BSD
License. See the accompanying LICENSE file for terms. \n */ \n\n var ReactIs = require('react-is'); \n\n REACT_STATICS = {\n   childContextTypes: true, \n   contextType: true, \n   contextTypes: true, \n   defaultProps: true, \n   displayName: true, \n   getDefaultProps: true, \n   getDerivedStateFromError: true, \n   getDerivedStateFromProps: true, \n   mixins: true, \n   propTypes: true, \n   type: true \n } \n\n var
KNOWN_STATICS = {\n   name: true, \n   length: true, \n   prototype: true, \n   caller: true, \n   callee: true, \n   arguments: true, \n   arity: true \n } \n\n var FORWARD_REF_STATICS = {\n   '$$typeof': true, \n   render: true, \n   defaultProps: true, \n   displayName: true, \n   propTypes: true \n } \n\n var MEMO_STATICS = {\n   '$$typeof':
true, \n   compare: true, \n   defaultProps: true, \n   displayName: true, \n   propTypes: true, \n   type: true \n } \n\n var
TYPE_STATICS = {} \n\n TYPE_STATICS[ReactIs.ForwardRef] = FORWARD_REF_STATICS \n\n function
getStatics(component) {\n   if (ReactIs.isMemo(component)) {\n     return MEMO_STATICS; \n   } \n\n   return
TYPE_STATICS[component['$$typeof']] || REACT_STATICS; \n } \n\n var defineProperty =
Object.defineProperty; \n\n var getOwnPropertyNames = Object.getOwnPropertyNames; \n\n var
getOwnPropertySymbols = Object.getOwnPropertySymbols; \n\n var getOwnPropertyDescriptor =
Object.getOwnPropertyDescriptor; \n\n var getPrototypeOf = Object.getPrototypeOf; \n\n var objectPrototype =
Object.prototype; \n\n function hoistNonReactStatics(targetComponent, sourceComponent, blacklist) {\n   if (typeof
sourceComponent !== 'string') {\n     // don't hoist over string (html) components \n\n     if (objectPrototype) {\n       var
inheritedComponent = getPrototypeOf(sourceComponent); \n\n       if (inheritedComponent &&
inheritedComponent !== objectPrototype) {\n         hoistNonReactStatics(targetComponent,
inheritedComponent, blacklist); \n       } \n\n       var keys =
getOwnPropertyNames(sourceComponent); \n\n       if (getOwnPropertySymbols) {\n         keys =
keys.concat(getOwnPropertySymbols(sourceComponent)); \n       } \n\n       var targetStatics =
getStatics(targetComponent); \n\n       var sourceStatics = getStatics(sourceComponent); \n\n       for (var i = 0; i <
keys.length; ++i) {\n         var key = keys[i]; \n\n         if (!KNOWN_STATICS[key] && !(blacklist &&
blacklist[key]) && !(sourceStatics && sourceStatics[key]) && !(targetStatics && targetStatics[key])) {\n           var
descriptor = getOwnPropertyDescriptor(sourceComponent, key); \n\n           try {\n             // Avoid failures
from read-only properties \n\n             defineProperty(targetComponent, key, descriptor); \n           } catch (e) {\n             \n           } \n\n           \n         } \n\n       } \n\n       return targetComponent; \n     } \n\n     return targetComponent; \n   } \n\n module.exports =
hoistNonReactStatics; \n\n \"import _inheritsLoose from '@babel/runtime/helpers/esm/inheritsLoose'; \n\n import React
from 'react'; \n\n import PropTypes from 'prop-types'; \n\n import { createMemoryHistory, createLocation,

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locationsAreEqual, createPath } from 'history';\nimport warning from 'tiny-warning';\nimport createContext from
'mini-create-react-context';\nimport invariant from 'tiny-invariant';\nimport _extends from
'@babel/runtime/helpers/esm/extends';\nimport pathToRegexp from 'path-to-regexp';\nimport { isValidElementType
} from 'react-is';\nimport _objectWithoutPropertiesLoose from
'@babel/runtime/helpers/esm/objectWithoutPropertiesLoose';\nimport hoistStatics from 'hoist-non-react-
statics';\n\n// TODO: Replace with React.createContext once we can assume React 16+\n\nvar createNamedContext
= function createNamedContext(name) {\n  var context = createContext();\n  context.displayName = name;\n  return
context;\n};\n\nvar historyContext = /*#__PURE__*/createNamedContext("Router-History");\n\nvar context =
/*#__PURE__*/createNamedContext("Router");\n\n/**\n * The public API for putting history on context.\n
*\n\nvar Router = /*#__PURE__*/function (_React$Component) {\n  _inheritsLoose(Router,
_React$Component);\n\n  Router.computeRootMatch = function computeRootMatch(pathname) {\n    return {\n
path: /^\n    url: /\n    params: {},\n    isExact: pathname === /\n    };;\n\n    function Router(props)
{\n      var _this;\n\n      _this = _React$Component.call(this, props) || this;\n      _this.state = {\n
location:
props.history.location\n    }; // This is a bit of a hack. We have to start listening for location\n
// changes here in
the constructor in case there are any <Redirect>s\n
// on the initial render. If there are, they will replace/push
when\n
// they mount and since cDM fires in children before parents, we may\n
// get a new location before the
<Router> is mounted.\n\n      _this._isMounted = false;\n      _this._pendingLocation = null;\n\n      if
(!props.staticContext) {\n        _this.unlisten = props.history.listen(function (location) {\n          if (_this._isMounted)
{\n            _this.setState({\n              location: location\n            });\n          } else {\n            _this._pendingLocation =
location;\n          }\n        });\n      }\n\n      return _this;\n    }\n\n    var _proto = Router.prototype;\n\n    _proto.componentDidMount = function componentDidMount() {\n      this._isMounted = true;\n\n      if
(this._pendingLocation) {\n        this.setState({\n          location: this._pendingLocation\n        });\n      }\n    };\n\n    _proto.componentWillUnmount = function componentWillUnmount() {\n      if (this.unlisten) {\n        this.unlisten();\n        this._isMounted = false;\n        this._pendingLocation = null;\n      }\n    };\n\n    _proto.render = function render() {\n      return /*#__PURE__*/React.createElement(context.Provider, {\n        value: {\n          history: this.props.history,\n
location: this.state.location,\n          match: Router.computeRootMatch(this.state.location.pathname),\n
staticContext: this.props.staticContext\n        }\n      }, /*#__PURE__*/React.createElement(historyContext.Provider,
{\n        children: this.props.children || null,\n        value: this.props.history\n      }));\n    }\n\n    return
Router;\n  }(React.Component);\n\n  if (process.env.NODE_ENV !== "production") {\n    Router.propTypes = {\n
children: PropTypes.node,\n    history: PropTypes.object.isRequired,\n    staticContext: PropTypes.object\n    };\n\n    Router.prototype.componentDidUpdate = function (prevProps) {\n      process.env.NODE_ENV !== "production" ?
warning(prevProps.history === this.props.history, "You cannot change <Router history>") : void 0;\n    };\n\n    /**\n
     * The public API for a <Router> that stores location in memory.\n
     *\n\n    var MemoryRouter =
/*#__PURE__*/function (_React$Component) {\n      _inheritsLoose(MemoryRouter, _React$Component);\n\n      function MemoryRouter() {\n        var _this;\n\n        for (var _len = arguments.length, args = new Array(_len), _key = 0;
_key < _len; _key++) {\n          args[_key] = arguments[_key];\n        }\n\n        _this =
_React$Component.call.apply(_React$Component, [this].concat(args)) || this;\n        _this.history =
createMemoryHistory(_this.props);\n        return _this;\n      }\n\n      var _proto = MemoryRouter.prototype;\n\n      _proto.render = function render() {\n        return /*#__PURE__*/React.createElement(Router, {\n          history:
this.history,\n          children: this.props.children\n        });\n      }\n\n      return MemoryRouter;\n    }(React.Component);\n\n    if
(process.env.NODE_ENV !== "production") {\n      MemoryRouter.propTypes = {\n        initialEntries:
PropTypes.array,\n        initialIndex: PropTypes.number,\n        getUserConfirmation: PropTypes.func,\n        keyLength:
PropTypes.number,\n        children: PropTypes.node\n      };\n\n      MemoryRouter.prototype.componentDidMount =
function () {\n        process.env.NODE_ENV !== "production" ? warning(!this.props.history, "<MemoryRouter>
ignores the history prop. To use a custom history, \" + \"use `import { Router }` instead of `import { MemoryRouter
as Router }`.") : void 0;\n      };\n\n      var Lifecycle = /*#__PURE__*/function (_React$Component) {\n        _inheritsLoose(Lifecycle, _React$Component);\n\n        function Lifecycle() {\n          return _React$Component.apply(this,
arguments) || this;\n        }\n\n        var _proto = Lifecycle.prototype;\n\n        _proto.componentDidMount = function

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componentDidMount() {\n  if (this.props.onMount) this.props.onMount.call(this, this);\n }\n\n _proto.componentDidUpdate = function componentDidUpdate(prevProps) {\n  if (this.props.onUpdate)\n    this.props.onUpdate.call(this, this, prevProps);\n }\n\n _proto.componentWillUnmount = function\n  componentWillUnmount() {\n    if (this.props.onUnmount) this.props.onUnmount.call(this, this);\n  }\n\n  _proto.render = function render() {\n    return null;\n  }\n\n  return Lifecycle;\n}(React.Component);\n\n/**\n * The public API for prompting the user before navigating away from a screen.\n */\nfunction Prompt(_ref) {\n  var\n    message = _ref.message,\n    _ref$when = _ref.when,\n    when = _ref$when === void 0 ? true : _ref$when;\n  return /*#__PURE__*/React.createElement(context.Consumer, null, function (context) {\n    !context ?\n      process.env.NODE_ENV !== "production" ? invariant(false, "You should not use <Prompt> outside a\n      <Router>") : invariant(false) : void 0;\n    if (!when || context.staticContext) return null;\n    var method =\n      context.history.block;\n    return /*#__PURE__*/React.createElement(Lifecycle, {\n      onMount: function\n        onMount(self) {\n          self.release = method(message);\n        },\n      onUpdate: function on\n        Update(self, prevProps)\n        {\n          if (prevProps.message !== message) {\n            self.release();\n            self.release = method(message);\n          }\n        },\n      onUnmount: function on\n        Unmount(self) {\n          self.release();\n        },\n      message: message\n    });\n  });\n\n  if (process.env.NODE_ENV !== "production") {\n    var messageType =\n      PropTypes.oneOfType([PropTypes.func, PropTypes.string]);\n    Prompt.propTypes = {\n      when: PropTypes.bool,\n      message: messageType.isRequired\n    };\n\n    var cache = {};\n    var cacheLimit = 10000;\n    var cacheCount =\n      0;\n\n    function compilePath(path) {\n      if (cache[path]) return cache[path];\n      var generator =\n        pathToRegexp.compile(path);\n      if (cacheCount < cacheLimit) {\n        cache[path] = generator;\n        cacheCount++;\n      }\n      return generator;\n    }\n\n    /**\n     * Public API for generating a URL pathname from a path and\n     * parameters.\n     */\n    function generatePath(path, params) {\n      if (path === void 0) {\n        path = "";\n      }\n      if\n        (params === void 0) {\n        params = {};\n      }\n      return path === "" ? path : compilePath(path)(params, {\n        pretty: true\n      });\n    }\n\n    /**\n     * The public API for navigating programmatically with a component.\n     */\n    function Redirect(_ref) {\n      var computedMatch = _ref.computedMatch,\n        to = _ref.to,\n        _ref$push = _ref.push,\n        push = _ref$push === void 0 ? false : _ref$push;\n      return /*#__PURE__*/React.createElement(context.Consumer,\n        null, function (context) {\n          !context ? process.env.NODE_ENV !== "production" ? invariant(false, "You should\n          not use <Redirect> outside a <Router>") : invariant(false) : void 0;\n          var history = context.history,\n            staticContext = context.staticContext;\n          var method = push ? history.push : history.replace;\n          var location =\n            createLocation(computedMatch ? typeof to === "string" ? generatePath(to, computedMatch.params) : _extends({},\n              to, {\n                pathname: generatePath(to.pathname, computedMatch.params)\n              }) : to); // When rendering in a static\n            context,\n            // set the new location immediately.\n            if (staticContext) {\n              method(location);\n              return null;\n            }\n            return /*#__PURE__*/React.createElement(Lifecycle, {\n              onMount: function on\n                Mount()\n                {\n                  method(location);\n                },\n              onUpdate: function on\n                Update(self, prevProps) {\n                  var prevLocation =\n                    createLocation(prevProps.to);\n                  if (!locationsAreEqual(prevLocation, _extends({}, location, {\n                    key:\n                      prevLocation.key\n                    }))) {\n                    method(location);\n                  }\n                  to: to\n                });\n            }\n            if\n              (process.env.NODE_ENV !== "production") {\n              Redirect.propTypes = {\n                push: PropTypes.bool,\n                from: PropTypes.string,\n                to: PropTypes.oneOfType([PropTypes.string, PropTypes.object]).isRequired\n              };\n\n              var cache$1 = {};\n              var cacheLimit$1 = 10000;\n              var cacheCount$1 = 0;\n\n              function compilePath$1(path, options) {\n                var cacheKey = "" + options.end + options.strict + options.sensitive;\n                var pathCache = cache$1[cacheKey] ||\n                  (cache$1[cacheKey] = {});\n                if (pathCache[path]) return pathCache[path];\n                var keys = [];\n                var regexp =\n                  pathToRegexp(path, keys, options);\n                var result = {\n                  regexp: regexp,\n                  keys: keys\n                };\n                if (cacheCount$1 <\n                  cacheLimit$1) {\n                  pathCache[path] = result;\n                  cacheCount$1++;\n                }\n                return result;\n              }\n\n              /**\n               * Public API\n               * for matching a URL pathname to a path.\n               */\n              function matchPath(pathname, options) {\n                if (options === void\n                  0) {\n                  options = {};\n                }\n                if (typeof options === "string" || Array.isArray(options)) {\n                  options = {\n                    path: options\n                  };\n                }\n                var _options = options,\n                  path = _options.path,\n                  _options$exact =\n                    _options.exact,\n                  exact = _options$exact === void 0 ? false : _options$exact,\n                  _options$strict =\n                    _options.strict,\n                  strict = _options$strict === void 0 ? false : _options$strict,\n                  _options$sensitive =\n                    _options.sensitive,\n                  sensitive = _options$sensitive === void 0 ? false : _options$sensitive;\n                var paths =

```



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[].concat(path);\n return paths.reduce(function (matched, path) {\n   if (!path && path !== \"\") return null;\n   if (matched) return matched;\n\n   var _compilePath = compilePath$1(path, {\n     end: exact,\n     strict: strict,\n     sensitive: sensitive\n   }),\n   regexp = _compilePath.regexp,\n   keys = _compilePath.keys;\n\n   var match = regexp.exec(pathname);\n   if (!match) return null;\n   var url = match[0],\n       values = match.slice(1);\n   var isExact = pathname === url;\n   if (exact && !isExact) return null;\n   return {\n     path: path,\n     // the path used to match\n     url: path === \"^\" && url === \"\" ? \"^\" : url,\n     // the matched portion of the URL\n     isExact: isExact,\n     // whether or not we matched exactly\n     params: keys.reduce(function (memo, key, index) {\n       memo[key.name] = values[index];\n       return memo;\n     }, {})\n   };\n }, null);\n\n\nfunction isEmptyChildren(children) {\n  return React.Children.count(children) === 0;\n}\n\nfunction evalChildrenDev(children, props, path) {\n  var value = children(props);\n  process.env.NODE_ENV !== \"production\" ? warning(value !== undefined, \"You returned `undefined` from the `children` function of \" + (<Route\" + (path ? \" path=\\\"\" + path + \"\\\" : \"\") + \">>, but you \" + \"should have returned a React element or `null`\")) : void 0;\n  return value || null;\n}\n\n/**\n * The public API for matching a single path and rendering.\n */\n\nvar Route = /*#__PURE__*/function (_React$Component) {\n  _inheritsLoose(Route, _React$Component);\n\n  function Route() {\n    return _React$Component.apply(this, arguments) || this;\n  }\n\n  var _proto = Route.prototype;\n\n  _proto.render = function render() {\n    var _this = this;\n\n    return /*#__PURE__*/React.createElement(context.Consumer, null, function (context$1) {\n      !context$1 ? process.env.NODE_ENV !== \"production\" ? invariant(false, \"You should not use <Route> outside a <Router>\") : invariant(false) : void 0;\n      var location = _this.props.location || context$1.location;\n      var match = _this.props.computedMatch ? _this.props.computedMatch // <Switch> already computed the match for us\n      : _this.props.path ? matchPath(location.pathname, _this.props) : context$1.match;\n      var props = _extends({}, context$1, {\n        location: location,\n        match: match\n      });\n      var _this$props = _this.props,\n          children = _this$props.children,\n          component = _this$props.component,\n          render = _this$props.render;\n      // Preact uses an empty array as children by default, so use null if that's the case.\n      if (Array.isArray(children) && isEmptyChildren(children)) {\n        children = null;\n      }\n      return /*#__PURE__*/React.createElement(context.Provider, {\n        value: props\n      }, props.match ? children ? typeof children === \"function\" ? process.env.NODE_ENV !== \"production\" ? evalChildrenDev(children, props, _this.props.path) : children(props) : children : component ? /*#__PURE__*/React.createElement(component, props) : render ? render(props) : null : typeof children === \"function\" ? process.env.NODE_ENV !== \"production\" ? evalChildrenDev(children, props, _this.props.path) : children(props) : null);\n    });\n  }\n\n  return Route;\n})(React.Component);\n\nif (process.env.NODE_ENV !== \"production\") {\n  Route.propTypes = {\n    children: PropTypes.oneOfType([PropTypes.func, PropTypes.node]),\n    component: function component(props, propName) {\n      if (props[propName] && !isValidElementType(props[propName])) {\n        return new Error(\"Invalid prop 'component' supplied to 'Route': the prop is not a valid React component\");\n      }\n    },\n    exact: PropTypes.bool,\n    location: PropTypes.object,\n    path: PropTypes.oneOfType([PropTypes.string, PropTypes.arrayOf(PropTypes.string)]),\n    render: PropTypes.func,\n    sensitive: PropTypes.bool,\n    strict: PropTypes.bool\n  };\n  Route.prototype.componentDidMount = function () {\n    process.env.NODE_ENV !== \"production\" ? warning(!(this.props.children && isEmptyChildren(this.props.children) && this.props.component), \"You should not use <Route component> and <Route children> in the same route; <Route component> will be ignored\") : void 0;\n    process.env.NODE_ENV !== \"production\" ? warning(!(this.props.children && isEmptyChildren(this.props.children) && this.props.render), \"You should not use <Route render> and <Route children> in the same route; <Route render> will be ignored\") : void 0;\n    process.env.NODE_ENV !== \"production\" ? warning(!(this.props.component && this.props.render), \"You should not use <Route component> and <Route render> in the same route; <Route render> will be ignored\") : void 0;\n  };\n  Route.prototype.componentDidUpdate = function (prevProps) {\n    process.env.NODE_ENV !== \"production\" ? warning(!(this.props.location && !prevProps.location), \"<Route> elements should not change from uncontrolled to controlled (or vice versa). You initially used no 'location' prop and then provided one on a subsequent render.\") : void 0;\n    process.env.NODE_ENV !== \"production\" ? warning(!(this.props.location &&

```



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use React.Children.forEach instead of React.Children.toArray().find()\n    // here because toArray adds keys to all
child elements and we do not want\n    // to trigger an unmount/remount for two <Route>s that render the same\n
// component at different URLs.\n\n    React.Children.forEach(_this.props.children, function (child) {\n        if
(match == null && /*#__PURE__*/React.isValidElement(child)) {\n            element = child;\n            var path =
child.props.path || child.props.from;\n            match = path ? matchPath(location.pathname, _extends({}, child.props,
{\n                path: path\n            })): context.match;\n        }\n    });\n    return match ?
/*#__PURE__*/React.cloneElement(element, {\n        location: location,\n        computedMatch: match\n    }) :
null;\n    });\n    });\n\n    return Switch;\n    }(React.Component);\n\n    if (process.env.NODE_ENV !== "production") {\n
Switch.propTypes = {\n    children: PropTypes.node,\n    location: PropTypes.object\n    };\n\n
Switch.prototype.componentDidUpdate = function (prevProps) {\n    process.env.NODE_ENV !== "production" ?
warning(!(this.props.location && !prevProps.location), '<Switch> elements should not change from uncontrolled to
controlled (or vice versa). You initially used no "location" prop and then provided one on a subsequent render.') :
void 0;\n    process.env.NODE_ENV !== "production" ? warning(!(this.props.location && prevProps.location),
'<Switch> elements should not change from controlled to uncontrolled (or vice versa). You provided a "location"
prop initially but omitted it on a subsequent render.') : void 0;\n    };\n    }\n\n    /**\n     * A public higher-order component
to access the imperative API\n     */\n\n    function withRouter(Component) {\n        var displayName = "withRouter(" +
(Component.displayName || Component.name) + ")";\n        var C = function C(props) {\n            var
wrappedComponentRef = props.wrappedComponentRef,\n                remainingProps =
_objectWithoutPropertiesLoose(props, ["wrappedComponentRef"]); \n            return
/*#__PURE__*/React.createElement(context.Consumer, null, function (context) {\n                !context ?
process.env.NODE_ENV !== "production" ? invariant(false, "You should not use <" + displayName + ">
outside a <Router>") : invariant(false) : void 0;\n                return /*#__PURE__*/React.createElement(Component,
_extends({}, remainingProps, context, {\n                    ref: wrappedComponentRef\n                }));\n            });\n        };\n        C.displayName = displayName;\n        C.WrappedComponent = Component;\n\n        if (process.env.NODE_ENV !==
"production") {\n            C.propTypes = {\n                wrappedComponentRef: PropTypes.oneOfType([PropTypes.string,
PropTypes.func, PropTypes.object])\n            };\n        }\n\n        return hoistStatics(C, Component);\n    }\n\n    var useContext =
React.useContext;\n\n    function useHistory() {\n        if (process.env.NODE_ENV !== "production") {\n            !(typeof
useContext === "function") ? process.env.NODE_ENV !== "production" ? invariant(false, "You must use React
>= 16.8 in order to use useHistory()") : invariant(false) : void 0;\n        }\n\n        return
useContext(historyContext);\n    }\n\n    function useLocation() {\n        if (process.env.NODE_ENV !== "production") {\n
            !(typeof useContext === "function") ? process.env.NODE_ENV !== "production" ? invariant(false, "You must
use React >= 16.8 in order to use useLocation()") : invariant(false) : void 0;\n        }\n\n        return
useContext(context).location;\n    }\n\n    function useParams() {\n        if (process.env.NODE_ENV !== "production") {\n
            !(typeof useContext === "function") ? process.env.NODE_ENV !== "production" ? invariant(false, "You must
use React >= 16.8 in order to use useParams()") : invariant(false) : void 0;\n        }\n\n        var match =
useContext(context).match;\n        return match ? match.params : {};\n    }\n\n    function useRouteMatch(path) {\n        if
(process.env.NODE_ENV !== "production") {\n            !(typeof useContext === "function") ?
process.env.NODE_ENV !== "production" ? invariant(false, "You must use React >= 16.8 in order to use
useRouteMatch()") : invariant(false) : void 0;\n        }\n\n        var location = useLocation();\n        var match =
useContext(context).match;\n        return path ? matchPath(location.pathname, path) : match;\n    }\n\n    if
(process.env.NODE_ENV !== "production") {\n        if (typeof window !== "undefined") {\n            var global =
window;\n            var key = "__react_router_build__";\n            var buildNames = {\n                cjs: "CommonJS",\n                esm: "ES
modules",\n                umd: "UMD"\n            };\n            if (global[key] && global[key] !== "esm") {\n                var
initialBuildName = buildNames[global[key]];\n                var secondaryBuildName = buildNames["esm"]; // TODO: Add
link to article that explains in detail how to avoid\n                // loading 2 different builds.\n                throw new Error("You
are loading the " + secondaryBuildName + " build of React Router " + ("on a page that is already running the " +
initialBuildName + " " + "build, so things won't work right.");\n            }\n            global[key] = "esm";\n        }\n    }\n\n    export { MemoryRouter, Prompt, Redirect, Route, Router, StaticRouter, Switch, historyContext as

```



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__HistoryContext, context as __RouterContext, generatePath, matchPath, useHistory, useLocation, useParams,
useRouteMatch, withRouter };\n\n// sourceMappingURL=react-router.js.map\n", "import { createLocation } from\n\"history\";\n\nexport const resolveToLocation = (to, currentLocation) => {\n  typeof to === \"function\" ?\nto(currentLocation) : to;\n\nexport const normalizeToLocation = (to, currentLocation) => {\n  return typeof to ===\n\"string\" ?\n  ? createLocation(to, null, null, currentLocation)\n  : to;\n};\n\nimport React from \"react\";\nimport {\n__RouterContext as RouterContext } from \"react-router\";\nimport { createPath } from \"history\";\nimport\nPropTypes from \"prop-types\";\nimport invariant from \"tiny-invariant\";\nimport {\n  resolveToLocation,\n  normalizeToLocation\n} from \"./utils/locationUtils.js\";\n\n// React 15 compat\nconst forwardRefShim = C =>\nC;\nlet { forwardRef } = React;\nif (typeof forwardRef === \"undefined\") {\n  forwardRef =\nforwardRefShim;\n}\n\nfunction isModifiedEvent(event) {\n  return !(event.metaKey || event.altKey ||\nevent.ctrlKey || event.shiftKey);\n}\n\nconst LinkAnchor = forwardRef((\n  (\n    {\n      innerRef, // TODO:\ndepricate\n      navigate,\n      onClick,\n      ...rest\n    },\n    forwardedRef\n  ) => {\n    const { target } = rest;\n\n    let props = {\n      ...rest,\n      onClick: event => {\n        try {\n          if (onClick) onClick(event);\n        } catch (ex) {\n          event.preventDefault();\n          throw ex;\n        }\n        if (!event.defaultPrevented && //\nonClick prevented default\n          event.button === 0 && // ignore everything but left clicks\n            (!target || target\n              === \"_self\") && // let browser handle \"target=_blank\" etc.\n              !isModifiedEvent(event) // ignore clicks with\nmodifier keys\n            ) {\n              event.preventDefault();\n              navigate();\n            }\n          }\n        }\n      }\n    } // React 15\n    compat\n    if (forwardRefShim !== forwardRef) {\n      props.ref = forwardedRef || innerRef;\n    } else {\n      props.ref = innerRef;\n    }\n    /* eslint-disable-next-line jsx-a11y/anchor-has-content */\n    return <a { ...props }>\n/>;\n  }\n);\n\nif (__DEV__) {\n  LinkAnchor.displayName = \"LinkAnchor\";\n}\n\n/**\n * The public API for\nrendering a history-aware <a>.\n */\nconst Link = forwardRef((\n  (\n    {\n      component = LinkAnchor,\n      replace,\n      to,\n      innerRef, // TODO: depricate\n      ...rest\n    },\n    forwardedRef\n  ) => {\n    return (\n      <RouterContext.Consumer>\n        {\n          context => {\n            invariant(context, \"You should not use <Link> outside a\n<Router>\");\n\n            const { history } = context;\n\n            const location = normalizeToLocation(\n              resolveToLocation(to, context.location),\n              context.location\n            );\n\n            const href = location ?\nhistory.createHref(location) : \"\";\n\n            const props = {\n              ...rest,\n              href,\n              navigate() {\n                const location = resolveToLocation(to, context.location);\n                const isDuplicateNavigation =\ncreatePath(context.location) === createPath(normalizeToLocation(location));\n                const method = (replace ||\nisDuplicateNavigation) ? history.replace : history.push;\n\n                method(location);\n              }\n            };\n\n            // React 15 compat\n            if (forwardRefShim !== forwardRef) {\n              props.ref = forwardedRef || innerRef;\n            } else {\n              props.innerRef = innerRef;\n            }\n\n            return React.createElement(component, props);\n          }\n        }\n      </RouterContext.Consumer>\n    );\n  }\n);\n\nif (__DEV__) {\n  const toType =\nPropTypes.oneOfType([\n    PropTypes.string,\n    PropTypes.object,\n    PropTypes.func\n  ]);\n  const refType =\nPropTypes.oneOfType([\n    PropTypes.string,\n    PropTypes.func,\n    PropTypes.shape({\n      current: PropTypes.any\n    })\n  ]);\n\n  Link.displayName = \"Link\";\n  Link.propTypes = {\n    innerRef: refType,\n    onClick:\nPropTypes.func,\n    replace: PropTypes.bool,\n    target: PropTypes.string,\n    to: toType.isRequired\n  };\n\nexport default Link;\n\nimport React from \"react\";\nimport { Router } from \"react-router\";\nimport {\n  createBrowserHistory as createHistory } from \"history\";\nimport PropTypes from \"prop-types\";\nimport warning\nfrom \"tiny-warning\";\n\n/**\n * The public API for a <Router> that uses HTML5 history.\n */\n\nclass\nBrowserRouter extends React.Component {\n  history = createHistory(this.props);\n\n  render() {\n    return <Router\nhistory={this.history} children={this.props.children}>;\n  }\n\n  if (__DEV__) {\n    BrowserRouter.propTypes =\n{\n      basename: PropTypes.string,\n      children: PropTypes.node,\n      forceRefresh: PropTypes.bool,\n      getUserConfirmation: PropTypes.func,\n      keyLength: PropTypes.number\n    };\n\n    BrowserRouter.prototype.componentDidMount = function() {\n      warning(!this.props.history,\n\n\"<BrowserRouter> ignores the history prop. To use a custom history, \" +\n\n      \"use `import { Router }` instead of\n`import { BrowserRouter as Router }`.\"\n    );\n  }\n\n  export default BrowserRouter;\n\nimport React from\n\"react\";\nimport { Router } from \"react-router\";\nimport {\n  createHashHistory as createHistory } from\n\"history\";\nimport PropTypes from \"prop-types\";\nimport warning from \"tiny-warning\";\n\n/**\n * The public

```


\$\$2", "_extends", "target", "arguments", "length", "source", "key", "apply", "this", "isAbsolute", "pathname", "charAt", "spliceOne", "list", "index", "pop", "_typeof", "iterator", "obj", "prefix", "invariant", "condition", "addLeadingSlash", "path", "stripLeadingSlash", "substr", "stripBasename", "RegExp", "test", "hasBasename", "stripTrailingSlash", "slice", "createPath", "search", "hash", "createLocation", "state", "currentLocation", "hashIndex", "indexOf", "searchIndex", "parsePath", "undefined", "decodeURI", "URIError", "to", "from", "toParts", "fromParts", "isToAbs", "isFromAbs", "mustEndAbs", "concat", "hasTrailingSlash", "last", "up", "part", "unshift", "result", "resolvePathname", "locationsAreEqual", "valueEqual", "Array", "isArray", "every", "item", "aType", "aValue", "valueOf", "bValue", "aKeys", "bKeys", "createTransitionManager", "prompt", "listeners", "setPrompt", "nextPrompt", "confirmTransitionTo", "action", "getUserConfirmation", "callback", "appendListener", "fn", 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Found in path(s):

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subClass.prototype = Object.create(superClass.prototype);\n subClass.prototype.constructor = subClass;\n
setPrototypeOf(subClass, superClass);\n } , /** @license React v16.9.0\n * react-is.production.min.js\n *\n
Copyright (c) Facebook, Inc. and its affiliates.\n *\n * This source code is licensed under the MIT license found in
the\n * LICENSE file in the root directory of this source tree.\n */\n'use strict';\nObject.defineProperty(exports, '__esModule', { value: !0 });\nvar b = \"function\" === typeof
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nc_mode\\'):60111,m=b?Symbol.for(\\'react.concurrent_mode\\'):60111,n=b?Symbol.for(\\'react.forward_ref\\'):6011
2,p=b?Symbol.for(\\'react.suspense\\'):60113,q=b?Symbol.for(\\'react.suspense_list\\'):\n60120,r=b?Symbol.for(\\'rea
ct.memo\\'):60115,t=b?Symbol.for(\\'react.lazy\\'):60116,v=b?Symbol.for(\\'react.fundamental\\'):60117,w=b?Symbo
l.for(\\'react.responder\\'):60118,function x(a){if(\\'object\\'===typeof a&&!a){var
u=a.$$typeof;switch(u){case c:switch(a=a.type,a){case l:case m:case e:case g:case f:case p:return
a;default:switch(a=a&&a.$$typeof,a){case k:case n:case h:return a;default:return u}}case t:case r:case d:return
u}}}function y(a){return
x(a)===m}exports.typeOf=x,exports.AsyncMode=l;\nexports.ConcurrentMode=m,exports.ContextConsumer=k;exp
orts.ContextProvider=h,exports.Element=c,exports.ForwardRef=n,exports.Fragment=e,exports.Lazy=t,exports.Me
mo=r,exports.Portal=d,exports.Profiler=g,exports.StrictMode=f,exports.Suspense=p;\nexports.isValidElementType
=function(a){return \"string\"===typeof a||\"function\"===typeof
a||a===e||a===m||a===g||a===f||a===p||a===q||\"object\"===typeof
a&&!a&&(a.$$typeof===t||a.$$typeof===r||a.$$typeof===h||a.$$typeof===k||a.$$typeof===n||a.$$typeof===v||a.$$typeof===w)};exports.isAsyncMode=function(a){return
y(a)||x(a)===l};exports.isConcurrentMode=y,exports.isContextConsumer=function(a){return
x(a)===k};exports.isContextProvider=function(a){return
x(a)===h};\nexports.isElement=function(a){return \"object\"===typeof
a&&!a&&a.$$typeof===c};exports.isForwardRef=function(a){return
x(a)===n};exports.isFragment=function(a){return x(a)===e};exports.isLazy=function(a){return
x(a)===t};exports.isMemo=function(a){return x(a)===r};exports.isPortal=function(a){return
x(a)===d};exports.isProfiler=function(a){return x(a)===g};exports.isStrictMode=function(a){return
x(a)===f};exports.isSuspense=function(a){return x(a)===p};\n,\"/** @license React v16.9.0\n * react-
is.development.js\n *\n * Copyright (c) Facebook, Inc. and its affiliates.\n *\n * This source code is licensed under
the MIT license found in the\n * LICENSE file in the root directory of this source tree.\n */\n\n'use strict';\n\nObject.defineProperty(exports, '__esModule', { value: true });\n\n// The Symbol used to tag the ReactDOM-like types. If there is no native
Symbol nor polyfill, then a plain number is used for performance.\nvar hasSymbol = typeof Symbol ===
'function' && Symbol.for;\n\nvar REACT_ELEMENT_TYPE = hasSymbol ? Symbol.for('react.element') :
0xeac7;\nvar REACT_PORTAL_TYPE = hasSymbol ? Symbol.for('react.portal') : 0xeaca;\nvar
REACT_FRAGMENT_TYPE = hasSymbol ? Symbol.for('react.fragment') : 0xeacb;\nvar
REACT_STRICT_MODE_TYPE = hasSymbol ? Symbol.for('react.strict_mode') : 0xeacc;\nvar
REACT_PROFILER_TYPE = hasSymbol ? Symbol.for('react.profiler') : 0xead2;\nvar REACT_PROVIDER_TYPE
= hasSymbol ? Symbol.for('react.provider') : 0xeacd;\nvar REACT_CONTEXT_TYPE = hasSymbol ?
Symbol.for('react.context') : 0xeace;\n\n// TODO: We don't use AsyncMode or ConcurrentMode anymore. They were
temporary\n// (unstable) APIs that have been removed. Can we remove the symbols?\nvar
REACT_ASYNC_MODE_TYPE = hasSymbol ? Symbol.for('react.async_mode') : 0xeacf;\nvar
REACT_CONCURRENT_MODE_TYPE = hasSymbol ? Symbol.for('react.concurrent_mode') : 0xeacf;\nvar
REACT_FORWARD_REF_TYPE = hasSymbol ? Symbol.for('react.forward_ref') : 0xeado;\nvar
REACT_SUSPENSE_TYPE = hasSymbol ? Symbol.for('react.suspense') : 0xeadi;\nvar
REACT_SUSPENSE_LIST_TYPE = hasSymbol ? Symbol.for('react.suspense_list') : 0xeadd;\nvar

```



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REACT_MEMO_TYPE = hasSymbol ? Symbol.for('react.memo') : 0xead3;\nvar REACT_LAZY_TYPE =
hasSymbol ? Symbol.for('react.lazy') : 0xead4;\nvar REACT_FUNDAMENTAL_TYPE = hasSymbol ?
Symbol.for('react.fundamental') : 0xead5;\nvar REACT_RESPONDER_TYPE = hasSymbol ?
Symbol.for('react.responder') : 0xead6;\n\nfunction isValidElementType(type) {\n  return typeof type === 'string' ||
typeof type === 'function' ||\n  // Note: its typeof might be other than 'symbol' or 'number' if it's a polyfill.\n  type === REACT_FRAGMENT_TYPE || type === REACT_CONCURRENT_MODE_TYPE || type ===
REACT_PROFILER_TYPE || type === REACT_STRICT_MODE_TYPE || type === REACT_SUSPENSE_TYPE
|| type === REACT_SUSPENSE_LIST_TYPE || typeof type === 'object' && type !== null && (type.$$typeof ===
REACT_LAZY_TYPE || type.$$typeof === REACT_MEMO_TYPE || type.$$typeof ===
REACT_PROVIDER_TYPE || type.$$typeof === REACT_CONTEXT_TYPE || type.$$typeof ===
REACT_FORWARD_REF_TYPE || type.$$typeof === REACT_FUNDAMENTAL_TYPE || type.$$typeof ===
REACT_RESPONDER_TYPE);\n}\n\n/**\n * Forked from fbjs/warning:\n *
https://github.com/facebook/fbjs/blob/e66ba20ad5be433eb54423f2b097d829324d9de6/packages/fbjs/src/__forks__/
warning.js\n * Only change is we use console.warn instead of console.error,\n * and do nothing when 'console' is
not supported.\n * This really simplifies the code.\n * ---\n * Similar to invariant but only logs a warning if the
condition is not met.\n * This can be used to log issues in development environments in critical\n * paths. Removing
the logging code for production environments will keep the\n * same logic and follow the same code paths.\n
*\n\nvar lowPriorityWarning = function () {};\n\n{\n  var printWarning = function (format) {\n    for (var _len =
arguments.length, args = Array(_len > 1 ? _len - 1 : 0), _key = 1; _key < _len; _key++) {\n      args[_key - 1] =
arguments[_key];\n    }\n    var argIndex = 0;\n    var message = 'Warning: ' + format.replace(/%s/g, function () {\n
      return args[argIndex++];\n    });\n    if (typeof console !== 'undefined') {\n      console.warn(message);\n    }\n    try {\n      // --- Welcome to debugging React ---\n      // This error was thrown as a convenience so that you can use
this stack\n      // to find the callsite that caused this warning to fire.\n      throw new Error(message);\n    } catch (x) {\n    }\n  };\n\n  lowPriorityWarning = function (condition, format) {\n    if (format === undefined) {\n      throw new
Error("`lowPriorityWarning(condition, format, ...args)` requires a warning ' + 'message argument');\n    }\n    if
(!condition) {\n      for (var _len2 = arguments.length, args = Array(_len2 > 2 ? _len2 - 2 : 0), _key2 = 2; _key2 <
_len2; _key2++) {\n        args[_key2 - 2] = arguments[_key2];\n      }\n      printWarning.apply(undefined,
[format].concat(args));\n    }\n  };\n\n  lowPriorityWarning$1 = lowPriorityWarning;\n\n  function
typeOf(object) {\n    if (typeof object === 'object' && object !== null) {\n      var $$typeof = object.$$typeof;\n
      switch ($$typeof) {\n        case REACT_ELEMENT_TYPE:\n          var type = object.type;\n          switch (type) {\n
            case REACT_ASYNC_MODE_TYPE:\n            case REACT_CONCURRENT_MODE_TYPE:\n            case
REACT_FRAGMENT_TYPE:\n            case REACT_PROFILER_TYPE:\n            case
REACT_STRICT_MODE_TYPE:\n            case REACT_SUSPENSE_TYPE:\n              return type;\n            default:\n              var $$typeofType = type && type.$$typeof;\n              switch ($$typeofType) {\n                case
REACT_CONTEXT_TYPE:\n                case REACT_FORWARD_REF_TYPE:\n                case
REACT_PROVIDER_TYPE:\n                  return $$typeofType;\n                default:\n                  return $$typeof;\n              }\n            case REACT_LAZY_TYPE:\n            case REACT_MEMO_TYPE:\n            case
REACT_PORTAL_TYPE:\n              return $$typeof;\n            }\n          }\n          return undefined;\n        }\n      }\n\n      // AsyncMode is
deprecated along with isAsyncMode\n      var AsyncMode = REACT_ASYNC_MODE_TYPE;\n      var ConcurrentMode =
REACT_CONCURRENT_MODE_TYPE;\n      var ContextConsumer = REACT_CONTEXT_TYPE;\n      var
ContextProvider = REACT_PROVIDER_TYPE;\n      var Element = REACT_ELEMENT_TYPE;\n      var ForwardRef =
REACT_FORWARD_REF_TYPE;\n      var Fragment = REACT_FRAGMENT_TYPE;\n      var Lazy =
REACT_LAZY_TYPE;\n      var Memo = REACT_MEMO_TYPE;\n      var Portal = REACT_PORTAL_TYPE;\n      var
Profiler = REACT_PROFILER_TYPE;\n      var StrictMode = REACT_STRICT_MODE_TYPE;\n      var Suspense =
REACT_SUSPENSE_TYPE;\n\n      var hasWarnedAboutDeprecatedIsAsyncMode = false;\n\n      // AsyncMode should be
deprecated\n      function isAsyncMode(object) {\n        if (!hasWarnedAboutDeprecatedIsAsyncMode) {\n
          hasWarnedAboutDeprecatedIsAsyncMode = true;\n          lowPriorityWarning$1(false, 'The React.isAsyncMode()
alias has been deprecated, ' + 'and will be removed in React 17+. Update your code to use ' +

```



```

Inc.\n *\n * This source code is licensed under the MIT license found in the\n * LICENSE file in the root directory
of this source tree.\n *\n\n'use strict';\n\nvar ReactPropTypesSecret =
'SECRET_DO_NOT_PASS_THIS_OR_YOU_WILL_BE_FIRED';\n\nmodule.exports =
ReactPropTypesSecret;\n", "/*\n * Copyright (c) 2013-present, Facebook, Inc.\n *\n * This source code is licensed
under the MIT license found in the\n * LICENSE file in the root directory of this source tree.\n *\n\n'use
strict';\n\nvar printWarning = function() {};\n\nif (process.env.NODE_ENV !== 'production') {\n  var
ReactPropTypesSecret = require('./lib/ReactPropTypesSecret');\n  var loggedTypeFailures = {};\n  var has =
Function.call.bind(Object.prototype.hasOwnProperty);\n\n  printWarning = function(text) {\n    var message =
'Warning: ' + text;\n    if (typeof console !== 'undefined') {\n      console.error(message);\n    }\n    try {\n      // ---
Welcome to debugging React ---\n      // This error was thrown as a convenience so that you can use this stack\n      //
to find the callsite that caused this warning to fire.\n      throw new Error(message);\n    } catch (x) {};\n
  };\n}\n\n/*\n * Assert that the values match with the type specs.\n * Error messages are memorized and will only
be shown once.\n *\n * @param {object} typeSpecs Map of name to a ReactPropType\n * @param {object} values
Runtime values that need to be type-checked\n * @param {string} location e.g. 'prop', 'context', 'child
context'\n * @param {string} componentName Name of the component for error messages.\n * @param
{?Function} getStack Returns the component stack.\n * @private\n */\n\nfunction checkPropTypes(typeSpecs, values,
location, componentName, getStack) {\n  if (process.env.NODE_ENV !== 'production') {\n    for (var
typeSpecName in typeSpecs) {\n      if (has(typeSpecs, typeSpecName)) {\n        var error;\n        // Prop type
validation may throw. In case they do, we don't want to\n        // fail the render phase where it didn't fail before. So
we log it.\n        // After these have been cleaned up, we'll let them throw.\n        try {\n          // This is intentionally
an invariant that gets caught. It's the same\n          // behavior as without this statement except with a better
message.\n          if (typeof typeSpecs[typeSpecName] !== 'function') {\n            var err = Error(\n
(componentName || 'React class') + ': ' + location + ' type ' + typeSpecName + ' is invalid; ' +\n            'it must be a
function, usually from the `prop-types` package, but received ` ' + typeof typeSpecs[typeSpecName] + `.`\n
);\n            err.name = 'Invariant Violation';\n            throw err;\n          }\n          error =
typeSpecs[typeSpecName](values, typeSpecName, componentName, location, null, ReactPropTypesSecret);\n
        } catch (ex) {\n          error = ex;\n        }\n        if (error && !(error instanceof Error)) {\n          printWarning(\n
(componentName || 'React class') + ': type specification of ' +\n          location + ' ' + typeSpecName + ' is
invalid; the type checker ' +\n          'function must return `null` or an `Error` but returned a ' + typeof error + ' ' +\n
          'You may have forgotten to pass an argument to the type checker ' +\n          'creator (arrayOf, instanceOf,
objectOf, oneOf, oneOfType, and ' +\n          'shape all require an argument).'\n        );\n      }\n      if (error
instanceof Error && !(error.message in loggedTypeFailures)) {\n        // Only monitor this failure once because
there tends to be a lot of the\n        // same error.\n        loggedTypeFailures[error.message] = true;\n\n        var
stack = getStack ? getStack() : '';\n        printWarning(\n          'Failed ' + location + ' type: ' + error.message +
(stack !== null ? stack : '')\n        );\n      }\n    }\n  }\n}\n\n/*\n * Resets warning cache when testing.\n *\n *
@private\n */\n\ncheckPropTypes.resetWarningCache = function() {\n  if (process.env.NODE_ENV !==
'production') {\n    loggedTypeFailures = {};\n  }\n}\n\nmodule.exports = checkPropTypes;\n", "/*\n * Copyright
(c) 2013-present, Facebook, Inc.\n *\n * This source code is licensed under the MIT license found in the\n *
LICENSE file in the root directory of this source tree.\n *\n\n'use strict';\n\nvar ReactIs = require('react-is');\nvar
assign = require('object-assign');\n\nvar ReactPropTypesSecret = require('./lib/ReactPropTypesSecret');\nvar
checkPropTypes = require('./checkPropTypes');\n\nvar has =
Function.call.bind(Object.prototype.hasOwnProperty);\n\nvar printWarning = function() {};\n\nif (process.env.NODE_ENV
!== 'production') {\n  printWarning = function(text) {\n    var message = 'Warning: ' +
text;\n    if (typeof console !== 'undefined') {\n      console.error(message);\n    }\n    try {\n      // --- Welcome to
debugging React ---\n      // This error was thrown as a convenience so that you can use this stack\n      // to find the
callsite that caused this warning to fire.\n      throw new Error(message);\n    } catch (x) {};\n  };\n}\n\nfunction
emptyFunctionThatReturnsNull() {\n  return null;\n}\n\nmodule.exports = function(isValidElement,
throwOnDirectAccess) {\n  /* global Symbol\n  *\n  var ITERATOR_SYMBOL = typeof Symbol === 'function' &&

```



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Symbol.iterator;\n var FAUX_ITERATOR_SYMBOL = '@@iterator'; // Before Symbol spec.\n\n /**\n * Returns
the iterator method function contained on the iterable object.\n *\n * Be sure to invoke the function with the
iterable as context:\n *\n * var iteratorFn = getIteratorFn(myIterable);\n * if (iteratorFn) {\n * var
iterator = iteratorFn.call(myIterable);\n * ... \n * }\n *\n * @param {?object} maybeIterable\n * @return
{?function}\n */\n function getIteratorFn(maybeIterable) {\n var iteratorFn = maybeIterable &&
(ITERATOR_SYMBOL && maybeIterable[ITERATOR_SYMBOL]) ||
maybeIterable[FAUX_ITERATOR_SYMBOL];\n if (typeof iteratorFn === 'function') {\n return iteratorFn;\n
}\n }\n\n /**\n * Collection of methods that allow declaration and validation of props that are\n * supplied to
React components. Example usage:\n *\n * var Props = require('ReactPropTypes');\n * var MyArticle =
React.createClass({\n * propTypes: {\n * // An optional string prop named "description".\n *
description: Props.string,\n * \n * // A required enum prop named "category".\n * category:
Props.oneOf(['News', 'Photos']).isRequired,\n * \n * // A prop named "dialog" that requires an instance of
Dialog.\n * dialog: Props.instanceOf(Dialog).isRequired\n * },\n * render: function() { ... }\n * });\n
*\n * A more formal specification of how these methods are used:\n *\n * type :=
array|bool|func|object|number|string|oneOf([...])|instanceOf(...)\n * decl :=
ReactPropTypes.{type}(.isRequired)?\n *\n * Each and every declaration produces a function with the same
signature. This\n * allows the creation of custom validation functions. For example:\n *\n * var MyLink =
React.createClass({\n * propTypes: {\n * // An optional string or URI prop named "href".\n * href:
function(props, propName, componentName) {\n * var propValue = props[propName];\n * if (propValue
!= null && typeof propValue !== 'string' &&\n * !(propValue instanceof URI)) {\n * return new
Error(\n * 'Expected a string or an URI for ' + propName + ' in ' +\n * componentName\n *
);\n * }\n * },\n * render: function() { ... }\n * });\n *\n * @internal\n */\n\n var
ANONYMOUS = '<<anonymous>>';\n\n // Important!\n // Keep this list in sync with production version in
`./factoryWithThrowingShims.js`\n\n var ReactPropTypes = {\n array: createPrimitiveTypeChecker('array'),\n
bool: createPrimitiveTypeChecker('boolean'),\n func: createPrimitiveTypeChecker('function'),\n number:
createPrimitiveTypeChecker('number'),\n object: createPrimitiveTypeChecker('object'),\n string:
createPrimitiveTypeChecker('string'),\n symbol: createPrimitiveTypeChecker('symbol'),\n\n any:
createAnyTypeChecker(),\n arrayOf: createArrayOfTypeChecker,\n element: createElementTypeChecker(),\n
elementType: createElementTypeChecker(),\n instanceOf: createInstanceTypeChecker,\n node:
createNodeChecker(),\n objectOf: createObjectOfTypeChecker,\n oneOf: createEnumTypeChecker,\n
oneOfType: createUnionTypeChecker,\n shape: createShapeTypeChecker,\n exact:
createStrictShapeTypeChecker,\n };\n\n /**\n * inlined Object.is polyfill to avoid requiring consumers ship their
own\n * https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object/is\n */\n
/*eslint-disable no-self-compare*\n function is(x, y) {\n // SameValue algorithm\n if (x === y) {\n // Steps
1-5, 7-10\n // Steps 6.b-6.e: +0 !== -0\n return x !== 0 || 1 / x === 1 / y;\n } else {\n // Step 6.a: NaN ==
NaN\n return x !== x && y !== y;\n }\n }\n\n /*eslint-enable no-self-compare*\n\n /**\n * We use an Error-
like object for backward compatibility as people may call\n * PropTypes directly and inspect their output.
However, we don't use real\n * Errors anymore. We don't inspect their stack anyway, and creating them\n * is
prohibitively expensive if they are created too often, such as what\n * happens in oneOfType() for any type before
the one that matched.\n */\n function PropTypeError(message) {\n this.message = message;\n this.stack = '';\n
}\n\n // Make `instanceof Error` still work for returned errors.\n PropTypeError.prototype = Error.prototype;\n\n
function createChainableTypeChecker(validate) {\n if (process.env.NODE_ENV !== 'production') {\n var
manualPropTypeCallCache = {};\n var manualPropTypeWarningCount = 0;\n }\n\n function
checkType(isRequired, props, propName, componentName, location, propFullName, secret) {\n
componentName = componentName || ANONYMOUS;\n propFullName = propFullName || propName;\n\n if
(secret !== ReactPropTypesSecret) {\n if (throwOnDirectAccess) {\n // New behavior only for users of
`prop-types` package\n var err = new Error(\n 'Calling PropTypes validators directly is not supported by
the `prop-types` package. ' +\n 'Use `PropTypes.checkPropTypes()` to call them. ' +\n 'Read more at

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http://fb.me/use-check-prop-types"\n    );\n    err.name = 'Invariant Violation';\n    throw err;\n  } else
if (process.env.NODE_ENV !== 'production' && typeof console !== 'undefined') {\n    // Old behavior for
people using React.PropTypes\n    var cacheKey = componentName + ':' + propName;\n    if (\n!manualPropTypeCallCache[cacheKey] &&\n    // Avoid spamming the console because they are often not
actionable except for lib authors\n    manualPropTypeWarningCount < 3\n    ) {\n    printWarning(\n
'You are manually calling a React.PropTypes validation ' +\n    'function for the `' + propFullName + `
prop on `' + componentName + `'. This is deprecated ' +\n    'and will throw in the standalone `prop-types`
package. ' +\n    'You may be seeing this warning due to a third-party PropTypes ' +\n    'library. See
https://fb.me/react-warning-dont-call-proptypes ' + 'for details.'\n    );\n
manualPropTypeCallCache[cacheKey] = true;\n    manualPropTypeWarningCount++;\n    }\n  }\n
}\n  if (props[propName] == null) {\n    if (isRequired) {\n    if (props[propName] === null) {\n
return new PropTypeError('The ' + location + '`' + propFullName + ` is marked as required ' + ('in `' +
componentName + `, but its value is `null`.`));\n    }\n    return new PropTypeError('The ' + location + '`' +
propFullName + ` is marked as required in ' + ('` + componentName + `, but its value is `undefined`.`));\n    }\n
return null;\n  } else {\n    return validate(props, propName, componentName, location, propFullName);\n
}\n }\n\n var chainedCheckType = checkType.bind(null, false);\n chainedCheckType.isRequired =
checkType.bind(null, true);\n return chainedCheckType;\n }\n\n function
createPrimitiveTypeChecker(expectedType) {\n  function validate(props, propName, componentName, location,
propFullName, secret) {\n    var propValue = props[propName];\n    var propType = getPropType(propValue);\n
if (propType !== expectedType) {\n    // `propValue` being instance of, say, date/regexp, pass the 'object'\n
// check, but we can offer a more precise error message here rather than\n    // 'of type `object`'.\n    var
preciseType = getPreciseType(propValue);\n    return new PropTypeError('Invalid ' + location + '`' +
propFullName + ` of type ' + ('` + preciseType + ` supplied to `' + componentName + `, expected ' + ('` +
expectedType + `.`));\n    }\n    return null;\n  }\n  return createChainableTypeChecker(validate);\n }\n\n
function createAnyTypeChecker() {\n  return createChainableTypeChecker(emptyFunctionThatReturnsNull);\n
}\n\n function createArrayTypeChecker(typeChecker) {\n  function validate(props, propName,
componentName, location, propFullName) {\n    if (typeof typeChecker !== 'function') {\n    return new
PropTypeError('Property `' + propFullName + ` of component `' + componentName + ` has invalid PropType
notation inside arrayOf.`);\n    }\n    var propValue = props[propName];\n    if (!Array.isArray(propValue)) {\n
var propType = getPropType(propValue);\n    return new PropTypeError('Invalid ' + location + '`' +
propFullName + ` of type ' + ('` + propType + ` supplied to `' + componentName + `, expected an array.`);\n
}\n    for (var i = 0; i < propValue.length; i++) {\n    var error = typeChecker(propValue, i, componentName,
location, propFullName + '[' + i + ']', ReactPropTypesSecret);\n    if (error instanceof Error) {\n    return
error;\n    }\n    }\n    return null;\n  }\n  return createChainableTypeChecker(validate);\n }\n\n function
createElementTypeChecker() {\n  function validate(props, propName, componentName, location, propFullName)
{\n    var propValue = props[propName];\n    if (!isValidElement(propValue)) {\n    var propType =
getPropType(propValue);\n    return new PropTypeError('Invalid ' + location + '`' + propFullName + ` of type ' +
('` + propType + ` supplied to `' + componentName + `, expected a single ReactElement.`);\n    }\n    return
null;\n  }\n  return createChainableTypeChecker(validate);\n }\n\n function createElementTypeChecker()
{\n  function validate(props, propName, componentName, location, propFullName) {\n    var propValue =
props[propName];\n    if (!ReactIs.isValidElementType(propValue)) {\n    var propType =
getPropType(propValue);\n    return new PropTypeError('Invalid ' + location + '`' + propFullName + ` of type ' +
('` + propType + ` supplied to `' + componentName + `, expected a single ReactElement type.`);\n    }\n    return
null;\n  }\n  return createChainableTypeChecker(validate);\n }\n\n function
createInstanceTypeChecker(expectedClass) {\n  function validate(props, propName, componentName, location,
propFullName) {\n    if (!(props[propName] instanceof expectedClass)) {\n    var expectedClassName =
expectedClass.name || ANONYMOUS;\n    var actualClassName = getClassName(props[propName]);\n
return new PropTypeError('Invalid ' + location + '`' + propFullName + ` of type ' + ('` + actualClassName + `

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supplied to `` + componentName + `, expected ') + ('instance of `` + expectedClassName + `.`));\n    }\n    return
null;\n    }\n    return createChainableTypeChecker(validate);\n    }\n\n    function
createEnumTypeChecker(expectedValues) {\n    if (!Array.isArray(expectedValues)) {\n    if
(process.env.NODE_ENV !== 'production') {\n    if (arguments.length > 1) {\n    printWarning(\n
'Invalid arguments supplied to oneOf, expected an array, got ' + arguments.length + ' arguments. ' +\n    'A
common mistake is to write oneOf(x, y, z) instead of oneOf([x, y, z]).'\n    );\n    } else {\n
printWarning('Invalid argument supplied to oneOf, expected an array.);\n    }\n    }\n    return
emptyFunctionThatReturnsNull;\n    }\n\n    function validate(props, propName, componentName, location,
propFullName) {\n    var propValue = props[propName];\n    for (var i = 0; i < expectedValues.length; i++) {\n
if (is(propValue, expectedValues[i])) {\n    return null;\n    }\n    }\n\n    var valuesString =
JSON.stringify(expectedValues, function replacer(key, value) {\n    var type = getPreciseType(value);\n    if
(type === 'symbol') {\n    return String(value);\n    }\n    return value;\n    });\n    return new
PropTypeError('Invalid ' + location + ' `` + propFullName + ` of value `` + String(propValue) + ` ' + ('supplied to ``
+ componentName + `, expected one of ' + valuesString + `.`));\n    }\n    return
createChainableTypeChecker(validate);\n    }\n\n    function createObjectOfTypeChecker(typeChecker) {\n    function
validate(props, propName, componentName, location, propFullName) {\n    if (typeof typeChecker !== 'function')
{\n    return new PropTypeError('Property `` + propFullName + ` of component `` + componentName + ` has
invalid PropType notation inside objectOf.);\n    }\n\n    var propValue = props[propName];\n    var propTypes =
getPropType(propValue);\n    if (propTypes !== 'object') {\n    return new PropTypeError('Invalid ' + location + '
`` + propFullName + ` of type ' + (` + propTypes + ` supplied to `` + componentName + `, expected an object.);\n
    }\n\n    for (var key in propValue) {\n    if (has(propValue, key)) {\n    var error = typeChecker(propValue,
key, componentName, location, propFullName + `.` + key, ReactPropTypesSecret);\n    if (error instanceof Error)
{\n    return error;\n    }\n    }\n    }\n    return null;\n    }\n    return
createChainableTypeChecker(validate);\n    }\n\n    function createUnionTypeChecker(arrayOfTypeCheckers) {\n    if
(!Array.isArray(arrayOfTypeCheckers)) {\n    process.env.NODE_ENV !== 'production' ? printWarning('Invalid
argument supplied to oneOfType, expected an instance of array.') : void 0;\n    return
emptyFunctionThatReturnsNull;\n    }\n\n    for (var i = 0; i < arrayOfTypeCheckers.length; i++) {\n    var checker
= arrayOfTypeCheckers[i];\n    if (typeof checker !== 'function') {\n    printWarning(\n    'Invalid argument
supplied to oneOfType. Expected an array of check functions, but ' +\n    'received ' +
getPostfixForTypeWarning(checker) + ' at index ' + i + `.`.\n    );\n    return emptyFunctionThatReturnsNull;\n
    }\n    }\n\n    function validate(props, propName, componentName, location, propFullName) {\n    for (var i = 0; i <
arrayOfTypeCheckers.length; i++) {\n    var checker = arrayOfTypeCheckers[i];\n    if (checker(props,
propName, componentName, location, propFullName, ReactPropTypesSecret) === null) {\n    return null;\n
    }\n    }\n\n    return new PropTypeError('Invalid ' + location + ' `` + propFullName + ` supplied to ' + (` +
componentName + `.`));\n    }\n    return createChainableTypeChecker(validate);\n    }\n\n    function
createNodeChecker() {\n    function validate(props, propName, componentName, location, propFullName) {\n    if
(!isNode(props[propName])) {\n    return new PropTypeError('Invalid ' + location + ' `` + propFullName + `
supplied to ' + (` + componentName + `, expected a ReactNode.);\n    }\n    return null;\n    }\n    return
createChainableTypeChecker(validate);\n    }\n\n    function createShapeTypeChecker(shapeTypes) {\n    function
validate(props, propName, componentName, location, propFullName) {\n    var propValue = props[propName];\n
var propTypes = getPropType(propValue);\n    if (propTypes !== 'object') {\n    return new
PropTypeError('Invalid ' + location + ' `` + propFullName + ` of type `` + propTypes + ` ' + ('supplied to ``
+ componentName + `, expected `object`.);\n    }\n\n    for (var key in shapeTypes) {\n    var checker =
shapeTypes[key];\n    if (!checker) {\n    continue;\n    }\n    var error = checker(propValue, key,
componentName, location, propFullName + `.` + key, ReactPropTypesSecret);\n    if (error) {\n    return
error;\n    }\n    }\n    return null;\n    }\n    return createChainableTypeChecker(validate);\n    }\n\n    function
createStrictShapeTypeChecker(shapeTypes) {\n    function validate(props, propName, componentName, location,
propFullName) {\n    var propValue = props[propName];\n    var propTypes = getPropType(propValue);\n    if

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(propType !== 'object') {\n
  return new PropTypeError('Invalid ' + location + ' of type \'' +
propType + '\' + ('supplied to \'' + componentName + '\', expected `object`.');\n    }\n    // We need to check all
keys in case some are required but missing from\n    // props.\n    var allKeys = assign({}, props[propName],
shapeTypes);\n    for (var key in allKeys) {\n      var checker = shapeTypes[key];\n      if (!checker) {\n
return new PropTypeError(\n        'Invalid ' + location + ' key \'' + key + '\n      supplied to \'' +
componentName + '\'.')\n        +\n        '\nBad object: ' + JSON.stringify(props[propName], null, ' ') +\n        '\nValid\n      keys: ' + JSON.stringify(Object.keys(shapeTypes), null, ' ') +\n        '\n');\n      }\n      var error = checker(propValue,\nkey, componentName, location, propFullName + '.' + key, ReactPropTypesSecret);\n      if (error) {\n        return\nerror;\n      }\n    }\n    return null;\n  }\n\n  return createChainableTypeChecker(validate);\n}\n\nfunction\nisNode(propValue) {\n  switch (typeof propValue) {\n    case 'number':\n    case 'string':\n    case 'undefined':\n      return true;\n    case 'boolean':\n      return !propValue;\n    case 'object':\n      if (Array.isArray(propValue))\n      {\n        return propValue.every(isNode);\n      }\n      if (propValue === null || isValidElement(propValue)) {\n
return true;\n      }\n\n      var iteratorFn = getIteratorFn(propValue);\n      if (iteratorFn) {\n        var iterator\n= iteratorFn.call(propValue);\n        var step;\n        if (iteratorFn !== propValue.entries) {\n          while (!(step =\niterator.next()).done) {\n            if (!isNode(step.value)) {\n              return false;\n            }\n          }\n        }\n        else {\n          // Iterator will provide entry [k,v] tuples rather than values.\n          while (!(step =\niterator.next()).done) {\n            var entry = step.value;\n            if (entry) {\n              if (!isNode(entry[1])) {\n                return false;\n              }\n            }\n          }\n        }\n      }\n      return true;\n    default:\n      return false;\n  }\n}\n\nfunction isSymbol(propType, propValue) {\n  // Native\nSymbol.\n  if (propType === 'symbol') {\n    return true;\n  }\n\n  // falsy value can't be a Symbol\n  if\n(!propValue) {\n    return false;\n  }\n\n  // 19.4.3.5 Symbol.prototype[@@toStringTag] === 'Symbol'\n  if\n(propValue['@@toStringTag'] === 'Symbol') {\n    return true;\n  }\n\n  // Fallback for non-spec compliant\nSymbols which are polyfilled.\n  if (typeof Symbol === 'function' && propValue instanceof Symbol) {\n    return\ntrue;\n  }\n\n  return false;\n}\n\n// Equivalent of `typeof` but with special handling for array and regexp.\nfunction getPropType(propValue) {\n  var propType = typeof propValue;\n  if (Array.isArray(propValue)) {\n
return 'array';\n  }\n  if (propValue instanceof RegExp) {\n    // Old webkits (at least until Android 4.0) return\n'function'\n    rather than\n    // 'object' for typeof a RegExp. We'll normalize this here so that /bla/\n    // passes\n    PropTypes.object.\n    return 'object';\n  }\n  if (isSymbol(propType, propValue)) {\n    return 'symbol';\n  }\n\n  return propType;\n}\n\n// This handles more types than `getPropType`. Only used for error messages.\n// See\n`createPrimitiveTypeChecker`.\nfunction getPreciseType(propValue) {\n  if (typeof propValue === 'undefined' ||\npropValue === null) {\n    return " + propValue;\n  }\n  var propType = getPropType(propValue);\n  if\n(propType === 'object') {\n    if (propValue instanceof Date) {\n      return 'date';\n    } else if (propValue\ninstanceof\nRegExp) {\n      return 'regexp';\n    }\n  }\n  return propType;\n}\n\n// Returns a string that is\npostfixed to a warning about an invalid type.\n// For example, "undefined" or "of type array"\nfunction\ngetPostfixForTypeWarning(value) {\n  var type = getPreciseType(value);\n  switch (type) {\n    case 'array':\n    case 'object':\n      return 'an ' + type;\n    case 'boolean':\n    case 'date':\n    case 'regexp':\n      return 'a ' +\ntype;\n    default:\n      return type;\n  }\n}\n\n// Returns class name of the object, if any.\nfunction\ngetClassName(propValue) {\n  if (!propValue.constructor || !propValue.constructor.name) {\n    return\nANONYMOUS;\n  }\n  return propValue.constructor.name;\n}\n\nReactPropTypes.checkPropTypes =\ncheckPropTypes;\nReactPropTypes.resetWarningCache = checkPropTypes.resetWarningCache;\n\nReactPropTypes.PropTypes = ReactPropTypes;\n\nreturn ReactPropTypes;\n};\n\n", /**\n * Copyright (c) 2013-\npresent,\nFacebook, Inc.\n * This source code is licensed under the MIT license found in the\n * LICENSE file in\nthe root directory of this source tree.\n */\n\nif (process.env.NODE_ENV !== 'production') {\n  var ReactIs =\nrequire('react-is');\n\n  // By explicitly using `prop-types` you are opting into new development behavior.\n  //\nhttp://fb.me/prop-types-in-prod\n  var throwOnDirectAccess = true;\n  module.exports =\nrequire('./factoryWithTypeCheckers')(ReactIs.isElement, throwOnDirectAccess);\n} else {\n  // By explicitly using\n`prop-types`\n  you are opting into new production behavior.\n  //\nhttp://fb.me/prop-types-in-prod\n  module.exports =\nrequire('./factoryWithThrowingShims')();\n}\n\n", "export default function _extends() {\n  _extends = Object.assign ||\nfunction (target) {\n    for (var source of arguments) {\n      for (var key in source) {\n        if (Object.prototype.hasOwnProperty.call(source, key)) {\n          target[key] = source[key];\n        }\n      }\n    }\n    return target;\n  };\n  return _extends.apply(this, arguments);\n}\n\n";\n}

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function(target) {\n    for (var i = 1; i < arguments.length; i++) {\n        var source = arguments[i];\n        for (var key\nin source) {\n            if (Object.prototype.hasOwnProperty.call(source, key)) {\n                target[key] = source[key];\n            }\n        }\n    }\n    return target;\n};\n\nreturn _extends.apply(this, arguments);\n}","function\nisAbsolute(pathname) {\n    return pathname.charAt(0) === '/';\n}\n\n// About 1.5x faster than the two-arg version of\nArray#splice()\nfunction spliceOne(list, index) {\n    for (var i = index, k = i + 1, n = list.length; k < n; i += 1, k += 1)\n    {\n        list[i] = list[k];\n    }\n    list.pop();\n}\n\n// This implementation is based heavily on node's url.parse\nfunction\nresolvePathname(to) {\n    var from = arguments.length > 1 && arguments[1] !== undefined ? arguments[1] : "";\n    var toParts = to && to.split('/') || [];\n    var fromParts = from && from.split('/') || [];\n    var isToAbs = to &&\nisAbsolute(to);\n    var isFromAbs = from && isAbsolute(from);\n    var mustEndAbs = isToAbs || isFromAbs;\n    if\n(to && isAbsolute(to)) {\n        // to is absolute\n        fromParts = toParts;\n    } else if (toParts.length) {\n        // to is\nrelative, drop the filename\n        fromParts.pop();\n        fromParts = fromParts.concat(toParts);\n    }\n    if\n(!fromParts.length) return '';\n    var hasTrailingSlash = void 0;\n    if (fromParts.length) {\n        var last =\nfromParts[fromParts.length - 1];\n        hasTrailingSlash = last === '.' || last === '..' || last === ";\n    } else {\n        hasTrailingSlash = false;\n    }\n    var up = 0;\n    for (var i = fromParts.length; i >= 0; i--) {\n        var part =\nfromParts[i];\n        if (part === '.') {\n            spliceOne(fromParts, i);\n        } else if (part === '..') {\n            spliceOne(fromParts, i);\n            up++;\n        } else if (up) {\n            spliceOne(fromParts, i);\n            up--;\n        }\n    }\n    if\n(!mustEndAbs) for (; up--; up) {\n        fromParts.unshift('..');\n    }\n    if (mustEndAbs && fromParts[0] !== "&&\n(!fromParts[0] || !isAbsolute(fromParts[0]))) fromParts.unshift("");\n    var result = fromParts.join('/');\n    if\n(hasTrailingSlash && result.substr(-1) !== '/') result += '/';\n    return result;\n}\n\nexport default\nresolvePathname;" , "var _typeof = typeof Symbol === \"function\" && typeof Symbol.iterator === \"symbol\" ?\nfunction(obj) { return typeof obj; } : function(obj) { return obj && typeof Symbol === \"function\" &&\nobj.constructor === Symbol && obj !== Symbol.prototype ? \"symbol\" : typeof obj; }\n\nfunction valueEqual(a,\nb) {\n    if (a === b) return true;\n    if (a == null || b == null) return false;\n    if (Array.isArray(a)) {\n        return\nArray.isArray(b) && a.length === b.length && a.every(function(item, index) {\n            return valueEqual(item,\nb[index]);\n        });\n    }\n    var aType = typeof a === 'undefined' ? 'undefined' : _typeof(a);\n    var bType = typeof b\n=== 'undefined' ? 'undefined' : _typeof(b);\n    if (aType !== bType) return false;\n    if (aType === 'object') {\n        var aValue = a.valueOf();\n        var bValue = b.valueOf();\n        if (aValue !== a || bValue !== b) return\nvalueEqual(aValue, bValue);\n        var aKeys = Object.keys(a);\n        var bKeys = Object.keys(b);\n        if\n(aKeys.length !== bKeys.length) return false;\n        return aKeys.every(function(key) {\n            return\nvalueEqual(a[key], b[key]);\n        });\n    }\n    return false;\n}\n\nexport default valueEqual;" , "var isProduction =\nprocess.env.NODE_ENV === 'production';\nfunction warning(condition, message) {\n    if (!isProduction) {\n        if\n(condition) {\n            return;\n        }\n        var text = \"Warning: \" + message;\n        if (typeof console !== 'undefined')\n{\n            console.warn(text);\n        }\n        try {\n            throw Error(text);\n        } catch (x) {}\n    }\n}\n\nexport default\nwarning;" , "var isProduction = process.env.NODE_ENV === 'production';\nvar prefix = 'Invariant\nfailed';\nfunction invariant(condition, message) {\n    if (condition) {\n        return;\n    }\n    if (isProduction) {\n        throw\nnew Error(prefix);\n    } else {\n        throw new Error(prefix + \": \" + (message || \"));\n    }\n}\n\nexport default\ninvariant;" , "import _extends from '@babel/runtime/helpers/esm/extends';\nimport resolvePathname from 'resolve-\npathname';\nimport valueEqual from 'value-equal';\nimport warning from 'tiny-warning';\nimport invariant from\n'tiny-invariant';\n\nfunction addLeadingSlash(path) {\n    return path.charAt(0) === '/' ? path : '/' + path;\n}\n\nfunction\nstripLeadingSlash(path) {\n    return path.charAt(0) === '/' ? path.substr(1) : path;\n}\n\nfunction hasBasename(path,\nprefix) {\n    return new RegExp('^' + prefix + '(\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\?#|$)', 'i').test(path);\n}\n\nfunction stripBasename(path, prefix)\n{\n    return hasBasename(path, prefix) ? path.substr(prefix.length) : path;\n}\n\nfunction stripTrailingSlash(path) {\n    return\npath.charAt(path.length - 1) === '/' ? path.slice(0, -1) : path;\n}\n\nfunction parsePath(path) {\n    var pathname =\npath || '';\n    var search = \"";\n    var hash = \"";\n    var hashIndex = pathname.indexOf('#');\n    if (hashIndex !== -1) {\n        hash =\npathname.substr(hashIndex);\n        pathname = pathname.substr(0, hashIndex);\n    }\n    var searchIndex =\npathname.indexOf('?');\n    if (searchIndex !== -1) {\n        search = pathname.substr(searchIndex);\n        pathname =\npathname.substr(0, searchIndex);\n    }\n    return {\n        pathname: pathname,\n        search: search === '?' ? \"\": search,\n        hash: hash === '#' ? \"\": hash\n    }; \n}\n\nfunction createPath(location) {\n    var pathname = location.pathname;\n
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search = location.search;\n    hash = location.hash;\n    var path = pathname || '/';\n    if (search && search !== '?') path
+= search.charAt(0) === '?' ? search : '?' + search;\n    if (hash && hash !== '#') path += hash.charAt(0) === '#' ?
hash : '#' + hash;\n    return path;\n}\n\nfunction createLocation(path, state, key, currentLocation) {\n    var
location;\n\n    if (typeof path === 'string') {\n        // Two-arg form: push(path, state)\n        location = parsePath(path);\n        location.state = state;\n    } else {\n        // One-arg form: push(location)\n        location = _extends({}, path);\n        if
(location.pathname === undefined) location.pathname = '';\n        if (location.search) {\n            if
(location.search.charAt(0) !== '?') location.search = '?' + location.search;\n        } else {\n            location.search = '';\n        }\n        if (location.hash) {\n            if (location.hash.charAt(0) !== '#') location.hash = '#' + location.hash;\n        } else {\n            location.hash = '';\n        }\n        if (state !== undefined && location.state === undefined) location.state = state;\n    }\n\n    try {\n        location.pathname = decodeURI(location.pathname);\n    } catch (e) {\n        if (e instanceof URIError)
{\n            throw new URIError('Pathname \'' + location.pathname + '\'' could not be decoded. ' + 'This is likely caused
by an invalid percent-encoding.');

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window.navigator.userAgent.indexOf('Firefox') === -1;\n\n/**\n * Returns true if a given popstate event is an
extraneous WebKit event.\n * Accounts for the fact that Chrome on iOS fires real popstate events\n * containing
undefined state when pressing the back button.\n */\nfunction isExtraneousPopstateEvent(event) {\n  event.state
=== undefined && navigator.userAgent.indexOf('CriOS') === -1;\n}\n\nvar PopStateEvent = 'popstate';\nvar
HashChangeEvent = 'hashchange';\n\nfunction getHistoryState() {\n  try {\n    return window.history.state || {};\n  }
catch (e) {\n    // IE 11 sometimes throws when accessing window.history.state\n    // See
https://github.com/ReactTraining/history/pull/289\n    return {};\n  }\n}\n\n/**\n * Creates a history object that uses
the HTML5 history API including\n * pushState, replaceState, and the popstate event.\n */\n\nfunction
createBrowserHistory(props) {\n  if (props === void 0) {\n    props = {};\n  }\n\n  !canUseDOM ?
process.env.NODE_ENV !== "production" ? invariant(false, 'Browser history needs a DOM') : invariant(false) :
void 0;\n  var globalHistory = window.history;\n  var canUseHistory = supportsHistory();\n  var
needsHashChangeListener = !supportsPopStateOnHashChange();\n  var _props = props,\n      _props$forceRefresh
= _props.forceRefresh,\n      forceRefresh = _props$forceRefresh === void 0 ? false : _props$forceRefresh,\n
      _props$getUserConfirm = _props.getUserConfirmation,\n      getUserConfirmation = _props$getUserConfirm ===
void 0 ? getConfirmation : _props$getUserConfirm,\n      _props$keyLength = _props.keyLength,\n      keyLength =
_props$keyLength === void 0 ? 6 : _props$keyLength;\n  var basename = props.basename ?
stripTrailingSlash(addLeadingSlash(props.basename)) : '';\n\n  function getDOMLocation(historyState) {\n    var
_ref = historyState || {},\n        key = _ref.key,\n        state = _ref.state;\n\n    var _window$location =
window.location,\n        pathname = _window$location.pathname,\n        search = _window$location.search,\n
hash = _window$location.hash;\n    var path = pathname + search + hash;\n    process.env.NODE_ENV !==
"production" ? warning(!basename || hasBasename(path, basename), 'You are attempting to use a basename on a
page whose URL path does not begin with the basename. Expected path \'' + path + '\' to begin with \'' +
basename + '\'.') : void 0;\n    if (basename) path = stripBasename(path, basename);\n    return createLocation(path,
state, key);\n  }\n\n  function createKey() {\n    return Math.random().toString(36).substr(2, keyLength);\n  }\n\n  var transitionManager = createTransitionManager();\n\n  function setState(nextState) {\n    _extends(history,
nextState);\n\n    history.length = globalHistory.length;\n    transitionManager.notifyListeners(history.location,
history.action);\n  }\n\n  function handlePopState(event) {\n    // Ignore extraneous popstate events in WebKit.\n    if
(isExtraneousPopstateEvent(event)) return;\n    handlePop(getDOMLocation(event.state));\n  }\n\n  function
handleHashChange() {\n    handlePop(getDOMLocation(getHistoryState()));\n  }\n\n  var forceNextPop = false;\n\n  function handlePop(location) {\n    if (forceNextPop) {\n      forceNextPop = false;\n      setState();\n    } else {\n      var action = 'POP';\n      transitionManager.confirmTransitionTo(location, action, getUserConfirmation, function
(ok) {\n        if (ok) {\n          setState({\n            action: action,\n            location: location\n          });\n        } else {\n          revertPop(location);\n        }\n      });\n    }\n  }\n\n  function revertPop(fromLocation) {\n    var toLocation =
history.location; // TODO: We could probably make this more reliable by\n    // keeping a list of keys we've seen in
sessionStorage.\n    // Instead, we just default to 0 for keys we don't know.\n\n    var toIndex =
allKeys.indexOf(toLocation.key);\n    if (toIndex === -1) toIndex = 0;\n    var fromIndex =
allKeys.indexOf(fromLocation.key);\n    if (fromIndex === -1) fromIndex = 0;\n    var delta = toIndex -
fromIndex;\n\n    if (delta) {\n      forceNextPop = true;\n      go(delta);\n    }\n  }\n\n  var initialLocation =
getDOMLocation(getHistoryState());\n  var allKeys = [initialLocation.key]; // Public interface\n\n  function
createHref(location) {\n    return basename + createPath(location);\n  }\n\n  function push(path, state) {\n    process.env.NODE_ENV !== "production" ? warning(!(typeof path === 'object' && path.state !== undefined &&
state !== undefined), 'You should avoid providing a 2nd state argument to push when the 1st ' + 'argument is a
location-like object that already has state; it is ignored') : void 0;\n    var action = 'PUSH';\n    var location =
createLocation(path, state, createKey(), history.location);\n    transitionManager.confirmTransitionTo(location,
action, getUserConfirmation, function (ok) {\n      if (!ok) return;\n      var href = createHref(location);\n      var key
= location.key,\n          state = location.state;\n\n      if (canUseHistory) {\n        globalHistory.pushState({\n          key: key,\n          state: state\n        }, null, href);\n      }\n      if (forceRefresh) {\n        window.location.href = href;\n      }
else {\n        var prevIndex = allKeys.indexOf(history.location.key);\n        var nextKeys = allKeys.slice(0,

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prevIndex === -1 ? 0 : prevIndex + 1);\n      nextKeys.push(location.key);\n      allKeys = nextKeys;\n      setState({\n        action: action,\n        location: location\n      });\n    } else {\n      process.env.NODE_ENV !== "production" ? warning(state === undefined, 'Browser history cannot push state in browsers that do not support HTML5 history') : void 0;\n      window.location.href = href;\n    }\n  }\n\n  function replace(path, state) {\n    process.env.NODE_ENV !== "production" ? warning(!(typeof path === 'object' && path.state !== undefined && state !== undefined), 'You should avoid providing a 2nd state argument to replace when the 1st ' + 'argument is a location-like object that already has state; it is ignored') : void 0;\n    var action = 'REPLACE';\n    var location = createLocation(path, state, createKey(), history.location);\n    transitionManager.confirmTransitionTo(location, action, getUserConfirmation, function (ok) {\n      if (!ok) return;\n      var href = createHref(location);\n      var key = location.key;\n      state = location.state;\n      if (canUseHistory) {\n        globalHistory.replaceState({\n          key: key,\n          state: state\n        }, null, href);\n      }\n      if (forceRefresh) {\n        window.location.replace(href);\n      } else {\n        var prevIndex = allKeys.indexOf(history.location.key);\n        if (prevIndex !== -1) allKeys[prevIndex] = location.key;\n        setState({\n          action: action,\n          location: location\n        });\n      } else {\n        process.env.NODE_ENV !== "production" ? warning(state === undefined, 'Browser history cannot replace state in browsers that do not support HTML5 history') : void 0;\n        window.location.replace(href);\n      }\n    });\n  }\n\n  function go(n) {\n    globalHistory.go(n);\n  }\n\n  function goBack() {\n    go(-1);\n  }\n\n  function goForward() {\n    go(1);\n  }\n\n  var listenerCount = 0;\n\n  function checkDOMListeners(delta) {\n    listenerCount += delta;\n\n    if (listenerCount === 1 && delta === 1) {\n      window.addEventListener(PopStateEvent, handlePopState);\n      if (needsHashChangeListener) window.addEventListener(HashChangeEvent, handleHashChange);\n    } else if (listenerCount === 0) {\n      window.removeEventListener(PopStateEvent, handlePopState);\n      if (needsHashChangeListener) window.removeEventListener(HashChangeEvent, handleHashChange);\n    }\n\n    var isBlocked = false;\n\n    function block(prompt) {\n      if (prompt === void 0) {\n        prompt = false;\n      }\n      var unblock = transitionManager.setPrompt(prompt);\n      if (!isBlocked) {\n        checkDOMListeners(1);\n        isBlocked = true;\n      }\n      return function () {\n        if (isBlocked) {\n          isBlocked = false;\n          checkDOMListeners(-1);\n        }\n        return unblock();\n      };\n    }\n\n    function listen(listener) {\n      var unlisten = transitionManager.appendListener(listener);\n      checkDOMListeners(1);\n      return function () {\n        checkDOMListeners(-1);\n        unlisten();\n      };\n    }\n\n    var history = {\n      length: globalHistory.length,\n      action: 'POP',\n      location: initialLocation,\n      createHref: createHref,\n      push: push,\n      replace: replace,\n      go: go,\n      goBack: goBack,\n      goForward: goForward,\n      block: block,\n      listen: listen\n    };\n    return history;\n  }\n\n  var\n    HashChangeEvent$1 = 'hashchange',\n    var HashPathCoders = {\n      hashbang: {\n        encodePath: function encodePath(path) {\n          return path.charAt(0) === '!' ? path : '!' + stripLeadingSlash(path);\n        },\n        decodePath: function decodePath(path) {\n          return path.charAt(0) === '!' ? path.substr(1) : path;\n        },\n        noslash: {\n          encodePath: stripLeadingSlash,\n          decodePath: addLeadingSlash\n        },\n        slash: {\n          encodePath: addLeadingSlash,\n          decodePath: addLeadingSlash\n        }\n      }\n    },\n    function getHashPath() {\n      // We can't use window.location.hash here because it's not\n      // consistent across browsers - Firefox will pre-decode it!\n      var href = window.location.href;\n      var hashIndex = href.indexOf('#');\n      return hashIndex === -1 ? '' : href.substring(hashIndex + 1);\n    },\n    function pushHashPath(path) {\n      window.location.hash = path;\n    },\n    function replaceHashPath(path) {\n      var hashIndex = window.location.href.indexOf('#');\n      window.location.replace(window.location.href.slice(0, hashIndex >= 0 ? hashIndex : 0) + '#' + path);\n    },\n    function createHashHistory(props) {\n      if (props === void 0) {\n        props = {};\n      }\n      !canUseDOM ?\n      process.env.NODE_ENV !== "production" ? invariant(false, 'Hash history needs a DOM') : invariant(false) : void 0;\n      var globalHistory = window.history;\n      var canGoWithoutReload = supportsGoWithoutReloadUsingHash();\n      var _props = props,\n          _props$getUserConfirm = _props.getUserConfirmation,\n          getUserConfirmation = _props$getUserConfirm === void 0 ? getConfirmation : _props$getUserConfirm,\n          _props$hashType = _props.hashType,\n          hashType = _props$hashType === void 0 ? 'slash' : _props$hashType;\n      var basename = props.basename ? stripTrailingSlash(addLeadingSlash(props.basename)) : '';\n      var _HashPathCoders$hashT = HashPathCoders[hashType],\n          encodePath = _HashPathCoders$hashT.encodePath,\n          decodePath =

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_HashPathCoders$hashT.decodePath;\n\n function getDOMLocation() {\n  var path =
decodePath(getHashPath());\n  process.env.NODE_ENV !== \"production\" ? warning(!basename ||
hasBasename(path, basename), 'You are attempting to use a basename on a page whose URL path does not begin ' +
'with the basename. Expected path \"' + path + '\" to begin with \"' + basename + '\".') : void 0;\n  if (basename) path
= stripBasename(path, basename);\n  return createLocation(path);\n }\n\n var transitionManager =
createTransitionManager();\n\n function setState(nextState) {\n  _extends(history, nextState);\n\n  history.length
= globalHistory.length;\n  transitionManager.notifyListeners(history.location, history.action);\n }\n\n var
forceNextPop = false;\n var ignorePath = null;\n\n function handleHashChange() {\n  var path = getHashPath();\n
var encodedPath = encodePath(path);\n\n  if (path !== encodedPath) {\n    // Ensure we always have a properly-
encoded hash.\n    replaceHashPath(encodedPath);\n  } else {\n    var location = getDOMLocation();\n    var
prevLocation = history.location;\n    if (!forceNextPop && locationsAreEqual(prevLocation, location)) return; // A
hashchange doesn't always == location change.\n\n    if (ignorePath === createPath(location)) return; // Ignore this
change; we already setState in push/replace.\n\n    ignorePath = null;\n    handlePop(location);\n  }\n }\n\n
function handlePop(location) {\n  if (forceNextPop) {\n    forceNextPop = false;\n    setState();\n  } else {\n
var action = 'POP';\n    transitionManager.confirmTransitionTo(location, action, getUserConfirmation, function
(ok) {\n      if (ok) {\n        setState({\n          action: action,\n          location: location\n        });\n      } else {\n
revertPop(location);\n      }\n    });\n  }\n }\n\n function revertPop(fromLocation) {\n  var toLocation =
history.location; // TODO: We could probably make this more reliable by\n  // keeping a list of paths we've seen in
sessionStorage.\n  // Instead, we just default to 0 for paths we don't know.\n\n  var toIndex =
allPaths.lastIndexOf(createPath(toLocation));\n  if (toIndex === -1) toIndex = 0;\n  var fromIndex =
allPaths.lastIndexOf(createPath(fromLocation));\n  if (fromIndex === -1) fromIndex = 0;\n  var delta = toIndex -
fromIndex;\n\n  if (delta) {\n    forceNextPop = true;\n    go(delta);\n  }\n } // Ensure the hash is encoded
properly before doing anything else.\n\n  var path = getHashPath();\n  var encodedPath = encodePath(path);\n  if
(path !== encodedPath) replaceHashPath(encodedPath);\n  var initialLocation = getDOMLocation();\n  var allPaths
= [createPath(initialLocation)]; // Public interface\n\n  function createHref(location) {\n    return '#' +
encodePath(basename + createPath(location));\n  }\n\n  function push(path, state) {\n    process.env.NODE_ENV
!== \"production\" ? warning(state === undefined, 'Hash history cannot push state; it is ignored') : void 0;\n    var
action = 'PUSH';\n    var location = createLocation(path, undefined, undefined, history.location);\n\n    transitionManager.confirmTransitionTo(location, action, getUserConfirmation, function (ok) {\n      if (!ok) return;\n
      var path = createPath(location);\n      var encodedPath = encodePath(basename + path);\n      var hashChanged =
getHashPath() !== encodedPath;\n\n      if (hashChanged) {\n        // We cannot tell if a hashchange was caused by a
PUSH, so we'd\n        // rather setState here and ignore the hashchange. The caveat here\n        // is that other hash
histories in the page will consider it a POP.\n        ignorePath = path;\n        pushHashPath(encodedPath);\n        var
prevIndex = allPaths.lastIndexOf(createPath(history.location));\n        var nextPaths = allPaths.slice(0, prevIndex
=== -1 ? 0 : prevIndex + 1);\n        nextPaths.push(path);\n        allPaths = nextPaths;\n        setState({\n          action:
action,\n          location: location\n        });\n      } else {\n        process.env.NODE_ENV !== \"production\" ?
warning(false, 'Hash history cannot PUSH the same path; a new entry will not be added to the history stack') : void
0;\n        setState();\n      }\n    });\n  }\n\n  function replace(path, state) {\n    process.env.NODE_ENV !==
\"production\" ? warning(state === undefined, 'Hash history cannot replace state; it is ignored') : void 0;\n    var
action = 'REPLACE';\n    var location = createLocation(path, undefined, undefined, history.location);\n\n    transitionManager.confirmTransitionTo(location, action, getUserConfirmation, function (ok) {\n      if (!ok) return;\n
      var path = createPath(location);\n      var encodedPath = encodePath(basename + path);\n      var hashChanged =
getHashPath() !== encodedPath;\n\n      if (hashChanged) {\n        // We cannot tell if a hashchange was caused by a
REPLACE, so we'd\n        // rather setState here and ignore the hashchange. The caveat here\n        // is that other
hash histories in the page will consider it a POP.\n        ignorePath = path;\n        replaceHashPath(encodedPath);\n
      }\n\n      var prevIndex = allPaths.indexOf(createPath(history.location));\n      if (prevIndex !== -1)
allPaths[prevIndex] = path;\n      setState({\n        action: action,\n        location: location\n      });\n    });\n  }\n\n  function go(n) {\n    process.env.NODE_ENV !== \"production\" ? warning(canGoWithoutReload, 'Hash history

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prompt = false;\n  }\n\n  return transitionManager.setPrompt(prompt);\n }\n\n function listen(listener) {\n
return transitionManager.appendListener(listener);\n }\n\n var history = {\n  length: entries.length,\n  action:
'POP',\n  location: entries[index],\n  index: index,\n  entries: entries,\n  createHref: createHref,\n  push: push,\n
replace: replace,\n  go: go,\n  goBack: goBack,\n  goForward: goForward,\n  canGo: canGo,\n  block:
block,\n  listen: listen\n }; \n return history;\n }\n\n\nexport { createBrowserHistory, createHashHistory,
createMemoryHistory, createLocation, locationsAreEqual, parsePath, createPath };\n", "import React, { Component
} from 'react';\nimport _inheritsLoose from '@babel/runtime/helpers/esm/inheritsLoose';\nimport PropTypes from
'prop-types';\nimport warning from 'tiny-warning';\n\nvar MAX_SIGNED_31_BIT_INT = 1073741823;\n\nvar
commonjsGlobal = typeof globalThis !== 'undefined' ? globalThis : typeof window !== 'undefined' ? window :
typeof global !== 'undefined' ? global : {};\n\nfunction getUniqueId() {\n  var key = '__global_unique_id__';\n
return commonjsGlobal[key] = (commonjsGlobal[key] || 0) + 1;\n}\n\nfunction objectIs(x, y) {\n  if (x === y) {\n
return x !== 0 || 1 / x === 1 / y;\n  } else {\n    return x !== x && y !== y;\n  }\n}\n\nfunction
createEventEmitter(value) {\n  var handlers = [];\n  return {\n    on: function on(handler) {\n
handlers.push(handler);\n    },\n    off: function off(handler) {\n    handlers = handlers.filter(function (h) {\n
return h !== handler;\n    });\n    },\n    get: function get() {\n    return value;\n    },\n    set: function set(newValue,
changedBits) {\n    value = newValue;\n    handlers.forEach(function (handler) {\n    return handler(value,
changedBits);\n    });\n    }\n  };\n}\n\nfunction onlyChild(children) {\n  return Array.isArray(children) ?
children[0] : children;\n}\n\nfunction createReactContext(defaultValue, calculateChangedBits) {\n  var
_Provider$childContext, _Consumer$contextType;\n\n  var contextProp = '__create-react-context-' + getUniqueId()
+ '__';\n\n  var Provider = /*#__PURE__*/function (_Component) {\n    _inheritsLoose(Provider, _Component);\n\n    function Provider() {\n      var _this;\n\n      _this = _Component.apply(this, arguments) || this;\n      _this.emitter =
createEventEmitter(_this.props.value);\n      return _this;\n    }\n\n    var _proto = Provider.prototype;\n\n    _proto.getChildContext = function getChildContext() {\n      var _ref;\n\n      return _ref = {}, _ref[contextProp] =
this.emitter, _ref;\n    };\n\n    _proto.componentWillReceiveProps = function
componentWillReceiveProps(nextProps) {\n      if (this.props.value !== nextProps.value) {\n        var oldValue =
this.props.value;\n        var newValue = nextProps.value;\n        var changedBits;\n\n        if (objectIs(oldValue,
newValue)) {\n          changedBits = 0;\n        } else {\n          changedBits = typeof calculateChangedBits ===
'function' ? calculateChangedBits(oldValue, newValue) : MAX_SIGNED_31_BIT_INT;\n\n          if
(process.env.NODE_ENV !== 'production') {\n            warning((changedBits & MAX_SIGNED_31_BIT_INT)
=== changedBits, 'calculateChangedBits: Expected the return value to be a + '31-bit integer. Instead received: ' +
changedBits);\n          }\n\n          changedBits |= 0;\n\n          if (changedBits !== 0) {\n
this.emitter.set(nextProps.value, changedBits);\n          }\n        }\n      }\n\n      _proto.render = function
render() {\n        return this.props.children;\n      };\n\n      return Provider;\n    }(Component);\n\n    Provider.childContextTypes = (_Provider$childContext = {}, _Provider$childContext[contextProp] =
PropTypes.object.isRequired, _Provider$childContext);\n\n    var Consumer = /*#__PURE__*/function (_Component2) {\n      _inheritsLoose(Consumer, _Component2);\n\n      function Consumer() {\n        var _this2;\n\n        _this2 = _Component2.apply(this, arguments) || this;\n        _this2.state = {\n          value: _this2.getValue()\n        };\n\n        _this2.onUpdate = function (newValue, changedBits) {\n          var observedBits = _this2.observedBits | 0;\n\n          if ((observedBits & changedBits) !== 0) {\n            _this2.setState({\n              value: _this2.getValue()\n            });\n          }\n        };\n\n        return _this2;\n      }\n\n      var _proto2 = Consumer.prototype;\n\n      _proto2.componentWillReceiveProps = function componentWillReceiveProps(nextProps) {\n        var observedBits =
nextProps.observedBits;\n        this.observedBits = observedBits === undefined || observedBits === null ?
MAX_SIGNED_31_BIT_INT : observedBits;\n      };\n\n      _proto2.componentDidMount = function
componentDidMount() {\n        if (this.context[contextProp]) {\n          this.context[contextProp].on(this.onUpdate);\n        }\n\n        var observedBits = this.props.observedBits;\n        this.observedBits = observedBits === undefined ||
observedBits === null ? MAX_SIGNED_31_BIT_INT : observedBits;\n      };\n\n      _proto2.componentWillUnmount = function componentWillUnmount() {\n        if (this.context[contextProp]) {\n          this.context[contextProp].off(this.onUpdate);\n        }\n      };\n\n      _proto2.getValue = function getValue() {\n        if

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[illegible]


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\" to be defined')\n    }\n    }\n    if (isArray(value)) {\n        if (!token.repeat) {\n            throw new
TypeError('Expected \'' + token.name + '\" to not repeat, but received \'' + JSON.stringify(value) + '\')\n        }\n        if (value.length === 0) {\n            if (token.optional) {\n                continue\n            } else {\n                throw new
TypeError('Expected \'' + token.name + '\" to not be empty')\n            }\n            for (var j = 0; j <
value.length; j++) {\n                segment = encode(value[j])\n                if (!matches[i].test(segment)) {\n                    throw new
TypeError('Expected all \'' + token.name + '\" to match \'' + token.pattern + '\", but received \'' +
JSON.stringify(segment) + '\')\n                }\n                path += (j === 0 ? token.prefix : token.delimiter) + segment\n            }\n            continue\n        }\n        segment = token.asterisk ? encodeAsterisk(value) : encode(value)\n        if
(!matches[i].test(segment)) {\n            throw new TypeError('Expected \'' + token.name + '\" to match \'' +
token.pattern + '\", but received \'' + segment + '\")\n        }\n        path += token.prefix + segment\n    }\n    return
path\n    }\n}\n\n/**\n * Escape a regular expression string.\n *\n * @param {string} str\n * @return {string}\n */\nfunction escapeString (str) {\n    return str.replace(/([+*?^!:$\{\}\[\]\|\\"\\])/g, '\\\\$1')\n}\n\n/**\n * Escape the
capturing group by escaping special characters and meaning.\n *\n * @param {string} group\n * @return {string}\n */\nfunction escapeGroup (group) {\n    return group.replace(/([=!:$\{\}\[\]\|\\"\\])/g, '\\\\$1')\n}\n\n/**\n * Attach the keys as a
property of the regexp.\n *\n * @param {RegExp} re\n * @param {Array} keys\n * @return {RegExp}\n */\nfunction attachKeys (re, keys) {\n    re.keys = keys\n    return re\n}\n\n/**\n * Get the flags for a regexp from the
options.\n *\n * @param {Object} options\n * @return {string}\n */\nfunction flags (options) {\n    return
options.sensitive ? '' : 'i'\n}\n\n/**\n * Pull out keys from a regexp.\n *\n * @param {RegExp} path\n * @param
{!Array} keys\n * @return {RegExp}\n */\nfunction regexpToRegexp (path, keys) {\n    // Use a negative
lookahead to match only capturing groups.\n    var groups = path.source.match(/\\((?!\\?)/g)\n    if (groups) {\n        for
(var i = 0; i < groups.length; i++) {\n            keys.push({\n                name: i,\n                prefix: null,\n                delimiter: null,\n                optional: false,\n                repeat: false,\n                partial: false,\n                asterisk: false,\n                pattern: null\n            })\n        }\n    }\n    return attachKeys(path, keys)\n}\n\n/**\n * Transform an array into a regexp.\n *\n * @param {!Array} path\n *
@param {Array} keys\n * @param {!Object} options\n * @return {RegExp}\n */\nfunction arrayToRegexp
(path, keys, options) {\n    var parts = []\n    for (var i = 0; i < path.length; i++) {\n        parts.push(pathToRegexp(path[i], keys, options).source)\n    }\n    var regexp = new RegExp('(' + parts.join('|') + ')',
flags(options))\n    return attachKeys(regexp, keys)\n}\n\n/**\n * Create a path regexp from string input.\n *\n *
@param {string} path\n * @param {!Array} keys\n * @param {!Object} options\n * @return {RegExp}\n */\nfunction stringToRegexp (path, keys, options) {\n    return tokensToRegexp(parse(path, options), keys,
options)\n}\n\n/**\n * Expose a function for taking tokens and returning a RegExp.\n *\n * @param {!Array}
tokens\n * @param {(Array|Object)=} keys\n * @param {Object=} options\n * @return {RegExp}\n */\nfunction tokensToRegExp (tokens, keys, options) {\n    if (!isArray(keys)) {\n        options = /** @type {!Object} */
(keys || options)\n        keys = []\n    }\n    options = options || {}\n    var strict = options.strict\n    var end = options.end
!strict\n    var route = ''\n    // Iterate over the tokens and create our regexp string.\n    for (var i = 0; i <
tokens.length; i++) {\n        var token = tokens[i]\n        if (typeof token === 'string') {\n            route +=
escapeString(token)\n        } else {\n            var prefix = escapeString(token.prefix)\n            var capture = '(?:' + token.pattern
+ ')\n            keys.push(token)\n            if (token.repeat) {\n                capture += '(?:' + prefix + capture + ')*'\n            }\n            if
(token.optional) {\n                if (!token.partial) {\n                    capture = '(?:' + prefix + '(' + capture + '))?' \n                } else {\n                    capture = prefix + '(' + capture + ')?'\n                }\n            } else {\n                capture = prefix + '(' + capture + ')\n            }\n            route += capture\n        }\n    }\n    var delimiter = escapeString(options.delimiter || '/')\n    var endsWithDelimiter =
route.slice(-delimiter.length) === delimiter\n    // In non-strict mode we allow a slash at the end of match. If the
path to\n    // match already ends with a slash, we remove it for consistency. The slash\n    // is valid at the end of a path
match, not in the middle. This is important\n    // in non-ending mode, where '/test/' shouldn't match
'/test/test/route/'.\n    if (!strict) {\n        route = (endsWithDelimiter ? route.slice(0, -delimiter.length) : route) + '(?:' +
delimiter + '(?=$))?' \n    }\n    if (end) {\n        route += '$'\n    } else {\n        // In non-ending mode, we need the capturing
groups to match as much as\n        // possible by using a positive lookahead to the end or next path segment.\n        route
+= strict && endsWithDelimiter ? '' : '(?=' + delimiter + '|$)'\n    }\n    return attachKeys(new RegExp('^' + route,
flags(options)), keys)\n}\n\n/**\n * Normalize the given path string, returning a regular expression.\n *\n * An

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empty array can be passed in for the keys, which will hold the\n * placeholder key descriptions. For example, using
`/user/:id`, `keys` will\n * contain `[{ name: 'id', delimiter: '/', optional: false, repeat: false }]`. \n * \n * @param
{(string|RegExp|Array)} path\n * @param {(Array|Object)=} keys\n * @param {Object=} options\n *
@return {!RegExp}\n * \nfunction pathToRegexp (path, keys, options) {\n if (!isArray(keys)) {\n options = /**
@type {!Object} */ (keys || options)\n keys = []\n }\n\n options = options || {}\n\n if (path instanceof RegExp)
{\n return regexpToRegexp(path, /** @type {!Array} */ (keys))\n }\n\n if (isArray(path)) {\n return
arrayToRegexp(** @type {!Array} */ (path), /** @type {!Array} */ (keys), options)\n }\n\n return
stringToRegexp(** @type {string} */ (path), /** @type {!Array} */ (keys), options)\n }\n\n", "export default function
_objectWithoutPropertiesLoose(source, excluded) {\n if (source == null) return {};\n var target = {};\n var
sourceKeys = Object.keys(source);\n var key, i;\n\n for (i = 0; i < sourceKeys.length; i++) {\n key =
sourceKeys[i];\n if (excluded.indexOf(key) >= 0) continue;\n target[key] = source[key];\n }\n\n return
target;\n }", "use strict";\n\n**\n * Copyright 2015, Yahoo! Inc.\n * Copyrights licensed under the New BSD
License. See the accompanying LICENSE file for terms.\n *\nvar ReactIs = require('react-is');\nvar
REACT_STATICS = {\n childContextTypes: true,\n contextType: true,\n contextTypes: true,\n
defaultProps: true,\n displayName: true,\n getDefaultProps: true,\n getDerivedStateFromError: true,\n
getDerivedStateFromProps: true,\n mixins: true,\n propTypes: true,\n type: true\n};\n\nvar
KNOWN_STATICS = {\n name: true,\n length: true,\n prototype: true,\n caller: true,\n callee: true,\n
arguments: true,\n arity: true\n};\n\nvar FORWARD_REF_STATICS = {\n '$$typeof': true,\n render: true,\n
defaultProps: true,\n displayName: true,\n propTypes: true\n};\n\nvar MEMO_STATICS = {\n '$$typeof':
true,\n compare: true,\n defaultProps: true,\n displayName: true,\n propTypes: true,\n type: true\n};\n\nvar
TYPE_STATICS = {};\nTYPE_STATICS[ReactIs.ForwardRef] = FORWARD_REF_STATICS;\n\nfunction
getStatics(component) {\n if (ReactIs.isMemo(component)) {\n return MEMO_STATICS;\n }\n\n return
TYPE_STATICS[component['$$typeof']] || REACT_STATICS;\n }\n\nvar defineProperty =
Object.defineProperty;\nvar getOwnPropertyNames = Object.getOwnPropertyNames;\nvar
getOwnPropertySymbols = Object.getOwnPropertySymbols;\nvar getOwnPropertyDescriptor =
Object.getOwnPropertyDescriptor;\nvar getPrototypeOf = Object.getPrototypeOf;\nvar objectPrototype =
Object.prototype;\n\nfunction hoistNonReactStatics(targetComponent, sourceComponent, blacklist) {\n if (typeof
sourceComponent !== 'string') {\n // don't hoist over string (html) components\n\n if (objectPrototype) {\n
var inheritedComponent = getPrototypeOf(sourceComponent);\n if (inheritedComponent &&
inheritedComponent !== objectPrototype) {\n hoistNonReactStatics(targetComponent,
inheritedComponent, blacklist);\n }\n }\n\n var keys =
getOwnPropertyNames(sourceComponent);\n\n if (getOwnPropertySymbols) {\n keys =
keys.concat(getOwnPropertySymbols(sourceComponent));\n }\n\n var targetStatics =
getStatics(targetComponent);\n var sourceStatics = getStatics(sourceComponent);\n\n for (var i = 0; i <
keys.length; ++i) {\n var key = keys[i];\n if (!KNOWN_STATICS[key] && !(blacklist &&
blacklist[key]) && !(sourceStatics && sourceStatics[key]) && !(targetStatics && targetStatics[key])) {\n
var descriptor = getOwnPropertyDescriptor(sourceComponent, key);\n try {\n // Avoid failures
from read-only properties\n defineProperty(targetComponent, key, descriptor);\n } catch (e) {\n }\n }\n }\n\n return targetComponent;\n }\n\n return targetComponent;\n }\n\nmodule.exports =
hoistNonReactStatics;\n\n", "import _inheritsLoose from '@babel/runtime/helpers/esm/inheritsLoose';\nimport React
from 'react';\nimport PropTypes from 'prop-types';\nimport { createMemoryHistory, createLocation,
locationsAreEqual, createPath } from 'history';\nimport warning from 'tiny-warning';\nimport createContext from
'mini-create-react-context';\nimport invariant from 'tiny-invariant';\nimport _extends from
'@babel/runtime/helpers/esm/extends';\nimport pathToRegexp from 'path-to-regexp';\nimport { isValidElementType
} from 'react-is';\nimport _objectWithoutPropertiesLoose from
'@babel/runtime/helpers/esm/objectWithoutPropertiesLoose';\nimport hoistStatics from 'hoist-non-react-
statics';\n\n// TODO: Replace with React.createContext once we can assume React 16+\n\nvar createNamedContext
= function createNamedContext(name) {\n var context = createContext();\n context.displayName = name;\n return

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context;\n};\n\nvar historyContext = /*#__PURE__*/createNamedContext(\"Router-History\");\n\nvar context =  
/*#__PURE__*/createNamedContext(\"Router\");\n\n/**\n * The public API for putting history on context.\n */\n\nvar Router = /*#__PURE__*/function (_React$Component) {\n  _inheritsLoose(Router,  
  _React$Component);\n\n  Router.computeRootMatch = function computeRootMatch(pathname) {\n    return {\n      path: \"\", url: \"\", params: {}, isExact: pathname === \"\";\n    };\n  }\n\n  function Router(props) {\n    var _this;\n\n    _this = _React$Component.call(this, props) || this;\n    _this.state = {\n      location: props.history.location\n    }; // This is a bit of a hack. We have to start listening for location\n    // changes here in the constructor in case there are any <Redirect>s\n    // on the initial render. If there are, they will replace/push\n    // when\n    // they mount and since cDM fires in children before parents, we may\n    // get a new location before the <Router> is mounted.\n\n    _this._isMounted = false;\n    _this._pendingLocation = null;\n\n    if (!props.staticContext) {\n      _this.unlisten = props.history.listen(function (location) {\n        if (_this._isMounted) {\n          _this.setState({\n            location: location\n          });\n        } else {\n          _this._pendingLocation = location;\n        }\n      });\n\n      return _this;\n    }\n\n    var _proto = Router.prototype;\n\n    _proto.componentDidMount = function componentDidMount() {\n      this._isMounted = true;\n\n      if (this._pendingLocation) {\n        this.setState({\n          location: this._pendingLocation\n        });\n      }\n    }\n\n    _proto.componentWillUnmount = function componentWillUnmount() {\n      if (this.unlisten) {\n        this.unlisten();\n\n        this._isMounted = false;\n        this._pendingLocation = null;\n      }\n\n      _proto.render = function render() {\n        return /*#__PURE__*/React.createElement(context.Provider, {\n          value: {\n            history: this.props.history,\n            location: this.state.location,\n            match: Router.computeRootMatch(this.state.location.pathname),\n            staticContext: this.props.staticContext\n          }\n        }, /*#__PURE__*/React.createElement(historyContext.Provider, {\n          children: this.props.children || null,\n          value: this.props.history\n        }));\n      }\n\n      Router.prototype.unlisten = function unlisten() {\n        if (process.env.NODE_ENV !== \"production\") {\n          Router.propTypes = {\n            children: PropTypes.node,\n            history: PropTypes.object.isRequired,\n            staticContext: PropTypes.object\n          };\n\n          Router.prototype.componentDidUpdate = function (prevProps) {\n            process.env.NODE_ENV !== \"production\" ?\n            warning(prevProps.history === this.props.history, \"You cannot change <Router history>\") : void 0;\n          };\n\n          /**\n           * The public API for a <Router> that stores location in memory.\n           */\n\n          var MemoryRouter = /*#__PURE__*/function (_React$Component) {\n            _inheritsLoose(MemoryRouter, _React$Component);\n\n            function MemoryRouter() {\n              var _this;\n\n              for (var _len = arguments.length, args = new Array(_len), _key = 0; _key < _len; _key++) {\n                args[_key] = arguments[_key];\n              }\n\n              _this = _React$Component.call.apply(_React$Component, [this].concat(args)) || this;\n\n              _this.history = createMemoryHistory(_this.props);\n\n              return _this;\n            }\n\n            var _proto = MemoryRouter.prototype;\n\n            _proto.render = function render() {\n              return /*#__PURE__*/React.createElement(Router, {\n                history: this.history,\n                children: this.props.children\n              });\n            }\n\n            return MemoryRouter;\n          }(React.Component);\n\n          if (process.env.NODE_ENV !== \"production\") {\n            MemoryRouter.propTypes = {\n              initialEntries: PropTypes.array,\n              initialIndex: PropTypes.number,\n              getUserConfirmation: PropTypes.func,\n              keyLength: PropTypes.number,\n              children: PropTypes.node\n            };\n\n            MemoryRouter.prototype.componentDidMount = function () {\n              process.env.NODE_ENV !== \"production\" ?\n              warning(!this.props.history, \"<MemoryRouter> ignores the history prop. To use a custom history, \\\" + \\\"use `import { Router }` instead of `import { MemoryRouter as Router }`.\\\") : void 0;\n            };\n\n            var Lifecycle = /*#__PURE__*/function (_React$Component) {\n              _inheritsLoose(Lifecycle, _React$Component);\n\n              function Lifecycle() {\n                return _React$Component.apply(this, arguments) || this;\n              }\n\n              var _proto = Lifecycle.prototype;\n\n              _proto.componentDidMount = function componentDidMount() {\n                if (this.props.onMount) {\n                  this.props.onMount.call(this, this);\n                }\n              }\n\n              _proto.componentDidUpdate = function componentDidUpdate(prevProps) {\n                if (this.props.onUpdate) {\n                  this.props.onUpdate.call(this, this, prevProps);\n                }\n              }\n\n              _proto.componentWillUnmount = function componentWillUnmount() {\n                if (this.props.onUnmount) {\n                  this.props.onUnmount.call(this, this);\n                }\n              }\n\n              _proto.render = function render() {\n                return null;\n              }\n\n              return Lifecycle;\n            }(React.Component);\n\n            /**\n             * The public API for prompting the user before navigating away from a screen.\n             */\n\n            function Prompt(_ref) {\n              var message = _ref.message,\n                  _ref$when = _ref.when,\n                  when = _ref$when === void 0 ? true : _ref$when;\n            }

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return /##__PURE__*/React.createElement(context.Consumer, null, function (context) {\n  !context ?
process.env.NODE_ENV !== "production" ? invariant(false, "You should not use <Prompt> outside a
<Router>") : invariant(false) : void 0;\n  if (!when || context.staticContext) return null;\n  var method =
context.history.block;\n  return /##__PURE__*/React.createElement(Lifecycle, {\n    onMount: function
onMount(self) {\n      self.release = method(message);\n    },\n    onUpdate: function onUpdate(self, prevProps)
{\n      if (prevProps.message !== message) {\n        self.release();\n        self.release = method(message);\n
      }\n    },\n    onUnmount: function onUnmount(self) {\n      self.release();\n    },\n    message: message\n  });\n
});\n\nif (process.env.NODE_ENV !== "production") {\n  var messageType =
PropTypes.oneOfType([PropTypes.func, PropTypes.string]);\n  Prompt.propTypes = {\n    when: PropTypes.bool,\n
    message: messageType.isRequired\n  };}\n\nvar cache = {};\nvar cacheLimit = 10000;\nvar cacheCount =
0;\n\nfunction compilePath(path) {\n  if (cache[path]) return cache[path];\n  var generator =
pathToRegexp.compile(path);\n  if (cacheCount < cacheLimit) {\n    cache[path] = generator;\n
cacheCount++;\n  }\n  return generator;\n}\n\n/**\n * Public API for generating a URL pathname from a path and
parameters.\n */\n\nfunction generatePath(path, params) {\n  if (path === void 0) {\n    path = "";\n  }\n  if
(params === void 0) {\n    params = {};\n  }\n  return path === "" ? path : compilePath(path)(params, {\n
pretty: true\n});\n}\n\n/**\n * The public API for navigating programmatically with a component.\n */\n\nfunction
Redirect(_ref) {\n  var computedMatch = _ref.computedMatch,\n    to = _ref.to,\n    _ref$push = _ref.push,\n
push = _ref$push === void 0 ? false : _ref$push;\n  return /##__PURE__*/React.createElement(context.Consumer,
null, function (context) {\n    !context ? process.env.NODE_ENV !== "production" ? invariant(false, "You should
not use <Redirect> outside a <Router>") : invariant(false) : void 0;\n    var history = context.history,\n
staticContext = context.staticContext;\n    var method = push ? history.push : history.replace;\n    var location =
createLocation(computedMatch ? typeof to === "string" ? generatePath(to, computedMatch.params) : _extends({},
to, {\n      pathname: generatePath(to.pathname, computedMatch.params)\n    }) : to); // When rendering in a static
context,\n    // set the new location immediately.\n\n    if (staticContext) {\n      method(location);\n      return null;\n
    }\n\n    return /##__PURE__*/React.createElement(Lifecycle, {\n      onMount: function onMount() {\n
method(location);\n      },\n      onUpdate: function onUpdate(self, prevProps) {\n        var prevLocation =
createLocation(prevProps.to);\n        if (!locationsAreEqual(prevLocation, _extends({}, location, {\n          key:
prevLocation.key\n        }))) {\n          method(location);\n        }\n      },\n      to: to\n    });\n  });\n\nif
(process.env.NODE_ENV !== "production") {\n    Redirect.propTypes = {\n      push: PropTypes.bool,\n      from:
PropTypes.string,\n      to: PropTypes.oneOfType([PropTypes.string, PropTypes.object]).isRequired\n    };}\n\nvar
cache$1 = {};\nvar cacheLimit$1 = 10000;\nvar cacheCount$1 = 0;\n\nfunction compilePath$1(path, options) {\n
var cacheKey = "" + options.end + options.strict + options.sensitive;\n  var pathCache = cache$1[cacheKey] ||
(cache$1[cacheKey] = {});\n  if (pathCache[path]) return pathCache[path];\n  var keys = [];\n  var regexp =
pathToRegexp(path, keys, options);\n  var result = {\n    regexp: regexp,\n    keys: keys\n  };}\n  if (cacheCount$1 <
cacheLimit$1) {\n    pathCache[path] = result;\n    cacheCount$1++;\n  }\n  return result;\n}\n\n/**\n * Public API
for matching a URL pathname to a path.\n */\n\nfunction matchPath(pathname, options) {\n  if (options === void
0) {\n    options = {};\n  }\n  if (typeof options === "string" || Array.isArray(options)) {\n    options = {\n
path: options\n  };}\n  var _options = options,\n    path = _options.path,\n    _options$exact =
_options.exact,\n    exact = _options$exact === void 0 ? false : _options$exact,\n    _options$strict =
_options.strict,\n    strict = _options$strict === void 0 ? false : _options$strict,\n    _options$sensitive =
_options.sensitive,\n    sensitive = _options$sensitive === void 0 ? false : _options$sensitive;\n  var paths =
[].concat(path);\n  return paths.reduce(function (matched, path) {\n    if (!path && path !== "") return null;\n    if
(matched) return matched;\n\n    var _compilePath = compilePath$1(path, {\n      end: exact,\n      strict: strict,\n
sensitive: sensitive\n    }),\n    regexp = _compilePath.regexp,\n    keys = _compilePath.keys;\n\n    var match =
regexp.exec(pathname);\n    if (!match) return null;\n    var url = match[0],\n      values = match.slice(1);\n    var
isExact = pathname === url;\n    if (exact && !isExact) return null;\n    return {\n      path: path,\n      // the path used
to match\n      url: path === "" ? "" : url,\n      // the matched portion of the URL\n      isExact:
isExact,\n      // whether or not we matched exactly\n      params: keys.reduce(function (memo, key, index) {\n

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memo[key.name] = values[index];\n    return memo;\n    }, { })\n    };\n    }, null);\n}\n\nfunction
isEmptyChildren(children) {\n    return React.Children.count(children) === 0;\n}\n\nfunction
evalChildrenDev(children, props, path) {\n    var value = children(props);\n    process.env.NODE_ENV !==
\"production\" ? warning(value !== undefined, \"You returned `undefined` from the `children` function of \" +
(\"<Route\" + (path ? \" path=\\\"\" + path + \"\\\"\" : \"\") + \">, but you \" + \"should have returned a React element
or `null`\")) : void 0;\n    return value || null;\n}\n\n/*\n * The public API for matching a single path and rendering.\n
*/\n\nnvar Route = /*#__PURE__*/function (_React$Component) {\n    __inheritsLoose(Route,
    _React$Component);\n\n    function Route() {\n        return _React$Component.apply(this, arguments) || this;\n    }\n\n    var _proto = Route.prototype;\n\n    _proto.render = function render() {\n        var _this = this;\n        return
        /*#__PURE__*/React.createElement(context.Consumer, null, function (context$1) {\n            !context$1 ?
            process.env.NODE_ENV !== \"production\" ? invariant(false, \"You should not use <Route> outside a <Router>\")
            : invariant(false) : void 0;\n            var location = _this.props.location || context$1.location;\n            var match =
            _this.props.computedMatch ? _this.props.computedMatch // <Switch> already computed the match for us\n            :
            _this.props.path ? matchPath(location.pathname, _this.props) : context$1.match;\n\n            var props = _extends({},
            context$1, {\n                location: location,\n                match: match\n            });\n\n            var _this$props = _this.props,\n                children = _this$props.children,\n                component = _this$props.component,\n                render = _this$props.render; //
            Preact uses an empty array as children by\n            // default, so use null if that's the case.\n\n            if
            (Array.isArray(children) && isEmptyChildren(children)) {\n                children = null;\n            }\n\n            return
            /*#__PURE__*/React.createElement(context.Provider, {\n                value: props\n            }, props.match ? children ? typeof
            children === \"function\" ? process.env.NODE_ENV !== \"production\" ? evalChildrenDev(children, props,
            _this.props.path) : children(props) : children : component ? /*#__PURE__*/React.createElement(component, props)
            : render ? render(props) : null : typeof children === \"function\" ? process.env.NODE_ENV !== \"production\" ?
            evalChildrenDev(children, props, _this.props.path) : children(props) : null);\n        });\n    }\n\n    Route;\n})(React.Component);\n\nif (process.env.NODE_ENV !== \"production\") {\n    Route.propTypes = {\n        children: PropTypes.oneOfType([PropTypes.func, PropTypes.node]),\n        component: function component(props,
        propName) {\n            if (props[propName] && !isValidElementType(props[propName])) {\n                return new
                Error(\"Invalid prop 'component' supplied to 'Route': the prop is not a valid React component\");\n            }\n        },\n        exact: PropTypes.bool,\n        location: PropTypes.object,\n        path: PropTypes.oneOfType([PropTypes.string,
        PropTypes.arrayOf(PropTypes.string)]),\n        render: PropTypes.func,\n        sensitive: PropTypes.bool,\n        strict:
        PropTypes.bool\n    };\n\n    Route.prototype.componentDidMount = function () {\n        process.env.NODE_ENV !==
        \"production\" ? warning(!(this.props.children && !isEmptyChildren(this.props.children) &&
        this.props.component), \"You should not use <Route component> and <Route children> in the same route; <Route
        component> will be ignored\") : void 0;\n        process.env.NODE_ENV !== \"production\" ?
        warning(!(this.props.children && !isEmptyChildren(this.props.children) && this.props.render), \"You should not
        use <Route render> and <Route children> in the same route; <Route render> will be ignored\") : void 0;\n        process.env.NODE_ENV !== \"production\" ? warning(!(this.props.component && this.props.render), \"You should
        not use <Route component> and <Route render> in the same route; <Route render> will be ignored\") : void 0;\n    }\n\n    Route.prototype.componentDidUpdate = function (prevProps) {\n        process.env.NODE_ENV !==
        \"production\" ? warning(!(this.props.location && !prevProps.location), '<Route> elements should not change from
        uncontrolled to controlled (or vice versa). You initially used no \"location\" prop and then provided one on a
        subsequent render.') : void 0;\n        process.env.NODE_ENV !== \"production\" ? warning(!(this.props.location &&
        prevProps.location), '<Route> elements should not change from controlled to uncontrolled (or vice versa). You
        provided a \"location\" prop initially but omitted it on a subsequent render.') : void 0;\n    };\n}\n\nfunction
addLeadingSlash(path) {\n    return path.charAt(0) === \"^\" ? path : \"^\" + path;\n}\n\nfunction
addBaseline(basename, location) {\n    if (!basename) return location;\n    return _extends({}, location, {\n        pathname:
        addLeadingSlash(basename) + location.pathname\n    });\n}\n\nfunction stripBaseline(basename,
location) {\n    if (!basename) return location;\n    var base = addLeadingSlash(basename);\n    if
    (location.pathname.indexOf(base) !== 0) return location;\n    return _extends({}, location, {\n        pathname:

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location.pathname.substr(base.length)\n  });\n}\n\nfunction createURL(location) {\n  return typeof location ===
\'string\' ? location : createPath(location);\n}\n\nfunction staticHandler(methodName) {\n  return function () {\n
process.env.NODE_ENV !== \'production\' ? invariant(false, \'You cannot %s with <StaticRouter>\',
methodName) : invariant(false);\n  };\n}\n\nfunction noop() {} \n\n/**\n * The public top-level API for a \'static\'
<Router>, so-called because it\n * can\'t actually change the current location. Instead, it just records\n * location
changes in a context object. Useful mainly in testing and\n * server-rendering scenarios.\n */\n\nvar StaticRouter =
/*#__PURE__*/function (_React$Component) {\n  _inheritsLoose(StaticRouter, _React$Component);\n\n  function
StaticRouter() {\n    var _this;\n\n    for (var _len = arguments.length, args = new Array(_len), _key = 0; _key <
_len; _key++) {\n      args[_key] = arguments[_key];\n    }\n\n    _this =
_React$Component.call.apply(_React$Component, [this].concat(args)) || this;\n\n    _this.handlePush = function
(location) {\n      return _this.navigateTo(location, \'PUSH\');\n    };\n\n    _this.handleReplace = function (location)
{\n      return _this.navigateTo(location, \'REPLACE\');\n    };\n\n    _this.handleListen = function () {\n      return
noop;\n    };\n\n    _this.handleBlock = function () {\n      return noop;\n    };\n\n    return _this;\n  }\n\n  var _proto =
StaticRouter.prototype;\n\n  _proto.navigateTo = function navigateTo(location, action) {\n    var _this$props =
this.props,\n        _this$props$basename = _this$props.basename,\n        basename = _this$props$basename ===
void 0 ? \'\' : _this$props$basename,\n        _this$props$context = _this$props.context,\n        context =
_this$props$context === void 0 ? {} : _this$props$context;\n\n    context.action = action;\n    context.location =
addBasename(basename, createLocation(location));\n    context.url = createURL(context.location);\n  };\n\n  _proto.render = function render() {\n    var _this$props2 = this.props,\n        _this$props2$basename =
_this$props2.basename,\n        basename = _this$props2$basename === void 0 ? \'\' : _this$props2$basename,\n        _this$props2$context = _this$props2.context,\n        context = _this$props2$context === void 0 ? {} :
_this$props2$context,\n        _this$props2$location = _this$props2.location,\n        location = _this$props2$location
=== void 0 ? \'\' : _this$props2$location,\n        rest = _objectWithoutPropertiesLoose(_this$props2,
[\'basename\', \'context\', \'location\']);\n\n    var history = {\n      createHref: function createHref(path) {\n
return addLeadingSlash(basename + createURL(path));\n      },\n      action: \'POP\',\n      location:
stripBasename(basename, createLocation(location)),\n      push: this.handlePush,\n      replace: this.handleReplace,\n
      go: staticHandler(\'go\'),\n      goBack: staticHandler(\'goBack\'),\n      goForward:
staticHandler(\'goForward\'),\n      listen: this.handleListen,\n      block: this.handleBlock\n    };\n    return
/*#__PURE__*/React.createElement(Router, _extends({}, rest, {\n      history: history,\n      staticContext: context\n
}));\n  };\n\n  return StaticRouter;\n})(React.Component);\n\nif (process.env.NODE_ENV !== \'production\') {\n
StaticRouter.propTypes = {\n  basename: PropTypes.string,\n  context: PropTypes.object,\n  location:
PropTypes.oneOfType([PropTypes.string, PropTypes.object])\n};\n\nStaticRouter.prototype.componentDidMount = function () {\n  process.env.NODE_ENV !== \'production\' ?
warning(!this.props.history, \'<StaticRouter> ignores the history prop. To use a custom history, \' + \'use \'import {
Router }\' instead of \'import { StaticRouter as Router }\') : void 0;\n};\n}\n\n/**\n * The public API for rendering
the first <Route> that matches.\n */\n\nvar Switch = /*#__PURE__*/function (_React$Component) {\n  _inheritsLoose(Switch, _React$Component);\n\n  function
Switch() {\n    return _React$Component.apply(this, arguments) || this;\n  }\n\n  var _proto = Switch.prototype;\n\n  _proto.render = function render() {\n    var _this =
this;\n\n    return /*#__PURE__*/React.createElement(context.Consumer, null, function (context) {\n      !context ?
process.env.NODE_ENV !== \'production\' ? invariant(false, \'You should not use <Switch> outside a <Router>\') :
invariant(false) : void 0;\n      var location = _this.props.location || context.location;\n      var element, match; // We
use React.Children.forEach instead of React.Children.toArray().find()\n      // here because toArray adds keys to all
child elements and we do not want\n      // to trigger an unmount/remount for two <Route>s that render the same\n
// component at different URLs.\n      React.Children.forEach(_this.props.children, function (child) {\n        if
(match === null && /*#__PURE__*/React.isValidElement(child)) {\n          element = child;\n          var path =
child.props.path || child.props.from;\n          match = path ? matchPath(location.pathname, _extends({}, child.props,
{\n            path: path\n          })): context.match;\n        }\n      });\n      return match ?
/*#__PURE__*/React.cloneElement(element, {\n        location: location,\n        computedMatch: match\n      }) :

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```

null;\n  });\n  });\n\n  return Switch;\n})(React.Component);\n\nif (process.env.NODE_ENV !== \"production\") {\n  Switch.propTypes = {\n    children: PropTypes.node,\n    location: PropTypes.object\n  };\n\n  Switch.prototype.componentDidUpdate = function (prevProps) {\n    process.env.NODE_ENV !== \"production\" ?\n    warning(!(this.props.location && !prevProps.location), '<Switch> elements should not change from uncontrolled to controlled (or vice versa). You initially used no \"location\" prop and then provided one on a subsequent render.') :\n    void 0;\n    process.env.NODE_ENV !== \"production\" ? warning(!(this.props.location && prevProps.location),\n    '<Switch> elements should not change from controlled to uncontrolled (or vice versa). You provided a \"location\" prop initially but omitted it on a subsequent render.') : void 0;\n  };\n}\n\n/**\n * A public higher-order component\n to access the imperative API\n */\nfunction withRouter(Component) {\n  var displayName = \"withRouter(\" +\n  (Component.displayName || Component.name) + \")\";\n\n  var C = function C(props) {\n    var\n    wrappedComponentRef = props.wrappedComponentRef,\n    remainingProps =\n    _objectWithoutPropertiesLoose(props, [\"wrappedComponentRef\"]);\n\n    return\n    /*#__PURE__*/React.createElement(context.Consumer, null, function (context) {\n      !context ?\n      process.env.NODE_ENV !== \"production\" ? invariant(false, \"You should not use <\" + displayName + \"> outside a <Router>\") : invariant(false) : void 0;\n      return /*#__PURE__*/React.createElement(Component,\n      _extends({}, remainingProps, context, {\n        ref: wrappedComponentRef\n      }));\n    });\n  };\n\n  C.displayName = displayName;\n  C.WrappedComponent = Component;\n\n  if (process.env.NODE_ENV !==\n  \"production\") {\n    C.propTypes = {\n      wrappedComponentRef: PropTypes.oneOfType([PropTypes.string,\n      PropTypes.func, PropTypes.object])\n    };\n  }\n\n  return hoistStatics(C, Component);\n}\n\nvar useContext =\n  React.useContext;\nfunction useHistory() {\n  if (process.env.NODE_ENV !== \"production\") {\n    !(typeof\n    useContext === \"function\") ? process.env.NODE_ENV !== \"production\" ? invariant(false, \"You must use React\n    >= 16.8 in order to use useHistory()\") : invariant(false) : void 0;\n  }\n\n  return\n  useContext(historyContext);\n}\n\nfunction useLocation() {\n  if (process.env.NODE_ENV !== \"production\") {\n    !(typeof\n    useContext === \"function\") ? process.env.NODE_ENV !== \"production\" ? invariant(false, \"You must\n    use React >= 16.8 in order to use useLocation()\") : invariant(false) : void 0;\n  }\n\n  return\n  useContext(context).location;\n}\n\nfunction useParams() {\n  if (process.env.NODE_ENV !== \"production\") {\n    !(typeof\n    useContext === \"function\") ? process.env.NODE_ENV !== \"production\" ? invariant(false, \"You must\n    use React >= 16.8 in order to use useParams()\") : invariant(false) : void 0;\n  }\n\n  var match =\n  useContext(context).match;\n  return match ? match.params : {};\n}\n\nfunction useRouteMatch(path) {\n  if\n  (process.env.NODE_ENV !== \"production\") {\n    !(typeof\n    useContext === \"function\") ?\n    process.env.NODE_ENV !== \"production\" ? invariant(false, \"You must use React >= 16.8 in order to use\n    useRouteMatch()\") : invariant(false) : void 0;\n  }\n\n  var location = useLocation();\n  var match =\n  useContext(context).match;\n  return path ? matchPath(location.pathname, path) : match;\n}\n\nif\n  (process.env.NODE_ENV !== \"production\") {\n    if (typeof window !== \"undefined\") {\n      var global =\n      window;\n      var key = \"__react_router_build__\";\n      var buildNames = {\n        cjs: \"CommonJS\", \n        esm: \"ES\n        modules\", \n        umd: \"UMD\" \n      };\n      if (global[key] && global[key] !== \"esm\") {\n        var\n        initialBuildName = buildNames[global[key]];\n        var secondaryBuildName = buildNames[\"esm\"]; // TODO: Add\n        link to article that explains in detail how to avoid\n        // loading 2 different builds.\n        throw new Error(\"You\n        are loading the \" + secondaryBuildName + \" build of React Router \" + (\"on a page that is already running the \" +\n        initialBuildName + \" \" ) + \"build, so things won't work right.\");\n      }\n      global[key] = \"esm\";\n    }\n  }\n\n  export { MemoryRouter, Prompt, Redirect, Route, Router, StaticRouter, Switch, historyContext as\n  __HistoryContext, context as __RouterContext, generatePath, matchPath, useHistory, useLocation, useParams,\n  useRouteMatch, withRouter };\n\n  /** sourceMappingURL=react-router.js.map\n  */\n  import React from\n  \"react\";\n  import { Router } from \"react-router\";\n  import { createBrowserHistory as createHistory } from\n  \"history\";\n  import PropTypes from \"prop-types\";\n  import warning from \"tiny-warning\";\n\n  /**\n   * The public\n   API for a <Router> that uses HTML5 history.\n   */\n  class BrowserRouter extends React.Component {\n    history =\n    createHistory(this.props);\n\n    render() {\n      return <Router history={this.history} children={this.props.children}\n      />;\n    }\n  }\n\n  if (__DEV__) {\n    BrowserRouter.propTypes = {\n      basename: PropTypes.string,\n      children:

```



```

import React from "react";
import { __RouterContext as RouterContext,
matchPath } from "react-router";
import PropTypes from "prop-types";
import invariant from "tiny-invariant";
import Link from "../Link.js";
import { resolveToLocation, normalizeToLocation } from
"/utils/locationUtils.js";
// React 15 compat
const forwardRefShim = C => C;
let { forwardRef } = React;
if (typeof forwardRef === "undefined") {
  forwardRef = forwardRefShim;
}

function
joinClassnames(...classnames) {
  return classnames.filter(i => i).join(" ");
}

// A <Link> wrapper that
knows if it's "active" or not.
const NavLink = forwardRef((props, {
  "aria-current": ariaCurrent =
"page",
  activeClassName = "active", // TODO: deprecate
  activeStyle, // TODO: deprecate
  className: classNameProp,
  exact,
  isActive: isActiveProp,
  location: locationProp,
  sensitive,
  strict,
  style: styleProp,
  to,
  innerRef, // TODO: deprecate
  ...rest }, forwardedRef) => {
  return (
    <RouterContext.Consumer>
      { context => {
        invariant(context, "You should not use
<NavLink> outside a <Router>");

        const currentLocation = locationProp || context.location;
        const toLocation = normalizeToLocation(
          resolveToLocation(to, currentLocation),
          currentLocation
        );

        const { pathname: path } = toLocation;
        // Regex taken from: https://github.com/pillarjs/path-to-
        regexp/blob/master/index.js#L202
        const escapedPath = path &&
        path.replace(/([+?*=\^!:$]{0,1}\/)/g, "\\$1");

        const match = escapedPath
          ?
        matchPath(currentLocation.pathname, {
          path: escapedPath,
          exact,
          sensitive,
          strict
        }) : null;

        const isActive = !(!isActiveProp || isActiveProp(match,
currentLocation)) : match);

        let className =
          typeof classNameProp === "function"
            ? classNameProp(isActive) : classNameProp;

        let style =
          typeof styleProp ===
"function" ? styleProp(isActive) : styleProp;

        if (isActive) {
          className =
            joinClassnames(className, activeClassName);

          style = { ...style, ...activeStyle };
        }

        const props = {
          "aria-current": (isActive && ariaCurrent) || null,
          className,
          style,
          to:
toLocation,
          ...rest
        };

        // React 15 compat
        if (forwardRefShim !== forwardRef) {
          props.ref = forwardedRef || innerRef;
        } else {
          props.innerRef = innerRef;
        }

        return <Link {...props} />
      }
    ) </RouterContext.Consumer>
  );
}

if (__DEV__) {
  NavLink.displayName = "NavLink";

  const ariaCurrentType = PropTypes.oneOf(["page", "step", "location", "date", "time", "true", "false"]);

  NavLink.propTypes = {
    ...Link.propTypes,
    "aria-current": ariaCurrentType,
    activeClassName: PropTypes.string,
    activeStyle:
PropTypes.object,
    className: PropTypes.oneOfType([PropTypes.string, PropTypes.func]),
    exact:
PropTypes.bool,
    isActive: PropTypes.func,
    location: PropTypes.object,
    sensitive: PropTypes.bool,
    strict: PropTypes.bool,
    style: PropTypes.oneOfType([PropTypes.object, PropTypes.func])
  };
}

export
default
NavLink;

], "names": ["setPrototypeOf", "require$$1", "ReactPropTypesSecret", "require$$0", "has", "printWarning", "ReactIs", "assign", "checkPropTypes", "Component", "PropTypes", "React", "getOwnPropertySymbols", "createNamedContext", "context", "createContext", "BrowserRouter", "history", "createHistory", "props", "render", "children", "propTypes", "basename", "string", "node", "forceRefresh", "bool", "getUserConfirmation", "func", "keyLength", "number", "prototype", "componentDidMount", "warning", "HashRouter", "hashType", "oneOf", "resolveToLocation", "to", "currentLocation", "normalizeToLocation", "createLocation", "forwardRefShim", "C", "forwardRef", "isModifiedEvent", "event", "metaKey", "altKey", "ctrlKey", "shiftKey", "LinkAnchor", "forwardedRef", "innerRef", "navigate", "onClick", "rest", "target", "ex", "preventDefault", "defaultPrevented", "button", "ref", "displayName", "Link", "component", "replace", "RouterContext", "invariant", "location", "href", "createHref", "isDuplicateNavigation", "createPath", "method", "push", "createElement", "toType", "oneOfType", "object", "refType", "shape", "current", "any", "isRequired", "joinClassnames", "classnames", "filter", "i", "join", "NavLink", "ariaCurrent", "activeClassName", "activeStyle", "classNameProp", "className", "exact", "isActiveProp", "isActive", "locationProp", "sensitive", "strict", "styleProp", "style", "toLocation", "path", "pathname", "escapedPath", "match", "matchPath", "ariaCurrentType"], "mappings": ";;;;;;;;;EAAe,SAAS,eAAe,CAAC,CAAC,EAAE,CAAC,EAAE;EAC9C,EAAE,eAAe,GAAG,MAAM,CAAC,cAAc,IAAI,SAAS,eAAe,CAAC,CAAC,EAAE,CAAC,EAAE;EAC5E,IAAI,CAAC,CAAC,SAAS,GAAG,CAAC,CAAC;EACpB,IAAI,OAAO,CAAC,CAAC;EACb,G

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AG,CAAC;;EAEpC,EAAE,IAAI,gBAAGB,GAAG,KAAK,CAAC,CAAC;EACbC,EAAE,IAAI,SAAS,CAAC,MAAM,EAAE;EACxB,IAAI,IAAI,IAAI,GAAG,SAAS,CAAC,SAAS,CAAC,MAAM,GAAG,CAAC,CAAC,CAAC;EAC/C,IAAI,gBAAGB,GAAG,IAAI,KAAK,GAAG,IAAI,IAAI,KAAK,IAAI,IAAI,IAAI,KAAK,EAAE,CAAC;EACpE,GAAG,MAAM;EACT,IAAI,gBAAGB,GAAG,KAAK,CAAC;EAC7B,GAAG;;EAEH,EAAE,IAAI,EAAE,GAAG,CAAC,CAAC;EACb,EAAE,KAAK,IAAI,CAAC,GAAG,SAAS,CAAC,MAAM,EAAE,CAAC,IAAI,CAAC,EAAE,CAAC,EAAE,EAAE;EAC9C,IAAI,IAAI,IAAI,GAAG,SAAS,CAAC,CAAC,CAAC,CAAC;;EAE5B,IAAI,IAAI,IAAI,KAAK,GAAG,EAAE;EACtB,MAAM,SAAS,CAAC,SAAS,EAAE,CAAC,CAAC,CAAC;EAC9B,KAAK,MAAM,IAAI,IAAI,KAAK,IAAI,EAAE;EAC9B,MAAM,SAAS,CAAC,SAAS,EAAE,CAAC,CAAC,CAAC;EAC9B,MAAM,EAAE,EAAE,CAAC;EACX,KAAK,MAAM,IAAI,EAAE,EAAE;EACnB,MAAM,SAAS,CAAC,SAAS,EAAE,CAAC,CAAC,CAAC;EAC9B,MAAM,EAAE,EAAE,CAAC;EACX,KAAK;EACL,GAAG;;EAEH,EAAE,IAAI,CAAC,UAAU,EAAE,OAAO,EAAE,EAAE,EAAE,EAAE,EAAE;EACpC,IAAI,SAAS,CAAC,OAAO,CAAC,IAAI,CAAC,CAAC;EAC5B,GAAG,IAAI,UAAU,IAAI,SAAS,CAAC,CAAC,CAAC,KAAK,EAAE,KAAK,CAAC,SAAS,CAAC,CAAC,CAAC,IAAI,CAAC,UAAU,CAAC,SAAS,CAAC,CAAC,CAAC,CAAC,CAAC,EAAE,SAAS,CAAC,OAAO,CAAC,EAAE,CAAC,CAAC;;EAEhH,EAAE,IAAI,MAAM,GAAG,SAAS,CAAC,IAAI,CAAC,GAAG,CAAC,CAAC;;EAEEnC,EAAE,IAAI,gBAAGB,IAAI,MAAM,CAAC,MAAM,CAAC,CAAC,CAAC,CAAC,KAAK,GAAG,EAAE,MAAM,IAAI,GAAG,CAAC;;EAEEnE,EAAE,OAAO,MAAM,CAAC;EACbB,CAAC;;ECnED,IAAI,OAAO,GAAG,OAAO,MAAM,KAAK,UAAU,IAAI,OAAO,MAAM,CAAC,QAAQ,KAAK,QAAQ,GAAG,UAAU,GAAG,EAAE,EAAE,OAAO,OAAO,GAAG,CAAC,EAAE,GAAG,UAAU,GAAG,EAAE,EAAE,OAAO,GAAG,IAAI,OAAO,MAAM,KAAK,UAAU,IAAI,GAAG,CAAC,WAAW,KAAK,MAAM,IAAI,GAAG,KAAK,MAAM,CAAC,SAAS,GAAG,QAAQ,GAAG,OAAO,GAAG,CAAC,EAAE,CAAC;;EAE7Q,SAAS,UAAU,CAAC,CAAC,EAAE,CAAC,EAAE;EAC1B,EAAE,IAAI,CAAC,KAAK,CAAC,EAAE,OAAO,IAAI,CAAC;;EAE3B,EAAE,IAAI,CAAC,IAAI,IAAI,IAAI,CAAC,IAAI,IAAI,EAAE,OAAO,KAAK,CAAC;;EAE3C,EAAE,IAAI,KAAK,CAAC,OAAO,CAAC,CAAC,CAAC,EAAE;EACxB,IAAI,OAAO,KAAK,CAAC,OAAO,CAAC,CAAC,CAAC,IAAI,CAAC,CAAC,MAAM,KAAK,CAAC,CAAC,MAAM,IAAI,CAAC,CAAC,KAAK,CAAC,UAAU,IAAI,EAAE,KAAK,EAAE;EACvF,MAAM,OAAO,UAAU,CAAC,IAAI,EAAE,CAAC,CAAC,KAAK,CAAC,CAAC,CAAC;EACxC,KAAK,CAAC,CAAC;EACP,GAAG;;EAEH,EAAE,IAAI,KAAK,GAAG,OAAO,CAAC,KAAK,WAAW,GAAG,WAAW,GAAG,OAAO,CAAC,CAAC,CAAC,CAAC;EACIE,EAAE,IAAI,KAAK,GAAG,OAAO,CAAC,KAAK,WAAW,GAAG,WAAW,GAAG,OAAO,CAAC,CAAC,CAAC,CAAC;;EAEIE,EAAE,IAAI,KAAK,KAAK,KAAK,EAAE,OAAO,KAAK,CAAC;;EAEpC,EAAE,IAAI,KAAK,KAAK,QAAQ,EAAE;EAC1B,IAAI,IAAI,MAAM,GAAG,CAAC,CAAC,OAAO,EAAE,CAAC;EAC7B,IAAI,IAAI,MAAM,GAAG,CAAC,CAAC,OAAO,EAAE,CAAC;;EAE7B,IAAI,IAAI,MAAM,KAAK,CAAC,IAAI,MAAM,KAAK,CAAC,EAAE,OAAO,UAAU,CAAC,MAAM,EAAE,MAAM,CAAC,CAAC;;EAExE,IAAI,IAAI,KAAK,GAAG,MAAM,CAAC,IAAI,CAAC,CAAC,CAAC,CAAC;EAC/B,IAAI,IAAI,KAAK,GAAG,MAAM,CAAC,IAAI,CAAC,CAAC,CAAC,CAAC;EAE/B,IAAI,IAAI,KAAK,CAAC,MAAM,KAAK,KAAK,CAAC,MAAM,EAAE,OAAO,KAAK,CAAC;;EAEpD,IAAI,OAAO,KAAK,CAAC,KAAK,CAAC,UAAU,GAAG,EAAE;EACtC,MAAM,OAAO,UAAU,CAAC,CAAC,CAAC,GAAG,CAAC,EAAE,CAAC,CAAC,GAAG,CAAC,CAAC,CAAC;EACxC,KAAK,CAAC,CAAC;EACP,GAAG;;EAEH,EAAE,OAAO,KAAK,CAAC;EACf,CAAC;;ECICD,SAAS,OAAO,CAAC,SAAS,EAAE,OAAO,EAAE;EACrC,EAAE,AAAmB;EACrB,IAAI,IAAI,SAAS,EAAE;EACnB,MAAM,OAAO;EACb,KAAK;;EAEI,IAAI,IAAI,IAAI,GAAG,WAAW,GAAG,OAAO,CAAC;;EAErC,IAAI,IAAI,OAAO,OAAO,KAAK,WAAW,EAAE;EACxC,MAAM,OAAO,CAAC,IAAI,CAAC,IAAI,CAAC,CAAC;EACzB,KAAK;;EAEI,IAAI,IAAI;EACR,MAAM,MAAM,KAAK,CAAC,IAAI,CAAC,CAAC;EACxB,KAAK,CAAC,OAAO,CAAC,EAAE,EAAE;EACIB,GAAG;EACH,CAAC;;EChBD,IAAI,MAAM,GAAG,kBAaKB,CAAC;EACbC,SAAS,SAAS,CAAC,SAAS,EAAE,OAAO,EAAE;EACvC,EAAE,IAAI,SAAS,EAAE;EACjB,IAAI,OAAO;EACX,GAAG;;EAEH,EAAE,AAEO;EACT,IAAI,MAAM,IAAI,KAAK,CAAC,MAAM,GAAG,IAAI,IAAI,OAAO,IAAI,EAAE,CAAC,CAAC,CAAC;EACrD,GAAG;EACH,CAAC;;ECND,SAAS,eAAe,CAAC,IAAI,EAAE;EAC/B,EAAE,OAAO,IAAI,CAAC,MAAM,CAAC,CAAC,CAAC,KAAK,GAAG,GAAG,IAAI,GAAG,GAAG,GAAG,IAAI,CAAC;EACpD,CAAC;EACD,SAAS,iBAaIB,CAAC,IAAI,EAAE;EACjC,EAAE,OAAO,IAAI,CAAC,MAAM,CAAC,CAAC,CAAC,KAAK,GAAG,GAAG,IAAI,CAAC,MAAM,CAAC,CAAC,CAAC,GAAG,IAAI,CAAC;EACxD,CAAC;EACD,SAAS,WAAW,CAAC,IAAI,EAAE,MAAM,EAAE

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,MAAM,CAAC,eAAe,GAAG,SAAS,eAAe,GAAG;EACxD,MAAM,IAAI,IAAI,CAAC;;EAEf,MAAM,OAAO,IAAI,GAAG,EAAE,EAAE,IAAI,CAAC,WAAW,CAAC,GAAG,IAAI,CAAC,OAAO,EAAE,IAAI,CAAC;EAC/D,KAAK,CAAC;;EAEN,IAAI,MAAM,CAAC,yBAAyB,GAAG,SAAS,yBAAyB,CAAC,SAAS,EAAE;EACrF,MAAM,IAAI,IAAI,CAAC,KAAK,CAAC,KAAK,KAAK,SAAS,CAAC,KAAK,EAAE;EAChD,QAAQ,IAAI,QAAQ,GAAG,IAAI,CAAC,KAAK,CAAC,KAAK,CAAC;EACxC,QAAQ,IAAI,QAAQ,GAAG,SAAS,CAAC,KAAK,CAAC;EACvC,QAAQ,IAAI,WAAW,CAAC;;EAExB,QAAQ,IAAI,QAAQ,CAAC,QAAQ,EAAE,QAAQ,CAAC,EAAE;EACiC,UAAU,WAAW,GAAG,CAAC,CAAC;EACiB,SAAS,MAAM;EACf,UAAU,WAAW,GAAG,OAAO,oBAAoB,KAAK,UAAU,GAAG,oBAAoB,CAAC,QAAQ,EAAE,QAAQ,CAAC,GAAG,qBAAqB,CAAC;;EAEtI,UAAU,AA2C;EACrD,YAAY,OAAO,CAAC,CAAC,WAAW,GAAG,qBAAqB,MAAM,WAAW,EAAE,0DAA0D,GAAG,oCAAoC,GAAG,WAAW,CAAC,CAAC;EAC5L,WAAW;;EAEX,UAAU,WAAW,IAAI,CAAC,CAAC;;EAE3B,UAAU,IAAI,WAAW,KAAK,CAAC,EAAE;EACjC,YAAY,IAAI,CAAC,OAAO,CAAC,GAAG,CAAC,SAAS,CAAC,KAAK,EAAE,WAAW,CAAC,CAAC;EAC3D,WAAW;EACX,SAAS;EACT,OAAO;EACP,KAAK,CAAC;;EAEEN,IAAI,MAAM,CAAC,MAAM,GAAG,SAAS,MAAM,GAAG;EACtC,MAAM,OAAO,IAAI,CAAC,KAAK,CAAC,QAAQ,CAAC;EACjC,KAAK,CAAC;;EAEN,IAAI,OAAO,QAAQ,CAAC;EACpB,GAAG,CAACQ,eAAS,CAAC,CAAC;;EAEf,EAAE,QAAQ,CAAC,iBAAiB,IAAI,qBAAqB,GAAG,EAAE,EAAE,qBAAqB,CAAC,WAAW,CAAC,GAAGC,SAAS,CAAC,MAAM,CAAC,UAAU,EAAE,qBAAqB,CAAC,CAAC;;EAErJ,EAAE,IAAI,QAAQ,gBAAgB,UAAU,WAAW,EAAE;EACrD,IAAI,cAAc,CAAC,QAAQ,EAAE,WAAW,CAAC,CAAC;;EAEiC,IAAI,SAAS,QAAQ,GAAG;EACxB,MAAM,IAAI,MAAM,CAAC;;EAEjB,MAAM,MAAM,GAAG,WAAW,CAAC,KAAK,CAAC,IAAI,EAAE,SAAS,CAAC,IAAI,IAAI,CAAC;EACiD,MAAM,MAAM,CAAC,KAAK,GAAG;EACrB,QAAQ,KAAK,EAAE,MAAM,CAAC,QAAQ,EAAE;EACbC,OAAO,CAAC;;EAER,MAAM,MAAM,CAAC,QAAQ,GAAG,UAAU,QAAQ,EAAE,WAAW,EAAE;EACzD,QAAQ,IAAI,YAAY,GAAG,MAAM,CAAC,YAAY,GAAG,CAAC,CAAC;;EAEnD,QAAQ,IAAI,CAAC,YAAY,GAAG,WAAW,MAAM,CAAC,EAAE;EACbD,UAAU,MAAM,CAAC,QAAQ,CAAC;EACiB,YAAY,KAAK,EAAE,MAAM,CAAC,QAAQ,EAAE;EACpC,WAAW,CAAC,CAAC;EACb,SAAS;EACT,OAAO,CAAC;;EAER,MAAM,OAAO,MAAM,CAAC;EACpB,KAAK;;EAEI,IAAI,IAAI,OAAO,GAAG,QAAQ,CAAC,SAAS,CAAC;;EAErC,IAAI,OAAO,CAAC,yBAAyB,GAAG,SAAS,yBAAyB,CAAC,SAAS,EAAE;EACtF,MAAM,IAAI,YAAY,GAAG,SAAS,CAAC,YAAY,CAAC;EACbD,MAAM,IAAI,CAAC,YAAY,GAAG,YAAY,KAAK,SAAS,IAAI,YAAY,KAAK,IAAI,GAAG,qBAAqB,GAAG,YAAY,CAAC;EACrH,KAAK,CAAC;;EAEN,IAAI,OAAO,CAAC,iBAAiB,GAAG,SAAS,iBAAiB,GAAG;EAC7D,MAAM,IAAI,IAAI,CAAC,OAAO,CAAC,WAAW,CAAC,EAAE;EACrC,QAAQ,IAAI,CAAC,OAAO,CAAC,WAAW,CAAC,CAAC,EAAE,CAAC,IAAI,CAAC,QAAQ,CAAC,CAAC;EACpD,OAAO;;EAEP,MAAM,IAAI,YAAY,GAAG,IAAI,CAAC,KAAK,CAAC,YAAY,CAAC;EACjD,MAAM,IAAI,CAAC,YAAY,GAAG,YAAY,KAAK,SAAS,IAAI,YAAY,KAAK,IAAI,GAAG,qBAAqB,GAAG,YAAY,CAAC;EACrH,KAAK,CAAC;;EAEN,IAAI,OAAO,CAAC,oBAAoB,GAAG,SAAS,oBAAoB,GAAG;EACnE,MAAM,IAAI,IAAI,CAAC,OAAO,CAAC,WAAW,CAAC,EAAE;EACrC,QAAQ,IAAI,CAAC,OAAO,CAAC,WAAW,CAAC,CAAC,GAAG,CAAC,IAAI,CAAC,QAAQ,CAAC,CAAC;EACrD,OAAO;EACP,KAAK,CAAC;;EAEN,IAAI,OAAO,CAAC,QAAQ,GAAG,SAAS,QAAQ,GAAG;EAC3C,MAAM,IAAI,IAAI,CAAC,OAAO,CAAC,WAAW,CAAC,EAAE;EACrC,QAAQ,OAAO,IAAI,CAAC,OAAO,CAAC,WAAW,CAAC,CAAC,GAAG,EAAE,CAAC;EAC/C,OAAO,MAAM;EACb,QAAQ,OAAO,YAAY,CAAC;EAC5B,OAAO;EACP,KAAK,CAAC;;EAEN,IAAI,OAAO,CAAC,MAAM,GAAG,SAAS,MAAM,GAAG;EACvC,MAAM,OAAO,SAAS,CAAC,IAAI,CAAC,KAAK,CAAC,QAAQ,CAAC,CAAC,IAAI,CAAC,KAAK,CAAC,KAAK,CAAC,CAAC;EAC9D,KAAK,CAAC;;EAEN,IAAI,OAAO,QAAQ,CAAC;EACpB,GAAG,CAACD,eAAS,CAAC,CAAC;;EAEf,EAAE,QAAQ,CAAC,YAAY,IAAI,qBAAqB,GAAG,EAAE,EAAE,qBAAqB,CAAC,WAAW,CAAC,GAAGC,SAAS,CAAC,MAAM,EAAE,qBAAqB,CAAC,CAAC;EACrI,EAAE,OAAO;EACT,IAAI,QAAQ,EAAE,QAAQ;EACtB,IAAI,QAAQ,EAAE,QAAQ;EACtB,GAAG,CAAC;EACJ,CAAC;;EAED,IAAI,KAAK,GAAGC,cAAK,CAAC,aAAa,IAAI,kBAaKB,CAAC;;EC7KtD,WAAc,GAAG,KAAK,CAAC,OAAO,IAAI,UAAU,GAAG,EAAE;IAC/C,OAAO,MAAM,CAAC,SAAS,CAAC,QAAQ,CAAC,IAAI,CAAC,GAAG,CAAC,IAAI,gBAAgB,CAAC;GACbE,CAAC;;ECAF;;EAGA,kBAaC,GAAG,aAAY;EAC7B,WAAoB,GAAG,MAAK;EAC5B,aAAsB,GAAG,QAAO;EACbC,sBAA+B,GAAG,iBAAgB;EACiD,oBAA6B,GAAG,eAAc;;EA09C,IAAI,WAAW,GAAG,IAAI,MAAM,CAAC;;IAG3B,SAAS;;IAOT,wGAaW;GACzG,CAAC,IAAI,CAAC,GAAG,CAAC,EAAE,GA

AG,EAAC;;;;;;;EASjB,SAAS,KAAK,EAAE,GAAG,EAAE,OAAO,EAAE;IAC5B,IAAI,MAAM,GAAG,GAAE;IACf,IAAI,GAAG,GAAG,EAAC;IACX,IAAI,KAAK,GAAG,EAAC;IACb,IAAI,IAAI,GAAG,GAAE;IACb,IAAI,gBAAgB,GAAG,OAAO,IAAI,OAAO,CAAC,SAAS,IAAI,IAAG;IAC1D,IAAI,IAAG;;IAEP,OAAO,CAAC,GAAG,GAAG,WAAW,CAAC,IAAI,CAAC,GAAG,CAAC,KAAK,IAAI,EAAE;MAC5C,IAAI,CAAC,GAAG,GAAG,CAAC,CAAC,EAAC;MACd,IAAI,OAAO,GAAG,GAAG,CAAC,CAAC,EAAC;MACpB,IAAI,MAAM,GAAG,GAA G,CAAC,MAAK;MACtB,IAAI,IAAI,GAAG,CAAC,KAAK,CAAC,KAAK,EAAE,MAAM,EAAC;MACHC,KAA K,GAAG,MAAM,GAAG,CAAC,CAAC,OAAM;;;MAGzB,IAAI,OAAO,EAAE;QACX,IAAI,IAAI,OAAO,CAAC,CAAC,EAAC;QACIB,QAAQ;OACT;;MAED,IAAI,IAAI,GAAG,GAAG,CAAC,KAAK,EAAC;MACrB,IAAI,MA AM,GAAG,GAAG,CAAC,CAAC,EAAC;MACnB,IAAI,IAAI,GAAG,GAAG,CAAC,CAAC,EAAC;MACjB,IAAI, OAAO,GAAG,GAAG,CAAC,CAAC,EAAC;MACpB,IAAI,KAAK,GAAG,GAAG,CAAC,CAAC,EAAC;MACIB, IAAI,QAAQ,GAAG,GAAG,CAAC,CAAC,EAAC;MACrB,IAAI,QAAQ,GAAG,GAAG,CAAC,CAAC,EAAC;;;M AGrB,IAAI,IAAI,EAAE;QACR,MAAM,CAAC,IAAI,CAAC,IAAI,EAAC;QACjB,IAAI,GAAG,GAAE;OACV;;M AED,IAAI,OAAO,GAAG,MAAM,IAAI,IAAI,IAAI,IAAI,IAAI,IAAI,IAAI,IAAI,KAAK,OAAM;MAC/D,IAAI,M AAM,GAAG,QAAQ,KAAK,GAAG,IAAI,QAAQ,KAAK,IAAG;MACjD,IAAI,QAAQ,GAAG,QAAQ,KAAK,GA AG,IAAI,QAAQ,KAAK,IAAG;MACnD,IAAI,SAAS,GAAG,GAAG,CAAC,CAAC,CAAC,IAAI,iBAAgB;MAC1 C,IAAI,OAAO,GAAG,OAAO,IAAI,MAAK;;MAE9B,MAAM,CAAC,IAAI,CAAC;QACV,IAAI,EAAE,IAAI,IAA I,GAAG,EAAE;QACnB,MAAM,EAAE,MAAM,IAAI,EAAE;QACpB,SAAS,EAAE,SAAS;QACpB,QAAQ,EAAE ,QAAQ;QACIB,MAAM,EAAE,MAAM;QACd,OAAO,EAAE,OAAO;QACb,QAAQ,EAAE,CAAC,CAAC,QAA Q;QACpB,OAAO,EAAE,OAAO,GAAG,WAAW,CAAC,OAAO,CAAC,IAAI,QAAQ,GAAG,IAAI,GAAG,IAAI, GAAG,YAAY,CAAC,SAAS,CAAC,GAAG,KAAK,CAAC;OACrG,EAAC;KACH;;;IAGD,IAAI,KAAK,GAAG,G AAG,CAAC,MAAM,EAAE;MACtB,IAAI,IAAI,GAAG,CAAC,MAAM,CAAC,KAAK,EAAC;KAC1B;;;IAGD,IA AI,IAAI,EAAE;MACR,MAAM,CAAC,IAAI,CAAC,IAAI,EAAC;KACIB;;IAED,OAAO,MAAM;GACd;;;;;;;EA SD,SAAS,OAAO,EAAE,GAAG,EAAE,OAAO,EAAE;IAC9B,OAAO,gBAAgB,CAAC,KAAK,CAAC,GAAG,EA AE,OAAO,CAAC,CAAC;GAC7C;;;;;;;EAQD,SAAS,wBAAwB,EAAE,GAAG,EAAE;IACtC,OAAO,SAAS,CAA C,GAAG,CAAC,CAAC,OAAO,CAAC,SAAS,EAAE,UAAU,CAAC,EAAE;MACpD,OAAO,GAAG,GAAG,CAA C,CAAC,UAAU,CAAC,CAAC,CAAC,CAAC,QAAQ,CAAC,EAAE,CAAC,CAAC,WAAW,EAAE;KACxD,CAA C;GACH;;;;;;;EAQD,SAAS,cAAc,EAAE,GAAG,EAAE;IAC5B,OAAO,SAAS,CAAC,GAAG,CAAC,CAAC,OA AO,CAAC,OAAO,EAAE,UAAU,CAAC,EAAE;MAC1D,OAAO,GAAG,GAAG,CAAC,CAAC,UAAU,CAAC,CA AC,CAAC,CAAC,QAAQ,CAAC,EAAE,CAAC,CAAC,WAAW,EAAE;KACxD,CAAC;GACH;;;;EAKD,SAAS,g BAAgB,EAAE,MAAM,EAAE;;IAEjC,IAAI,OAAO,GAAG,IAAI,KAAK,CAAC,MAAM,CAAC,MAAM,EAAC;; IAGtC,KAAK,IAAI,CAAC,GAAG,CAAC,EAAE,CAAC,GAAG,MAAM,CAAC,MAAM,EAAE,CAAC,EAAE,E AAE;MACtC,IAAI,OAAO,MAAM,CAAC,CAAC,CAAC,KAAK,QAAQ,EAAE;QACjC,OAAO,CAAC,CAAC,C AAC,GAAG,IAAI,MAAM,CAAC,MAAM,GAAG,MAAM,CAAC,CAAC,CAAC,CAAC,OAAO,GAAG,IAAI,EA AC;OAC3D;KACF;;IAED,OAAO,UAAU,GAAG,EAAE,IAAI,EAAE;MAC1B,IAAI,IAAI,GAAG,GAAE;MACb,I AAI,IAAI,GAAG,GAAG,IAAI,GAAE;MACpB,IAAI,OAAO,GAAG,IAAI,IAAI,GAAE;MACxB,IAAI,MAAM,G AAG,OAAO,CAAC,MAAM,GAAG,wBAAwB,GAAG,mBAAkB;;MAE3E,KAAK,IAAI,CAAC,GAAG,CAAC,E AAE,CAAC,GAAG,MAAM,CAAC,MAAM,EAAE,CAAC,EAAE,EAAE;QACtC,IAAI,KAAK,GAAG,MAAM,C AAC,CAAC,EAAC;;QAErB,IAAI,OAAO,KAAK,KAAK,QAAQ,EAAE;UAC7B,IAAI,IAAI,MAAK;;UAEb,QAA Q;SACT;;QAED,IAAI,KAAK,GAAG,IAAI,CAAC,KAAK,CAAC,IAAI,EAAC;QAC5B,IAAI,QAAO;;QAEX,IA AI,KAAK,IAAI,IAAI,EAAE;UACjB,IAAI,KAAK,CAAC,QAAQ,EAAE;;YAEIB,IAAI,KAAK,CAAC,OAAO,EA AE;cACjB,IAAI,IAAI,KAAK,CAAC,OAAM;aACrB;;YAED,QAAQ;WACT,MAAM;YACL,MAAM,IAAI,SAAS, CAAC,YAAY,GAAG,KAAK,CAAC,IAAI,GAAG,iBAAiB,CAAC;WACnE;SACF;;QAED,IAAI,OAAO,CAAC,K AAK,CAAC,EAAE;UACIB,IAAI,CAAC,KAAK,CAAC,MAAM,EAAE;YACjB,MAAM,IAAI,SAAS,CAAC,YA AY,GAAG,KAAK,CAAC,IAAI,GAAG,iCAAiC,GAAG,IAAI,CAAC,SAAS,CAAC,KAAK,CAAC,GAAG,GAAG ,CAAC;WACjH;;UAED,IAAI,KAAK,CAAC,MAAM,KAAK,CAAC,EAAE;YACtB,IAAI,KAAK,CAAC,QAAQ, EAAE;cACIB,QAAQ;aACT,MAAM;cACL,MAAM,IAAI,SAAS,CAAC,YAAY,GAAG,KAAK,CAAC,IAAI,GAA G,mBAAmB,CAAC;aACrE;WACF;;UAED,KAAK,IAAI,CAAC,GAAG,CAAC,EAAE,CAAC,GAAG,KAAK,CA AC,MAAM,EAAE,CAAC,EAAE,EAAE;YACrC,OAAO,GAAG,MAAM,CAAC,KAAK,CAAC,CAAC,CAAC,EA

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[illegible]

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Found in path(s):

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1.323 @nivo/core 0.72.0 0.72.0

1.323.1 Available under license :

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1.327 vfile-message 2.0.4 2.0.4

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1.328 follow-redirects 1.14.6 1.14.6

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1.331 ajv-keywords 3.5.2 3.5.2

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1.332 lodash.isboolean 3.0.3 3.0.3

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1.333 ultron 1.0.2 1.0.2

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1.334 object-keys 0.4.0 0.4.0

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1.336 har-validator 5.1.5 5.1.5

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1.338 mapbox-gl 1.11.1 1.11.1

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1.352 murmurhash-js 1.0.0 1.0.0

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1.353 mongodb 3.7.3 3.7.3

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1.355 tiny-emitter 2.1.0 2.1.0

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1.356 has-symbol-support-x 1.4.2 1.4.2

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1.357 source-map 0.6.1 0.6.1

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1.358 axios 0.24.0 0.24.0

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1.359 safe-buffer 5.1.2 5.1.2

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1.361 config 1.31.0 1.31.0

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1.362 object-assign 4.1.1 4.1.1

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1.363 remark-parse 9.0.0 9.0.0

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1.364 rxjs 7.5.4 7.5.4

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1.368 react-router-dom 4.3.1 4.3.1

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 *
 * @providesModule warning
 */
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 */
```

Found in path(s):

`/opt/ws_local/PERMITS_SQL/1022442855_1588680841.07/0/react-router-dom-4-3-1-tgz/package/umd/react-router-dom.js`

1.369 esutils 2.0.3 2.0.3

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1.370 socket.io-parser 4.0.4 4.0.4

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1.371 unist-util-is 4.1.0 4.1.0

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1.372 pako 1.0.11 1.0.11

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1.373 d3-path 2.0.0 2.0.0

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1.374 @react-spring/rafz 9.2.6 9.2.6

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1.375 json-schema-traverse 0.4.1 0.4.1

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1.376 from2 2.3.0 2.3.0

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1.377 verror 1.10.0 1.10.0

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1.379 sharkdown 0.1.1 0.1.1

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1.380 punycode 2.1.1 2.1.1

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1.381 string_decoder 0.10.31 0.10.31

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1.382 bootstrap 3.4.1 3.4.1

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1.384 brace-expansion 1.1.11 1.1.11

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1.385 bunyan-format 0.2.1 0.2.1

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1.386 isurl 1.0.0 1.0.0

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1.387 @mapbox/vector-tile 1.3.1 1.3.1

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1.388 buffer-shims 1.0.0 1.0.0

1.388.1 Available under license :

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1.389 string-template 1.0.0 1.0.0

1.389.1 Available under license :

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1.390 parseuri 0.0.6 0.0.6

1.390.1 Available under license :

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1.391 @mapbox/mapbox-gl-style-spec 13.16.0

13.16.0

1.391.1 Available under license :

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/querysting/decode.js","../../node_modules/querysting/encode.js","../../node_modules/querysting/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/defini
```


tions/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).\n\nvar stringOrChar = /(\\(?:[^\\"\\\\]|\\\\\\\\|\\\\\\")*)|\\/g;\n\nmodule.exports = function stringify(passedObj, options) {\n var indent, maxLength, replacer;\n\n options = options || {};\n indent = JSON.stringify([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 =\n options.replacer;\n\n return (function _stringify(obj, currentIndent, reserved) {\n // prettier-ignore\n var end,\n index,\n items,\n key,\n keyPart,\n keys,\n length,\n nextIndent,\n prettified,\n start,\n string,\n value;\n\n if (obj && typeof\n 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 if (prettified.length <= length) {\n return prettified;\n }\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;\n index++) {\n items.push(\n _stringify(obj[index], nextIndent, index === length - 1 ? 0 : 1)\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 =\n 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\n if (items.length > 0) {\n return [start, indent +\n items.join(',\\n' + nextIndent), end].join(\n '\\n' + currentIndent\n);\n }\n\n return string;\n }\n\n return (passedObj, '\\\\', 0);\n })('import reference from \\'./reference/latest.js\\';\nimport stringifyPretty from \\'json-stringify-pretty-compact\\';\nfunction sortKeysBy(obj, reference) {\n const result = {};\n for (const key in\n reference) {\n if (obj[key] !== undefined) {\n result[key] = obj[key];\n }\n }\n for (const key in\n obj) {\n if (result[key] === undefined) {\n result[key] = obj[key];\n }\n }\n return\n result;\n}\n\n * Format a Mapbox GL Style. Returns a stringified style with its keys\n * sorted in the same\n * 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\n * `space` is unspecified, a default of `2` spaces will be used.\n * @private\n * @param {Object} style a Mapbox\n * GL Style\n * @param {number} [space] space argument to pass to `JSON.stringify`\n * @returns {string}\n * 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',

[illegible]


```

will hold the number of code points in `input`. */
inputLength,
/** Cached calculation results */
handledCPCountPlusOne,
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));
}
handledCPCount = basicLength =
output.length;
// `handledCPCount` 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 (handledCPCount <
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
handledCPCountPlusOne =
handledCPCount + 1;
if (m - n > floor((maxInt - delta) / handledCPCountPlusOne))
{
error('overflow');
delta += (m - n) * handledCPCountPlusOne;
tn = m;
for (j = 0;
j < inputLength; ++j) {
currentValue = input[j];
if (currentValue < n && ++delta > maxInt)
{
error('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;
tbaseMinusT = base - t;
output.push(stringFromCharCode(digitToBasic(t +
qMinusT % baseMinusT, 0)));
tq = floor(qMinusT /
baseMinusT);
}
output.push(stringFromCharCode(digitToBasic(q, 0)));
bias =
adapt(delta, handledCPCountPlusOne, handledCPCount == basicLength);
delta =
0;
++handledCPCount;
}
}
++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 */
'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':
encode,
'toASCII': 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) {
    (function(define) {
      define('punycode', function() {
        return punycode;
      });
    }
    else if (freeExports && freeModule) {
      (function(module, exports) {
        module.exports = punycode;
      }
      // 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] =

```



```
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\\]+@[^\n\\]+/)) {\n   var slashes =\n 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 &&\n !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\n some host-ending character\n // comes *before* the @-sign.\n // URLs are obnoxious.\n   /\n // ex:\n //\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):\n 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;\n i++) {\n     var hec = rest.indexOf(hostEndingChars[i]);\n     if (hec !== -1 && (hostEnd === -1 || hec <\n hostEnd))\n       hostEnd = hec;\n   }\n\n   // at this point, either we have an explicit point where the\n   // auth\n portion cannot go past, or the last @ char is the decider.\n   var auth, atSign;\n   if (hostEnd === -1) {\n     // atSign\n can be anywhere.\n     atSign = rest.lastIndexOf('@');\n   } else {\n     // atSign must be in auth portion.\n     //\n http://a@b/c@d => host:b auth:a path:/c@d\n     atSign = rest.lastIndexOf('@', hostEnd);\n   }\n\n   // Now we\n have a portion which is definitely the auth.\n   // Pull that off.\n   if (atSign !== -1) {\n     auth = rest.slice(0,\n atSign);\n     rest = rest.slice(atSign + 1);\n     this.auth = decodeURIComponent(auth);\n   }\n\n   // the host is the\n 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\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   // 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\n address.\n   var ipv6Hostname = this.hostname[0] === '[' &&\n     this.hostname[this.hostname.length - 1] ===\n ']';\n\n   // validate a little.\n   if (!ipv6Hostname) {\n     var hostparts = this.hostname.split(/\\./);\n     for (var i = 0,\n l = hostparts.length; i < l; i++) {\n       var part = hostparts[i];\n       if (!part) continue;\n       if\n (!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\n         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 =\n '/' + notHost.join('.') + rest;\n           }\n           this.hostname = validParts.join('.');\n           break;\n         }\n       }\n     }\n   }\n\n   if (this.hostname.length > hostnameMaxLen) {\n     this.hostname = '';\n   } else {\n     // hostnames\n are always lower case.\n     this.hostname = this.hostname.toLowerCase();\n   }\n\n   if (!ipv6Hostname) {\n     //\n IDNA Support: Returns a punycoded representation of "domain".\n     // It only converts parts of the domain name\n that\n     // have non-ASCII characters, i.e. it doesn't matter if\n     // you call it with a domain that already is\n ASCII-only.\n     this.hostname = punycode.toASCII(this.hostname);\n   }\n\n   var p = this.port ? ':' + this.port :\n '';\n   var h = this.hostname || '';\n   this.host = h + p;\n   this.href += this.host;\n\n   // strip [ and ] from the\n hostname\n   // the host field still retains them, though\n   if (ipv6Hostname) {\n     this.hostname =\n 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\n (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 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 =\n 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 //to support http.request\n if (this.pathname ||\n this.search) {\n var p = this.pathname || '';\n var s = this.search || '';\n this.path = p + s;\n }\n // finally,\n reconstruct the href based on what has been validated.\n this.href = this.format();\n return this;\n }\n\n// format a\n 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\n 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\n (util.isString(obj)) obj = urlParse(obj);\n if (!(obj instanceof Url)) return Url.prototype.format.call(obj);\n return\n obj.format();\n }\n\nUrl.prototype.format = function() {\n var auth = this.auth || '';\n if (auth) {\n auth =\n encodeURIComponent(auth);\n auth = auth.replace(/%3A/i, ':');\n auth += '@';\n }\n var protocol =\n 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(':')\n === -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 =\n querystring.stringify(this.query);\n }\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) !== '/') pathname = '/' + pathname;\n }\n else if (!host) {\n host = '';\n }\n\n if (hash && hash.charAt(0) !== '#') hash = '#' + hash;\n if (search &&\n search.charAt(0) !== '?') search = '?' + search;\n\n pathname = pathname.replace(/[?#]/g, function(match) {\n return\n encodeURIComponent(match);\n });\n search = search.replace('#', '%23');\n\n return protocol + host +\n pathname + search + hash;\n }\n\nfunction urlResolve(source, relative) {\n return urlParse(source, false,\n true).resolve(relative);\n }\n\nUrl.prototype.resolve = function(relative) {\n return\n this.resolveObject(urlParse(relative, false, true)).format();\n }\n\nfunction urlResolveObject(source, relative) {\n if\n (!source) return relative;\n return urlParse(source, false,\n true).resolveObject(relative);\n }\n\nUrl.prototype.resolveObject = function(relative) {\n if (util.isString(relative))\n {\n var rel = new Url();\n rel.parse(relative, false, true);\n relative = rel;\n }\n\n var result = new Url();\n var\n tkeys = Object.keys(this);\n for (var tk = 0; tk < tkeys.length; tk++) {\n var tkey = tkeys[tk];\n result[tkey] =\n this[tkey];\n }\n\n // hash is always overridden, no matter what.\n // even href="" will remove it.\n result.hash =\n 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\n (relative.slashes && !relative.protocol) {\n // take everything except the protocol from relative\n var rkeys =\n Object.keys(relative);\n for (var rk = 0; rk < rkeys.length; rk++) {\n var rkey = rkeys[rk];\n if (rkey !==\n 'protocol')\n result[rkey] = relative[rkey];\n }\n\n //urlParse appends trailing / to urls like\n http://www.example.com\n if (slashedProtocol[result.protocol] &&\n result.hostname && !result.pathname)\n {\n result.path = result.pathname = '/';\n }\n\n result.href = result.format();\n return result;\n }\n\n if\n (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\n // to be hostless.\n // anything else is assumed to be absolute.\n if (!slashedProtocol[relative.protocol]) {\n var\n keys = Object.keys(relative);\n for (var v = 0; v < keys.length; v++) {\n var k = keys[v];\n result[k] =\n relative[k];\n }\n result.href = result.format();\n return result;\n }\n\n result.protocol =\n relative.protocol;\n\n if (!relative.host && !hostlessProtocol[relative.protocol]) {\n var relPath =\n (relative.pathname || '').split('/');\n while (relPath.length && !(relative.host = relPath.shift()));\n if\n (!relative.host) relative.host = '';\n if (!relative.hostname) relative.hostname = '';\n if (relPath[0] !== '')

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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    //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 // 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\n // if the path is allowed to go above the root, restore leading ..s\n if (!mustEndAbs && !removeAllDots)
{\n  for (; up-- > 0;) {\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 ? "" : srcPath.length ? 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',

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local2@domain2)\n var authInHost = result.host && result.host.indexOf('@') > 0 ?\nresult.host.split('@') : false;\n if (authInHost) {\n   result.auth = authInHost.shift();\n   result.host =\nresult.hostname = authInHost.shift();\n } }\n\n mustEndAbs = mustEndAbs || (result.host &&\nsrcPath.length);\n\n if (mustEndAbs && !isAbsolute) {\n   srcPath.unshift("");\n }\n\n if (!srcPath.length) {\nresult.pathname = null;\n   result.path = null;\n } else {\n   result.pathname = srcPath.join('/');\n }\n\n //to support\nrequest.http\n if (!util.isNull(result.pathname) || !util.isNull(result.search)) {\n   result.path = (result.pathname ?\nresult.pathname : ") +\n      (result.search ? result.search : ");\n }\n\n result.auth = relative.auth || result.auth;\nresult.slashes = result.slashes || relative.slashes;\n\n result.href = result.format();\n return\nresult;\n};\n\nUrl.prototype.parseHost = function() {\n  var host = this.host;\n  var port = portPattern.exec(host);\n  if\n(port) {\n    port = port[0];\n    if (port !== ':') {\n      this.port = port.substr(1);\n    }\n    host = host.substr(0,\nhost.length - port.length);\n  }\n  if (host) this.hostname = host;\n};\n\n"/ @flow\n\nimport Reference from\n'./reference/v8.json';\nimport type {StylePropertySpecification} from './style-spec';\nimport type {\nStyleSpecification,\nSourceSpecification,\nLayerSpecification,\nPropertyValueSpecification,\nDataDrivenPropertyValueSpecification\n} from './types';\n\nfunction getPropertyReference(propertyName):\nStylePropertySpecification {\n  for (let i = 0; i < Reference.layout.length; i++) {\n    for (const key in\nReference[Reference.layout[i]]) {\n      if (key === propertyName) return (Reference[Reference.layout[i]][key]:\nany);\n    }\n  }\n  for (let i = 0; i < Reference.paint.length; i++) {\n    for (const key in\nReference[Reference.paint[i]]) {\n      if (key === propertyName) return (Reference[Reference.paint[i]][key]:\nany);\n    }\n  }\n  return (null: any);\n}\n\nexport function eachSource(style: StyleSpecification, callback: (_:\nSourceSpecification) => 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\n(const layer of style.layers) {\n    callback(layer);\n  }\n}\n\ntype PropertyCallback = ({\n  path: [string, 'paint' |\n'layout', string], // [layerid, paint/layout, property key]\n  key: string,\n  value:\nPropertyValueSpecification<mixed> | DataDrivenPropertyValueSpecification<mixed>,\n  reference:\nStylePropertySpecification,\n  set: (PropertyValueSpecification<mixed> |\nDataDrivenPropertyValueSpecification<mixed>) => void\n}) => void;\n\nexport function eachProperty(\n  style:\nStyleSpecification,\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\n(!properties) return;\n    Object.keys(properties).forEach((key) => {\n      callback({\n        path: [layer.id,\npropertyType, key],\n        key,\n        value: properties[key],\n        reference:\ngetPropertyReference(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\n(options.layout) {\n      inner(layer, 'layout');\n    }\n  });\n}\n\nimport URL from 'url';\nimport\n{eachSource, eachLayer, eachProperty} from './visit';\n\nfunction eachLayout(layer, callback) {\n  for (const k in\nlayer) {\n    if (k.indexOf('layout') === 0) {\n      callback(layer[k], k);\n    }\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}\n\nfunction resolveConstant(style, value) {\n  if (typeof value === 'string'\n&& value[0] === '@') {\n    return resolveConstant(style, style.constants[value]);\n  } else {\n    return\nvalue;\n  }\n}\n\nfunction isFunction(value) {\n  return Array.isArray(value.stops);\n}\n\nfunction\nrenameProperty(obj, from, to) {\n  obj[to] = obj[from];\n  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=> {\n    if (source.type === 'video' && source.url !== undefined) {\n      renameProperty(source, 'url',\n'url');\n    }\n    if (source.type === 'video') {\n      source.coordinates.forEach((coord) => {\nreturn coord.reverse();\n      });\n    }\n  });\n  eachLayer(style, (layer) => {\n    eachLayout(layer,\n(layout) => {\n      if (layout['symbol-min-distance'] !== undefined) {\n        renameProperty(layout,\n'symbol-min-distance', 'symbol-spacing');\n      }\n    });\n    eachPaint(layer, (paint) => {\n      if\n(paint['background-image'] !== undefined) {\n        renameProperty(paint, 'background-image', 'background-\npattern');\n      }\n      if (paint['line-image'] !== undefined) {\n        renameProperty(paint, 'line-image',
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'line-pattern');\n      }\n      if (paint['fill-image'] !== undefined) {\n        renameProperty(paint, 'fill-image', 'fill-pattern');\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      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        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        } 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\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      // 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\n      return style;\n    }, "\n    // @flow\n    // export 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    // @flow\n    // 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    // export default ParsingError;\n    // @flow\n    // import type {Expression} from './expression';\n    // /**\n    //  * Tracks `let` bindings during expression parsing.\n    //  * @private\n    //  */\n    // 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

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(this.bindings[name]) { return this.bindings[name]; }
if (this.parent) { return this.parent.get(name); }
throw new Error(`${name} not found in scope.`);
}
has(name: string): boolean {
if (this.bindings[name]) return true;
return this.parent ? this.parent.has(name) : false;
}
}
export default Scope;
@flow
export type NullTypeT = { kind: 'null' };
export type NumberTypeT = { kind: 'number' };
export type StringTypeT = { kind: 'string' };
export type BooleanTypeT = { kind: 'boolean' };
export type ColorTypeT = { kind: 'color' };
export type ObjectTypeT = { kind: 'object' };
export type ValueTypeT = { kind: 'value' };
export type ErrorTypeT = { kind: 'error' };
export type CollatorTypeT = { kind: 'collator' };
export type FormattedTypeT = { kind: 'formatted' };
export type ResolvedImageTypeT = { kind: 'resolvedImage' };
export type EvaluationKind = 'constant' | 'source' | 'camera' | 'composite';
export type Type =
NullTypeT |
NumberTypeT |
StringTypeT |
BooleanTypeT |
ColorTypeT |
ObjectTypeT |
ValueTypeT |
ArrayType |
// eslint-disable-line no-use-before-define
ErrorTypeT |
CollatorTypeT |
FormattedTypeT |
ResolvedImageTypeT;
export type ArrayType = {
kind: 'array',
itemType: Type,
N: ?number
};
export type NativeType = 'number' | 'string' | 'boolean' | 'null' | 'array' | 'object';
export const NullType = { kind: 'null' };
export const NumberType = { kind: 'number' };
export const StringType = { kind: 'string' };
export const BooleanType = { kind: 'boolean' };
export const ColorType = { kind: 'color' };
export const ObjectType = { kind: 'object' };
export const ValueType = { kind: 'value' };
export const ErrorType = { kind: 'error' };
export const CollatorType = { kind: 'collator' };
export const FormattedType = { kind: 'formatted' };
export const ResolvedImageType = { kind: 'resolvedImage' };
export function array(itemType: Type, N: ?number): ArrayType {
return {
kind: 'array',
itemType,
N
};
}
export function toString(type: Type): string {
if (type.kind === 'array') {
const itemType = toString(type.itemType);
return `typeof type.N === 'number' ? `array<${itemType}>, ${type.N}>` : type.itemType.kind === 'value' ? 'array' : `array<${itemType}>`;
} else {
return type.kind;
}
}
export const valueMemberTypes = [
NullType,
NumberType,
StringType,
BooleanType,
ColorType,
FormattedType,
ObjectType,
array(ValueType),
ResolvedImageType
];
/**
 * Returns null if `t` is a subtype of `expected`; otherwise returns an error message.
 * @private
 */
export function checkSubtype(expected: Type, t: Type): string {
if (t.kind === 'error') {
// Error is a subtype of every type
return null;
} else if (expected.kind === 'array') {
if (t.kind === 'array' && ((t.N === 0 && t.itemType.kind === 'value') || !checkSubtype(expected.itemType, t.itemType)) && (typeof expected.N !== 'number' || expected.N === t.N)) {
return null;
} else if (expected.kind === t.kind) {
return null;
} else if (expected.kind === 'value') {
for (const memberType of valueMemberTypes) {
if (!checkSubtype(memberType, t)) {
return null;
}
}
return `Expected ${toString(expected)} but found ${toString(t)} instead.`;
}
}
export function isValidType(provided: Type, allowedTypes: Array<Type>): boolean {
return allowedTypes.some(t => t.kind === provided.kind);
}
export function isValidNativeType(provided: any, allowedTypes: Array<NativeType>): boolean {
return allowedTypes.some(t => {
if (t === 'null') {
return provided === null;
} else if (t === 'array') {
return Array.isArray(provided);
} else if (t === 'object') {
return provided && !Array.isArray(provided) && typeof provided === 'object';
} else {
return t === typeof provided;
}
});
}
}
(c) Dean McNamee <dean@gmail.com>, 2012.
https://github.com/deanm/css-color-parser-js/
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<http://www.w3.org/TR/css3-color/>

```

nvar kCSSColorTable = {
  "transparent": [0,0,0,0],
  "aliceblue": [240,248,255,1],
  "antiquewhite": [250,235,215,1],
  "aqua": [0,255,255,1],
  "aquamarine": [127,255,212,1],
  "azure": [240,255,255,1],
  "beige": [245,245,220,1],
  "bisque": [255,228,196,1],
  "black": [0,0,0,1],
  "blanchedalmond": [255,235,205,1],
  "blue": [0,0,255,1],
  "blueviolet": [138,43,226,1],
  "brown": [165,42,42,1],
  "burlywood": [222,184,135,1],
  "cadetblue": [95,158,160,1],
  "chartreuse": [127,255,0,1],
  "chocolate": [210,105,30,1],
  "coral": [255,127,80,1],
  "cornflowerblue": [100,149,237,1],
  "cornsilk": [255,248,220,1],
  "crimson": [220,20,60,1],
  "cyan": [0,255,255,1],
  "darkblue": [0,0,139,1],
  "darkcyan": [0,139,139,1],
  "darkgoldenrod": [184,134,11,1],
  "darkgray": [169,169,169,1],
  "darkgreen": [0,100,0,1],
  "darkgrey": [169,169,169,1],
  "darkkhaki": [189,183,107,1],
  "darkmagenta": [139,0,139,1],
  "darkolivegreen": [85,107,47,1],
  "darkorange": [255,140,0,1],
  "darkorchid": [153,50,204,1],
  "darkred": [139,0,0,1],
  "darksalmon": [233,150,122,1],
  "darkseagreen": [143,188,143,1],
  "darkslateblue": [72,61,139,1],
  "darkslategray": [47,79,79,1],
  "darkslategrey": [47,79,79,1],
  "darkturquoise": [0,206,209,1],
  "darkviolet": [148,0,211,1],
  "deeppink": [255,20,147,1],
  "deepskyblue": [0,191,255,1],
  "dimgray": [105,105,105,1],
  "dimgrey": [105,105,105,1],
  "dodgerblue": [30,144,255,1],
  "firebrick": [178,34,34,1],
  "floralwhite": [255,250,240,1],
  "forestgreen": [34,139,34,1],
  "fuchsia": [255,0,255,1],
  "gainsboro": [220,220,220,1],
  "ghostwhite": [248,248,255,1],
  "gold": [255,215,0,1],
  "goldenrod": [218,165,32,1],
  "gray": [128,128,128,1],
  "green": [0,128,0,1],
  "greenyellow": [173,255,47,1],
  "grey": [128,128,128,1],
  "honeydew": [240,255,240,1],
  "hotpink": [255,105,180,1],
  "indianred": [205,92,92,1],
  "indigo": [75,0,130,1],
  "ivory": [255,255,240,1],
  "khaki": [240,230,140,1],
  "lavender": [230,230,250,1],
  "lavenderblush": [255,240,245,1],
  "lawngreen": [124,252,0,1],
  "lemonchiffon": [255,250,205,1],
  "lightblue": [173,216,230,1],
  "lightcoral": [240,128,128,1],
  "lightcyan": [224,255,255,1],
  "lightgoldenrodyellow": [250,250,210,1],
  "lightgray": [211,211,211,1],
  "lightgreen": [144,238,144,1],
  "lightgrey": [211,211,211,1],
  "lightpink": [255,182,193,1],
  "lightsalmon": [255,160,122,1],
  "lightseagreen": [32,178,170,1],
  "lightskyblue": [135,206,250,1],
  "lightslategray": [119,136,153,1],
  "lightslategrey": [119,136,153,1],
  "lightsteelblue": [176,196,222,1],
  "lightyellow": [255,255,224,1],
  "lime": [0,255,0,1],
  "limegreen": [50,205,50,1],
  "linen": [250,240,230,1],
  "magenta": [255,0,255,1],
  "maroon": [128,0,0,1],
  "mediumaquamarine": [102,205,170,1],
  "mediumblue": [0,0,205,1],
  "mediumorchid": [186,85,211,1],
  "mediumpurple": [147,112,219,1],
  "mediumseagreen": [60,179,113,1],
  "mediumslateblue": [123,104,238,1],
  "mediumspringgreen": [0,250,154,1],
  "mediumturquoise": [72,209,204,1],
  "mediumvioletred": [199,21,133,1],
  "midnightblue": [25,25,112,1],
  "mintcream": [245,255,250,1],
  "mistyrose": [255,228,225,1],
  "moccasin": [255,228,181,1],
  "navajowhite": [255,222,173,1],
  "navy": [0,0,128,1],
  "oldlace": [253,245,230,1],
  "olive": [128,128,0,1],
  "olivedrab": [107,142,35,1],
  "orange": [255,165,0,1],
  "orangered": [255,69,0,1],
  "orchid": [218,112,214,1],
  "palegoldenrod": [238,232,170,1],
  "palegreen": [152,251,152,1],
  "paleturquoise": [175,238,238,1],
  "palevioletred": [219,112,147,1],
  "papayawhip": [255,239,213,1],
  "peachpuff": [255,218,185,1],
  "peru": [205,133,63,1],
  "pink": [255,192,203,1],
  "plum": [221,160,221,1],
  "powderblue": [176,224,230,1],
  "purple": [128,0,128,1],
  "rebeccapurple": [102,51,153,1],
  "red": [255,0,0,1],
  "rosybrown": [188,143,143,1],
  "royalblue": [65,105,225,1],
  "saddlebrown": [139,69,19,1],
  "salmon": [250,128,114,1],
  "sandybrown": [244,164,96,1],
  "seagreen": [46,139,87,1],
  "seashell": [255,245,238,1],
  "sienna": [160,82,45,1],
  "silver": [192,192,192,1],
  "skyblue": [135,206,235,1],
  "slateblue": [106,90,205,1],
  "slategray": [112,128,144,1],
  "slategrey": [112,128,144,1],
  "snow": [255,250,250,1],
  "springgreen": [0,255,127,1],
  "steelblue": [70,130,180,1],
  "tan": [210,180,140,1],
  "teal": [0,128,128,1],
  "thistle": [216,191,216,1],
  "tomato": [255,99,71,1],
  "turquoise": [64,224,208,1],
  "violet": [238,130,238,1],
  "wheat": [245,222,179,1],
  "white": [255,255,255,1],
  "whitesmoke": [245,245,245,1],
  "yellow": [255,255,0,1],
  "yellowgreen": [154,205,50,1]
}

function clamp_css_byte(i) {
  // Clamp to integer 0 .. 255
  i = Math.round(i);
  // Seems to be what Chrome does (vs truncation)
  return i < 0 ? 0 : i > 255 ? 255 : i;
}

function 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\n clamp_css_byte(parseInt(str));\n}\n\n\nfunction parse_css_float(str) { // float or percentage.\n if (str[str.length - 1]\n === '%')\n   return clamp_css_float(parseFloat(str) / 100);\n return clamp_css_float(parseFloat(str));\n}\n}\n\nfunction\n 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) *\n 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\n parseCSSColor(css_str) {\n // Remove all whitespace, not compliant, but should just be more accepting.\n var str =\n 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\n === 4) {\n var iv = parseInt(str.substr(1), 16); // TODO(deanm): Stricter parsing.\n if (!(iv >= 0 && iv <=\n 0xffff)) return null; // Covers NaN.\n return [(iv & 0xf00) >> 4], [(iv & 0xf00) >> 8],\n (iv & 0xf0) | ((iv\n & 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\n var 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\n allow case fallthrough.\n switch (fname) {\n case 'rgba':\n if (params.length !== 4) return null;\n alpha\n = parse_css_float(params.pop());\n // Fall through.\n case 'rgb':\n if (params.length !== 3) return null;\n\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 =\n parse_css_float(params.pop());\n // Fall through.\n case 'hsl':\n if (params.length !== 3) return null;\n\n var h = (((parseFloat(params[0]) % 360) + 360) % 360) / 360; // 0 .. 1\n // NOTE(deanm): According to the\n 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 -\n 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) *\n 255),\n alpha];\n default:\n return null;\n }\n }\n\n return null;\n }\n\n\nentry {\n exports.parseCSSColor = parseCSSColor } catch(e) {} }\n"}\n"," @flow\n\nimport {parseCSSColor} from\n 'csscolorparser';\n\n/**\n * An RGBA color value. Create instances from color strings using the static\n * method\n * `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 * \n * @private\n */\n\nclass Color {\n r: number;\n g:\n 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`\n instance.\n * \n * @returns A `Color` instance, or `undefined` if the input is not a valid color string.\n */\n static\n parse(input?: string | Color | null): Color | void {\n if (!input) {\n return undefined;\n }\n\n if\n (input instanceof Color) {\n return input;\n }\n\n if (typeof input !== 'string') {\n return\n 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\n * rgba[3],\n rgba[3]);\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 * \n purple.toString(); // \"rgba(128,0,128,1)\"\n * var translucentGreen = new Color.parse('rgba(26, 207, 26, .73)');\n * \n translucentGreen.toString(); // \"rgba(26,207,26,0.73)\"\n */\n toString(): string {\n const [r, g, b, a] =\n 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 [\n r * 255 / a,\n g * 255 / a,\n b * 255 / a,\n a\n ];\n }\n\n\nColor.black = new\n 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\nexport declare var Intl: {\n  Collator:\n    Class<Intl$Collator>\n};\n\nexport declare class Intl$Collator {\n  constructor (\n    locales?: string | string[],\n    options?: CollatorOptions\n  ): Intl$Collator;\n\n  static (\n    locales?: string | string[],\n    options?:\n      CollatorOptions\n  ): Intl$Collator;\n\n  compare (a: string, b: string): number;\n\n  resolvedOptions():\n    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?:\n      'upper' | 'lower' | 'false'\n  }\n\n  export default class Collator {\n    locale: string | null;\n    sensitivity: 'base' | 'accent' |\n      'case' | 'variant';\n    collator: Intl$Collator;\n\n    constructor(caseSensitive: boolean, diacriticSensitive: boolean,\n      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 =\n        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():\n      string {\n        // We create a Collator without "usage: search" because we don't want\n        // the search options\n        // 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\nimport type Color from './../util/color';\nimport type\n  ResolvedImage from './types/resolved_image';\n\nexport class FormattedSection {\n  text: string;\n  image:\n    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 |\n    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:\n    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\n      FormattedSection(unformatted, null, null, null, null)];\n  }\n\n  isEmpty(): boolean {\n    if (this.sections.length\n      === 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):\n    Formatted {\n    if (text instanceof Formatted) {\n      return text;\n    } else {\n      return\n        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\n      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-\n          color"] = (["rgba"]: Array<mixed>).concat(section.textColor.toArray());\n      }\n      serialized.push(options);\n    }\n    return serialized;\n  }\n}\n\n", "// @flow\n\nexport type\n  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 =\n      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\n      no image\n    return new ResolvedImage({name, available: false});\n  }\n\n  serialize(): Array<string> {\n    return ["image", this.name];\n  }\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\n  ResolvedImage from './types/resolved_image';\nimport {NullType, NumberType, StringType, BooleanType,\n  ColorType, ObjectType, ValueType, CollatorType, FormattedType, ResolvedImageType, array} from\n  './types';\nimport type {Type} from './types';\n\nexport function validateRGBA(r: mixed, g: mixed, b: mixed, a?:\n  mixed): string | null {\n  if (!( (\n    typeof r === 'number' && r >= 0 && r <= 255 &&\n    typeof g ===\n      '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 [${value.join(', ')}]: 'r', 'g', and
'b' must be between 0 and 255.`;\n  }\n\n  if (!\n    typeof a === 'undefined' || (typeof a === 'number' && a >=
0 && a <= 1)\n  ) {\n    return `Invalid rgba value [${[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\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\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, 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\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\n"/ @flow\n\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\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\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:\n    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.');

```



```

context.parse(arg['font-scale'], 1, NumberType);\n                if (!scale) return null;\n                }\n\nfont = null;\n    if (arg['text-font']) {\n        font = context.parse(arg['text-font'], 1,\narray(StringType));\n        if (!font) return null;\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    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        const kind = content.type.kind;\n        if (kind !== 'string' && kind !== 'value' &&\n        kind !== 'null' && kind !== 'resolvedImage')\n        return context.error(`Formatted text type must be 'string',\n        'value', 'image' or 'null'.`);\n        nextTokenMaybeObject = true;\n        sections.push({content, scale:\n        null, font: null, textColor: null});\n        }\n    }\n    return new FormatExpression(sections);\n    }\n\nevaluate(ctx: EvaluationContext) {\n    const evaluateSection = section => {\n        const evaluatedContent =\n        section.content.evaluate(ctx);\n        if (typeof(evaluatedContent) === ResolvedImageType) {\n            return\n            new FormattedSection("", evaluatedContent, null, null, null);\n        }\n        return new FormattedSection(\n        toString(evaluatedContent),\n        null,\n        section.scale ? section.scale.evaluate(ctx) :\n        null,\n        section.font ? section.font.evaluate(ctx).join(',') : null,\n        section.textColor ?\n        section.textColor.evaluate(ctx) : null\n        );\n    }\n    return new\n    Formatted(this.sections.map(evaluateSection));\n    }\n\n    eachChild(fn: (_: Expression) => void) {\n        for (const\n        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\n        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'] =\n                section.font.serialize();\n            }\n            if (section.textColor) {\n                options['text-color'] =\n                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\n'./types/resolved_image';\n\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\nexport default class ImageExpression implements Expression {\n    type: Type;\n    input:\n    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\n        !== 2) {\n            return context.error(`Expected two arguments.`);\n        }\n        const name =\n        context.parse(args[1], 1, StringType);\n        if (!name) return context.error(`No image name provided.`);\n        return new ImageExpression(name);\n    }\n\n    evaluate(ctx: EvaluationContext) {\n        const\n        evaluatedImageName = this.input.evaluate(ctx);\n        const value =\n        ResolvedImage.fromString(evaluatedImageName);\n        if (value && ctx.availableImages) value.available =\n        ctx.availableImages.indexOf(evaluatedImageName) > -1;\n        return value;\n    }\n\n    eachChild(fn: (_:\n    Expression) => void) {\n        fn(this.input);\n    }\n\n    outputDefined() {\n        // The output of image is\n        determined by the list of available images in the evaluation context\n        return false;\n    }\n\n    serialize() {\n        return ["image(", this.input.serialize());\n    }\n}\n\n"/ @flow\n\nimport assert from 'assert';\n\nimport\n{BooleanType, ColorType, NumberType, StringType, ValueType} from './types';\nimport {Color, toString as\nvalueToString, validateRGBA} from './values';\nimport RuntimeError from './runtime_error';\nimport Formatted\nfrom './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
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 *\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
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
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      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 === '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 ${JSON.stringify(input)}: expected an array containing either three or
four numeric values.`;\n          } else {\n            error = validateRGBA(input[0], input[1], input[2],
input[3]);\n          }\n          if (!error) {\n            return new Color((input[0]: any) / 255,
(input[1]: any) / 255, (input[2]: any) / 255, (input[3]: any));\n          }\n          throw
new RuntimeError(error || `Could not parse color from value '${typeof input === 'string' ? input :
String(JSON.stringify(input))}'`);\n        } else if (this.type.kind === 'number') {\n          let value = null;\n
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
new RuntimeError(`Could not convert ${JSON.stringify(value)} to number.`);\n        } else if (this.type.kind ===
'formatted') {\n          // There is no explicit 'to-formatted' but this coercion can be implicitly\n          // created by
properties that expect the 'formatted' type.\n          return
Formatted.fromString(valueToString(this.args[0].evaluate(ctx))); \n        } else if (this.type.kind ===
'resolvedImage') {\n          return ResolvedImage.fromString(valueToString(this.args[0].evaluate(ctx))); \n        }
else {\n          return valueToString(this.args[0].evaluate(ctx)); \n        }\n      }\n\n      eachChild(fn: (_: Expression) =>
void) {\n        this.args.forEach(fn);\n      }\n\n      outputDefined(): boolean {\n        return this.args.every(arg =>
arg.outputDefined());\n      }\n\n      serialize() {\n        if (this.type.kind === 'formatted') {\n          return new
FormatExpression([{\n            content: this.args[0],\n            scale: null,\n            font: null,\n            textColor: null\n          }]).serialize();\n        }\n        if
(this.type.kind === 'resolvedImage') {\n          return new ImageExpression(this.args[0]).serialize();\n        }\n
const serialized = [to-${this.type.kind}];\n        this.eachChild(child => {\n          serialized.push(child.serialize());\n        });\n
return serialized;\n      }\n    }\n\n    export default Coercion;\n  },\n  \"\" @flow\n  \n  import {Color} from './values';\n  import type
{FormattedSection} from './types/formatted';\n  import type {GlobalProperties, Feature, FeatureState} from
'./index';\n  import type {CanonicalTileID} from '../source/tile_id';\n\n  const geometryTypes = ['Unknown', 'Point',
'LineString', 'Polygon'];\n\n  class 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      this.availableImages = null;\n      this.canonical = 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    geometry() {\n      return this.feature && 'geometry' in this.feature ? this.feature.geometry : null;\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", "//
@flow\n\nimport { toString } from './types';\n\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 |};\n\nexport type Signature = Array<Type> | Varargs;\n\nexport type Evaluate =
(EvaluationContext, Array<Expression>) => Value;\n\nexport type Definition = [Type, Signature, Evaluate] |\n    {| type:
Type, overloads: Array<[Signature, Evaluate]> |};\n\nexport class 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    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 - 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
ParsingContext(context.registry, context.path, null, context.scope);\n\n        // First parse all the args, potentially
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
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
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 (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\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\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)).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\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\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    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    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", "/* @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\nexport type GeoJSONPolygons
= | 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
getFileCoordinates(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]) * (p1[1] - p[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

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= 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\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      updateBBBox(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, polyBBBox, worldSize) {\n  if (p[0] < polyBBBox[0] || p[0] >
polyBBBox[2]) {\n    const halfWorldSize = worldSize * 0.5;\n    let shift = (p[0] - polyBBBox[0] >
halfWorldSize) ? -worldSize : (polyBBBox[0] - p[0] > halfWorldSize) ? worldSize : 0;\n    if (shift === 0) {\n
shift = (p[0] - polyBBBox[2] > halfWorldSize) ? -worldSize : (polyBBBox[2] - p[0] > halfWorldSize) ? worldSize :
0;\n    }\n    p[0] += shift;\n  }\n  updateBBBox(bbox, p);\n}\n\nfunction resetBBBox(bbox) {\n  bbox[0] =
bbox[1] = Infinity;\n  bbox[2] = bbox[3] = -Infinity;\n}\n\nfunction getTilePoints(geometry, pointBBBox,
polyBBBox, 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, pointBBBox,
polyBBBox, worldSize);\n      tilePoints.push(p);\n    }\n  }\n  return tilePoints;\n}\n\nfunction
getTileLines(geometry, lineBBBox, polyBBBox, 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      updateBBBox(lineBBBox, p);\n      tileLine.push(p);\n    }\n    tileLines.push(tileLine);\n  }\n  if (lineBBBox[2] - lineBBBox[0] <= worldSize / 2) {\n    resetBBBox(lineBBBox);\n
for (const line of tileLines) {\n      for (const p of line) {\n        updatePoint(p, lineBBBox, polyBBBox,
worldSize);\n      }\n    }\n  }\n  return tileLines;\n}\n\nfunction pointsWithinPolygons(ctx:
EvaluationContext, polygonGeometry: GeoJSONPolygons) {\n  const pointBBBox = [Infinity, Infinity, -Infinity, -

```



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(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\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\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: $ReadOnlyArray<mixed>, context:
ParsingContext) {\n    if (args.length !== 2 || typeof args[1] !== 'string')\n      return context.error(`var'
expression requires exactly one string literal argument.`);\n    const name = args[1];\n    if
(!context.scope.has(name)) {\n      return context.error(`Unknown variable \"${name}\". Make sure \"${name}\"
has been bound in an enclosing \"let\" expression before using it.` , 1);\n    }\n    return new Var(name,
context.scope.get(name));\n  }\n\n  evaluate(ctx: EvaluationContext) {\n    return
this.boundExpression.evaluate(ctx);\n  }\n\n  eachChild() {\n\n  }\n\n  outputDefined() {\n    return false;\n  }\n\n
serialize() {\n    return [\"var\", this.name];\n  }\n}\n\n\nexport default Var;\n", "/* @flow\n\nimport Scope from
'./scope';\nimport {checkSubtype} from './types';\nimport ParsingError from './parsing_error';\nimport Literal from
'./definitions/literal';\nimport Assertion from './definitions/assertion';\nimport Coercion from
'./definitions/coercion';\nimport EvaluationContext from './evaluation_context';\nimport CompoundExpression from
'./compound_expression';\nimport CollatorExpression from './definitions/collator';\nimport Within from
'./definitions/within';\nimport {isGlobalPropertyConstant, isFeatureConstant} from './is_constant';\nimport Var from
'./definitions/var';\n\nimport type {Expression, ExpressionRegistry} from './expression';\nimport type {Type} from
'./types';\n\n\n/**\n * State associated parsing at a given point in an expression tree.\n * @private\n */\n\nclass
ParsingContext {\n  registry: ExpressionRegistry;\n  path: Array<number>;\n  key: string;\n  scope: Scope;\n
errors: Array<ParsingError>;\n\n  // The expected type of this expression. Provided only to allow Expression\n  //
implementations to infer argument types: Expression#parse() need not\n  // check that the output type of the parsed
expression matches\n  // `expectedType`.\n  expectedType: ?Type;\n\n  constructor(\n    registry:
ExpressionRegistry,\n    path: Array<number> = [],\n    expectedType: ?Type,\n    scope: Scope = new
Scope(),\n    errors: Array<ParsingError> = []\n  ) {\n    this.registry = registry;\n    this.path = path;\n
this.key = path.map(part => `[${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      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      }\n      return null;\n    }\n\n    const Expr =

```



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this.registry[op];\n      if (Expr) {\n          let parsed = Expr.parse(expr, this);\n          if (!parsed) return\nnull;\n          if (this.expectedType) {\n              const expected = this.expectedType;\n              const\nactual = parsed.type;\n              // When we expect a number, string, boolean, or array but have a value, wrap it\nin an assertion.\n              // When we expect a color or formatted string, but have a string or value, wrap it in a\ncoercion.\n              // Otherwise, we do static type-checking.\n              //\n              // These behaviors are\noverridable for:\n              // * The \"coalesce\" operator, which needs to omit type annotations.\n              //\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\n=== 'object' || expected.kind === 'array') && actual.kind === 'value') {\n                  parsed = annotate(parsed,\nexpected, options.typeAnnotation || 'assert');\n              } else if ((expected.kind === 'color' || expected.kind ===\n'formatted' || expected.kind === 'resolvedImage') && (actual.kind === 'value' || actual.kind === 'string')) {\n                  parsed = annotate(parsed, expected, options.typeAnnotation || 'coerce');\n              } else if\n(this.checkSubtype(expected, actual)) {\n                  return null;\n              }\n              // If an\nexpression's arguments are all literals, we can evaluate\n              // it immediately and replace it with a literal value\nin the\n              // parsed/compiled result. Expressions that expect an image should\n              // not be resolved\nhere so we can later get the available images.\n              if (!(parsed instanceof Literal) && (parsed.type.kind !==\n'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\", [...]].`,\n0);\n      } else if (typeof expr === 'undefined') {\n          return this.error(`'undefined' value invalid. Use null\ninstead.`);\n      } else if (typeof expr === 'object') {\n          return this.error(`Bare objects invalid. Use [\"literal\",\n{...}] instead.`);\n      } else {\n          return this.error(`Expected an array, but found ${typeof expr} instead.`);\n      }\n  }\n  /**\n   * Returns a copy of this context suitable for parsing the subexpression at\n   * index `index`,\noptionally appending to 'let' binding map.\n   *\n   * Note that `errors` property, intended for collecting errors\nwhile\n   * parsing, is copied by reference rather than cloned.\n   * @private\n   */\n  concat(index: number,\nexpectedType?: ?Type, bindings?: Array<[string, Expression]>) {\n      const path = typeof index === 'number' ?\nthis.path.concat(index) : this.path;\n      const scope = bindings ? this.scope.concat(bindings) : this.scope;\n      return new ParsingContext(\nthis.registry,\npath,\nexpectedType || null,\nscope,\nthis.errors\n);\n  }\n  /**\n   * Push a parsing (or type checking) error into the `this.errors`\n   * @param error The message\n   * @param keys Optionally specify the source of the error at a child\n   * of the\ncurrent expression at `this.key`.\n   * @private\n   */\n  error(error: string, ...keys: Array<number>) {\n      const\nkey = `${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\npushes it to `this.errors`.\n   *\n   * checkSubtype(expected: Type, t: Type): ?string {\n      const error =\ncheckSubtype(expected, t);\n      if (error) this.error(error);\n      return error;\n    }\n  }\n  export default\nParsingContext;\n\nfunction isConstant(expression: Expression) {\n  if (expression instanceof Var) {\n      return\nisConstant(expression.boundExpression);\n  } else if (expression instanceof CompoundExpression &&\nexpression.name === 'error') {\n      return false;\n  } else if (expression instanceof CollatorExpression) {\n      //\nAlthough the results of a Collator expression with fixed arguments\n      // generally shouldn't change between\nexecutions, we can't serialize them\n      // as constant expressions because results change based on environment.\n      return false;\n  } else if (expression instanceof Within) {\n      return false;\n  }\n  const isTypeAnnotation\n= expression instanceof Coercion ||\nexpression instanceof Assertion;\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\nthe exception, because they might\n// have been inferred and added after a child was parsed.\n// So we\nrecurse into isConstant() for the children of type annotations,\n// but otherwise simply check whether they are\nLiterals.\n      if (isTypeAnnotation) {\n          childrenConstant = childrenConstant && isConstant(child);\n      }\n  })\n}

```



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else {\n      childrenConstant = childrenConstant && child instanceof Literal;\n    }\n  });\n  if\n  (!childrenConstant) {\n    return false;\n  }\n  return isFeatureConstant(expression) &&\n  isGlobalPropertyConstant(expression, ['zoom', 'heatmap-density', 'line-progress', 'accumulated', 'is-supported-\nscript']);\n}\n\n", "// @flow\n\nimport RuntimeError from './runtime_error';\nimport type {Expression} from\n './expression';\n\nexport type Stops = Array<[number, Expression]>;\n\n/**\n * Returns the index of the last stop <=\n input, or 0 if it doesn't exist.\n\n * @private\n */\nexport function findStopLessThanOrEqualTo(stops:\n Array<number>, input: number) {\n  const lastIndex = stops.length - 1;\n  let lowerIndex = 0;\n  let upperIndex\n = lastIndex;\n  let currentIndex = 0;\n  let currentValue, nextValue;\n  while (lowerIndex <= upperIndex) {\n    currentIndex = Math.floor((lowerIndex + upperIndex) / 2);\n    currentValue = stops[currentIndex];\n    nextValue = stops[currentIndex + 1];\n    if (currentValue <= input) {\n      if (currentIndex === lastIndex ||\n input < nextValue) { // Search complete\n        return currentIndex;\n      }\n      lowerIndex =\n 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  return 0;\n}\n\n", "// @flow\n\nimport\n {NumberType} from './types';\nimport {findStopLessThanOrEqualTo} from './stops';\nimport type {Stops}\n from './stops';\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\nexport class Step implements Expression {\n  type: Type;\n  input: Expression;\n  labels:\n Array<number>;\n  outputs: Array<Expression>;\n\n  constructor(type: Type, input: Expression, stops: Stops) {\n    this.type = type;\n    this.input = input;\n    this.labels = [];\n    this.outputs = [];\n    for (const [label,\n 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    if\n ((args.length - 1) % 2 !== 0) {\n      return context.error('Expected an even number of arguments.);\n    }\n    const input = context.parse(args[1], 1, NumberType);\n    if (!input) return null;\n    const stops: Stops =\n [];\n    let outputType: Type = (null: any);\n    if (context.expectedType && context.expectedType.kind !==\n 'value') {\n      outputType = context.expectedType;\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\n for \"step\" expressions must be defined using literal numeric values (not computed expressions) for the input\n values.', labelKey);\n      }\n      if (stops.length && stops[stops.length - 1][0] >= label) {\n        return\n context.error('Input/output pairs for \"step\" expressions must be arranged with input values in strictly ascending\n order.', labelKey);\n      }\n      const parsed = context.parse(value, valueKey, outputType);\n      if\n (!parsed) return null;\n      outputType = outputType || parsed.type;\n      stops.push([label, parsed]);\n    }\n    return new Step(outputType, input, stops);\n  }\n\n  evaluate(ctx: EvaluationContext) {\n    const\n labels = this.labels;\n    const outputs = this.outputs;\n    if (labels.length === 1) {\n      return\n outputs[0].evaluate(ctx);\n    }\n    const value = (((this.input.evaluate(ctx): any): number);\n if (value <=\n labels[0]) {\n      return outputs[0].evaluate(ctx);\n    }\n    const stopCount = labels.length;\n    if (value\n >= labels[stopCount - 1]) {\n      return outputs[stopCount - 1].evaluate(ctx);\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      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\n or without\n * modification, are permitted provided that the following conditions\n * are met:\n * 1. Redistributions\n 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

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

```
*\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  this.cy = 3.0 * p1y;\n  this.by = 3.0 * (p2y - p1y) - this.cy;\n  this.ay = 1.0 - this.cy - this.by;\n  this.p1x = p1x;\n  this.p1y = p1y;\n  this.p2x = p2x;\n  this.p2y = p2y;\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')\n      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      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      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  \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.a\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    \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\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
|\n  { name: 'exponential', base: number }\n
|\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 -

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1) % 2 !== 0) {\n      return context.error(`Expected an even number of arguments.`);\n    }\n\n    input =\n    context.parse(input, 2, NumberType);\n    if (!input) return null;\n\n    const stops: Stops = [];\n    let\n    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 =\n      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\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 `\"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\n      outputType = outputType || parsed.type;\n      stops.push([label, parsed]);\n    }\n\n    if (outputType.kind\n    !== '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.`);\n    }\n\n    return new\n    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\n      outputs[0].evaluate(ctx);\n    }\n\n    const value = ((this.input.evaluate(ctx): any): number);\n    if (value <=\n    labels[0]) {\n      return outputs[0].evaluate(ctx);\n    }\n\n    const stopCount = labels.length;\n    if (value\n    >= labels[stopCount - 1]) {\n      return outputs[stopCount - 1].evaluate(ctx);\n    }\n\n    const index =\n    findStopLessThanOrEqualTo(labels, value);\n    const lower = labels[index];\n    const upper = labels[index +\n    1];\n    const t = Interpolate.interpolationFactor(this.interpolation, value, lower, upper);\n    const\n    outputLower = outputs[index].evaluate(ctx);\n    const outputUpper = outputs[index + 1].evaluate(ctx);\n\n    if\n    (this.operator === 'interpolate') {\n      return (interpolate[this.type.kind.toLowerCase()]: any)(outputLower,\n      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 =>\n    out.outputDefined());\n  }\n\n  serialize(): Array<mixed> {\n    let interpolation;\n    if\n    (this.interpolation.name === 'linear') {\n      interpolation = [\"linear\"];\n    } else if (this.interpolation.name\n    === 'exponential') {\n      if (this.interpolation.base === 1) {\n        interpolation = [\"linear\"];\n      }\n    } else {\n      interpolation = [\"exponential\", this.interpolation.base];\n    }\n\n    interpolation = [\"cubic-bezier\" ].concat(this.interpolation.controlPoints);\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\n  return\n  serialized;\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 *`  


$$base^x + b$$
  

    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.\n * Here's a bit of algebra that lets us compute `f(x)` directly  

    from the stop values without explicitly solving for `a` and `b`:\n * First stop value:  $f(x_0) = y_0 = a * base^{x_0} + b$ \n * Second stop value:  $f(x_1) = y_1 = a * base^{x_1} + b$   $\Rightarrow y_1 - y_0 = a(base^{x_1} - base^{x_0})$   $\Rightarrow a = (y_1 - y_0) / (base^{x_1} - base^{x_0})$ \n * Desired value:  $f(x) = y = a * base^x + b$   $\Rightarrow f(x) = y_0 + a * (base^x - base^{x_0})$ \n * From the above, we can replace the `a` in  $a * (base^x - base^{x_0})$  and do a little algebra:\n *  $a * (base^x - base^{x_0}) = (y_1 - y_0) / (base^{x_1} - base^{x_0}) * (base^x - base^{x_0}) = (y_1 - y_0) * (base^x - base^{x_0}) / (base^{x_1} - base^{x_0})$ \n * If we let  $(base^x - base^{x_0}) / (base^{x_1} - base^{x_0})$ , 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`,  $(base^{(x-x_0)} - 1) / (base^{(x_1-x_0)} - 1)$ )

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- 1) ``, is equivalent, but requires fewer\n * expensive `Math.pow()` operations.)\n * \n * @private\n */\nfunction\nexponentialInterpolation(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}\n\nexport default Interpolate;\n", "/* @flow\n\nimport assert from 'assert';\nimport { checkSubtype, ValueType } from '../types';\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 { Type } from '../types';\n\nclass Coalesce implements Expression {\n  type: Type;\n  args: Array<Expression>;\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\n    outputType: Type = (null: any);\n    const expectedType = context.expectedType;\n    if (expectedType &&\n    expectedType.kind !== 'value') {\n      outputType = expectedType;\n    }\n    const parsedArgs = [];\n\n    for (const arg of args.slice(1)) {\n      const parsed = context.parse(arg, 1 + parsedArgs.length, outputType,\n      undefined, { typeAnnotation: 'omit' });\n      if (!parsed) return null;\n      outputType = outputType ||\n      parsed.type;\n      parsedArgs.push(parsed);\n    }\n\n    assert(outputType);\n\n    // Above, we parse\n    arguments without inferred type annotation so that\n    // they don't produce a runtime error for `null` input, which\n    would\n    // preempt the desired null-coalescing behavior.\n    // Thus, if any of our arguments would have\n    needed an annotation, we\n    // need to wrap the enclosing coalesce expression with it instead.\n    const\n    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\n      (result && result instanceof ResolvedImage && !result.available) {\n        if (!requestedImageName) {\n          requestedImageName = result.name;\n        }\n        result = null;\n        if (argCount ===\n        this.args.length) {\n          result = requestedImageName;\n        }\n      }\n      if (result !== null)\n        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 =>\n    arg.outputDefined());\n  }\n\n  serialize() {\n    const serialized = ["coalesce"];\n    this.eachChild(child =>\n    { serialized.push(child.serialize()); });\n    return serialized;\n  }\n}\n\nexport default Coalesce;\n", "/*\n@flow\nimport type { Type } from '../types';\nimport type { Expression } from '../expression';\nimport type\nParsingContext from '../parsing_context';\nimport type EvaluationContext from '../evaluation_context';\n\nclass Let\nimplements Expression {\n  type: Type;\n  bindings: Array<[string, Expression]>;\n  result: Expression;\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\n    this.bindings) {\n      fn(binding[1]);\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\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    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 Let(bindings, result);\n  }\n\n  outputDefined() {\n    return

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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\nexport default Let;\n\"// @flow\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\nexport default At;\n\"// @flow\n\nimport
{BooleanType, StringType, ValueType, NullType, toString, NumberType, isValidType, isValidNativeType} from
 '../types';\n\nimport RuntimeError from '../runtime_error';\n\nimport {typeOf} from '../values';\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 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
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 (!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        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
        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\"// @flow\n\nimport
{BooleanType, StringType, ValueType, NullType, toString, NumberType, isValidType, isValidNativeType} from
 '../types';\n\nimport RuntimeError from '../runtime_error';\n\nimport {typeOf} from '../values';\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 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

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    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    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\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    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\n"/ @flow\n\nimport assert from 'assert';\n\nimport
{typeOf} from '../values';\n\nimport {ValueType, 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// Map input label values to output expression index\ntype Cases = {[number | string]:
number};\n\nnclass 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 ||

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result.type;\n      outputs.push(result);\n    }\n\n    const input = context.parse(args[1], 1, ValueType);\n    if (!input) return null;\n\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\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 = 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\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    }\n\n    serialized.push(this.otherwise.serialize());\n    return serialized;\n  }\n}\n\nexport default Match;\n", "\n@flow\n\nimport assert from 'assert';\n\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\nntype 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\n    let outputType: ?Type;\n    if (context.expectedType && context.expectedType.kind !== 'value') {\n      outputType = 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 = 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 = 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\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

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Case;\n", "// @flow\n\nimport { ValueType, NumberType, StringType, array, toString, 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\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\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    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
Slice(input.type, input, beginIndex);\n    }\n\n    evaluate(ctx: EvaluationContext) {\n      const input =
(this.input.evaluate(ctx): any);\n      const beginIndex = (this.beginIndex.evaluate(ctx): number);\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      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: (c: 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      return ["slice", this.input.serialize(), this.beginIndex.serialize()];\n    }\n\n  }\n\n  export
default Slice;\n\n", "// @flow\n\nimport { toString, ValueType, BooleanType, CollatorType } from './types';\nimport
Assertion from './assertion';\nimport { typeOf } from './values';\nimport RuntimeError from
'./runtime_error';\n\nimport type { Expression } from './expression';\nimport type EvaluationContext from
'./evaluation_context';\nimport type ParsingContext from './parsing_context';\nimport type { Type } from
'./types';\n\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) { return a === b;\n
}\nfunction neq(ctx, a, b) { return a !== b;\n}\nfunction lt(ctx, a, b) { return a < b;\n}\nfunction gt(ctx, a, b) { return a
> b;\n}\nfunction lteq(ctx, a, b) { return a <= b;\n}\nfunction gteq(ctx, a, b) { return a >= b;\n}\nfunction
eqCollate(ctx, a, b, c) { return c.compare(a, b) === 0;\n}\nfunction neqCollate(ctx, a, b, c) { return !eqCollate(ctx, a,
b, c);\n}\nfunction ltCollate(ctx, a, b, c) { return c.compare(a, b) < 0;\n}\nfunction gtCollate(ctx, a, b, c) { return
c.compare(a, b) > 0;\n}\nfunction lteqCollate(ctx, a, b, c) { return c.compare(a, b) <= 0;\n}\nfunction gteqCollate(ctx,
a, b, c) { 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 * - (value, value, ?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\n * true.\n * When types don't match in an ordering
comparison, a runtime error is thrown.\n */\n * @private\n */\nfunction makeComparison(op: ComparisonOperator,
compareBasic, compareWithCollator) {\n  const isOrderComparison = op !== '==' && op !== '!=';\n\n  return
class Comparison implements Expression {\n    type: Type;\n    lhs: Expression;\n    rhs: Expression;\n
collator: ?Expression;\n    hasUntypedArgument: boolean;\n\n    constructor(lhs: Expression, rhs: Expression,

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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, StringType);\n      if (!locale) return null;\n    }\n\n    let currency = null;\n    if (options['currency']) {\n      currency = context.parse(options['currency'], 1, StringType);\n      if (!currency) return null;\n    }\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\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\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    return [ `number-format`, this.number.serialize(), options ];\n  }\n}\n\n// @flow\n\nimport { NumberType, toString } from `./types`;\nimport { typeOf } from `./values`;\nimport RuntimeError from `./runtime_error`;\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    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\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\nexport default Length;\n\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

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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) -\n                b.evaluate(ctx)\n            ],\n            [\n                [NumberType],\n                (ctx, [a]) => -a.evaluate(ctx)\n            ]\n        ],\n    },\n    '/': {\n        type: NumberType,\n        overloads: [\n            [NumberType, NumberType],\n            (ctx, [a, b]) => a.evaluate(ctx) /\n            b.evaluate(ctx)\n        ],\n    },\n    '%': {\n        type: NumberType,\n        overloads: [\n            [NumberType, NumberType],\n            (ctx, [a, b]) =>\n            a.evaluate(ctx) % b.evaluate(ctx)\n        ],\n    },\n    'ln2': {\n        type: NumberType,\n        overloads: [\n            [],\n            () => Math.LN2\n        ],\n    },\n    'pi': {\n        type: NumberType,\n        overloads: [\n            [],\n            () => Math.PI\n        ],\n    },\n    'e': {\n        type: NumberType,\n        overloads: [\n            [],\n            () =>\n            Math.E\n        ],\n    },\n    '^': {\n        type: NumberType,\n        overloads: [\n            [NumberType, NumberType],\n            (ctx, [b, e]) =>\n            Math.pow(b.evaluate(ctx), e.evaluate(ctx))\n        ],\n    },\n    'sqrt': {\n        type: NumberType,\n        overloads: [\n            [NumberType],\n            (ctx, [x]) => Math.sqrt(x.evaluate(ctx))\n        ],\n    },\n    'log10': {\n        type: NumberType,\n        overloads: [\n            [NumberType],\n            (ctx, [n]) =>\n            Math.log(n.evaluate(ctx)) / Math.LN10\n        ],\n    },\n    'ln': {\n        type: NumberType,\n        overloads: [\n            [NumberType],\n            (ctx, [n])\n            => Math.log(n.evaluate(ctx))\n        ],\n    },\n    'log2': {\n        type: NumberType,\n        overloads: [\n            [NumberType],\n            (ctx, [n]) =>\n            Math.log(n.evaluate(ctx)) / Math.LN2\n        ],\n    },\n    'sin': {\n        type: NumberType,\n        overloads: [\n            [NumberType],\n            (ctx, [n])\n            => Math.sin(n.evaluate(ctx))\n        ],\n    },\n    'cos': {\n        type: NumberType,\n        overloads: [\n            [NumberType],\n            (ctx, [n]) =>\n            Math.cos(n.evaluate(ctx))\n        ],\n    },\n    'tan': {\n        type: NumberType,\n        overloads: [\n            [NumberType],\n            (ctx, [n]) =>\n            Math.tan(n.evaluate(ctx))\n        ],\n    },\n    'asin': {\n        type: NumberType,\n        overloads: [\n            [NumberType],\n            (ctx, [n]) =>\n            Math.asin(n.evaluate(ctx))\n        ],\n    },\n    'acos': {\n        type: NumberType,\n        overloads: [\n            [NumberType],\n            (ctx, [n]) =>\n            Math.acos(n.evaluate(ctx))\n        ],\n    },\n    'atan': {\n        type: NumberType,\n        overloads: [\n            [NumberType],\n            (ctx, [n]) =>\n            Math.atan(n.evaluate(ctx))\n        ],\n    },\n    'min': {\n        type: NumberType,\n        overloads: [\n            varargs(NumberType),\n            (ctx, args) =>\n            Math.min(...args.map(arg => arg.evaluate(ctx)))\n        ],\n    },\n    'max': {\n        type: NumberType,\n        overloads: [\n            varargs(NumberType),\n            (ctx, args) => Math.max(...args.map(arg => arg.evaluate(ctx)))\n        ],\n    },\n    'abs': {\n        type: NumberType,\n        overloads: [\n            [NumberType],\n            (ctx, [n]) => Math.abs(n.evaluate(ctx))\n        ],\n    },\n    'round': {\n        type: NumberType,\n        overloads: [\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    },\n    'floor': {\n        type: NumberType,\n        overloads: [\n            [NumberType],\n            (ctx, [n]) =>\n            Math.floor(n.evaluate(ctx))\n        ],\n    },\n    'ceil': {\n        type: NumberType,\n        overloads: [\n            [NumberType],\n            (ctx, [n]) =>\n            Math.ceil(n.evaluate(ctx))\n        ],\n    },\n    'filter-==': {\n        type: BooleanType,\n        overloads: [\n            [StringType, ValueType],\n            (ctx, [k, v]) => ctx.properties()[(k: any).value]\n            === (v: any).value\n        ],\n    },\n    'filter-id-==': {\n        type: BooleanType,\n        overloads: [\n            [ValueType],\n            (ctx, [v]) => ctx.id() === (v: any).value\n        ],\n    },\n    'filter-type-==': {\n        type: BooleanType,\n        overloads: [\n            [StringType],\n            (ctx, [v]) => ctx.geometryType() === (v: any).value\n        ],\n    },\n    'filter-<': {\n        type: BooleanType,\n        overloads: [\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    },\n    'filter-id-<': {\n        type: BooleanType,\n        overloads: [\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    },\n    'filter->': {\n        type: BooleanType,\n        overloads: [\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    },\n    'filter-id->': {\n        type: BooleanType,\n        overloads: [\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    },\n    'filter-<=': {\n        type: BooleanType,\n        overloads: [\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    },\n    'filter-id-<=': {\n        type: BooleanType,\n        overloads: [\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    },\n    'filter->=': {\n        type: BooleanType,\n        overloads: [\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    },\n    'filter-id->=': {\n        type: BooleanType,\n        overloads: [\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    },\n    'filter-has': {\n        type: BooleanType,\n        overloads: [\n            [ValueType],\n            (ctx, [k]) => (k: any).value in ctx.properties()\n        ],\n    },\n    'filter-has-id': {\n        type: BooleanType,\n        overloads: [\n            [ValueType],\n            (ctx, [k]) => (k: any).value in ctx.properties()\n        ],\n    },

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[],\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()) >= 0\n    ],\n    'filter-id-in':\n    [\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\n      ascending order and of a single type\n      (ctx, [k, v]) => binarySearch(ctx.properties()[(k: any).value], (v:\n      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,\n            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          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 isGlobalPropertyConstant\n          (ctx, [s]) => {\n            const\n            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 =>\n          valueToString(arg.evaluate(ctx))).join("")\n        ],\n        'resolved-locale': [\n          StringType,\n          [CollatorType],\n          (ctx, [collator]) => collator.evaluate(ctx).resolvedLocale()\n        ]\n      }\n    }\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\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  | {| result: 'success', value: T |}\n  | {| result: 'error', value: E |};\n\nexport\nfunction success<T, E>(value: T): Result<T, E> {\n  return {result: 'success', value};\n}\n\nexport function\nerror<T, E>(value: E): Result<T, E> {\n  return {result: 'error', value};\n}\n\n"/\n\n@flow\n\nimport type\n{StylePropertySpecification} from './style-spec';\n\nexport function supportsPropertyExpression(spec:\nStylePropertySpecification): boolean {\n  return spec['property-type'] === 'data-driven' || spec['property-type'] ===\n'cross-faded-data-driven';\n}\n\nexport function supportsZoomExpression(spec: StylePropertySpecification):\nboolean {\n  return !!spec.expression && spec.expression.parameters.indexOf('zoom') > -1;\n}\n\nexport function\nsupportsInterpolation(spec: StylePropertySpecification): boolean {\n  return !!spec.expression &&\nspec.expression.interpolated;\n}\n\n"/\n\n@flow\n\nexport default function getType(val: mixed): string {\n  if (val\ninstanceof Number) {\n    return 'number';\n  } else if (val instanceof String) {\n    return 'string';\n  } else if\n(val instanceof Boolean) {\n    return 'boolean';\n  } else if (Array.isArray(val)) {\n    return 'array';\n  } else\nif (val === null) {\n    return 'null';\n  } else {\n    return typeof val;\n  }\n}\n\n"/\n\nimport * as colorSpaces\nfrom './util/color_spaces';\nimport Color from './util/color';\nimport extend from './util/extend';\nimport getType\nfrom './util/get_type';\nimport * as interpolate from './util/interpolate';\nimport Interpolate from\n'./expression/definitions/interpolate';\nimport Formatted from './expression/types/formatted';\nimport\nResolvedImage from './expression/types/resolved_image';\nimport {supportsInterpolation} from\n'./util/properties';\nimport {findStopLessThanOrEqualTo} from './expression/stops';\n\nexport function\nisFunction(value) {\n  return typeof value === 'object' && value !== null &&\n!Array.isArray(value);\n}\n\nfunction identityFunction(x) {\n  return x;\n}\n\nexport function\ncreateFunction(parameters, propertySpec) {\n  const isColor = propertySpec.type === 'color';\n  const\nzoomAndFeatureDependent = 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: ${parameters.colorSpace}`);\n    }\n\n    let innerFun;\n    let hashedStops;\n    let
categoricalKeyType;\n    if (type === 'exponential') {\n      innerFun = evaluateExponentialFunction;\n    } else if
(type === 'interval') {\n      innerFun = evaluateIntervalFunction;\n    } else if (type === 'categorical') {\n
innerFun = evaluateCategoricalFunction;\n\n    // For categorical functions, generate an Object as a hashmap of
the stops for fast searching\n      hashedStops = Object.create(null);\n      for (const stop of parameters.stops) {\n
hashedStops[stop[0]] = stop[1];\n      }\n\n      // Infer key type based on first stop key-- used to enforce strict
type checking later\n      categoricalKeyType = typeof parameters.stops[0][0];\n    } else if (type === 'identity')
{\n      innerFun = evaluateIdentityFunction;\n    } else {\n      throw new Error(`Unknown function type
"${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' ? {\n        name: 'exponential', base:
parameters.base !== undefined ? parameters.base : 1\n      } : 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    function coalesce(a, b, c)
{\n      if (a !== undefined) return a;\n      if (b !== undefined) return b;\n      if (c !== undefined) return c;\n    }\n\n    function 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\n    function 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      const index = findStopLessThanOrEqualTo(parameters.stops.map((stop) =>
stop[0]), input);\n      return parameters.stops[index][1];\n    }\n\n    function evaluateExponentialFunction(parameters,
propertySpec, input) {\n      const base = parameters.base !== undefined ? parameters.base : 1;\n      // Edge cases\n

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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 *\n * Second stop value: `f(x1) = y1 = a * base^x1 +
b`\n *\n * => `y1 - y0 = a(base^x1 - base^x0)`\n *\n * => `a = (y1 - y0) / (base^x1 - base^x0)`\n *\n * Desired value: `f(x) =
y = a * base^x + b`\n *\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 *\n * `= (y1 - y0) * (base^x - base^x0) / (base^x1 - base^x0)`\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';\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';\nimport type Point from '@mapbox/point-

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geometry';\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<any>};\n\nexport class StyleExpression {\n  expression: Expression;\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 ?\n    getDefaultValue(propertySpec) : null;\n    this._enumValues = propertySpec && propertySpec.type === 'enum' ?\n    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      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 * @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, 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  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,

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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\nexport type ConstantExpression = {\n kind:
'constant',\n +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):

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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 "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\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\n  if (spec.type === 'array') {\n    return array(types[spec.value] ||
ValueType, spec.length);\n  }\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\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

```



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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\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

```



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{\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        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\nexport type 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 * 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 *\n * [ "any", [ "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` 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 * \function _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
['!', _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  return 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// ]\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 === '$id') {\n    get =
['id'];\n  } else {\n    get = ['get', property];\n  }\n\n  if (expectedTypes && value !== null) {\n    const type
= ((typeof value): any);\n    expectedTypes[property] = type;\n  }\n\n  if (op === '==' && property !== '$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 !== '$id' && value === null) {\n    return [\n
      'any',\n      ['!', ['has', property]], // missing property != null for legacy filters\n      ['!=', get, null]\n
    ];\n  }\n\n  return [op, get, value];\n}\n\nfunction convertInOp(property: string, values: Array<any>, negate =
false) {\n  if (values.length === 0) return negate;\n\n  let get;\n  if (property === '$type') {\n    get =
['geometry-type'];\n  } else if (property === '$id') {\n    get = ['id'];\n  } else {\n    get = ['get', property];\n
}\n\n  // Determine if the list of values to be searched is homogenously typed.\n  // If so (and if the type is string or
number), then we can use a\n  // [match, input, [...values], true, false] construction rather than a\n  // bunch of '=='
tests.\n  let uniformTypes = true;\n  const type = typeof values[0];\n  for (const value of values) {\n    if
(typeof value !== type) {\n      uniformTypes = false;\n      break;\n    }\n  }\n\n  if (uniformTypes &&
(type === 'string' || type === 'number')) {\n    // Match expressions must have unique values.\n    const
uniqueValues = values.sort().filter((v, i) => i === 0 || values[i - 1] !== v);\n    return ['match', get, uniqueValues,
!negate, negate];\n  }\n\n  return [negate ? 'all' : 'any'].concat(\n    values.map(v => [negate ? '!=' : '==', get,
v])\n  );\n}\n\nfunction convertHasOp(property: string) {\n  if (property === '$type') {\n    return true;\n  }
else if (property === '$id') {\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';\n\nimport type {StyleSpecification} from '../types';\n\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\n * \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\n  eachProperty(style, {paint: true, layout: true}, ({path, value, reference, set}) => {\n    if

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(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", "\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\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", "\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
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\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\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\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    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", "\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\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\n    return a === b;\n}\n\nexport default deepEqual;\n\n", "\nimport isEqual from
 './util/deep_equal';\n\nconst 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:

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'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\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\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\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 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\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:
[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 =

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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
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        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        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 stylesheet\n    *\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    * \n    * Example diff:\n    * {\n    *   { command: 'setConstant', args: ['@water', '#0000FF'] },\n    *   {\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    */\n    function diffStyles(before, after) {\n        if (!before) return [{ command: operations.setStyle, args:
[after]}];\n        let commands = [];\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
            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,

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after.pitch)) {\n      commands.push({command: operations.setPitch, args: [after.pitch]});\n    }\n    if\n    (!isEqual(before.sprite, after.sprite)) {\n      commands.push({command: operations.setSprite, args:\n    [after.sprite]});\n    }\n    if (!isEqual(before.glyphs, after.glyphs)) {\n      commands.push({command:\n    operations.setGlyphs, args: [after.glyphs]});\n    }\n    if (!isEqual(before.transition, after.transition)) {\n\n    commands.push({command: operations.setTransition, args: [after.transition]});\n    }\n    if\n    (!isEqual(before.light, after.light)) {\n      commands.push({command: operations.setLight, args:\n    [after.light]});\n    }\n\n    // Handle changes to `sources`\n    // If a source is to be removed, we also--before\n    the removeSource\n    // command--need to remove all the style layers that depend on it.\n    const\n    sourcesRemoved = {};\n\n    // First collect the {add,remove}Source commands\n    const\n    removeOrAddSourceCommands = [];\n\n    diffSources(before.sources, after.sources,\n    removeOrAddSourceCommands, sourcesRemoved);\n\n    // Push a removeLayer command for each style layer\n    that depends on a\n    // source that's being removed.\n    // Also, exclude any such layers them from the input to\n    `diffLayers`\n    // below, so that diffLayers produces the appropriate `addLayers`\n    // command\n    const\n    beforeLayers = [];\n\n    if (before.layers) {\n      before.layers.forEach((layer) => {\n        if\n        (sourcesRemoved[layer.source]) {\n          commands.push({command: operations.removeLayer, args:\n        [layer.id]});\n        } else {\n          beforeLayers.push(layer);\n        }\n      });\n    }\n\n    commands = commands.concat(removeOrAddSourceCommands);\n\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\n  return commands;\n}\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 ? `${key}: ` : '') + message;\n    if (identifier)\n    this.identifier = identifier;\n\n    if (value !== null && value !== undefined && value.__line__) {\n      this.line = value.__line__;\n    }\n  }\n\n  toString() {\n    return `${this.message}${this.identifier ? ' ' + this.identifier : ''}${this.line ? '\nline: ' + this.line : ''}`;\n  }\n}\n\n// Note: Do not inherit from Error. It breaks when\ntranspiling to ES5.\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\n    const match =\n    error.message.match(/line (\\d+)/);\n\n    this.line = match ? parseInt(match[1], 10) : 0;\n  }\n\n  toString() {\n    return `${this.message}${this.error ? '\nerror: ' + this.error.message : ''}${this.line ? '\nline: ' + this.line : ''}`;\n  }\n}\n\nimport\nValidationError from './error/validation_error';\nexport default function validateConstants(options) {\n  const\n  key = options.key;\n  const constants = options.value;\n\n  if (constants) {\n    return [new ValidationError(key,\n    constants, 'constants have been deprecated as of v8')];\n  } else {\n    return [];\n  }\n}\n\n// @flow\n\n// Turn\njsonlint-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\n    for (const key in value) {\n      unbundledValue[key] =\n      deepUnbundle(value[key]);\n    }\n\n    return unbundledValue;\n  }\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\n  key = options.key;\n  const object = options.value;\n  const elementSpecs = options.valueSpec || {};\n\n  const elementValidators = options.objectElementValidators || {};\n  const style = options.style;\n  const styleSpec\n  = options.styleSpec;\n  let errors = [];\n\n  const type = getType(object);\n  if (type !== 'object') {\n    return\n    [new ValidationError(key, object, `object expected, ${type} found`)];\n  }\n\n  for (const objectKey in object) {\n\n    const elementSpecKey = objectKey.split('.')[0]; // treat 'paint.*' as 'paint'\n    const elementSpec =\n    elementSpecs[elementSpecKey] || elementSpecs['*'];\n\n    let validateElement;\n\n    if\n    (elementValidators[elementSpecKey]) {\n      validateElement = elementValidators[elementSpecKey];\n    }\n\n    else if (elementSpecs[elementSpecKey]) {\n      validateElement = validateSpec;\n    } else if

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(elementValidators['*']) {\n      validateElement = elementValidators['*'];\n    } else if (elementSpecs['*']) {\n      validateElement = validateSpec;\n    } else {\n      errors.push(new ValidationError(key,\nobject[objectKey], `unknown property \"${objectKey}\"`));\n      continue;\n    }\n    errors =\nerrors.concat(validateElement({\n      key: (key ? `${key}` : key) + objectKey,\n      value:\nobject[objectKey],\n      valueSpec: elementSpec,\n      style,\n      styleSpec,\n      object,\nobjectKey\n    }, object));\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    if (elementSpecs[elementSpecKey].required &&\nelementSpecs[elementSpecKey]['default'] === undefined && object[elementSpecKey] === undefined) {\n      errors.push(new ValidationError(key, object, `missing required property \"${elementSpecKey}\"`));\n    }\n  }\n  return errors;\n}\n", "\nimport getType from './util/get_type';\nimport validate from './validate';\nimport\nValidationError from './error/validation_error';\n\nexport default function validateArray(options) {\n  const array =\noptions.value;\n  const arraySpec = options.valueSpec;\n  const style = options.style;\n  const styleSpec =\noptions.styleSpec;\n  const key = options.key;\n  const validateArrayElement = options.arrayElementValidator ||\nvalidate;\n\n  if (getType(array) !== 'array') {\n    return [new ValidationError(key, array, `array expected,\n${getType(array)} found`)];\n  }\n\n  if (arraySpec.length && array.length !== arraySpec.length) {\n    return\n[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\nValidationError(key, array, `array length at least ${arraySpec['min-length']} expected, length ${array.length}\nfound`)];\n  }\n\n  let arrayElementSpec = {\n    'type': arraySpec.value,\n    'values': arraySpec.values\n  };\n\n  if (styleSpec.$version < 7) {\n    arrayElementSpec.function = arraySpec.function;\n  }\n\n  if\n(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,\narrayIndex: i,\n      value: array[i],\n      valueSpec: arrayElementSpec,\n      style,\n      styleSpec,\n      key: `${key}[${i}]`\n    }));\n  }\n  return errors;\n}\n", "\nimport getType from './util/get_type';\nimport\nValidationError from './error/validation_error';\n\nexport default function validateNumber(options) {\n  const key =\noptions.key;\n  const value = options.value;\n  const valueSpec = options.valueSpec;\n  let type =\ngetType(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\nexpected, ${type} found`)];\n  }\n\n  if ('minimum' in valueSpec && value < valueSpec.minimum) {\n    return\n[new ValidationError(key, value, `${value} is less than the minimum value ${valueSpec.minimum}`)];\n  }\n\n  if ('maximum' in valueSpec && value > valueSpec.maximum) {\n    return [new ValidationError(key, value,\n`${value} is greater than the maximum value ${valueSpec.maximum}`)];\n  }\n\n  return [];\n}\n", "\nimport\nValidationError from './error/validation_error';\nimport getType from './util/get_type';\nimport validate from\n'./validate';\nimport validateObject from './validate_object';\nimport validateArray from './validate_array';\nimport\nvalidateNumber from './validate_number';\nimport {isExpression} from './expression';\nimport {unbundle,\ndeepUnbundle} from './util/unbundle_jsonlint';\nimport {\n  supportsPropertyExpression,\nsupportsZoomExpression,\nsupportsInterpolation\n} from './util/properties';\n\nexport default function\nvalidateFunction(options) {\n  const functionValueSpec = options.valueSpec;\n  const functionType =\nunbundle(options.value.type);\n  let stopKeyType;\n  let stopDomainValues = {};\n  let\npreviousStopDomainValue;\n  let previousStopDomainZoom;\n\n  const isZoomFunction = functionType !==\n'categorical' && options.value.property === undefined;\n  const isPropertyFunction = !isZoomFunction;\n  const\nisZoomAndPropertyFunction =\n  getType(options.value.stops) === 'array' &&\n  getType(options.value.stops[0]) === 'array' &&\n  getType(options.value.stops[0][0]) === 'object';\n\n  const\nerrors = validateObject({\n    key: options.key,\n    value: options.value,\n    valueSpec:\noptions.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

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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\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, ${getType(value[0])} found`);\n      ]\n
      if (value[0].zoom === undefined) {\n        return [new ValidationError(key, value, 'object stop key
must have zoom');\n      ]\n      if (value[0].value === undefined) {\n        return [new
ValidationError(key, value, 'object stop key must have value');\n      ]\n      if (previousStopDomainZoom
&& previousStopDomainZoom > unbundle(value[0].zoom)) {\n        return [new ValidationError(key,
value[0].zoom, 'stop zoom values must appear in ascending order');\n      ]\n      if (unbundle(value[0].zoom)
!== previousStopDomainZoom) {\n        previousStopDomainZoom = unbundle(value[0].zoom);\n
        previousStopDomainValue = undefined;\n        stopDomainValues = { };\n      }\n      errors =
errors.concat(validateObject({\n        key: `${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: `${key}[1]`,\n      value: value[1],\n      valueSpec:
functionValueSpec,\n      style: options.style,\n      styleSpec: options.styleSpec\n    }));\n  }\n\n  function validateStopDomainValue(options, stop) {\n    const type = getType(options.value);\n    const value =
unbundle(options.value);\n\n    const reportValue = options.value !== null ? options.value : stop;\n\n    if
(!stopKeyType) {\n      stopKeyType = type;\n    } else if (type !== stopKeyType) {\n      return [new
ValidationError(options.key, reportValue, `${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
    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

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        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.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\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",`\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",`\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}\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

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ValidationError(key, value, `expected one of [${Object.keys(valueSpec.values).join(', ')}], ${JSON.stringify(value)}
found`));\n    }\n    }\n    return errors;\n}\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    if (getType(value) !== 'array') {\n        return [new
ValidationError(key, value, `array expected, ${getType(value)} found`)];\n    }\n\n    const styleSpec =
options.styleSpec;\n    let type;\n    let errors = [];\n    if (value.length < 1) {\n        return [new
ValidationError(key, value, 'filter array must have at least 1 element')];\n    }\n\n    errors =
errors.concat(validateEnum({\n        key: `${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 \"${value[0]}\"`));\n            }\n            /* falls through */\n        case '==':\n        case '!=':\n            if (value.length
!== 3) {\n                errors.push(new ValidationError(key, value, `filter array for operator \"${value[0]}\" must have 3
elements`));\n            }\n            /* falls through */\n        case 'in':\n        case 'lin':\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, ${type} found`));\n                }\n                for (let i = 2; i < value.length; i++) {\n
type = getType(value[i]);\n                if (unbundle(value[i]) === '$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, ${type} found`));\n
                }\n            }\n            break;\n        case 'any':\n        case 'all':\n        case 'none':\n            for (let i = 1; i < value.length; i++) {\n
errors = errors.concat(validateNonExpressionFilter({\n                key: `${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, ${type} found`));\n            }\n            break;\n    }\n    return errors;\n}\n\n", "\nimport validate from
'./validate';\nimport ValidationError from './error/validation_error';\nimport getType from './util/get_type';\nimport
{isFunction} from './function';\nimport {unbundle, deepUnbundle} from './util/unbundle_jsonlint';\nimport
{supportsPropertyExpression} from './util/properties';\n\nexport default function validateProperty(options,
propertyType) {\n    const key = options.key;\n    const style = options.style;\n    const styleSpec =
options.styleSpec;\n    const value = options.value;\n    const propertyKey = options.objectKey;\n    const layerSpec
= styleSpec[`${propertyType}_${options.layerType}`];\n\n    if (!layerSpec) return [];\n    const transitionMatch =
propertyKey.match(/^(.*)-transition$/);\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 =

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/^[({^}+)]$/).exec(value))) {\n    return [new ValidationError(\n        key, value,\n        `\"${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)) && 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';\n\nimport {unbundle} from './util/unbundle_jsonlint';\n\nimport
validateObject from './validate_object';\n\nimport validateFilter from './validate_filter';\n\nimport validatePaintProperty
from './validate_paint_property';\n\nimport validateLayoutProperty from './validate_layout_property';\n\nimport
validateSpec from './validate';\n\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    }\n\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 ${otherLayer.id.__line__}));\n            }\n        }\n\n        if ('ref' in layer) {\n            ['type', 'source',
'source-layer', 'filter', 'layout'].forEach((p) => {\n                if (p in layer) {\n                    errors.push(new
ValidationError(key, layer[p], `\"${p}\" is prohibited for ref layers`));\n                }\n            });\n\n            let parent;\n\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 \"${ref}\" not found`));\n            } else if
(parent.ref) {\n                errors.push(new ValidationError(key, layer.ref, 'ref cannot reference another ref layer'));\n            }
else {\n                type = unbundle(parent.type);\n            }\n\n            } else if (type !== 'background') {\n                if
(!layer.source) {\n                    errors.push(new ValidationError(key, layer, 'missing required property \"source\"'));\n                }
else {\n                    const source = style.sources && style.sources[layer.source];\n                    const sourceType = source
&& unbundle(source.type);\n\n                    if (!source) {\n                        errors.push(new ValidationError(key, layer.source,
`source \"${layer.source}\" not found`));\n                    }\n\n                    else if (sourceType === 'vector' && type === 'raster') {\n
                        errors.push(new ValidationError(key, layer.source, `layer \"${layer.id}\" requires a raster source`));\n                    }\n
else if (sourceType === 'raster' && type !== 'raster') {\n                        errors.push(new ValidationError(key, layer.source,
`layer \"${layer.id}\" requires a vector source`));\n                    }\n\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\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

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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            '*'(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\n  return errors;\n}\n\n","nimport getType from '../util/get_type';\nimport ValidationError from '../error/validation_error';\n\nexport default function validateString(options) {\n  const value = options.value;\n  const key = options.key;\n  const type = getType(value);\n\n  if (type !== 'string') {\n    return [new ValidationError(key, value, `string expected, ${type} found`)];\n  }\n\n  return [];\n}\n\n","nimport ValidationError from '../error/validation_error';\nimport {unbundle} from '../util/unbundle_jsonlint';\nimport validateObject from './validate_object';\nimport validateEnum from './validate_enum';\nimport validateExpression from './validate_expression';\nimport validateString from './validate_string';\nimport getType from '../util/get_type';\n\nconst objectElementValidators = {\n  promoteId: validatePromoteId\n};\n\nexport default function validateSource(options) {\n  const value = options.value;\n  const key = options.key;\n  const styleSpec = options.styleSpec;\n  const style = options.style;\n\n  if (!value.type) {\n    return [new ValidationError(key, value, `"type" is required`)];\n  }\n\n  const type = unbundle(value.type);\n  let errors;\n\n  switch (type) {\n    case 'vector':\n    case 'raster':\n    case 'raster-dem':\n      errors = validateObject({\n        key,\n        value,\n        valueSpec: styleSpec['source_${type.replace('-', '_')}'],\n        style: options.style,\n        styleSpec,\n        objectElementValidators\n      });\n      return errors;\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 reduceExpr = typeof operator === 'string' ? [operator, ['accumulated'], ['get', prop]] : operator;\n          errors.push(...validateExpression({\n            key: `${key}.${prop}.map`,\n            value: mapExpr,\n            expressionContext: 'cluster-map'\n          }));\n          errors.push(...validateExpression({\n            key: `${key}.${prop}.reduce`,\n            value: reduceExpr,\n            expressionContext: 'cluster-reduce'\n          }));\n        }\n      }\n\n      return errors;\n\n    case 'video':\n      return validateObject({\n        key,\n        value,\n        valueSpec: 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 runtime APIs to add canvas sources, rather than including them in stylesheets.`, 'source.canvas')];\n\n    default:\n      return validateEnum({\n        key: `${key}.type`,\n        value: value.type,\n        valueSpec: {values: ['vector', 'raster', 'raster-dem', 'geojson', 'video', 'image']},\n        style,\n        styleSpec\n      });\n  }\n}\n\nfunction validatePromoteId({key, value}) {\n  if (getType(value) === 'string') {\n    return validateString({key, value});\n  } else {\n    const errors = [];\n    for (const prop in value) {\n      errors.push(...validateString({key: `${key}.${prop}`, value: value[prop]}));\n    }\n    return errors;\n  }\n}\n\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  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    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
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        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    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    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    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\n// - key: string representing location of validation in style tree. Used only\n// for
more informative error reporting.\n\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\n// - valueSpec: current spec
being evaluated. Tracks value.\n\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    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", "\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    if
(value.indexOf('{fontstack}') === -1) {\n        errors.push(new ValidationError(key, value, "\"glyphs\" url must
include a \"{fontstack}\" token));\n    }\n    if (value.indexOf('{range}') === -1) {\n        errors.push(new
ValidationError(key, value, "\"glyphs\" url must include a \"{range}\" token));\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

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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    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);\n\nvalidateStyleMin.light =
wrapCleanErrors(validateLight);\n\nvalidateStyleMin.layer =
wrapCleanErrors(validateLayer);\n\nvalidateStyleMin.filter =
wrapCleanErrors(validateFilter);\n\nvalidateStyleMin.paintProperty =
wrapCleanErrors(validatePaintProperty);\n\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_,
$avoiding_name_collisions, YY_START),\n    rules: [...],\n    conditions: {associative list: name ==> set},\n
  }\n}\n\n token location info (@$, _$, etc.): {\n  first_line: n,\n  last_line: n,\n  first_column: n,\n
last_column: n,\n  range: [start_number, end_number] (where the numbers are indexes into the input string,
regular zero-based)\n}\n\n the parseError function receives a 'hash' object with these members for lexer and
parser errors: {\n  text: (matched text)\n  token: (the produced terminal token, if any)\n  line:
(yylineno)\n}\n\n while parser (grammar) errors will also provide these members, i.e. parser errors deliver a superset
of attributes: {\n  loc: (yylloc)\n  expected: (string describing the set of expected tokens)\n  recoverable:
(boolean: TRUE when the parser has a error recovery rule available for this particular error)\n}\n\n*/\n\nvar parser =
(function() {\n  var o=function(k,v,o,l){for(o=o||{};l=k.length;l--;o[k[l]]=v);return
o},$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],$V9=[22,24];\n  var parser = {trace: function trace() { },\n  yy: {},\n  symbols_:
{"error":2,"JSONString":3,"STRING":4,"JSONNumber":5,"NUMBER":6,"JSONNullLiteral":7,"NULL":8,"JSONBooleanLiteral":9,"TRUE":10,"FALSE":11,"JSONText":12,"JSONValue":13,"EOF":14,"JSONO
bject":15,"JSONArray":16,"{":17,"}":18,"JSONMemberList":19,"JSONMember":20,"":21,"":22,"[":23
,"]":24,"JSONElementList":25,"$accept":0,"$end":1},\n  terminals_:
{2:"error",4:"STRING",6:"NUMBER",8:"NULL",10:"TRUE",11:"FALSE",14:"EOF",17:"{",18:"}",21:":",22:"[",23:"]",24:"]"},\n  productions_:

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[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] */, $$
/* vstack */, _$ /* lstack */) {\n/* this == yyval */\n\nvar $0 = $.length - 1;\nswitch (yystate) {\ncase 1:\n // replace
escaped characters with actual character\n      this.$ = new String(yytext.replace(/\\(\\\\|\\\"|\\'|\\\\n|\\\\r|\\\\t|\\\\b|\\\\f|\\\\v)/g, \"$\"+'\"'+\"'\")\n
      .replace(/\\\\\\n/g, \"\\n\")\n      .replace(/\\\\\\r/g, \"\\r\")\n      .replace(/\\\\\\t/g, \"\\t\")\n
      .replace(/\\\\\\v/g, \"\\v\")\n      .replace(/\\\\\\f/g, \"\\f\")\n      .replace(/\\\\\\b/g, \"\\b\");\n      this.$.__line__ =
this.$.__first_line;\n      \nbreak;\ncase 2:\n\n      this.$ = new Number(yytext);\n      this.$.__line__ =
this.$.__first_line;\n      \nbreak;\ncase 3:\n\n      this.$ = null;\n      \nbreak;\ncase 4:\n\n      this.$ = new
Boolean(true);\n      this.$.__line__ = this.$.__first_line;\n      \nbreak;\ncase 5:\n\n      this.$ = new
Boolean(false);\n      this.$.__line__ = this.$.__first_line;\n      \nbreak;\ncase 6:\nreturn this.$ = $$[$0-
1];\nbreak;\ncase 13:\nthis.$ = {}; 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]; $[$0-2].push($[$0]); \nbreak;\n}\n},\ntable:
[{{3:5,4:$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 = [0], tstack = [], vstack = [null], lstack = [], table = this.table, yytext = "", yylineno = 0, yyleng = 0, recovering
= 0, TERROR = 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
> TERROR) {\n          expected.push("\" + this.terminals_[p] + "\");\n        }\n      }\n
if (lexer.showPosition) {\n        errStr = 'Parse error on line ' + (yylineno + 1) + ': '\n' + lexer.showPosition() +
'\n\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:

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lexer.match,\n          token: this.terminals_[symbol] || symbol,\n          line: lexer.yylineno,\nloc: yyloc,\n          expected: expected\n        });\n        }\n        if (action[0] instanceof Array &&\naction.length > 1) {\n          throw new Error('Parse Error: multiple actions possible at state: ' + state + ', token: ' +\nsymbol);\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 =\n            null;\n            if (!preErrorSymbol) {\n              yylen = lexer.yylen;\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 =\n              null;\n            }\n            break;\n          case 2:\n            len = this.productions_[action[1]][1];\n            yyval.$ =\nvstack[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 ||\n1)].first_column,\n              last_column: lstack[lstack.length - 1].last_column\n            };\n            if (ranges) {\n              yyval._$.range = [\n                lstack[lstack.length - (len || 1)].range[0],\n                lstack[lstack.length -\n1].range[1]\n              ];\n            }\n            r = this.performAction.apply(yyval, [\n              yytext,\n              yylen,\n              yylineno,\n              sharedState.yy,\n              action[1],\n              vstack,\n              lstack\n            ].concat(args));\n            if (typeof r !== 'undefined') {\n              return r;\n            }\n            if (len) {\n              stack = stack.slice(0, -1 * len * 2);\n              vstack = vstack.slice(0, -1 * len);\n              lstack = lstack.slice(0,\n-1 * len);\n            }\n            stack.push(this.productions_[action[1]][0]);\n            vstack.push(yyval.$);\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      /*\ngenerated by json-lex 0.3.4 *\nvar lexer = (function() {\n  var lexer = ({\n    EOF: 1,\n    parseError: function\nparseError(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\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 =\n['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 =\n0;\n      return this;\n    },\n    // consumes and returns one char from the input\n    input: function () {\n      var ch =\nthis._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    // unshifts\none char (or a string) into the input\n    unput: function (ch) {\n      var len = ch.length;\n      var lines =\nch.split(/(?:\\r\\n?|\\n)/g);\n      this._input = ch + this._input;\n      this.yytext = this.yytext.substr(0,\nthis.yytext.length - len);\n      //this.yyleng -= len;\n      this.offset -= len;\n      var oldLines =\nthis.match.split(/(?:\\r\\n?|\\n)/g);\n      this.match = this.match.substr(0, this.match.length - 1);\n      this.matched =\nthis.matched.substr(0, this.matched.length - 1);\n      if (lines.length - 1) {\n        this.yylineno -= lines.length -\n1;\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 ?\nlines.length : oldLines[oldLines.length -\nlines.length].length - lines[0].length\n      };\n      if\n(this.options.ranges) {\n        this.yylloc.range = [r[0], r[0] + this.yyleng - len];\n      }\n      this.yyleng =\nthis.yytext.length;\n      return this;\n    },\n    // When called from action, caches matched text and appends it on\nnext action\n    more: function () {\n      this._more = true;\n      return this;\n    },\n    // When called from action,\nsignals the lexer that this rule fails to match the input, so the next matching rule (regex) should be tested\n    instead.\n    reject: function () {\n      if (this.options.backtrack_lexer) {\n        this._backtrack = true;\n      } else\n{\n        return this.parseError('Lexical error on line ' + (this.yylineno + 1) + '. You can only invoke reject() in the\nlexer when the lexer is of the backtracking persuasion (options.backtrack_lexer = true).\\n' + this.showPosition(), {\n
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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\"]; \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  },\noptions: {},\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},\nrules: [/\^(?:(\s+)/,\/^(?:(-(?[0-9]||[1-
9][0-9]+))(\.([0-9]+)?([E]([-+]?[0-9]+)?\b)/,\/^(?:\"(?:\\\\[\\\\\\\\]\"bfnr\\j|\\\\u[a-fA-F0-9]{4})|[\^\\\\\\\\0-\\\\x09\\\\x0a-
\\\\x1f\"])*\"),/\^(?:\\{)/,\/^(?:\\})/,\/^(?:\\[/,\/^(?:\\])/,\/^(?:,)/,\/^(?::)/,\/^(?: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});\n\nreturn
lexer;\n})();\n\nparser.lexer = lexer;\n\nfunction Parser () {\n  this.yy = {};\n}\n\nParser.prototype = parser;\n\nparser.Parser
= Parser;\n\nreturn new Parser;\n\n})();\n\n\nif (typeof require !== 'undefined' && typeof exports !== 'undefined')
{\n  exports.parser = parser;\n  exports.Parser = parser.Parser;\n  exports.parse = function () { return
parser.parse.apply(parser, arguments); }\n}\n\n\"import ParsingError from './error/parsing_error';\n\nimport jsonlint
from '@mapbox/jsonlint-lines-primitives';\n\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';\n\nimport {v8} from './style-spec';\n\nimport
readStyle from './read_style';\n\n\n/**\n * Validate a Mapbox GL style against the style specification.\n\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<Validation|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\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 Validation|ParsingError 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 get|AllowedKeyErrors(obj:

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```

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 ?\n` ${path}.${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  errors.push(...allowedKeyErrors);\n  if (style.version > SUPPORTED_SPEC_VERSION || style.version < SUPPORTED_SPEC_VERSION) {\n    errors.push(new ValidationError('version', style.version, `Style version must be ${SUPPORTED_SPEC_VERSION}`));\n  }\n  /*\n   * \"glyphs\" is optional. If present, valid examples:\n   * mapbox://fonts/penny/{fontstack}/{range}.pbf\n   * mapbox://fonts/mapbox/{fontstack}/{range}.pbf\n   */\n  const glyphUrlPattern = /^mapbox:\\\\(\\/fonts\\/([\\^\\/*])?\\/([\\^\\/*])?\\/([\\^\\/*])?$/; \n  if (!isValid(style.glyphs, glyphUrlPattern)) {\n    errors.push(new ValidationError('glyphs', style.glyphs, 'Styles must reference glyphs hosted by Mapbox'));\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\\/([\\^\\/*])?\\/([\\^\\/*])?\\/([\\^\\/*])?$/; \n  if (!isValid(style.sprite, spriteUrlPattern)) {\n    errors.push(new ValidationError('sprite', style.sprite, 'Styles must reference sprites hosted by Mapbox'));\n  }\n  /*\n   * \"visibility\" is optional. If present, valid examples:\n   * \"private\"\n   * \"public\"\n   */\n  const visibilityPattern = /^(public|private)$/; \n  if (!isValid(style.visibility, visibilityPattern)) {\n    errors.push(new ValidationError('visibility', style.visibility, 'Style visibility must be public or private'));\n  }\n  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  let errors = validateStyle(s, v8)\n    .concat(getRootErrors(s, Object.keys(v8.$root)));\n  if (s.sources) {\n    errors = errors.concat(getSourcesErrors(s.sources));\n  }\n  return errors;\n}\n\n\"\" @flow\n\n type ExpressionType =\n  'data-driven' | 'cross-faded' | 'cross-faded-data-driven' | 'color-ramp' | 'data-constant' | 'constant';\n\n type ExpressionParameters = Array<'zoom' | 'feature' | 'feature-state' | 'heatmap-density' | 'line-progress'>;\n\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\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",

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"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", "polyBBBox", "worldSize", "halfWorldSize", "shift", "resetBBBox", "Infinity", "getTilePoints", "pointBBBox", "shifts", "tilePoints", "points", "getTileLines", "lineBBBox", "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", 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AAE,WAAW,EAAE,gDAAgD;EAC/D,EAAE,eAAe,EAAE,eAAe;EACIC,EAAE;AACF;EACA;EACA,CAAC,aA
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MAAM,CAAC,IAAI,CAAC,CAAC,CAAC;EACjC,EAAE;AACF;EACA;EACA;EACA;EACA;EACA;EACA;EA
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C,CAAC,CAAC;EACtC,GAAG;EACH,EAAE,OAAO,MAAM,CAAC;EACb,EAAE;AACF;EACA;EACA;EAC
A;EACA;EACA;EACA;EACA;EACA;EACA;EACA;EACA,CAAC,SAAS,SAAS,CAAC,MAAM,EAAE,EAAE,E
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G,CAAC,EAAE,EAAE,GAAG,KAAK,CAAC,MAAM,EAAE,EAAE,EAAE,EAAE;EAC5C,IAAI,IAAI,IAAI,GAAG,KAAK,CAAC,EAAE,CAAC,CAAC;EACzB,IAAI,MAAM,CAAC,IAAI,CAAC,GAAG,IAAI,CAAC,IAAI,CAAC,CAAC;EAC9B,GAAG;AACH;EACA;EACA;EACA,EAAE,MAAM,CAAC,IAAI,GAAG,QAAQ,CAAC,IAAI,CAAC;AAC9B;EACA;EACA,EAAE,IAAI,QAAQ,CAAC,IAAI,KAAK,EAAE,EAAE;EAC5B,IAAI,MAAM,CAAC,IAAI,GAAG,MAAM,CAAC,MAAM,EAAE,CAAC;EACiC,IAAI,OAAO,MAAM,CAAC;EACiB,GAAG;AACH;EACA;EACA,EAAE,IAAI,QAAQ,CAAC,OAAO,IAAI,CAAC,QAAQ,CAAC,QAAQ,EAAE;EAC9C;EACA,IAAI,IAAI,KAAK,GAAG,MAAM,CAAC,IAAI,CAAC,QAAQ,CAAC,CAAC;EACtC,IAAI,KAAK,IAAI,EAAE,GAAG,CAAC,EAAE,EAAE,GAAG,KAAK,CAAC,MAAM,EAAE,EAAE,EAAE,EAAE;EAC9C,MAAM,IAAI,IAAI,GAAG,KAAK,CAAC,EAAE,CAAC,CAAC;EAC3B,MAAM,IAAI,IAAI,KAAK,UAAU;EAC7B,UAAQ,MAAM,CAAC,IAAI,CAAC,GAAG,QAAQ,CAAC,IAAI,CAAC,GAAC;EACtC,KAAK;AACL;EACA;EACA,IAAI,IAAI,eAAe,CAAC,MAAM,CAAC,QAAQ,CAAC;EACxC,QAAQ,MAAM,CAAC,QAAQ,IAAI,CAAC,MAAM,CAAC,QAAQ,EAAE;EAC7C,MAAM,MAAM,CAAC,IAAI,GAAG,MAAM,CAAC,QAAQ,GAAG,GAAG,CAAC;EACiC,KAAK;AACL;EACA,IAAI,MAAM,CAAC,IAAI,GAAG,MAAM,CAAC,MAAM,EAAE,CAAC;EACiC,IAAI,OAAO,MAAM,CAAC;EACiB,GAAG;AACH;EACA,EAAE,IAAI,QAAQ,CAAC,QAAQ,IAAI,QAAQ,CAAC,QAAQ,KAAK,MAAM,CAAC,QAAQ,EAAE;EACiE;EACA;EACA;EACA;EACA;EACA;EACA;EACA;EACA,IAAI,IAAI,CAAC,eAAe,CAAC,QAAQ,CAAC,QAAQ,CAAC,EAAE;EAC7C,MAAM,IAAI,IAAI,GAAG,MAAM,CAAC,IAAI,CAAC,QAAQ,CAAC,CAAC;EACvC,MAAM,KAAK,IAAI,CAAC,GAAG,CAAC,EAAE,CAAC,GAAG,IAAI,CAAC,MAAM,EAAE,CAAC,EAAE,EAAE;EAC5C,QAAQ,IAAI,CAAC,GAAG,IAAI,CAAC,CAAC,CAAC,CAAC;EACxB,QAAQ,MAAM,CAAC,CAAC,CAAC,GAAG,QAAQ,CAAC,CAAC,CAAC,CAAC;EACtC,OAAO;EACP,MAAM,MAAM,CAAC,IAAI,GAAG,MAAM,CAAC,MAAM,EAAE,CAAC;EACpC,MAAM,OAAO,MAAM,CAAC;EACpB,KAAK;AACL;EACA,IAAI,MAAM,CAAC,QAAQ,GAAG,QAAQ,CAAC,QAAQ,CAAC;EACxC,IAAI,IAAI,CAAC,QAAQ,CAAC,IAAI,IAAI,CAAC,gBAAgB,CAAC,QAAQ,CAAC,QAAQ,CAAC,EAAE;EACtE,MAAM,IAAI,OAAO,GAAG,CAAC,QAAQ,CAAC,QAAQ,IAAI,EAAE,EAAE,KAAK,CAAC,GAAG,CAAC,CAAC;EACzD,MAAM,OAAO,OAAO,CAAC,MAAM,IAAI,EAAE,QAAQ,CAAC,IAAI,GAAG,OAAO,CAAC,KAAK,EAAE,CAAC,IAAE;EACtE,MAAM,IAAI,CAAC,QAAQ,CAAC,IAAI,IAAE,QAAQ,CAAC,IAAI,GAAG,EAAE,GAAC;EAC7C,MAAM,IAAI,CAAC,QAAQ,CAAC,QAAQ,IAAE,QAAQ,CAAC,QAAQ,GAAG,EAAE,GAAC;EACrD,MAAM,IAAI,OAAO,CAAC,CAAC,CAAC,KAAK,EAAE,IAAE,OAAO,CAAC,OAAO,CAAC,EAAE,CAAC,GAAC;EACjD,MAAM,IAAI,OAAO,CAAC,MAAM,GAAG,CAAC,IAAE,OAAO,CAAC,OAAO,CAAC,EAAE,CAAC,GAAC;EACiD,MAAM,MAAM,CAAC,QAAQ,GAAG,OAAO,CAAC,IAAI,CAAC,GAAG,CAAC,CAAC;EACiC,KAAK,MAAM;EACX,MAAM,MAAM,CAAC,QAAQ,GAAG,QAAQ,CAAC,QAAQ,CAAC;EACiC,KAAK;EACL,IAAI,MAAM,CAAC,MAAM,GAAG,QAAQ,CAAC,MAAM,CAAC;EACpC,IAAI,MAAM,CAAC,KAAK,GAAG,QAAQ,CAAC,KAAK,CAAC;EACiC,IAAI,MAAM,CAAC,IAAI,GAAG,QAAQ,CAAC,IAAI,IAAI,EAAE,CAAC;EACtC,IAAI,MAAM,CAAC,IAAI,GAAG,QAAQ,CAAC,IAAI,CAAC;EACtC,IAAI,MAAM,CAAC,QAAQ,GAAG,QAAQ,CAAC,QAAQ,IAAI,QAAQ,CAAC,IAAI,CAAC;EACzD,IAAI,MAAM,CAAC,IAAI,GAAG,QAAQ,CAAC,IAAI,CAAC;EACtC;EACA,IAAI,IAAI,MAAM,CAAC,QAAQ,IAAI,MAAM,CAAC,MAAM,EAAE;EACiC,MAAM,IAAI,CAAC,GAAG,MAAM,CAAC,QAAQ,IAAI,EAAE,CAAC;EACpC,MAAM,IAAI,CAAC,GAAG,MAAM,CAAC,MAAM,IAAI,EAAE,CAAC;EACiC,MAAM,MAAM,CAAC,IAAI,GAAG,CAAC,GAAG,CAAC,CAAC;EACiB,KAAK;EACL,IAAI,MAAM,CAAC,OAAO,GAAG,MAAM,CAAC,OAAO,IAAI,QAAQ,CAAC,OAAO,CAAC;EACxD,IAAI,MAAM,CAAC,IAAI,GAAG,MAAM,CAAC,MAAM,EAAE,CAAC;EACiC,IAAI,OAAO,MAAM,CAAC;EACiB,GAAG;AACH;EACA,EAAE,IAAI,WAAW,IAAI,MAAM,CAAC,QAAQ,IAAI,MAAM,CAAC,QAAQ,CAAC,MAAM,CAAC,CAAC,CAAC,KAAK,GAAG,CAAC;EACiE,MAAM,QAAQ;EACd,UAAU,QAAQ,CAAC,IAAI;EACvB,UAAU,QAAQ,CAAC,QAAQ,IAAI,QAAQ,CAAC,QAAQ,CAAC,MAAM,CAAC,CAAC,CAAC,KAAK,GAAG;EACiE,OAAO;EACP,MAAM,UAAU,IAAI,QAAQ,IAAI,WAAW;EAC3C,qBAaQb,MAAM,CAAC,IAAI,IAAI,QAAQ,CAAC,QAAQ,CAAC,CAAC;EACvD,MAAM,aAAa,GAAG,UAAU;EACtC,MAAM,OAAO,GAAG,MAAM,CAAC,QAAQ,IAAI,MAAM,CAAC,QAAQ,CAAC,KAAK,CAAC,GAAG,CAAC,IAAI,EAAE;EACtE,MAAM,OAAO,GAAG,QAAQ,CAAC,QAAQ,IAAI,QAAQ,CAAC,QAAQ,CAAC,KAAK,CAAC,GAAG,CAAC,IAAI,EAAE;EACvE,MAAM,SAAS,GAAG,MAAM,CAAC,QAAQ,IAAI,CAAC,eAAe,CAAC,MAAM,CAAC,QAAQ,CAAC,CAAC;AACvE;EACA;EACA;EACA;EACA;EACA;EACA;EA

AE,IAAI,SAAS,EAAE;EACjB,IAAI,MAAM,CAAC,QAAQ,GAAG,EAAE,CAAC;EACzB,IAAI,MAAM,CAAC,IAAI,GAAG,IAAI,CAAC;EACvB,IAAI,IAAI,MAAM,CAAC,IAAI,EAAE;EACrB,MAAM,IAAI,OAAO,CAAC,CAAC,CAAC,KAAC,EAAE,IAAE,OAAO,CAAC,CAAC,CAAC,GAAG,MAAM,CAAC,IAAI,GAAC;EACtD,aAAW,OAAO,CAAC,OAAO,CAAC,MAAM,CAAC,IAAI,CAAC,GAAC;EACxC,KAAC;EACL,IAAI,MAAM,CAAC,IAAI,GAAG,EAAE,CAAC;EACrB,IAAI,IAAI,QAAQ,CAAC,QAAQ,EAAE;EAC3B,MAAM,QAAQ,CAAC,QAAQ,GAAG,IAAI,CAAC;EAC/B,MAAM,QAAQ,CAAC,IAAI,GAAG,IAAI,CAAC;EAC3B,MAAM,IAAI,QAAQ,CAAC,IAAI,EAAE;EACzB,QAAQ,IAAI,OAAO,CAAC,CAAC,CAAC,KAAC,EAAE,IAAE,OAAO,CAAC,CAAC,CAAC,GAAG,QAAQ,CAAC,IAAI,GAAC;EAC1D,eAAa,OAAO,CAAC,OAAO,CAAC,QAAQ,CAAC,IAAI,CAAC,GAAC;EAC5C,OAAO;EACP,MAAM,QAAQ,CAAC,IAAI,GAAG,IAAI,CAAC;EAC3B,KAAC;EACL,IAAI,UAAU,GAAG,UAAU,KAAC,OAAO,CAAC,CAAC,CAAC,KAAC,EAAE,IAAI,OAAO,CAAC,CAAC,CAAC,KAAC,EAAE,CAAC,CAAC;EACxE,GAAG;AACH;EACA,EAAE,IAAI,QAAQ,EAAE;EACbB;EACA,IAAI,MAAM,CAAC,IAAI,GAAG,CAAC,QAAQ,CAAC,IAAI,IAAI,QAAQ,CAAC,IAAI,KAAC,EAAE;EACxD,kBAAB,QAAQ,CAAC,IAAI,GAAG,MAAM,CAAC,IAAI,CAAC;EAC9C,IAAI,MAAM,CAAC,QAAQ,GAAG,CAAC,QAAQ,CAAC,QAAQ,IAAI,QAAQ,CAAC,QAAQ,KAAC,EAAE;EACpE,sBAAsB,QAAQ,CAAC,QAAQ,GAAG,MAAM,CAAC,QAAQ,CAAC;EAC1D,IAAI,MAAM,CAAC,MAAM,GAAG,QAAQ,CAAC,MAAM,CAAC;EACpC,IAAI,MAAM,CAAC,KAAC,GAAG,QAAQ,CAAC,KAAC,CAAC;EACIC,IAAI,OAAO,GAAG,OAAO,CAAC;EACtB;EACA,GAAG,MAAM,IAAI,OAAO,CAAC,MAAM,EAAE;EAC7B;EACA;EACA,IAAI,IAAI,CAAC,OAAO,IAAE,OAAO,GAAG,EAAE,GAAC;EAC/B,IAAI,OAAO,CAAC,GAAG,EAAE,CAAC;EACIB,IAAI,OAAO,GAAG,OAAO,CAAC,MAAM,CAAC,OAAO,CAAC,CAAC;EACtC,IAAI,MAAM,CAAC,MAAM,GAAG,QAAQ,CAAC,MAAM,CAAC;EACpC,IAAI,MAAM,CAAC,KAAC,GAAG,QAAQ,CAAC,KAAC,CAAC;EACIC,GAAG,MAAM,IAAI,CAAC,IAAI,CAAC,iBAAB,CAAC,QAAQ,CAAC,MAAM,CAAC,EAAE;EACvD;EACA;EACA;EACA,IAAI,IAAI,SAAS,EAAE;EACnB,MAAM,MAAM,CAAC,QAAQ,GAAG,MAAM,CAAC,IAAI,GAAG,OAAO,CAAC,KAAC,EAAE,CAAC;EACtD;EACA;EACA;EACA,MAAM,IAAI,UAAU,GAAG,MAAM,CAAC,IAAI,IAAI,MAAM,CAAC,IAAI,CAAC,OAAO,CAAC,GAAG,CAAC,GAAG,CAAC;EACIE,uBAAB,MAAM,CAAC,IAAI,CAAC,KAAC,CAAC,GAAG,CAAC,GAAG,KAAC,CAAC;EACtD,MAAM,IAAI,UAAU,EAAE;EACtB,QAAQ,MAAM,CAAC,IAAI,GAAG,UAAU,CAAC,KAAC,EAAE,CAAC;EACzC,QAAQ,MAAM,CAAC,IAAI,GAAG,MAAM,CAAC,QAAQ,GAAG,UAAU,CAAC,KAAC,EAAE,CAAC;EAC3D,OAAO;EACP,KAAC;EACL,IAAI,MAAM,CAAC,MAAM,GAAG,QAAQ,CAAC,MAAM,CAAC;EACpC,IAAI,MAAM,CAAC,KAAC,GAAG,QAAQ,CAAC,KAAC,CAAC;EACIC;EACA,IAAI,IAAI,CAAC,IAAI,CAAC,MAAM,CAAC,MAAM,CAAC,QAAQ,CAAC,IAAI,CAAC,IAAI,CAAC,MAAM,CAAC,MAAM,CAAC,MAAM,CAAC,EAAE;EACtE,MAAM,MAAM,CAAC,IAAI,GAAG,CAAC,MAAM,CAAC,QAAQ,GAAG,MAAM,CAAC,QAAQ,GAAG,EAAE;EAC3D,qBAAB,MAAM,CAAC,MAAM,GAAG,MAAM,CAAC,MAAM,GAAG,EAAE,CAAC,CAAC;EACzD,KAAC;EACL,IAAI,MAAM,CAAC,IAAI,GAAG,MAAM,CAAC,MAAM,EAAE,CAAC;EACIC,IAAI,OAAO,MAAM,CAAC;EACIB,GAAG;AACH;EACA,EAAE,IAAI,CAAC,OAAO,CAAC,MAAM,EAAE;EACvB;EACA;EACA,IAAI,MAAM,CAAC,QAAQ,GAAG,IAAI,CAAC;EAC3B;EACA,IAAI,IAAI,MAAM,CAAC,MAAM,EAAE;EACvB,MAAM,MAAM,CAAC,IAAI,GAAG,GAAG,GAAG,MAAM,CAAC,MAAM,CAAC;EACxC,KAAC,MAAM;EACX,MAAM,MAAM,CAAC,IAAI,GAAG,IAAI,CAAC;EACzB,KAAC;EACL,IAAI,MAAM,CAAC,IAAI,GAAG,MAAM,CAAC,MAAM,EAAE,CAAC;EACIC,IAAI,OAAO,MAAM,CAAC;EACIB,GAAG;AACH;EACA;EACA;EACA;EACA,EAAE,IAAI,IAAI,GAAG,OAAO,CAAC,KAAC,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC;EACIC,EAAE,IAAI,gBAAB;EACtB,MAAM,CAAC,MAAM,CAAC,IAAI,IAAI,QAAQ,CAAC,IAAI,IAAI,OAAO,CAAC,MAAM,GAAG,CAAC;EACzD,OAAO,IAAI,KAAC,GAAG,IAAI,IAAI,KAAC,IAAI,CAAC,IAAI,IAAI,KAAC,EAAE,CAAC,CAAC;AACtD;EACA;EACA;EACA,EAAE,IAAI,EAAE,GAAG,CAAC,CAAC;EACb,EAAE,KAAC,IAAI,CAAC,GAAG,OAAO,CAAC,MAAM,EAAE,CAAC,IAAI,CAAC,EAAE,CAAC,EAAE,EAAE;EAC5C,IAAI,IAAI,GAAG,OAAO,CAAC,CAAC,CAAC,CAAC;EACtB,IAAI,IAAI,IAAI,KAAC,GAAG,EAAE;EACtB,MAAM,OAAO,CAAC,MAAM,CAAC,CAAC,EAAE,CAAC,CAAC,CAAC;EAC3B,KAAC,MAAM,IAAI,IAAI,KAAC,IAAI,EAAE;EAC9B,MAAM,OAAO,CAAC,MAAM,CAAC,CAAC,EAAE,CAAC,CAAC,CAAC;EAC3B,MAAM,EAAE,EAAE,CAAC;EACX,KAAC,MAAM,IAAI,EAAE,EAAE;EACnB,MAAM,OAAO,CAAC,MAAM,CAAC,CAAC,EAAE,CAAC,CAAC,CAAC;EAC3B,MAAM,EAAE,EAAE,CAAC;EACX,KAAC;EACL,GAAG;AAC

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AAI,CAAC4yB,OAAA,CAAQpvB,MAAA,CAAOE,GAaf,EAAoB0vB,gBAAPB,CAAL,EAA4C;EAAA,QACxC
9jB,MAAA,CAAO/E,IAAP,CAAY,IAAI6hB,eAAJ,cAA+BhrB,OAA/B,EAAqCoC,MAAA,CAAOE,GAA5C,EAA
iD,+CAAJD,CAAZ,EADwC;EAAA,KAJB6B;EAAA,IAqBzE,OAAO4L,MAAP,CArByE;EAAA,CAPC7E;EA4DA
,SAAS+jB,gBAAT,CAA0BzxB,OAA1B,EAAoE;EAAA,IACHE5B,IAAMsP,MAAA,GAAS,EAAftP,CADgE;EAA
A,IAEHemB,IAAImyB,KAAA,GAAQ,CAAZnyB,CAFgE;EAAA,IAIHegB,MAAA,CAAOE,IAAP,CAAYR,OAA
Z,EAAqBS,OAArB,WAA8B0C,GAAW3D,GAAC;EAAA,QACnDpB,IAAMuzB,YAAA,GAAeL,eAAA,CAAGbtX
B,OAAA,CAAQmD,CAAR,CAAhB,EAA4B3D,CAA5B,CAArBpB,CADmD;EAAA,QAlnD,IAAI,CAACuzB,YA
AA,CAAahyB,MAAlB,EAA0B;EAAA,YACtB+xB,KAAA,GAAQA,KAAA,GAAQR,cAAA,CAAelxB,OAAA,C
AAQmD,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,0CAA5
D,CAAZ,EAD8B;EAAA,KAf8B;EAAA,IAmBhE,OAAOrjB,MAAP,CAnBgE;EAAA,CA5DpE;EAkFA,SAASkkB
,aAAT,CAAuBnzB,KAAvB,EAAcCoZB,QAAtC,EAAqF;EAAA,IACjFzzB,IAAMsP,MAAA,GAAS,EAAftP,CAD
iF;EAAA,IAWjFA,IAAM0zB,sBAAA,GAAyB;EAAA,QAC3B,OAD2B;EAAA,QAE3B,IAF2B;EAAA,QAG3B,c
AH2B;EAAA,QAI3B,OAJ2B;EAAA,QAK3B,SAL2B;EAAA,QAM3B,UAN2B;EAAA,QAO3B,YAP2B;EAAA,K
AA/B1zB,CAXiF;EAAA,IAqBjFA,IAAM2zB,gBAAA,GAAMBZ,mBAAA,CAAoB1yB,KAApB,EAA+BozB,QA
AA,OAAA,CAAaC,sBAAb,CAA/B,CAAzB1zB,CArBiF;EAAA,IAsBjFsP,MAAA,CAAO/E,IAAP,MAAA,OAAA
,EAAeopB,gBAAf,EAtBiF;EAAA,IAwBjF,IAAItzB,KAAA,CAAMkD,OAAN,GAAGBmvB,sBAAhB,IAA0CryB,
KAAA,CAAMkD,OAAN,GAAGBmvB,sBAA9D,EAAf;EAAA,QACIFpjB,MAAA,CAAO/E,IAAP,CAAY,IAAI6
hB,eAAJ,CAAoB,SAApB,EAA+B/rB,KAAA,CAAMkD,OAArC,6BAAuEmvB,sBAAvE,CAAZ,EADkF;EAAA,K
AxBL;EAAA,IAiCjF1yB,IAAM4zB,eAAA,GAakB,uDAAXB5zB,CAjCiF;EAAA,IAkCjF,IAAI,CAAC4yB,OAA

A,CAAQvyB,KAAA,CAAMqE,MAAd,EAAkBkvB,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,EAA8B8H,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,IA5DjF/rB,IAAM8zB,iBAAA,GAAoB,oBAA1B9zB,CAtDiF;EAAA,IAuDjF,IAAI,CAAC4yB,OAAA,CAAQvyB,KAAA,CAAM0zB,UAAAd,EAA0BD,iBAA1B,CAAL,EAAmD;EAAA,QAC/CxB,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,GAAI1E,KAArc,CADuF;EAAA,IAEvF,IAAI;EAAA,QACA4D,CAAA,GAAIstB,SAAB,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,CAAcztB,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,CAAcguB,gBAAA,CAAiBtuB,CAAA,CAAEnD,OAAnB,CAAd,CAAT,CADW;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,GAAB2hB,aAAIB,CA1HA;AA2HAA,eAAA,CAASsG,MAAT,GAABkBg,aAAIB;;;;;;;;;;;" }

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.es.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.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/querysting/decode.js","../../node_modules/querysting/encode.js","../../node_modules/querysting/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_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-lines-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 `JSON.stringify` we know that only valid strings\n// are present (unless the user supplied a weird `options.indent` 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([1],\n undefined,\n options.indent === undefined ? 2 : options.indent\n).slice(2, -3);\n maxLength =\n indent === '\\\"\\\"\\n' ?\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,\n 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 if (prettified.length <= length) {\n return prettified;\n }\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);\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 =\n 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\n if (items.length > 0) {\n return [start, indent + items.join(",\\n" + nextIndent), end].join("\\n");\n }\n\n return string;\n })\n)(passedObj, "", 0);"};"`;\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 *\n * The optional `space` argument is passed to\n *\n [\nJSON.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 *\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 if (style.layers) {\n style.layers = style.layers.map((layer) => sortKeysBy(layer, reference.layer));\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\t/\t** Detect free variables\n\t*\n\tvar freeExports = typeof exports == 'object' && exports &&\n\t\t!exports.nodeType && exports;\n\tvar freeModule = typeof module == 'object' && module &&\n\t\t!module.nodeType && module;\n\tvar freeGlobal =\n\t\ttypeof global == 'object' && global;\n\tif (!\n\t\t(!freeGlobal.global === freeGlobal ||\n\t\t\t!freeGlobal.window === freeGlobal ||\n\t\t\t!freeGlobal.self === freeGlobal)\n\t){\n\t\t/root = freeGlobal;\n\t}\n\t/*\n\tThe `punycode` object.\n\t*\n\t@name punycode\n\t*\n\t@type Object\n\t*/\n\tvar punycode,\n\t\t/\t** Highest positive signed 32-bit float value\n\t\t*\n\t\tmaxInt = 2147483647, // aka. 0x7FFFFFFF or 2^31-1\n\t\t/\t** Bootstring parameters\n\t\t*\n\t\tbase = 36,\n\t\tmin = 1,\n\t\tmax = 26,\n\t\tskew = 38,\n\t\damp = 700,\n\t\tinitialBias = 72,\n\t\tinitialN = 128,\n\t\t//\n\t\tOx80\n\t\tdelimiter = '-', // '\u{D}'\n\t\t/\t** Regular expressions\n\t\t*\n\t\tregexPunycode = /\xn--/, // regexNonASCII = /[^\u{2}-\u{E}]/, // unprintable ASCII chars + non-ASCII chars\n\t\tregexSeparators = /[\u{2E}\u{3002}\u{FF0E}\u{FF61}]|g/, // RFC 3490 separators\n\t\t/\t** Error messages\n\t\t*\n\t\terrors = {\n\t\t\toverflow:'Overflow: input needs wider integers to process',\n\t\t\tnot-basic:'Illegal input >= Ox80 (not a basic code point)',\n\t\t\tinvalid-input:'Invalid input'\n\t},\n\t\t/\t** Convenience shortcuts\n\t\t*\n\t\tbaseMinusTMin = base - tMin,\n\t\tfloor = Math.floor,\n\t\tstringFromCharCode = String.fromCharCode,\n\t\t/\t** Temporary variable\n\t\t*\n\t\tkey;\n\t*\n\t-----\n\t*\n\tA generic error utility function.\n\t*\n\t@private\n\t*\n\t@param {String} type The error type.\n\t*\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\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\t\tvar length = array.length;\n\t\t\tvar result = [];\n\t\t\twhile (length--)\n\t\t\t\tresult[length] = fn(array[length]);\n\t\t\treturn result;\n\t}\n\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\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// 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\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\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\t\twhile (counter < length) {\n\t\t\t\t\tvalue = string.charCodeAt(counter++);\n\t\t\t\t\tif (value >= 0xD800 && value <= 0xDBFF && counter < length) {\n\t\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\t\toutput.push(((value & 0x3FF) << 10) + (extra & 0x3FF) + 0x10000);\n\t\t\t\t\t\t\t} else {\n\t\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\toutput.push(value);\n\t\t\t\t\t\t}\n\t\t\t\t\t}\n\t\t\t\treturn output;\n\t\t}\n\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\t\treturn map(array, function(value) {\n\t\t\t\t\t\tvar output = '';\n\t\t\t\t\t\tif (value > 0xFFFF)\n\t\t\t\t\t\t\tvalue -= 0x10000;\n\t\t\t\t\t\toutput += stringFromCharCode(value >>> 10 & 0x3FF | 0xD800);\n\t\t\t\t\t\tvalue = 0xDC00 | value & 0x3FF;\n\t\t\t\t\t\toutput += stringFromCharCode(value);\n\t\t\t\t\t\treturn output;\n\t\t\t\t}).join('');\n\t\t}\n\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\t\tif (codePoint - 48 < 10)\n\t\t\t\t\treturn codePoint - 22;\n\t\t\t\tif (codePoint - 65 < 26)\n\t\t\t\t\treturn codePoint - 65;\n\t\t\t\tif (codePoint - 97 < 26)\n\t\t\t\t\treturn codePoint - 97;\n\t\t\t\treturn base;\n\t\t}\n\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\t// 0..25 map to ASCII a..z or A..Z\n\t\t\t\t// 26..35 map to ASCII 0..9\n\t\t\t\treturn digit + 22 + 75 * (digit < 26) - ((flag != 0) << 5);\n\t\t}\n\n\t\t/**\n\t\t * Bias adaptation function as per section 3.4 of RFC 3492.\n\t\t * http://tools.ietf.org/html/rfc3492#section-3.4\n\t\t * @private\n\t\t */\n\t\tfunction adapt(delta, numPoints, firstTime) {\n\t\t\t\tvar k = 0;\n\t\t\t\tdelta = firstTime ? floor(delta / damp) : delta >> 1;\n\t\t\t\tdelta += floor(delta / numPoints);\n\t\t\t\tif (/* no initialization */ delta > baseMinusTMin * tMax >> 1;\n\t\t\t\t\tk += base)\n\t\t\t\t\tdelta = floor(delta / baseMinusTMin);\n\t\t\t\treturn floor(k + (baseMinusTMin + 1) * delta / (delta +

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skew));\n\t)\n\n\t/**\n\t * Converts a Punycode string of ASCII-only symbols to a string of Unicode\n\t * symbols.\n\t * @memberOf punycode\n\t * @param {String} input The Punycode string of ASCII-only symbols.\n\t * @returns {String} The resulting string of Unicode symbols.\n\t */\n\tfunction decode(input) {\n\t\t// Don't use UCS-2\n\t\tvar output = [],\n\t\t\tinputLength = input.length,\n\t\t\tout,\n\t\t\ti = 0,\n\t\t\t n = initialN,\n\t\t\t bias = initialBias,\n\t\t\t basic,\n\t\t\t j,\n\t\t\t index,\n\t\t\t oldi,\n\t\t\t w,\n\t\t\t k,\n\t\t\t digit,\n\t\t\t t,\n\t\t\t /**\n\t\t\t\t Cached calculation results */\n\t\t\t baseMinusT;\n\t\t// Handle the basic code points: let `basic` be the number of input code\n\t\t// points before the last delimiter, or `0` if there is none, then copy\n\t\t// the first basic code points to the output.\n\t\tbasic = input.lastIndexOf(delimiter);\n\t\tif (basic < 0) {\n\t\t\tbasic = 0;\n\t\t\tfor (j = 0; j < basic; ++j) {\n\t\t\t\tif it's not a basic code point\n\t\t\t\tif (input.charCodeAt(j) >= 0x80) {\n\t\t\t\t\tthrow('not-basic');\n\t\t\t\t}\n\t\t\t\toutput.push(input.charCodeAt(j));\n\t\t\t}\n\t\t\t// Main decoding loop: start just after the last delimiter if any basic code\n\t\t\t// points were copied; start at the beginning otherwise.\n\t\t\tfor (index = basic > 0 ? basic + 1 : 0; index < inputLength; /* no final expression */) {\n\t\t\t\t`index` is the index of the next character to be consumed.\n\t\t\t\t// Decode a generalized variable-length integer into `delta`,\n\t\t\t\t// which gets added to `i`. The overflow checking is easier\n\t\t\t\t// if we increase `i` as we go, then subtract off its starting\n\t\t\t\t// value at the end to obtain `delta`.\n\t\t\t\tfor (oldi = i, w = 1, k = base; /* no condition */; k += base) {\n\t\t\t\t\tif (index >= inputLength) {\n\t\t\t\t\t\tthrow('invalid-input');\n\t\t\t\t\t}\n\t\t\t\t\ttdigit = basicToDigit(input.charCodeAt(index++));\n\t\t\t\t\tif (digit >= base || digit > floor((maxInt - i) / w)) {\n\t\t\t\t\t\tthrow('overflow');\n\t\t\t\t\t}\n\t\t\t\t\ti += digit * w;\n\t\t\t\t\tt = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);\n\t\t\t\t\tif (digit < t) {\n\t\t\t\t\t\tbreak;\n\t\t\t\t\t}\n\t\t\t\t\tbaseMinusT = base - t;\n\t\t\t\t\tif (w > floor(maxInt / baseMinusT)) {\n\t\t\t\t\t\tthrow('overflow');\n\t\t\t\t\t}\n\t\t\t\t\ttw *= baseMinusT;\n\t\t\t\t\tout = output.length + 1;\n\t\t\t\t\tbias = adapt(i - oldi, out, oldi == 0);\n\t\t\t\t\t// `i` was supposed to wrap around from `out` to `0`,\n\t\t\t\t\t// incrementing `n` each time, so we'll fix that now:\n\t\t\t\t\tif (floor(i / out) > maxInt - n) {\n\t\t\t\t\t\tthrow('overflow');\n\t\t\t\t\t}\n\t\t\t\t\ttn += floor(i / out);\n\t\t\t\t\ti %= out;\n\t\t\t\t\t// Insert `n` at position `i` of the output\n\t\t\t\t\toutput.splice(i++, 0, n);\n\t\t\t\t}\n\t\t\treturn ucs2encode(output);\n\t\t}\n\t)\n\n\t/**\n\t * Converts a string of Unicode symbols (e.g. a domain name label) to a\n\t * Punycode string of ASCII-only symbols.\n\t * @memberOf punycode\n\t * @param {String} input The string of Unicode symbols.\n\t * @returns {String} The resulting Punycode string of ASCII-only symbols.\n\t */\n\tfunction encode(input) {\n\t\tvar n,\n\t\t\t delta,\n\t\t\t handledCPCount,\n\t\t\t basicLength,\n\t\t\t bias,\n\t\t\t j,\n\t\t\t m,\n\t\t\t q,\n\t\t\t k,\n\t\t\t t,\n\t\t\t currentValue,\n\t\t\t output = [],\n\t\t\t /**\n\t\t\t\t `inputLength` will hold the number of code points in `input`.\n\t\t\t\t */\n\t\t\t inputLength,\n\t\t\t /**\n\t\t\t\t Cached calculation results */\n\t\t\t handledCPCountPlusOne,\n\t\t\t baseMinusT,\n\t\t\t qMinusT;\n\t\t// Convert the input in UCS-2 to Unicode\n\t\tinput = ucs2decode(input);\n\t\t// Cache the length\n\t\tinputLength = input.length;\n\t\t// Initialize the state\n\t\ttn = initialN;\n\t\ttdelta = 0;\n\t\ttbias = initialBias;\n\t\t// Handle the basic code points\n\t\tfor (j = 0; j < inputLength; ++j) {\n\t\t\tcurrentValue = input[j];\n\t\t\tif (currentValue < 0x80) {\n\t\t\t\toutput.push(stringFromCharCode(currentValue));\n\t\t\t}\n\t\t\thandledCPCount = basicLength = output.length;\n\t\t\t// `handledCPCount` is the number of code points that have been handled;\n\t\t\t// `basicLength` is the number of basic code points.\n\t\t\t// Finish the basic string - if it is not empty - with a delimiter\n\t\t\tif (basicLength) {\n\t\t\t\toutput.push(delimiter);\n\t\t\t}\n\t\t\t// Main encoding loop:\n\t\t\twhile (handledCPCount < inputLength) {\n\t\t\t\t// All non-basic code points < n have been handled already. Find the next\n\t\t\t\t// larger one:\n\t\t\t\tfor (m = maxInt, j = 0; j < inputLength; ++j) {\n\t\t\t\t\tcurrentValue = input[j];\n\t\t\t\t\tif (currentValue >= n && currentValue < m) {\n\t\t\t\t\t\ttm = currentValue;\n\t\t\t\t\t}\n\t\t\t\t\t// Increase `delta` enough to advance the decoder's <n,i> state to <m,0>,\n\t\t\t\t\t// but guard against overflow\n\t\t\t\t\thandledCPCountPlusOne = handledCPCount + 1;\n\t\t\t\t\tif (m - n > floor((maxInt - delta) / handledCPCountPlusOne)) {\n\t\t\t\t\t\tthrow('overflow');\n\t\t\t\t\t}\n\t\t\t\t\ttdelta += (m - n) * handledCPCountPlusOne;\n\t\t\t\t\ttn = m;\n\t\t\t\t\tfor (j = 0; j < inputLength; ++j) {\n\t\t\t\t\t\tcurrentValue = input[j];\n\t\t\t\t\t\tif (currentValue < n && ++delta > maxInt) {\n\t\t\t\t\t\t\tthrow('overflow');\n\t\t\t\t\t\t}\n\t\t\t\t\t\tif (currentValue == n) {\n\t\t\t\t\t\t\t// Represent delta as a generalized variable-length integer\n\t\t\t\t\t\t\tfor (q = delta, k = base; /* no condition */; k += base) {\n\t\t\t\t\t\t\t\ttt = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);\n\t\t\t\t\t\t\t\tif (q < t) {\n\t\t\t\t\t\t\t\t\tbreak;\n\t\t\t\t\t\t\t\t}\n\t\t\t\t\t\t\t\ttqMinusT = q - t;\n\t\t\t\t\t\t\t\tbaseMinusT = base - t;\n\t\t\t\t\t\t\t\toutput.push(stringFromCharCode(digitToBasic(t +

```



[illegible]



```

var regexp = /\+/g;\n qs = qs.split(sep);\n\n var maxKeys = 1000;\n if (options && typeof options.maxKeys ===
'number') {\n maxKeys = options.maxKeys;\n }\n\n var len = qs.length;\n // maxKeys <= 0 means that we should
not limit keys count\n if (maxKeys > 0 && len > maxKeys) {\n len = maxKeys;\n }\n\n for (var i = 0; i < len;
++i) {\n var x = qs[i].replace(regexp, '%20');\n idx = x.indexOf(eq);\n kstr, vstr, k, v;\n if (idx >= 0)
{\n kstr = x.substr(0, idx);\n vstr = x.substr(idx + 1);\n } else {\n kstr = x;\n vstr = '';\n }\n k =
decodeURIComponent(kstr);\n v = decodeURIComponent(vstr);\n\n if (!hasOwnProperty(obj, k)) {\n obj[k]
= v;\n } else if (Array.isArray(obj[k])) {\n obj[k].push(v);\n } else {\n obj[k] = [obj[k], v];\n }\n }\n\n
return obj;\n};\n", "/* Copyright Joyent, Inc. and other Node contributors.\n\n// Permission is hereby granted, free of
charge, to any person obtaining a\n// copy of this software and associated documentation files (the\n// \"Software\"),
to deal in the Software without restriction, including\n// without limitation the rights to use, copy, modify, merge,
publish,\n// distribute, sublicense, and/or sell copies of the Software, and to permit\n// persons to whom the Software
is furnished to do so, subject to the\n// following conditions:\n\n// The above copyright notice and this permission
notice shall be included\n// in all copies or substantial portions of the Software.\n\n// THE SOFTWARE IS
PROVIDED \"AS IS\", WITHOUT WARRANTY OF ANY KIND, EXPRESS\n// OR IMPLIED, INCLUDING
BUT NOT LIMITED TO THE WARRANTIES OF\n// MERCHANTABILITY, FITNESS FOR A PARTICULAR
PURPOSE AND NONINFRINGEMENT. IN\n// NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM,\n// DAMAGES OR OTHER LIABILITY, WHETHER IN AN
ACTION OF CONTRACT, TORT OR\n// OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE\n// USE OR OTHER DEALINGS IN THE SOFTWARE.\n\n'use strict';\n\n\nvar
stringifyPrimitive = function(v) {\n switch (typeof v) {\n case 'string':\n return v;\n case 'boolean':\n return v ? 'true' : '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\n if (typeof obj === 'object') {\n return Object.keys(obj).map(function(k) {\n var ks =
encodeURIComponent(stringifyPrimitive(k)) + eq;\n if (Array.isArray(obj[k])) {\n return
obj[k].map(function(v) {\n return ks + encodeURIComponent(stringifyPrimitive(v));\n }).join(sep);\n }
else {\n return ks + encodeURIComponent(stringifyPrimitive(obj[k]));\n }\n }).join(sep);\n }\n\n if
(!name) return '';\n return encodeURIComponent(stringifyPrimitive(name)) + eq +\n encodeURIComponent(stringifyPrimitive(obj));\n};\n", "/*use strict';\n\n\nexports.decode = exports.parse =
require('./decode');\n\nexports.encode = exports.stringify = require('./encode');\n", "/* Copyright Joyent, Inc. and other
Node contributors.\n\n// Permission is hereby granted, free of charge, to any person obtaining a\n// copy of this
software and associated documentation files (the\n// \"Software\"), to deal in the Software without restriction,
including\n// without limitation the rights to use, copy, modify, merge, publish,\n// distribute, sublicense, and/or sell
copies of the Software, and to permit\n// persons to whom the Software is furnished to do so, subject to the\n//
following conditions:\n\n// The above copyright notice and this permission notice shall be included\n// in all copies
or substantial portions of the Software.\n\n// THE SOFTWARE IS PROVIDED \"AS IS\", WITHOUT
WARRANTY OF ANY KIND, EXPRESS\n// OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF\n// MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN\n// NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE
FOR ANY CLAIM,\n// DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR\n// OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
THE\n// USE OR OTHER DEALINGS IN THE SOFTWARE.\n\n'use strict';\n\n\nvar punycode =
require('punycode');\n\nvar util = require('./util');\n\n\nexports.parse = urlParse;\n\nexports.resolve =
urlResolve;\n\nexports.resolveObject = urlResolveObject;\n\nexports.format = urlFormat;\n\n\nexports.Url =
Url;\n\n\nfunction Url() {\n this.protocol = null;\n this.slashes = null;\n this.auth = null;\n this.host = null;\n
this.port = null;\n this.hostname = null;\n this.hash = null;\n this.search = null;\n this.query = null;\n
this.pathname = null;\n this.path = null;\n this.href = null;\n}\n\n// Reference: RFC 3986, RFC 1808, RFC
2396\n\n// define these here so at least they only have to be\n// compiled once on the first module load.\n\nvar
protocolPattern = /^(?:[a-z0-9.+-]+:)/i,\n portPattern = /^[0-9]*$/i,\n\n // Special case for a simple path URL\n

```







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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 this.host = rest.slice(0, hostEnd);\n rest = rest.slice(hostEnd);\n // pull out port.\n this.parseHost();\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 // if hostname begins with [and ends with]\n // assume that it's an IPv6 address.\n var ipv6Hostname = this.hostname[0] === '[' && this.hostname[this.hostname.length - 1] === '];\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) // 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\n 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 if (this.hostname.length > hostnameMaxLen) {\n this.hostname = ";\n } else {\n // hostnames are always lower case.\n this.hostname = this.hostname.toLowerCase();\n } \n if (!ipv6Hostname) {\n // IDNA Support: Returns a punycode 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\n ASCII-only.\n this.hostname = punycode.toASCII(this.hostname);\n } \n var p = this.port ? ':' + this.port :\n ";\n var h = this.hostname || ";\n this.host = h + p;\n this.href += this.host;\n // strip [and] from the\n hostname\n // the host field still retains them, though\n if (ipv6Hostname) {\n this.hostname =\n 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 // 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] && 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 = this.search || ";\n this.path = p + s;\n } \n // finally,\n reconstruct the href based on what has been validated.\n this.href = this.format();\n return this;\n } \n // format a\n 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\n 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 Url.prototype.format = function() {\n var auth = this.auth || ";\n if (auth) {\n auth =\n encodeURIComponent(auth);\n auth = auth.replace(/%3A/i, ':');\n auth += '@';\n } \n var protocol =\n this.protocol || ";\n pathname = this.pathname || ";\n hash = this.hash || ";\n host = false;\n query = ";\n if (this.host) {\n host = auth + this.host;\n } else if (this.hostname) {\n host = auth + (this.hostname.indexOf(':')\n === -1 ?\n this.hostname :\n '[' + this.hostname + ']');\n if (this.port) {\n host += ':' + this.port;\n } \n } \n if (this.query && util.isObject(this.query) && 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 || (!protocol || slashedProtocol[protocol]) && host !==

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false) {\n host = '/' + (host || '');\n if (pathname && pathname.charAt(0) !== '/') pathname = '/' + pathname;\n }\n else if (!host) {\n host = '';\n }\n if (hash && hash.charAt(0) !== '#') hash = '#' + hash;\n if (search && search.charAt(0) !== '?') search = '?' + search;\n pathname = pathname.replace(/[/?#]/g, function(match) {\n return encodeURIComponent(match);\n });\n search = search.replace('#', '%23');\n return protocol + host +\n pathname + search + hash;\n};\n\nfunction urlResolve(source, relative) {\n return urlParse(source, false,\n true).resolve(relative);\n}\n\nUrl.prototype.resolve = function(relative) {\n return\n this.resolveObject(urlParse(relative, false, true)).format();\n};\n\nfunction urlResolveObject(source, relative) {\n if\n (!source) return relative;\n return urlParse(source, false,\n true).resolveObject(relative);\n}\n\nUrl.prototype.resolveObject = function(relative) {\n if (util.isString(relative))\n {\n var rel = new Url();\n rel.parse(relative, false, true);\n relative = rel;\n }\n var result = new Url();\n var\n tkeys = Object.keys(this);\n for (var tk = 0; tk < tkeys.length; tk++) {\n var tkey = tkeys[tk];\n result[tkey] =\n this[tkey];\n }\n // hash is always overridden, no matter what.\n // even href="\" will remove it.\n result.hash =\n relative.hash;\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 // hrefs like //foo/bar always cut to the protocol.\n if\n (relative.slashes && !relative.protocol) {\n // take everything except the protocol from relative\n var rkeys =\n Object.keys(relative);\n for (var rk = 0; rk < rkeys.length; rk++) {\n var rkey = rkeys[rk];\n if (rkey !==\n 'protocol')\n result[rkey] = relative[rkey];\n }\n //urlParse appends trailing / to urls like\n http://www.example.com\n if (slashedProtocol[result.protocol] &&\n result.hostname && !result.pathname)\n {\n result.path = result.pathname = '';\n }\n result.href = result.format();\n return result;\n }\n if\n (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\n // to be hostless.\n // anything else is assumed to be absolute.\n if (!slashedProtocol[relative.protocol]) {\n var\n keys = Object.keys(relative);\n for (var v = 0; v < keys.length; v++) {\n var k = keys[v];\n result[k] =\n relative[k];\n }\n result.href = result.format();\n return result;\n }\n result.protocol =\n relative.protocol;\n if (!relative.host && !hostlessProtocol[relative.protocol]) {\n var relPath =\n (relative.pathname || '').split('/');\n while (relPath.length && !(relative.host = relPath.shift()));\n if\n (!relative.host) relative.host = '';\n if (!relative.hostname) relative.hostname = '';\n if (relPath[0] !== '')\n relPath.unshift('');\n if (relPath.length < 2) relPath.unshift('');\n result.pathname = relPath.join('/');\n } else\n {\n result.pathname = relative.pathname;\n }\n result.search = relative.search;\n result.query =\n relative.query;\n result.host = relative.host || '';\n result.auth = relative.auth;\n result.hostname =\n relative.hostname || relative.host;\n result.port = relative.port;\n // to support http.request\n if (result.pathname ||\n 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 var\n 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 ||\n (result.host && relative.pathname)),\n removeAllDots = mustEndAbs,\n srcPath =\n result.pathname && result.pathname.split('/') || [],\n relPath = relative.pathname && relative.pathname.split('/') ||\n [],\n psychotic = result.protocol && !slashedProtocol[result.protocol];\n // if the url is a non-slashed url, then\n relative\n // links like ../.. should be able\n // to crawl up to the hostname, as well. This is strange.\n //\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 {\n result.hostname = '';\n result.port = null;\n if (result.host) {\n if (srcPath[0] === '') srcPath[0] =\n 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] =\n relative.host;\n } else relPath.unshift(relative.host);\n }\n relative.host = null;\n mustEndAbs =\n mustEndAbs && (relPath[0] === '' || srcPath[0] === '');\n if (isRelAbs) {\n // it's absolute.\n result.host =\n (relative.host || relative.host === '') ?\n relative.host : result.host;\n result.hostname = (relative.hostname\n || relative.hostname === '') ?\n relative.hostname : result.hostname;\n result.search = relative.search;\n }

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 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 //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 ..\n if (!mustEndAbs && !removeAllDots)
{\n for (; up-- > 0) {\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 ? "" : srcPath.length ? 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\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\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 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}

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}\n\nexport function eachLayer(style: StyleSpecification, callback: (_: LayerSpecification) => void) {\n for
(const layer of style.layers) {\n callback(layer);\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\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 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 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\n function assert(predicate) {\n if (!predicate) {\n throw new Error(`Invalid font url:

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\`$`{input}`\`);\n }\n }\n }\n if (style.lyphs) {\n style.lyphs =
migrateFontstackURL(style.lyphs);\n }\n function migrateFontStack(font) {\n function
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 } 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 // 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 {\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 }, // @flow\n next export 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 }, // @flow\n next 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 }, // @flow\n next export default ParsingError;\n }, // @flow\n next import type {Expression}
from './expression';\n /**\n * Tracks `let` bindings during expression parsing.\n * @private\n */\n 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]) { return this.bindings[name]; }\n if (this.parent) { return this.parent.get(name); }\n throw new Error(`$`{name}` not found in scope.`);\n }\n has(name: string): boolean {\n if
(this.bindings[name]) return true;\n return this.parent ? this.parent.has(name) : false;\n }\n }, // @flow\n next export default
Scope;\n }, // @flow\n next export type NullTypeT = { kind: 'null' }; \n next export type NumberTypeT = { kind: 'number'
}; \n next export type StringTypeT = { kind: 'string' }; \n next export type BooleanTypeT = { kind: 'boolean' }; \n next export type
ColorTypeT = { kind: 'color' }; \n next export type ObjectTypeT = { kind: 'object' }; \n next export type ValueTypeT = { kind:
'value' }; \n next export type ErrorTypeT = { kind: 'error' }; \n next export type CollatorTypeT = { kind: 'collator' }; \n next export type
FormattedTypeT = { kind: 'formatted' }; \n next export type ResolvedImageTypeT = { kind: 'resolvedImage' }; \n next export
type EvaluationKind = 'constant' | 'source' | 'camera' | 'composite'; \n next export 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 next export type ArrayType = {\n kind: 'array',\n itemType: Type,\n N:\n ?number\n }\n next export type NativeType = 'number' | 'string' | 'boolean' | 'null' | 'array' | 'object'\n next export const
NullType = {kind: 'null'};\n next export const NumberType = {kind: 'number'};\n next export const StringType = {kind:
'string'};\n next export const BooleanType = {kind: 'boolean'};\n next export const ColorType = {kind: 'color'};\n next export const
ObjectType = {kind: 'object'};\n next export const ValueType = {kind: 'value'};\n next export const ErrorType = {kind:
'error'};\n next export const CollatorType = {kind: 'collator'};\n next export const FormattedType = {kind: 'formatted'};\n next export
const ResolvedImageType = {kind: 'resolvedImage'};\n next export function array(itemType: Type, N: ?number):\n ArrayType {\n return {\n kind: 'array',\n itemType,\n N\n };\n }\n next export function toString(type:
Type): string {\n if (type.kind === 'array') {\n const itemType = toString(type.itemType);\n return typeof

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type.N === 'number' ? \n `array<${itemType}, ${type.N}>` : \n type.itemType.kind === 'value' ? 'array'
: `array<${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 */ \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 } \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 \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\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
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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\n <http://www.w3.org/TR/css3-color/> \n\n
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":



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[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\nfunction clamp_css_float(f) { //
Clamp to float 0.0 .. 1.0.\n return f < 0 ? 0 : f > 1 ? 1 : f;}\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\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\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\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)
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 <= 0xffffffff)) return null; //
Covers NaN.\n return [(iv & 0xff0000) >> 16,\n (iv & 0xff00) >> 8,\n iv & 0xff,\n 1];\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 =

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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\n ntry {\n exports.parseCSSColor = parseCSSColor } catch(e) { }\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 * \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 * \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\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\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\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\n Class<Intl$Collator>);\n\n declare class Intl$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\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\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\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\nimport type Color from '../util/color';\n\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 }

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 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",`// @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\n",`// @flow\n\nimport assert from 'assert';\n\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';\n\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 <= 255 && 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

```



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 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\n ObjectType;\n }\n}\n\nexport function toString(value: Value) {\n const type = typeof value;\n if (value ===\n null) {\n return ";\n } else if (type === 'string' || type === 'number' || type === 'boolean') {\n return\n String(value);\n } else if (value instanceof Color || value instanceof Formatted || value instanceof ResolvedImage)\n {\n return value.toString();\n } else {\n return JSON.stringify(value);\n }\n}\n\nexport { Color,\n Collator};\n\n"/ @flow\n\nimport assert from 'assert';\nimport {isValue, typeOf, Color} from './values';\nimport\n Formatted from './types/formatted';\nimport type {Type} from './types';\nimport type {Value} from\n './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:\n $ReadOnlyArray<mixed>, context: ParsingContext) {\n if (args.length !== 2)\n return\n context.error('literal' expression requires exactly one argument, but found ${args.length - 1} instead.);\n if\n (!isValue(args[1]))\n return context.error('invalid value');\n const value = (args[1]: any);\n let type\n = typeOf(value);\n // special case: infer the item type if possible for zero-length arrays\n const expected =\n context.expectedType;\n if (\n type.kind === 'array' &&\n type.N === 0 &&\n expected\n &&\n expected.kind === 'array' &&\n (typeof expected.N !== 'number' || expected.N === 0)\n)\n {\n type = expected;\n }\n return new Literal(type, value);\n }\n\n evaluate() {\n return\n this.value;\n }\n\n eachChild() {\n }\n\n outputDefined() {\n return true;\n }\n\n serialize():\n Array<mixed> {\n if (this.type.kind === 'array' || this.type.kind === 'object') {\n return [\"literal\",\n this.value];\n } else if (this.value instanceof Color) {\n // Constant-folding can generate Literal\n expressions that you\n // couldn't actually generate with a \"literal\" expression,\n // so we have to\n implement an equivalent serialization here\n return [\"rgba\"].concat(this.value.toArray());\n } else if\n (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 ||\n typeof this.value === 'boolean');\n return (this.value: any);\n }\n }\n}\n\nexport default\n Literal;\n\n"/ @flow\n\nclass RuntimeError {\n name: string;\n message: string;\n\n constructor(message:\n string) {\n this.name = 'ExpressionEvaluationError';\n this.message = message;\n }\n\n toJSON() {\n return this.message;\n }\n}\n\nexport default RuntimeError;\n\n"/ @flow\n\nimport assert from 'assert';\nimport\n {\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\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\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:\n 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 let i = 1;\n let\n type;\n const name: string = (args[0]: any);\n if (name === 'array') {\n let itemType;\n if\n (args.length > 2) {\n const type = args[1];\n if (typeof type !== 'string' || !(type in types) || type\n === 'object')\n return context.error('The item type argument of \"array\" must be one of string, number,\n boolean', 1);\n itemType = types[type];\n i++; \n } else {\n itemType =\n ValueType;\n }\n let N;\n if (args.length > 3) {\n if (args[2] !== null &&\n (typeof args[2] !== '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 }

```



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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 value\n\nof 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 itemType.kind ===\n'number' ||\n itemType.kind === 'boolean') {\n serialized.push(itemType.kind);\n const\nN = 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 => arg.serialize()));\n }\n}\n\nexport default\nAssertion;\n","// @flow\nimport {NumberType, ValueType, FormattedType, array, StringType, ColorType,\nResolvedImageType} from '../types';\nimport Formatted, {FormattedSection} from '../types/formatted';\nimport\n{toString, typeof} from '../values';\nimport type {Expression} from '../expression';\nimport type\nEvaluationContext from '../evaluation_context';\nimport type ParsingContext from '../parsing_context';\nimport type\n{Type} from '../types';\n\ntype FormattedSectionExpression = {\n // Content of a section may be Image expression\nor other\n // type of expression that is coercable to 'string'\n content: Expression,\n scale: Expression | null;\n font: Expression | null;\n textColor: Expression | null;\n};\n\nexport default class FormatExpression implements\nExpression {\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\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\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\n if (nextTokenMayBeObject && typeof arg === \"object\" && !Array.isArray(arg)) {\n nextTokenMayBeObject = false;\n let scale = null;\n if (arg['font-scale']) {\n scale =\ncontext.parse(arg['font-scale'], 1, NumberType);\n if (!scale) return null;\n }\n let\nfont = null;\n if (arg['text-font']) {\n font = context.parse(arg['text-font'], 1,\narray(StringType));\n if (!font) return null;\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 const lastExpression = sections[sections.length - 1];\n lastExpression.scale = scale;\n lastExpression.font = font;\n lastExpression.textColor =\ntextColor;\n } else {\n const content = context.parse(args[i], 1, ValueType);\n if (!content)\nreturn null;\n const kind = content.type.kind;\n if (kind !== 'string' && kind !== 'value' &&\nkind !== 'null' && kind !== 'resolvedImage')\n return context.error(`Formatted text type must be 'string',\n'value', 'image' or 'null'.`);\n nextTokenMayBeObject = true;\n sections.push({content, scale:\nnull, font: null, textColor: null});\n }\n }\n\n return new FormatExpression(sections);\n }\n\n evaluate(ctx: EvaluationContext) {\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\n toString(evaluatedContent),\n null,\n section.scale ? section.scale.evaluate(ctx) :\nnull,\n section.font ? section.font.evaluate(ctx).join(',') : null,\n section.textColor ?\nsection.textColor.evaluate(ctx) : null\n);\n }\n\n return new\nFormatted(this.sections.map(evaluateSection));\n }\n\n eachChild(fn: (_: Expression) => void) {\n for (const\nsection 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
```



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fn(section.textColor);\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 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';\n\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\n const value =
ResolvedImage.fromString(evaluatedImageName);\n if (value && ctx.availableImages) value.available =
ctx.availableImages.indexOf(evaluatedImageName) > -1;\n\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
return [\"image\", this.input.serialize()];\n }\n}\n\"\", \"// @flow\n\nimport assert from 'assert';\n\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';\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 '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
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 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 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 === '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 if (!error) {\n return new Color((input[0]: any) / 255,
(input[1]: any) / 255, (input[2]: any) / 255, (input[3]: any));\n }\n }\n }\n }\n throw

```



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new RuntimeError(error || `Could not parse color from value '${typeof input === 'string' ? input :
String(JSON.stringify(input))}`);
 } else if (this.type.kind === 'number') {
 let value = null;
 for (const arg of this.args) {
 value = arg.evaluate(ctx);
 if (value === null) return 0;
 }
 const num = Number(value);
 if (isNaN(num)) continue;
 return num;
 }
 throw new RuntimeError(`Could not convert ${JSON.stringify(value)} to number.`);
 } else if (this.type.kind === 'formatted') {
 // There is no explicit 'to-formatted' but this coercion can be implicitly // created by
 properties that expect the 'formatted' type.
 return Formatted.fromString(valueToString(this.args[0].evaluate(ctx)));
 } else if (this.type.kind === 'resolvedImage') {
 return ResolvedImage.fromString(valueToString(this.args[0].evaluate(ctx)));
 }
 else {
 return valueToString(this.args[0].evaluate(ctx));
 }
}

eachChild(fn: (_: Expression) => void) {
 this.args.forEach(fn);
}

outputDefined(): boolean {
 return this.args.every(arg => arg.outputDefined());
}

serialize() {
 if (this.type.kind === 'formatted') {
 return new FormatExpression([
 { content: this.args[0], scale: null, font: null, textColor: null }
]).serialize();
 }
 if (this.type.kind === 'resolvedImage') {
 return new ImageExpression(this.args[0]).serialize();
 }
 const serialized = [to-${this.type.kind}];
 this.eachChild(child => {
 serialized.push(child.serialize());
 });
 return serialized;
}

export default Coercion;

@flow
import { Color } from './values';
import type { FormattedSection } from './types/formatted';
import type { GlobalProperties, Feature, FeatureState } from './index';
import type { CanonicalTileID } from './../source/tile_id';
const geometryTypes = ['Unknown', 'Point', 'LineString', 'Polygon'];
class EvaluationContext {
 globals: GlobalProperties;
 feature: ?Feature;
 featureState: ?FeatureState;
 formattedSection: ?FormattedSection;
 availableImages: ?Array<string>;
 canonical: ?CanonicalTileID;
 parseColorCache: { [: string]: ?Color };
 constructor() {
 this.globals = (null: any);
 this.feature = null;
 this.featureState = null;
 this.formattedSection = null;
 this._parseColorCache = {};
 this.availableImages = null;
 this.canonical = null;
 }
 id() {
 return this.feature && 'id' in this.feature ? this.feature.id : null;
 }
 geometryType() {
 return this.feature ? typeof this.feature.type === 'number' ? geometryTypes[this.feature.type] : this.feature.type : null;
 }
 geometry() {
 return this.feature && 'geometry' in this.feature ? this.feature.geometry : null;
 }
 canonicalID() {
 return this.canonical;
 }
 properties() {
 return this.feature && this.feature.properties || {};
 }
 parseColor(input: string): ?Color {
 let cached = this._parseColorCache[input];
 if (!cached) {
 cached = this._parseColorCache[input] = Color.parse(input);
 }
 return cached;
 }
}

export default EvaluationContext;

@flow
import { toString } from './types';
import ParsingContext from './parsing_context';
import EvaluationContext from './evaluation_context';
import assert from 'assert';
import type { Expression, ExpressionRegistry } from './expression';
import type { Type } from './types';
import type { Value } from './values';
export type Varargs = { | type: Type | };
type Signature = Array<Type> | Varargs;
type Evaluate = (EvaluationContext, Array<Expression>) => Value;
type Definition = [Type, Signature, Evaluate];
class CompoundExpression implements Expression {
 name: string;
 type: Type;
 _evaluate: Evaluate;
 args: Array<Expression>;
 static definitions: { [_: string]: Definition };
 constructor(name: string, type: Type, evaluate: Evaluate, args: Array<Expression>) {
 this.name = name;
 this.type = type;
 this._evaluate = evaluate;
 this.args = args;
 }
 evaluate(ctx: EvaluationContext) {
 return this._evaluate(ctx, this.args);
 }
 eachChild(fn: (_: Expression) => void) {
 this.args.forEach(fn);
 }
 outputDefined() {
 return false;
 }
 serialize(): Array<mixed> {
 return [this.name].concat(this.args.map(arg => arg.serialize()));
 }
 static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {
 const op: string = (args[0]: any);
 const definition = CompoundExpression.definitions[op];
 if (!definition) {
 return context.error(`Unknown expression \"${op}\". If you wanted a literal array, use [\"literal\", [...]].`, 0);
 }
 // Now check argument types against each signature
 const type = Array.isArray(definition) ? definition[0] : definition.type;
 const availableOverloads = Array.isArray(definition) ? [[definition[1], definition[2]]] : definition.overloads;
 const overloads =

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availableOverloads.filter(([signature]) => (\n !Array.isArray(signature) || // varargs\n signature.length\n === args.length - 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,\n 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 const expectedType = Array.isArray(params) ?\n params[i - 1] : 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\n if (argParseFailed) {\n // Couldn't coerce args of this overload to expected type, move\n // on to\n next one.\n continue;\n }\n\n if (Array.isArray(params)) {\n if (params.length !==\n parsedArgs.length) {\n signatureContext.error(`Expected ${params.length} arguments, but found\n ${parsedArgs.length} instead.`);\n continue;\n }\n\n for (let i = 0; i <\n 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\n if (signatureContext.errors.length === 0) {\n return new CompoundExpression(op, type,\n evaluate, parsedArgs);\n }\n }\n\n assert(!signatureContext || signatureContext.errors.length > 0);\n\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 //\n For error message, re-parse arguments without trying to\n // apply any coercions\n for (let i = 1; i <\n args.length; i++) {\n const parsed = context.parse(args[i], 1 + actualTypes.length);\n if (!parsed)\n return null;\n actualTypes.push(toString(parsed.type));\n }\n context.error(`Expected\n arguments of type ${signatures}, but found (${actualTypes.join(', ')}\n instead.`);\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\n name in definitions) {\n registry[name] = CompoundExpression;\n }\n }\n\n function\n stringifySignature(signature: Signature): string {\n if (Array.isArray(signature))\n return\n `(${signature.map(toString).join(', ')});\n `;\n else {\n return `(${toString(signature.type)}...)`;\n }\n }\n\n export default CompoundExpression;\n }\n\n @flow\n\n import { StringType, BooleanType, CollatorType }\n from './types';\n import Collator from './types/collator';\n import type { Expression } from './expression';\n import\n type EvaluationContext from './evaluation_context';\n import type ParsingContext from './parsing_context';\n import\n type { Type } from './types';\n\n export 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 =\n CollatorType;\n this.locale = locale;\n this.caseSensitive = caseSensitive;\n this.diacriticSensitive =\n 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 const options =\n (args[1]: any);\n if (typeof options !== \"object\" || Array.isArray(options))\n return\n 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)\n return null;\n const diacriticSensitive = context.parse(\n options['diacritic-sensitive'] === undefined ?\n false : options['diacritic-sensitive'], 1, BooleanType);\n if (!diacriticSensitive) return null;\n let locale =\n null;\n if (options['locale']) {\n locale = context.parse(options['locale'], 1, StringType);\n if\n (!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),\n this.diacriticSensitive.evaluate(ctx), this.locale ? this.locale.evaluate(ctx) : null);\n }\n\n eachChild(fn: (_:

```



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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", "// @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\nntype GeoJSONPolygons
=| 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 ((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 < 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\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\n // Second, check if there is line

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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 updateBBBox(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, polyBBBox, worldSize) {\n if (p[0] < polyBBBox[0] || p[0] >
polyBBBox[2]) {\n const halfWorldSize = worldSize * 0.5;\n let shift = (p[0] - polyBBBox[0] >
halfWorldSize) ? -worldSize : (polyBBBox[0] - p[0] > halfWorldSize) ? worldSize : 0;\n if (shift === 0) {\n
shift = (p[0] - polyBBBox[2] > halfWorldSize) ? -worldSize : (polyBBBox[2] - p[0] > halfWorldSize) ? worldSize :
0;\n }\n p[0] += shift;\n }\n updateBBBox(bbox, p);\n}\n\nfunction resetBBBox(bbox) {\n bbox[0] =
bbox[1] = Infinity;\n bbox[2] = bbox[3] = -Infinity;\n}\n\nfunction getTilePoints(geometry, pointBBBox,
polyBBBox, 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, pointBBBox,
polyBBBox, worldSize);\n tilePoints.push(p);\n }\n }\n return tilePoints;\n}\n\nfunction
getTileLines(geometry, lineBBBox, polyBBBox, 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 updateBBBox(lineBBBox, p);\n tileLine.push(p);\n }\n tileLines.push(tileLine);\n }\n if (lineBBBox[2] - lineBBBox[0] <= worldSize / 2) {\n resetBBBox(lineBBBox);\n
 for (const line of tileLines) {\n for (const p of line) {\n updatePoint(p, lineBBBox, polyBBBox,
worldSize);\n }\n }\n }\n return tileLines;\n}\n\nfunction pointsWithinPolygons(ctx:
EvaluationContext, polygonGeometry: GeoJSONPolygons) {\n const pointBBBox = [Infinity, Infinity, -Infinity, -
Infinity];\n const polyBBBox = [Infinity, Infinity, -Infinity, -Infinity];\n const canonical = ctx.canonicalID();\n if
(polygonGeometry.type === 'Polygon') {\n const tilePolygon =
getTilePolygon(polygonGeometry.coordinates, polyBBBox, canonical);\n const tilePoints =
getTilePoints(ctx.geometry(), pointBBBox, polyBBBox, canonical);\n if (!boxWithinBox(pointBBBox, polyBBBox))
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, polyBBBox, canonical);\n const tilePoints =
getTilePoints(ctx.geometry(), pointBBBox, polyBBBox, canonical);\n if (!boxWithinBox(pointBBBox, polyBBBox))
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 lineBBBox = [Infinity, Infinity, -Infinity, -Infinity];\n const
polyBBBox = [Infinity, Infinity, -Infinity, -Infinity];\n const canonical = ctx.canonicalID();\n if
(polygonGeometry.type === 'Polygon') {\n const tilePolygon = getTilePolygon(polygonGeometry.coordinates,
polyBBBox, canonical);\n const tileLines = getTileLines(ctx.geometry(), lineBBBox, polyBBBox, canonical);\n
 if (!boxWithinBox(lineBBBox, polyBBBox)) 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, polyBBBox,
canonical);\n const tileLines = getTileLines(ctx.geometry(), lineBBBox, polyBBBox, canonical);\n if
(!boxWithinBox(lineBBBox, polyBBBox)) 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

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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 (geojson.type === 'Feature') {\n const type = geojson.geometry.type;\n if (type === 'Polygon' || type === 'MultiPolygon') {\n return new Within(geojson, geojson.geometry);\n }\n } else if (geojson.type === 'Polygon' || geojson.type === 'MultiPolygon') {\n return new Within(geojson, geojson);\n }\n }\n return context.error(`'within' expression requires valid geojson object that contains polygon geometry type.`);\n }\n\n evaluate(ctx: EvaluationContext) {\n if (ctx.geometry() != null && ctx.canonicalID() != null) {\n if (ctx.geometryType() === 'Point') {\n return pointsWithinPolygons(ctx, this.geometries);\n } else if (ctx.geometryType() === 'LineString') {\n return linesWithinPolygons(ctx, this.geometries);\n }\n }\n return false;\n }\n\n eachChild() {\n outputDefined(): boolean {\n return true;\n }\n\n serialize(): Array<mixed> {\n return ["within", this.geojson];\n }\n }\n\n next export default Within;\n", "// @flow\n\nimport CompoundExpression from './compound_expression';\nimport Within from './definitions/within';\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 if (e instanceof Within) {\n return false;\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\n let result = true;\n e.eachChild((arg) => {\n if (result && !isGlobalPropertyConstant(arg, properties)) {\n result = false;\n }\n });\n return result;\n}\n\nnext export {\n 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: $ReadOnlyArray<mixed>, context: ParsingContext) {\n if (args.length !== 2 || typeof args[1] !== 'string')\n return context.error(`'var' expression requires exactly one string literal argument.`);\n const name = args[1];\n if (!context.scope.has(name)) {\n return context.error(`Unknown variable "${name}". Make sure "${name}" has been bound in an enclosing "let" expression before using it.` , 1);\n }\n 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 outputDefined() {\n return false;\n }\n\n serialize() {\n return ["var", this.name];\n }\n }\n\n next export 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

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'./compound_expression';\nimport CollatorExpression from './definitions/collator';\nimport Within from
'./definitions/within';\nimport {isGlobalPropertyConstant, isFeatureConstant} from './is_constant';\nimport Var from
'./definitions/var';\n\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 */\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: 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 const op = expr[0];\n if
(typeof op !== 'string') {\n this.error(`Expression name must be a string, but found ${typeof op} instead. If
you wanted a literal array, use ["literal", [...]].`, 0);\n return null;\n }\n const Expr =
this.registry[op];\n if (Expr) {\n let parsed = Expr.parse(expr, this);\n if (!parsed) return
null;\n if (this.expectedType) {\n const expected = this.expectedType;\n const
actual = parsed.type;\n // When we expect a number, string, boolean, or array but have a value, wrap it
in an assertion.\n // When we expect a color or formatted string, but have a string or value, wrap it in a
coercion.\n // Otherwise, we do static type-checking.\n // These behaviors are
overridable for:\n // * The "coalesce" operator, which needs to omit type annotations.\n //\n * String-valued properties (e.g. `text-field`), where coercion is more convenient than assertion.\n //\n if ((expected.kind === 'string' || expected.kind === 'number' || expected.kind === 'boolean' || expected.kind === 'object' || expected.kind === 'array') && actual.kind === 'value') {\n parsed = annotate(parsed, expected, options.typeAnnotation || 'assert');\n } else if ((expected.kind === 'color' || expected.kind === 'formatted' || expected.kind === 'resolvedImage') && (actual.kind === 'value' || actual.kind === 'string')) {\n parsed = annotate(parsed, expected, options.typeAnnotation || 'coerce');\n } else if
(this.checkSubtype(expected, actual)) {\n return null;\n }\n // If an
expression's arguments are all literals, we can evaluate\n // it immediately and replace it with a literal value
in the\n // parsed/compiled result. Expressions that expect an image should\n // not be resolved
here so we can later get the available images.\n if (!(parsed instanceof Literal) && (parsed.type.kind !==
'resolvedImage') && isConstant(parsed)) {\n const ec = new EvaluationContext();\n try {\n parsed = new Literal(parsed.type, parsed.evaluate(ec));\n } catch (e) {\n this.error(e.message);\n return null;\n }\n }\n return parsed;\n }\n return this.error(`Unknown expression "${op}". If you wanted a literal array, use ["literal", [...]].`,

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0);\n } else if (typeof expr === 'undefined') {\n return this.error(`undefined` value invalid. Use null\n instead.`);\n } else if (typeof expr === 'object') {\n return this.error(`Bare objects invalid. Use ["literal",\n {...}] instead.`);\n } else {\n return this.error(`Expected an array, but found ${typeof expr} instead.`);\n }\n}\n\n/**\n * Returns a copy of this context suitable for parsing the subexpression at\n * index `index`,\n optionally appending to 'let' binding map.\n *\n * Note that `errors` property, intended for collecting errors\n while\n * parsing, is copied by reference rather than cloned.\n * @private\n */\n concat(index: number,\n expectedType?: ?Type, bindings?: Array<[string, Expression]>) {\n const path = typeof index === 'number' ?\n this.path.concat(index) : this.path;\n const scope = bindings ? this.scope.concat(bindings) : this.scope;\n return new ParsingContext(\n this.registry,\n path,\n expectedType || null,\n scope,\n this.errors\n);\n}\n\n/**\n * Push a parsing (or type checking) error into the `this.errors`\n * @param error The message\n * @param keys Optionally specify the source of the error at a child\n * of the\n current expression at `this.key`.\n * @private\n */\n error(error: string, ...keys: Array<number>) {\n const\n key = `${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\n pushes it to `this.errors`.\n */\n checkSubtype(expected: Type, t: Type): ?string {\n const error =\n checkSubtype(expected, t);\n if (error) this.error(error);\n return error;\n}\n\n\nexport default\nParsingContext;\n\nfunction isConstant(expression: Expression) {\n if (expression instanceof Var) {\n return\n isConstant(expression.boundExpression);\n } else if (expression instanceof CompoundExpression &&\n expression.name === 'error') {\n return false;\n } else if (expression instanceof CollatorExpression) {\n //\n Although the results of a Collator expression with fixed arguments\n // generally shouldn't change between\n executions, we can't serialize them\n // as constant expressions because results change based on environment.\n return false;\n } else if (expression instanceof Within) {\n return false;\n }\n\n const isTypeAnnotation\n = 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\n the exception, because they might\n // have been inferred and added after a child was parsed.\n // So we\n recurse into isConstant() for the children of type annotations,\n // but otherwise simply check whether they are\n Literals.\n if (isTypeAnnotation) {\n childrenConstant = childrenConstant && isConstant(child);\n }\n });\n if\n (!childrenConstant) {\n return false;\n }\n\n return isFeatureConstant(expression) &&\n isGlobalPropertyConstant(expression, ['zoom', 'heatmap-density', 'line-progress', 'accumulated', 'is-supported-\n script']);\n}\n\n", "// @flow\n\nimport RuntimeError from './runtime_error';\nimport type {Expression} from\n './expression';\n\nexport type Stops = Array<[number, Expression]>;\n\n/**\n * Returns the index of the last stop <=\n input, or 0 if it doesn't exist.\n * @private\n */\n export function findStopLessThanOrEqualTo(stops:\n Array<number>, input: number) {\n const lastIndex = stops.length - 1;\n let lowerIndex = 0;\n let upperIndex\n = 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 ||\n input < nextValue) {\n // Search complete\n return currentIndex;\n }\n\n lowerIndex =\n 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", "// @flow\n\nimport\n {NumberType} from './types';\nimport {findStopLessThanOrEqualTo} from './stops';\nimport type {Stops}\n from './stops';\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\nexport class Step implements Expression {\n type: Type;\n\n input: Expression;\n labels:\n Array<number>;\n outputs: Array<Expression>;\n\n constructor(type: Type, input: Expression, stops: Stops) {\n this.type = type;\n this.input = input;\n this.labels = [];\n this.outputs = [];\n\n for (const [label,\n expression] of stops) {\n this.labels.push(label);\n this.outputs.push(expression);\n }\n }\n}

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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 if
((args.length - 1) % 2 !== 0) {\n return context.error(`Expected an even number of arguments.`);\n }\n
 const input = context.parse(args[1], 1, NumberType);\n if (!input) return null;\n const stops: Stops =
[];\n let outputType: Type = (null: any);\n if (context.expectedType && context.expectedType.kind !==
'value') {\n outputType = context.expectedType;\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 return new Step(outputType, input, stops);\n}\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 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
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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 *
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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) *

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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\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\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\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\nntype LABColor = {\n l: number,\n a: number,\n b: number,\n
alpha: number\n};\n\nntype 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\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

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'./expression';\nimport type ParsingContext from './parsing_context';\nimport type EvaluationContext from
'./evaluation_context';\nimport type {Type} from './types';\n\nexport type InterpolationType =\n { name: 'linear' }\n\n { name: 'exponential', base: number } \n { name: 'cubic-bezier', controlPoints: [number, number, number,
number] };\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 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\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.');

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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\n outputLower = outputs[index].evaluate(ctx);\n const outputUpper = outputs[index + 1].evaluate(ctx);\n\n if\n (this.operator === 'interpolate') {\n return (interpolate[this.type.kind.toLowerCase()]: any)(outputLower,\n 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\n outputDefined(): boolean {\n return this.outputs.every(out =>\n out.outputDefined());\n }\n\n serialize(): Array<mixed> {\n let interpolation;\n if\n (this.interpolation.name === 'linear') {\n interpolation = ['linear'];\n } else if (this.interpolation.name\n === 'exponential') {\n if (this.interpolation.base === 1) {\n interpolation = ['linear'];\n }\n } else {\n interpolation = ['exponential', this.interpolation.base];\n }\n interpolation = ['cubic-bezier'].concat(this.interpolation.controlPoints);\n const serialized =\n [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 return\n serialized;\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 $f(x) = a * base^x + b$, 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.\n * Here's a bit of algebra that lets us compute $f(x)$ directly from the stop values without explicitly solving for `a` and `b`:\n * First stop value: $f(x_0) = y_0 = a * base^{x_0} + b$ \n * Second stop value: $f(x_1) = y_1 = a * base^{x_1} + b$ \n * $\Rightarrow y_1 - y_0 = a(base^{x_1} - base^{x_0})$ \n * $\Rightarrow a = (y_1 - y_0) / (base^{x_1} - base^{x_0})$ \n * Desired value: $f(x) = y = a * base^x + b$ \n * $\Rightarrow f(x) = y_0 + a * (base^x - base^{x_0})$ \n * From the above, we can replace the `a` in $a * (base^x - base^{x_0})$ and do a little algebra:\n * $a * (base^x - base^{x_0}) = (y_1 - y_0) / (base^{x_1} - base^{x_0}) * (base^x - base^{x_0})$ \n * $= (y_1 - y_0) * (base^x - base^{x_0}) / (base^{x_1} - base^{x_0})$ \n * If we let $(base^x - base^{x_0}) / (base^{x_1} - base^{x_0})$, then we have\n * $f(x) = y_0 + (y_1 - y_0) * ratio$. In other words, `ratio` may be treated as an interpolation factor between the two stops' output values.\n * (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.)\n * @private\n * function\n * 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 * }\n\n export default Interpolate;\n\n @flow\n import assert from 'assert';\n import { checkSubtype,\n ValueType } from '../types';\n import ResolvedImage from '../types/resolved_image';\n import type { Expression }\n from './expression';\n import type ParsingContext from './parsing_context';\n import type EvaluationContext from\n './evaluation_context';\n import type { Type } from '../types';\n\n class Coalesce implements Expression {\n type:\n Type;\n args: Array<Expression>;\n\n constructor(type: Type, args: Array<Expression>) {\n this.type =\n 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\n outputType: Type = (null: any);\n const expectedType = context.expectedType;\n if (expectedType &&\n 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 + parsedArgs.length, outputType,\n undefined, { typeAnnotation: 'omit' });\n if (!parsed) return null;\n outputType = outputType ||\n parsed.type;\n parsedArgs.push(parsed);\n }\n assert(outputType);\n\n // Above, we parse\n arguments without inferred type annotation so that\n // they don't produce a runtime error for `null` input, which\n would\n // preempt the desired null-coalescing behavior.\n // Thus, if any of our arguments would have\n needed an annotation, we\n // need to wrap the enclosing coalesce expression with it instead.\n const\n needsAnnotation = expectedType &&\n parsedArgs.some(arg => checkSubtype(expectedType,

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arg.type));\n\n return needsAnnotation ?\n new Coalesce(ValueType, parsedArgs) :\n new\nCoalesce((outputType: any), parsedArgs);\n }\n\n evaluate(ctx: EvaluationContext) {\n let result = null;\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\n(result && result instanceof ResolvedImage && !result.available) {\n if (!requestedImageName) {\n requestedImageName = result.name;\n }\n result = null;\n if (argCount ===\nthis.args.length) {\n result = requestedImageName;\n }\n }\n if (result !== null)\nbreak;\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 =>\narg.outputDefined());\n }\n\n serialize() {\n const serialized = [\"coalesce\"];\n this.eachChild(child =>\n{ serialized.push(child.serialize()); });\n return serialized;\n }\n}\n\nexport default Coalesce;\n\"\", \"//\n@flow\n\nimport type {Type} from '../types';\nimport type {Expression} from '../expression';\nimport type\nParsingContext from '../parsing_context';\nimport type EvaluationContext from '../evaluation_context';\n\nclass Let\nimplements 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\nthis.bindings) {\n fn(binding[1]);\n }\n fn(this.result);\n }\n\n static parse(args:\n$ReadOnlyArray<mixed>, context: ParsingContext) {\n if (args.length < 4)\n return\ncontext.error(`Expected at least 3 arguments, but found ${args.length - 1} instead.`);\n const bindings:\nArray<[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}\ninstead.`);\n }\n if (/^[a-zA-Z0-9_]/.test(name)) {\n return context.error(`Variable names\nmust 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 const result =\ncontext.parse(args[args.length - 1], args.length - 1, context.expectedType, bindings);\n if (!result) return\nnull;\n return new Let(bindings, result);\n }\n\n outputDefined() {\n return\nthis.result.outputDefined();\n }\n\n serialize() {\n const serialized = [\"let\"];\n for (const [name, expr]\nof this.bindings) {\n serialized.push(name, expr.serialize());\n }\n serialized.push(this.result.serialize());\n return serialized;\n }\n}\n\nexport default Let;\n\"\", \"// @flow\n\nimport\n{array, ValueType, NumberType} from '../types';\nimport RuntimeError from '../runtime_error';\nimport type\n{Expression} from '../expression';\nimport type ParsingContext from '../parsing_context';\nimport type\nEvaluationContext from '../evaluation_context';\nimport type {Type, ArrayType} from '../types';\nimport type\n{Value} from '../values';\n\nclass At implements Expression {\n type: Type;\n index: Expression;\n input:\nExpression;\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: $ReadOnlyArray<mixed>, context:\nParsingContext) {\n if (args.length !== 3)\n return context.error(`Expected 2 arguments, but found\n${args.length - 1} instead.`);\n const index = context.parse(args[1], 1, NumberType);\n const input =\ncontext.parse(args[2], 2, array(context.expectedType || ValueType));\n if (!index || !input) return null;\n const t: ArrayType = (input.type: any);\n return new At(t.itemType, index, input);\n }\n\n evaluate(ctx:\nEvaluationContext) {\n const index = ((this.index.evaluate(ctx): any): number);\n const array =\n(((this.input.evaluate(ctx): any): Array<Value>));\n if (index < 0) {\n throw new RuntimeError(`Array\nindex out of bounds: ${index} < 0.`);\n }\n if (index >= array.length) {\n throw new\nRuntimeError(`Array index out of bounds: ${index} > ${array.length - 1}.`);\n }\n if (index !==\nMath.floor(index)) {\n throw new RuntimeError(`Array index must be an integer, but found ${index}\ninstead.`);\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

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return ["at", this.index.serialize(), this.input.serialize()];\n }\n}\n\nexport default At;\n", "// @flow\n\nimport\n{BooleanType, StringType, ValueType, NullType, toString, NumberType, isValidType, isValidNativeType} 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\nclass In implements\nExpression {\n type: Type;\n needle: Expression;\n haystack: Expression;\n\n constructor(needle:\nExpression, haystack: Expression) {\n this.type = BooleanType;\n this.needle = needle;\n this.haystack\n= haystack;\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n if (args.length\n!== 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,\nValueType);\n\n if (!needle || !haystack) return null;\n if (!isValidType(needle.type, [BooleanType,\nStringType, NumberType, NullType, ValueType])) {\n return context.error(`Expected first argument to be of\ntype boolean, string, number or null, but found ${toString(needle.type)} instead`);\n }\n\n return new\nIn(needle, haystack);\n }\n\n evaluate(ctx: EvaluationContext) {\n const needle = (this.needle.evaluate(ctx):\nany);\n const haystack = (this.haystack.evaluate(ctx): any);\n\n if (!haystack) return false;\n\n if\n(!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))} instead.`);\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))} instead.`);\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", "// @flow\n\nimport\n{BooleanType, StringType, ValueType, NullType, toString, NumberType, isValidType, isValidNativeType} 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\nclass IndexOf implements\nExpression {\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\n this.needle = needle;\n this.haystack = haystack;\n this.fromIndex = fromIndex;\n }\n\n static\nparse(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\nneedle = context.parse(args[1], 1, ValueType);\n const haystack = context.parse(args[2], 2, ValueType);\n\n if (!needle || !haystack) return null;\n if (!isValidType(needle.type, [BooleanType, StringType, NumberType,\nNullType, ValueType])) {\n return context.error(`Expected first argument to be of type boolean, string,\nnumber or null, but found ${toString(needle.type)} instead`);\n }\n\n if (args.length === 4) {\n const\nfromIndex = context.parse(args[3], 3, NumberType);\n if (!fromIndex) return null;\n return new\nIndexOf(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\nhaystack = (this.haystack.evaluate(ctx): any);\n\n if (!isValidNativeType(needle, ['boolean', 'string', 'number',\n'null'])) {\n throw new RuntimeError(`Expected first argument to be of type boolean, string, number or null,\nbut found ${toString(typeOf(needle))} instead.`);\n }\n\n if (!isValidNativeType(haystack, ['string',\n'array'])) {\n throw new RuntimeError(`Expected second argument to be of type array or string, but found\n${toString(typeOf(haystack))} instead.`);\n }\n\n if (this.fromIndex) {\n const fromIndex =\n(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(),

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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 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 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 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 if
(typeof cases[String(label)] !== 'undefined') {\n return labelContext.error(`Branch labels must be
unique.`);\n }\n cases[String(label)] = outputs.length;\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 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' &&
context.concat(1).checkSubtype((inputType: any), input.type)) {\n return null;\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 // 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
 // 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 = 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}

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const coerceLabel = (label) => this.inputType.kind === 'number' ? Number(label) : label; \n\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 }\n serialized.push(this.otherwise.serialize());\n return serialized;\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\n let outputType: ?Type;\n if (context.expectedType && context.expectedType.kind !== 'value') {\n outputType = 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 = 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 = 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 => {\n serialized.push(child.serialize());\n });\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 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 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 if (this.endIndex) {\n const endIndex = (this.endIndex.evaluate(ctx): number);\n return input.slice(beginIndex, endIndex);\n }\n }\n}
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}\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) {\nconst endIndex = this.endIndex.serialize();\n return ["slice", this.input.serialize(), this.beginIndex.serialize(),\nendIndex];\n }\n return ["slice", this.input.serialize(), this.beginIndex.serialize()];\n }\n}\n\nexport\ndefault Slice;\n", "/// @flow\n\nimport {toString, ValueType, BooleanType, CollatorType} from './types';\nimport\nAssertion from './assertion';\nimport {typeOf} from './values';\nimport RuntimeError from\n'./runtime_error';\n\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\nntype ComparisonOperator = '==' | '!=' | '<' | '>' | '<=' | '>=';\n\nfunction isComparableType(op:\nComparisonOperator, type: Type) {\n if (op === '==' || op === '!=') {\n // equality operator\n return\n type.kind === 'boolean' ||\n type.kind === 'string' ||\n type.kind === 'number' ||\n type.kind ===\n '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\n > 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\n 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,\nb, 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\n 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,\na, b, c) {\n return c.compare(a, b) >= 0;\n}\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 * -\n * For inequalities, T must be either value, string, or number. For ==/!=, it\n * can also be boolean or\n null.\n * Equality semantics are equivalent to Javascript's strict equality (===/!==)\n * -- i.e., when the\n arguments' types don't match, == evaluates to false, != to\n true.\n * When types don't match in an ordering\n comparison, a runtime error is thrown.\n * @private\n */\n\nfunction makeComparison(op: ComparisonOperator,\ncompareBasic, compareWithCollator) {\n const isOrderComparison = op !== '==' && op !== '!=';\n\n return\n class Comparison implements Expression {\n type: Type;\n lhs: Expression;\n rhs: Expression;\n collator: ?Expression;\n hasUntypedArgument: boolean;\n\n constructor(lhs: Expression, rhs: Expression,\ncollator: ?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: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n if\n (args.length !== 3 && args.length !== 4)\n return context.error('Expected two or three arguments.);\n\n const op: ComparisonOperator = (args[0]: any);\n let lhs = context.parse(args[1], 1, ValueType);\n\n if (!lhs) return null;\n if (!isComparableType(op, lhs.type)) {\n return\n context.concat(1).error(`"${op}" comparisons are not supported for type "${toString(lhs.type)}".`);\n }\n\n let rhs = context.parse(args[2], 2, ValueType);\n if (!rhs) return null;\n if (!isComparableType(op,\nrhs.type)) {\n return context.concat(2).error(`"${op}" comparisons are not supported for type\n "${toString(rhs.type)}".`);\n }\n\n if (\n lhs.type.kind !== rhs.type.kind &&\n lhs.type.kind !== 'value' &&\n rhs.type.kind !== 'value'\n) {\n return\n context.error('Cannot compare types "${toString(lhs.type)}" and "${toString(rhs.type)}".`);\n }\n\n if\n (isOrderComparison) {\n // typing rules specific to less/greater than operators\n if (lhs.type.kind\n === 'value' && rhs.type.kind !== 'value') {\n // (value, T)\n lhs = new Assertion(rhs.type,\n [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\n (args.length === 4) {\n if (\n lhs.type.kind !== 'string' &&\n rhs.type.kind !==\n '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 =\n context.parse(args[3], 3, CollatorType);\n if (!collator) return null;\n }\n\n return new

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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 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.');

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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\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': [\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: 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 = (v:\n 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\n = (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:\n 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\n = (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:\n 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\n 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:\n 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()) >= 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\n ascending order and of a single type\n (ctx, [k, v]) => binarySearch(ctx.properties()[(k: any).value], (v:\n 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 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\n (arg.evaluate(ctx))\n return true;\n }\n return false;\n }\n],\n [\n BooleanType,\n [BooleanType],\n (ctx, [b]) => !b.evaluate(ctx)\n],\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 isGlobalPropertyConstant\n (ctx, [s]) => {\n const\n isSupportedScript = ctx.globals && ctx.globals.isSupportedScript;\n if (isSupportedScript) {\n return isSupportedScript(s.evaluate(ctx));\n }\n return true;\n }\n],\n 'upcase': [\n
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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 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", "// @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
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({\n
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\n if (parameters.colorSpace && parameters.colorSpace !==
'rgb' && !colorSpaces[parameters.colorSpace]) {\n // eslint-disable-line import/namespace\n throw new
Error(`Unknown color space: ${parameters.colorSpace}`);\n }\n\n let innerFun;\n let hashedStops;\n let
categoricalKeyType;\n if (type === 'exponential') {\n innerFun = evaluateExponentialFunction;\n } else if
(type === 'interval') {\n innerFun = evaluateIntervalFunction;\n } else if (type === 'categorical') {\n
innerFun = evaluateCategoricalFunction;\n\n // For categorical functions, generate an Object as a hashmap of
the stops for fast searching\n hashedStops = Object.create(null);\n for (const stop of parameters.stops) {\n
hashedStops[stop[0]] = stop[1];\n }\n\n // Infer key type based on first stop key-- used to enforce strict
type checking later\n categoricalKeyType = typeof parameters.stops[0][0];\n } else if (type === 'identity')
{\n innerFun = evaluateIdentityFunction;\n } else {\n throw new Error(`Unknown function type
"${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:

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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 const featureFunctionStops = [];\n for (const z of zoomStops) {\n featureFunctionStops.push([featureFunctions[z].zoom, createFunction(featureFunctions[z], propertySpec)]);\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\n if (zoomDependent) {\n const interpolationType = type === 'exponential' ?\n {name: 'exponential', base:\n 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}\n\nfunction coalesce(a, b, c)\n{\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\n input === keyType ? hashedStops[input] : undefined; // Enforce strict typing on input\n return coalesce(evaluated,\n parameters.default, propertySpec.default);\n}\n\nfunction 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\nfunction evaluateExponentialFunction(parameters,\n propertySpec, input) {\n const base = parameters.base !== undefined ? parameters.base : 1;\n // Edge cases\n if (getType(input) !== 'number') return coalesce(parameters.default, propertySpec.default);\n const n =\n parameters.stops.length;\n if (n === 1) return parameters.stops[0][1];\n if (input <= parameters.stops[0][0])\n return parameters.stops[0][1];\n if (input >= parameters.stops[n - 1][0]) return parameters.stops[n - 1][1];\n const index = findStopLessThanOrEqualTo(parameters.stops.map((stop) => stop[0]), input);\n const t =\n interpolationFactor(\n input, base,\n parameters.stops[index][0],\n parameters.stops[index + 1][0]);\n const outputLower = parameters.stops[index][1];\n const outputUpper = parameters.stops[index + 1][1];\n let\n interp = interpolate[propertySpec.type] || identityFunction; // eslint-disable-line import/namespace\n if\n (parameters.colorSpace && parameters.colorSpace !== 'rgb') {\n const colorspace =\n colorSpaces[parameters.colorSpace]; // 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\nfunction evaluateIdentityFunction(parameters, propertySpec,\n input) {\n if (propertySpec.type === 'color') {\n input = Color.parse(input);\n } else if (propertySpec.type\n === 'formatted') {\n input = Formatted.fromString(input.toString());\n } else if (propertySpec.type ===\n 'resolvedImage') {\n input = ResolvedImage.fromString(input.toString());\n } else if (getType(input) !==\n propertySpec.type && (propertySpec.type !== 'enum' || !propertySpec.values[input])) {\n input = undefined;\n }\n}

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}\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 *\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 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';\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';\nimport type Point from '@mapbox/point-
geometry';\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<any>;\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,\n
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,\n
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

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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.');

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'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 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:

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'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\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\n if (spec.type === 'array') {\n return array(types[spec.value] ||
ValueType, spec.length);\n }\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\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 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

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const featureFunctionStops = {};
const zoomStops = [];
for (let s = 0; s < stops.length; s++) {
 const stop = stops[s];
 const zoom = stop[0].zoom;
 if (featureFunctionParameters[zoom] === undefined) {
 featureFunctionParameters[zoom] = {
 zoom,
 type: parameters.type,
 property: parameters.property,
 default: parameters.default,
 };
 featureFunctionStops[zoom] = [];
 zoomStops.push(zoom);
 }
 featureFunctionStops[zoom].push([stop[0].value, stop[1]]);
}

// the interpolation type for the zoom dimension of a zoom-and-property // function is determined directly from
// the style property specification // for which it's being used: linear for interpolatable properties, step //
// otherwise.
const functionType = getFunctionType({}, propertySpec);
if (functionType === 'exponential') {
 const expression = [getInterpolateOperator(parameters), ['linear'], ['zoom']];
 for (const z of zoomStops) {
 const output = convertPropertyFunction(featureFunctionParameters[z], propertySpec, featureFunctionStops[z]);
 appendStopPair(expression, z, output, false);
 }
 return expression;
} else {
 const expression = ['step', ['zoom']];
 for (const z of zoomStops) {
 const output = convertPropertyFunction(featureFunctionParameters[z], propertySpec, featureFunctionStops[z]);
 appendStopPair(expression, z, output, true);
 }
 fixupDegenerateStepCurve(expression);
 return expression;
}

function coalesce(a, b) {
 if (a !== undefined) return a;
 if (b !== undefined) return b;
}

function convertPropertyFunction(parameters, propertySpec, stops) {
 const type = getFunctionType(parameters, propertySpec);
 const get = ['get', parameters.property];
 if (type === 'categorical' && stops[0][0] === 'boolean') {
 assert(parameters.stops.length > 0 && parameters.stops.length <= 2);
 const expression = ['case'];
 for (const stop of stops) {
 expression.push(['==', get, stop[0]], stop[1]);
 }
 expression.push(convertLiteral(coalesce(parameters.default, propertySpec.default)));
 return expression;
 } else if (type === 'categorical') {
 const expression = ['match', get];
 for (const stop of stops) {
 appendStopPair(expression, stop[0], stop[1], false);
 }
 expression.push(convertLiteral(coalesce(parameters.default, propertySpec.default)));
 return expression;
 } else if (type === 'interval') {
 const expression = ['step', ['number', get]];
 for (const stop of stops) {
 appendStopPair(expression, stop[0], stop[1], true);
 }
 fixupDegenerateStepCurve(expression);
 return parameters.default === undefined ? expression : [
 'case',
 ['==', ['typeof', get], 'number'],
 expression,
 convertLiteral(parameters.default),
];
 } else if (type === 'exponential') {
 const base = parameters.base !== undefined ? parameters.base : 1;
 const expression = [
 getInterpolateOperator(parameters),
 base === 1 ? ['linear'] : ['exponential', base],
 ['number', get],
];
 for (const stop of stops) {
 appendStopPair(expression, stop[0], stop[1], false);
 }
 return parameters.default === undefined ? expression : [
 'case',
 ['==', ['typeof', get], 'number'],
 expression,
 convertLiteral(parameters.default),
];
 } else {
 throw new Error(`Unknown property function type ${type}`);
 }
}

function convertZoomFunction(parameters, propertySpec, stops, input = ['zoom']) {
 const type = getFunctionType(parameters, propertySpec);
 let expression;
 let isStep = false;
 if (type === 'interval') {
 expression = ['step', input];
 isStep = true;
 } else if (type === 'exponential') {
 const base = parameters.base !== undefined ? parameters.base : 1;
 expression = [getInterpolateOperator(parameters), base === 1 ? ['linear'] : ['exponential', base], input];
 } else {
 throw new Error(`Unknown zoom function type "${type}"`);
 }
 for (const stop of stops) {
 appendStopPair(expression, stop[0], stop[1], isStep);
 }
 fixupDegenerateStepCurve(expression);
 return expression;
}

function fixupDegenerateStepCurve(expression) {
 // degenerate step curve (i.e. a constant function): add a noop stop
 if (expression[0] === 'step' && expression.length === 3) {
 expression.push(0);
 expression.push(expression[3]);
 }
}

function appendStopPair(curve, input, output, isStep) {
 // Skip duplicate stop values. They were not validated for functions, but they are for expressions.
 // https://github.com/mapbox/mapbox-gl-js/issues/4107
 if (curve.length > 3 && input === curve[curve.length - 2]) {
 return;
 }
 // step curves don't get the first input value, as it is redundant.
 if (!(isStep && curve.length === 2)) {
 curve.push(input);
 }
 curve.push(output);
}

```



```

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 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]];\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\nexport type FilterExpression =
(globalProperties: GlobalProperties, feature: Feature, canonical?: CanonicalTileID) => boolean;\n\nexport type FeatureFilter = {\n filter: FilterExpression,\n needGeometry: boolean;\n};\n\nexport default createFilter;\n\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] !== '$id' && filter[1] !== '$type';\n case 'in':\n return filter.length >= 3 && (typeof filter[1] !== 'string' || Array.isArray(filter[2]));\n case 'in':\n case 'has':\n case 'none':\n return false;\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 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 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\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}: ${err.message}`).join(', '));\n } else
{\n const needGeometry = geometryNeeded(filter);\n return {filter: (globalProperties: GlobalProperties,
feature: Feature, canonical?: CanonicalTileID) => compiled.value.evaluate(globalProperties, feature, {\n canonical}),\n needGeometry};\n }\n}\n\n// Comparison function to sort numbers and strings\nfunction
compare(a, b) {\n return a < b ? -1 : a > b ? 1 : 0;\n}\n\nfunction geometryNeeded(filter) {\n if
(!Array.isArray(filter)) return false;\n if (filter[0] === 'within') return true;\n for (let index = 1; index <
filter.length; index++) {\n if (geometryNeeded(filter[index])) return true;\n }\n return false;\n}\n\nfunction
convertFilter(filter: ?Array<any>): mixed {\n if (!filter) return true;\n const op = filter[0];\n if (filter.length <=
1) return (op !== 'any');\n const converted =\n op === '==' ? convertComparisonOp(filter[1], filter[2], '==') :\n op === '!=' ? convertNegation(convertComparisonOp(filter[1], filter[2], '==')) :\n op === '<' ||\n op === '>' ||\n op === '<=' ||\n op === '>=' ? convertComparisonOp(filter[1], filter[2], op) :\n op === 'any' ?
convertDisjunctionOp(filter.slice(1)) :\n op === 'all' ? ['all'].concat(filter.slice(1).map(convertFilter)) :\n op
=== 'none' ? ['all'].concat(filter.slice(1).map(convertFilter).map(convertNegation)) :\n op === 'in' ?
convertInOp(filter[1], filter.slice(2)) :\n op === 'in' ? convertNegation(convertInOp(filter[1], filter.slice(2))) :\n op
=== 'has' ? convertHasOp(filter[1]) :\n op === 'has' ? convertNegation(convertHasOp(filter[1])) :\n op
=== 'within' ? filter :\n true;\n return converted;\n}\n\nfunction convertComparisonOp(property: string,
value: any, op: string) {\n switch (property) {\n case '$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) {\n return false;\n }\n switch (property) {\n case '$type':\n return ['filter-type-in', ['literal',

```



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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\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\n// @flow\n\nimport {isExpressionFilter} from

'./index';\n\nimport type {FilterSpecification} from './types';\n\nntype 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 * \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 * \n *

["any\", [\"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` 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\", 0]], [\"number\", [\"==\", [\"typeof\",

[\"get\", [\"z\", 0]], [\"number\"], \n * [\"all\", [\">\", [\"get\", [\"y\", 0], [\">\", [\"get\", [\"z\", 0]], \n * false\n *

], \n * [\"case\", \n * [\"==\", [\"typeof\", [\"get\", [\"x\", 0]], [\"number\", [\">\", [\"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 */\n\nfunction _convertFilter(filter: FilterSpecification, expectedTypes:

ExpectedTypes): mixed {\n if (isExpressionFilter(filter)) { return filter; }\n if (!filter) return true;\n const op

= filter[0];\n if (filter.length <= 1) return (op !== 'any');\n let converted;\n if (\n op === '==' ||\n op

=== '!=' ||\n op === '<' ||\n op === '>' ||\n op === '<=' ||\n op === '>=') {\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

['!', _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\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', ['get', 'name'], 'string'],\n// ['==', ['typeof', ['get', 'population'],

'number']]\n//]\n\nfunction runtimeTypeChecks(expectedTypes: ExpectedTypes) {\n const conditions = [];\n for

(const property in expectedTypes) {\n const get = property === '$id' ? ['id'] : ['get', property];\n }

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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\n function\n convertComparisonOp(property: string, value: any, op: string, expectedTypes: ?ExpectedTypes) {\n let get;\n if\n (property === '$type') {\n return [op, ['geometry-type'], value];\n } else if (property === '$id') {\n get =\n ['id'];\n } else {\n get = ['get', property];\n }\n\n if (expectedTypes && value !== null) {\n const type\n = ((typeof value): any);\n expectedTypes[property] = type;\n }\n\n if (op === '==' && property !== '$id' &&\n value === null) {\n return [\n 'all',\n ['has', property], // missing property != null for legacy filters\n ['==', get, null]\n];\n } else if (op === '!=' && property !== '$id' && value === null) {\n return [\n 'any',\n ['!', ['has', property]], // missing property != null for legacy filters\n ['!=', get, null]\n];\n }\n\n return [op, get, value];\n }\n\n function convertInOp(property: string, values: Array<any>, negate =\n false) {\n if (values.length === 0) return negate;\n\n let get;\n if (property === '$type') {\n get =\n ['geometry-type'];\n } else if (property === '$id') {\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\n number), then we can use a\n // [match, input, [...values], true, false] construction rather than a\n // bunch of `==`\n tests.\n let uniformTypes = true;\n const type = typeof values[0];\n for (const value of values) {\n if\n (typeof value !== type) {\n uniformTypes = false;\n break;\n }\n }\n\n if (uniformTypes &&\n (type === 'string' || type === 'number')) {\n // Match expressions must have unique values.\n const\n uniqueValues = values.sort().filter((v, i) => i === 0 || values[i - 1] !== v);\n return ['match', get, uniqueValues,\n !negate, negate];\n }\n\n return [negate ? 'all' : 'any'].concat(\n values.map(v => [negate ? '!=' : '==', get,\n v])\n);\n}\n\nfunction convertHasOp(property: string) {\n if (property === '$type') {\n return true;\n }\n else if (property === '$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\n './expression';\nimport convertFunction, {convertTokenString} from './function/convert';\nimport convertFilter\nfrom './feature_filter/convert';\nimport type {StyleSpecification} from './types';\n\n/**\n * Migrate the given style\nobject in place to use expressions. Specifically,\n * this will convert (a) \"stop\" functions, and (b) legacy filters to\ntheir\n * expression equivalents.\n */\n\nexport default function(style: StyleSpecification) {\n const converted =\n [];\n\n eachLayer(style, (layer) => {\n if (layer.filter) {\n layer.filter = (convertFilter(layer.filter):\n any);\n }\n });\n\n eachProperty(style, {paint: true, layout: true}, ({path, value, reference, set}) => {\n if\n (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 &&\n typeof value === 'string') {\n set(convertTokenString(value));\n }\n });\n\n return\n style;\n}\n\n\"\", \"\nimport migrateToV8 from './migrate/v8';\nimport migrateToExpressions from\n './migrate/expressions';\n\n/**\n * Migrate a Mapbox GL Style to the latest version.\n */\n\n@private\n * @alias\nmigrate\n * @param {Object} style a Mapbox GL Style\n * @returns {Object} a migrated style\n * @example\n *\nvar fs = require('fs');\n * var migrate = require('mapbox-gl-style-spec').migrate;\n * var style =\nfs.readFileSync('./style.json', 'utf8');\n * fs.writeFileSync('./style.json', JSON.stringify(migrate(style)));\n\n */\n\nexport\n default function(style) {\n let migrated = false;\n\n if (style.version === 7) {\n style = migrateToV8(style);\n\n migrated = true;\n }\n\n if (style.version === 8) {\n migrated = migrateToExpressions(style);\n\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\n 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\n (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\n (styleIDs.indexOf(layer.source) >= 0)\n layer.source = compositeID;\n\n if ('source-layer' in layer)\n {\n if (compositedSourceLayers.indexOf(layer['source-layer']) >= 0)\n throw new

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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 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 *\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 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 *\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", "\nimport isEqual from
'./util/deep_equal';\n\nconst 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 * { 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

```



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true;\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 } else {\n // no update command, must remove then add\n updateSource(sourceId, after, commands, sourcesRemoved);\n }\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 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 layerId = afterOrder[i];\n beforeLayer = beforeIndex[layerId];\n afterLayer = afterIndex[layerId];\n // no need to update if previously added (new or moved)\n if (clean[layerId] || isEqual(beforeLayer, afterLayer)) continue;\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 diffLayerPropertyChanges(beforeLayer.paint, afterLayer.paint, commands, layerId, null, operations.setPaintProperty);\n if (!isEqual(beforeLayer.filter, afterLayer.filter)) {\n
```



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commands.push({command: operations.setStyle, args: [layerId, afterLayer.filter]});\n }\n if\n (!isEqual(beforeLayer.minzoom, afterLayer.minzoom)) || !isEqual(beforeLayer.maxzoom, afterLayer.maxzoom)) {\n commands.push({command: operations.setLayerZoomRange, args: [layerId, afterLayer.minzoom,\n afterLayer.maxzoom]});\n }\n // handle all other layer props, including paint.*\n for (prop in\n beforeLayer) {\n if (!beforeLayer.hasOwnProperty(prop)) continue;\n if (prop === 'layout' || prop ===\n 'paint' || prop === 'filter' ||\n prop === 'metadata' || prop === 'minzoom' || prop === 'maxzoom') continue;\n if (prop.indexOf('paint.') === 0) {\n diffLayerPropertyChanges(beforeLayer[prop], afterLayer[prop],\n commands, layerId, prop.slice(6), operations.setPaintProperty);\n } else if (!isEqual(beforeLayer[prop],\n afterLayer[prop])) {\n commands.push({command: operations.setLayerProperty, args: [layerId, prop,\n afterLayer[prop]]});\n }\n }\n for (prop in afterLayer) {\n if\n (!afterLayer.hasOwnProperty(prop) || beforeLayer.hasOwnProperty(prop)) continue;\n if (prop === 'layout' ||\n prop === 'paint' || prop === 'filter' ||\n prop === 'metadata' || prop === 'minzoom' || prop === 'maxzoom')\n continue;\n if (prop.indexOf('paint.') === 0) {\n diffLayerPropertyChanges(beforeLayer[prop],\n afterLayer[prop], commands, layerId, prop.slice(6), operations.setPaintProperty);\n } else if\n (!isEqual(beforeLayer[prop], afterLayer[prop])) {\n commands.push({command:\n operations.setLayerProperty, args: [layerId, prop, afterLayer[prop]]});\n }\n }\n }\n}\n\n/**\n * Diff\n * two stylesheet\n * *\n * Creates semantically aware diffs that can easily be applied at runtime.\n * *\n * Operations produced\n * by the diff closely resemble the mapbox-gl-js API. Any\n * error creating the diff will fall back to the 'setStyle'\n * operation.\n * *\n * Example diff:\n * *\n * {\n * command: 'setConstant', args: ['@water', '#0000FF'] },\n * {\n * command: 'setPaintProperty', args: ['background', 'background-color', 'black'] }\n * }\n * *\n * @private\n * @param\n * {Object} [before] stylesheet to compare from\n * @param {Object} {after} stylesheet to compare to\n * @returns Array list of\n * changes\n */\nfunction diffStyles(before, after) {\n if (!before) return [{command: operations.setStyle, args:\n [after]}];\n let commands = [];\n try {\n // Handle changes to top-level properties\n if\n (!isEqual(before.version, after.version)) {\n return [{command: operations.setStyle, args: [after]}];\n }\n if (!isEqual(before.center, after.center)) {\n commands.push({command: operations.setCenter, args:\n [after.center]});\n }\n if (!isEqual(before.zoom, after.zoom)) {\n commands.push({command:\n 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,\n after.pitch)) {\n commands.push({command: operations.setPitch, args: [after.pitch]});\n }\n if\n (!isEqual(before.sprite, after.sprite)) {\n commands.push({command: operations.setSprite, args:\n [after.sprite]});\n }\n if (!isEqual(before.glyphs, after.glyphs)) {\n commands.push({command:\n 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\n (!isEqual(before.light, after.light)) {\n commands.push({command: operations.setLight, args:\n [after.light]});\n }\n // Handle changes to `sources`\n // If a source is to be removed, we also--before\n the removeSource\n // command--need to remove all the style layers that depend on it.\n const\n sourcesRemoved = {};\n // First collect the {add,remove}Source commands\n const\n removeOrAddSourceCommands = [];\n diffSources(before.sources, after.sources,\n removeOrAddSourceCommands, sourcesRemoved);\n // Push a removeLayer command for each style layer\n that depends on a\n // source that's being removed.\n // Also, exclude any such layers them from the input to\n `diffLayers`\n // below, so that diffLayers produces the appropriate `addLayers`\n // command\n const\n beforeLayers = [];\n if (before.layers) {\n before.layers.forEach((layer) => {\n if\n (sourcesRemoved[layer.source]) {\n commands.push({command: operations.removeLayer, args:\n [layer.id]});\n } else {\n beforeLayers.push(layer);\n }\n });\n }\n }\n commands = 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\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\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\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 =\n
error.message.match(/line (\\d+)/);\n this.line = match ? parseInt(match[1], 10) : 0;\n }\n}\n\n",/*\nimport\n
ValidationError from '../error/validation_error';\n\nexport default function validateConstants(options) {\n const\n
key = options.key;\n const constants = options.value;\n\n if (constants) {\n return [new ValidationError(key,\n
constants, 'constants have been deprecated as of v8')];\n } else {\n return [];\n }\n}\n\n",/* @flow\n\n// Turn\n
jsonlint-lines-primitives objects into primitive objects\n\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}\n\n return\n
unbundle(value);\n}\n\n",/*\nimport ValidationError from '../error/validation_error';\nimport getType from\n
'../util/get_type';\nimport validateSpec from './validate';\n\nexport default function validateObject(options) {\n\n
const key = options.key;\n const object = options.value;\n const elementSpecs = options.valueSpec || {};\n\n
const elementValidators = options.objectElementValidators || {};\n const style = options.style;\n const styleSpec\n
= options.styleSpec;\n let errors = [];\n\n const type = getType(object);\n if (type !== 'object') {\n return\n
[new ValidationError(key, object, `object expected, ${type} found`)];\n }\n\n for (const objectKey in object) {\n\n
 const elementSpecKey = objectKey.split('.')[0]; // treat 'paint.*' as 'paint'\n const elementSpec =\n
elementSpecs[elementSpecKey] || elementSpecs['*'];\n\n let validateElement;\n if\n
(elementValidators[elementSpecKey]) {\n validateElement = elementValidators[elementSpecKey];\n }\n
else if (elementSpecs[elementSpecKey]) {\n validateElement = validateSpec;\n } else if\n
(elementValidators['*']) {\n validateElement = elementValidators['*'];\n } else if (elementSpecs['*']) {\n\n
 validateElement = validateSpec;\n } else {\n errors.push(new ValidationError(key,\n
object[objectKey], `unknown property \\`${objectKey}\\``));\n continue;\n }\n\n errors =\n
errors.concat(validateElement({\n key: (key ? `${key}: ` : key) + objectKey,\n value:\n
object[objectKey],\n valueSpec: elementSpec,\n style,\n styleSpec,\n object,\n
objectKey\n }, object));\n }\n\n for (const elementSpecKey in elementSpecs) {\n // Don't check\n
`required` when there's a custom validator for that property.\n if (elementValidators[elementSpecKey]) {\n\n
 continue;\n }\n\n if (elementSpecs[elementSpecKey].required &&\n
elementSpecs[elementSpecKey]['default'] === undefined && object[elementSpecKey] === undefined) {\n\n
 errors.push(new ValidationError(key, object, `missing required property \\`${elementSpecKey}\\``));\n }\n
}\n\n return errors;\n}\n\n",/*\nimport getType from '../util/get_type';\nimport validate from './validate';\nimport\n
Validation\n
Error 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 const styleSpec =\n
options.styleSpec;\n const key = options.key;\n const validateArrayElement = options.arrayElementValidator ||\n
validate;\n\n if (getType(array) !== 'array') {\n return [new ValidationError(key, array, `array expected,\n
${getType(array)} found`)];\n }\n\n if (arraySpec.length && array.length !== arraySpec.length) {\n return\n
[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\n
Validation\n
Error(key, array, `array length at least ${arraySpec['min-length']} expected, length ${array.length}\n
found`)];\n }\n\n let arrayElementSpec = {\n `type`: arraySpec.value,\n `values`: arraySpec.values\n
}

```







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(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, ${getType(value[0])} found`)];\n
 }\n if (value[0].zoom === undefined) {\n return [new ValidationError(key, value, 'object stop key
must have zoom')];\n }\n if (value[0].value === undefined) {\n return [new
ValidationError(key, value, 'object stop key must have value')];\n }\n if (previousStopDomainZoom
&& previousStopDomainZoom > unbundle(value[0].zoom)) {\n return [new ValidationError(key,
value[0].zoom, 'stop zoom values must appear in ascending order')];\n }\n if (unbundle(value[0].zoom)
!== previousStopDomainZoom) {\n previousStopDomainZoom = unbundle(value[0].zoom);\n
previousStopDomainValue = undefined;\n stopDomainValues = {};\n }\n errors =
errors.concat(validateObject({\n key: `${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: `${key}[1]`,\n value: value[1],\n valueSpec:
functionValueSpec,\n style: options.style,\n styleSpec: options.styleSpec\n }));\n }\n\n function validateStopDomainValue(options, stop) {\n const type = getType(options.value);\n const value =
unbundle(options.value);\n\n const reportValue = options.value !== null ? options.value : stop;\n\n if
(!stopKeyType) {\n stopKeyType = type;\n } else if (type !== stopKeyType) {\n return [new
ValidationError(options.key, reportValue, `${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
 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' &&

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(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 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 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\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\n return errors;\n}\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 \"${value[0]}\"`));\n }\n /* falls through */\n case '==':\n case '!=':\n if (value.length
!== 3) {\n errors.push(new ValidationError(key, value, `filter array for operator \"${value[0]}\" must have 3
elements`));\n }\n }\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]`,

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value[1], `string expected, ${type} found`));\n }\n }\n for (let i = 2; i < value.length; i++) {\n
type = getType(value[i]);\n if (unbundle(value[1]) === 'style') {\n errors =
errors.concat(validateEnum({\n key: `${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, ${type} found`));\n
 }\n }\n break;\n\n case 'any':\n case 'all':\n case 'none':\n for (let i = 1; i < value.length; i++)\n
{\n errors = errors.concat(validateNonExpressionFilter({\n key: `${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,
${type} found`));\n }\n break;\n case 'within':\n type = getType(value[1]);\n if (value.length !==
2) {\n errors.push(new ValidationError(key, value, `filter array for "${value[0]}" operator must have 2
elements`));\n } else if (type !== 'object') {\n errors.push(new ValidationError(`${key}[1]`, value[1],
`object expected, ${type} found`));\n }\n break;\n }\n return errors;\n }\n }, "\nimport validate from
'./validate';\nimport ValidationError from './error/validation_error';\nimport getType from './util/get_type';\nimport
{isFunction} from './function';\nimport {unbundle, deepUnbundle} from './util/unbundle_jsonlint';\nimport
{supportsPropertyExpression} from './util/properties';\n\nexport default function validateProperty(options,
propertyType) {\n const key = options.key;\n const style = options.style;\n const styleSpec =
options.styleSpec;\n const value = options.value;\n const propertyKey = options.objectKey;\n const layerSpec
= styleSpec[`${propertyType}_${options.layerType}`];\n\n if (!layerSpec) return [];\n const transitionMatch =
propertyKey.match(/^(.*)-transition$/);\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)) && 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", "\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\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 }\n\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 <

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options.arrayIndex; i++) {\n const otherLayer = style.layers[i];\n if (unbundle(otherLayer.id) ===\n layerId) {\n errors.push(new ValidationError(key, layer.id, `duplicate layer id \"${layer.id}\", previously\n used at line ${otherLayer.id.__line__}`));\n }\n }\n if ('ref' in layer) {\n ['type', 'source',\n 'source-layer', 'filter', 'layout'].forEach((p) => {\n if (p in layer) {\n errors.push(new\n ValidationError(key, layer[p], `\"${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\n (!parent) {\n errors.push(new ValidationError(key, layer.ref, `ref layer \"${ref}\" not found`));\n } else if\n (parent.ref) {\n errors.push(new ValidationError(key, layer.ref, 'ref cannot reference another ref layer'));\n }\n else {\n type = unbundle(parent.type);\n }\n else if (type !== 'background') {\n if\n (!layer.source) {\n errors.push(new ValidationError(key, layer, 'missing required property \"source\"'));\n }\n else {\n const source = style.sources && style.sources[layer.source];\n const sourceType = source\n && unbundle(source.type);\n if (!source) {\n errors.push(new ValidationError(key, layer.source,\n `source \"${layer.source}\" not found`));\n }\n else if (sourceType === 'vector' && type === 'raster') {\n errors.push(new ValidationError(key, layer.source, `layer \"${layer.id}\" requires a raster source`));\n }\n else if (sourceType === 'raster' && type !== 'raster') {\n errors.push(new ValidationError(key, layer.source,\n `layer \"${layer.id}\" requires a vector source`));\n }\n else if (sourceType === 'vector' && !layer['source-\n layer']) {\n errors.push(new ValidationError(key, layer, `layer \"${layer.id}\" must specify a \"source-\n layer\"`));\n }\n else if (sourceType === 'raster-dem' && type !== 'hillshade') {\n errors.push(new\n ValidationError(key, layer.source, 'raster-dem source can only be used with layer type \\hillshade\\');\n }\n else if (type === 'line' && layer.paint && layer.paint['line-gradient'] &&\n (sourceType !== 'geojson'\n || !source.lineMetrics)) {\n errors.push(new ValidationError(key, layer, `layer \"${layer.id}\" specifies a\n 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:\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-\n 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:\n options.styleSpec,\n objectElementValidators: {\n '*'(options) {\n return\n validateLayoutProperty(extend({layerType: type}, options));\n }\n });\n },\n paint(options) {\n return validateObject({\n layer,\n key:\n options.key,\n value: options.value,\n style: options.style,\n styleSpec:\n options.styleSpec,\n objectElementValidators: {\n '*'(options) {\n return\n validatePaintProperty(extend({layerType: type}, options));\n }\n });\n }\n }\n });\n }\n return errors;\n }\n }\n \"nimport getType from '../util/get_type';\n \"nimport ValidationError from\n '../error/validation_error';\n \"nexport default function validateString(options) {\n const value = options.value;\n const key = options.key;\n const type = getType(value);\n if (type !== 'string') {\n return [new\n ValidationError(key, value, `string expected, ${type} found`)];\n }\n return [];\n }\n \"nimport ValidationError\n from '../error/validation_error';\n \"nimport {unbundle} from '../util/unbundle_jsonlint';\n \"nimport validateObject from\n './validate_object';\n \"nimport validateEnum from './validate_enum';\n \"nimport validateExpression from\n './validate_expression';\n \"nimport validateString from './validate_string';\n \"nimport getType from\n '../util/get_type';\n \"nconst objectElementValidators = {\n promoteId: validatePromoteId\n };\n \"nexport default\n function validateSource(options) {\n const value = options.value;\n const key = options.key;\n const styleSpec\n = options.styleSpec;\n const style = options.style;\n if (!value.type) {\n return [new ValidationError(key,\n value, `\"type\" is required`)];\n }\n const type = unbundle(value.type);\n let errors;\n switch (type) {\n

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case 'vector':\n case 'raster':\n case 'raster-dem':\n errors = validateObject({\n key,\n value,\n valueSpec: styleSpec['source_${type.replace('-', '_')}'],\n style: options.style,\n styleSpec,\n objectElementValidators\n });\n return errors;\n\n case 'geojson':\n errors = validateObject({\n key,\n value,\n valueSpec: styleSpec.source_geojson,\n style,\n styleSpec,\n objectElementValidators\n });\n if (value.cluster) {\n for (const prop in value.clusterProperties) {\n const [operator, mapExpr] = value.clusterProperties[prop];\n const reduceExpr = typeof operator\n === 'string' ? [operator, ['accumulated'], ['get', prop]] : operator;\n errors.push(...validateExpression({\n key: `${key}.${prop}.map`,\n value: mapExpr,\n expressionContext: 'cluster-map'\n }));\n errors.push(...validateExpression({\n key: `${key}.${prop}.reduce`,\n value: reduceExpr,\n expressionContext: 'cluster-reduce'\n }));\n }\n }\n return errors;\n\n case 'video':\n return validateObject({\n key,\n value,\n valueSpec: styleSpec.source_video,\n style,\n styleSpec\n });\n\n case 'image':\n return validateObject({\n key,\n value,\n valueSpec: styleSpec.source_image,\n style,\n styleSpec\n });\n\n case 'canvas':\n return [new ValidationError(key, null, `Please use runtime APIs to add canvas sources, rather than including them in stylesheets.`, 'source.canvas')];\n\n default:\n return validateEnum({\n key: `${key}.type`,\n value: value.type,\n valueSpec: { values: ['vector', 'raster', 'raster-dem', 'geojson', 'video', 'image']},\n style,\n styleSpec\n });\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\n\"import 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 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\nreturn 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\n\"import 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

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'boolean': validateBoolean,\n 'number': validateNumber,\n 'color': validateColor,\n 'constants':\n validateConstants,\n 'enum': validateEnum,\n 'filter': validateFilter,\n 'function': validateFunction,\n 'layer':\n validateLayer,\n 'object': validateObject,\n 'source': validateSource,\n 'light': validateLight,\n 'string':\n validateString,\n 'formatted': validateFormatted,\n 'resolvedImage': validateImage\n};\n\n// Main recursive\nvalidation function. Tracks:\n\n// - key: string representing location of validation in style tree. Used only\n// for\nmore informative error reporting.\n\n// - value: current value from style being evaluated. May be anything from a\n//\nhigh level object that needs to be descended into deeper or a simple\n//\nscalar value.\n\n// - valueSpec: current spec\nbeing evaluated. Tracks value.\n\n// - styleSpec: current full spec being evaluated.\n\n\nexport default function\nvalidate(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\n else if (valueSpec.expression && isExpression(deepUnbundle(value))) {\n return\n validateExpression(options);\n }\n\n else if (valueSpec.type && VALIDATORS[valueSpec.type]) {\n return\n VALIDATORS[valueSpec.type](options);\n }\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 key = =\n options.key;\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 from './validate/validate_layout_property';\n\n/**\n * Validate a Mapbox GL style against\n the style specification. This endpoint,\n * `mapbox-gl-style-spec/lib/validate_style.min`, is designed to produce\n as\n * small a browserify bundle as possible by omitting unnecessary functionality\n * and legacy style\n specifications.\n *\n * @private\n *\n * @param {Object} style The style to be validated.\n *\n * @param {Object}\n [styleSpec] The style specification to validate against.\n *\n * If omitted, the latest style spec is used.\n *\n * @returns\n {Array<ValidationError>}\n *\n * @example\n *\n var validate = require('mapbox-gl-style-\n spec/lib/validate_style.min');\n *\n var errors = validate(style);\n\nfunction validateStyleMin(style, styleSpec =\n 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:\n 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 =\n wrapCleanErrors(validateSource);\n\nvalidateStyleMin.light =\n wrapCleanErrors(validateLight);\n\nvalidateStyleMin.layer =\n wrapCleanErrors(validateLayer);\n\nvalidateStyleMin.filter =\n wrapCleanErrors(validateFilter);\n\nvalidateStyleMin.paintProperty =\n wrapCleanErrors(validatePaintProperty);\n\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\nexport default validateStyleMin;\n\n", "/* parser generated by\njison 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
```







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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 = [0], tstack = [], vstack = [null], lstack = [], table = this.table, yytext = "", yylineno = 0, yyleng = 0, recovering
= 0, TERROR = 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
> TERROR) {\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';\n } else {\n
errStr = 'Parse error on line ' + (yylineno + 1) + ': Unexpected ' + (symbol == EOF ? 'end of input' : '\" +
(this.terminals_[symbol] || symbol) + '\\n');\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]];\n
stack.push(newState);\n break;\n case 3:\n return true;\n }\n }\n return true;\n };\n\n/*

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generated by jison-lex 0.3.4 */
var lexer = (function() {
 var lexer = ({
 EOF: 1,
 parseError: function
 parseError(str, hash) {
 if (this.yy.parser) {
 this.yy.parser.parseError(str, hash);
 } else {
 throw new Error(str);
 }
 },
 // resets the lexer, sets new input
 setInput: function (input, yy) {
 this.yy = yy || this.yy || {};
 this._input = input;
 this._more = this._backtrack = this.done = false;
 this.yylينو = this.yyleng = 0;
 this.yytext = this.matched = this.match = "";
 this.conditionStack = ['INITIAL'];
 this.yylloc = {
 first_line: 1,
 first_column: 0,
 last_line: 1,
 last_column: 0
 };
 if (this.options.ranges) {
 this.yylloc.range = [0, 0];
 }
 this.offset = 0;
 return this;
 },
 // consumes and returns one char from the input
 input: function () {
 var ch = this._input[0];
 this.yytext += ch;
 this.yyleng++;
 this.offset++;
 this.match += ch;
 this.matched += ch;
 var lines = ch.match(/(?:\r\n?|\n).*/g);
 if (lines) {
 this.yylينو++;
 this.yylloc.last_line++;
 } else {
 this.yylloc.last_column++;
 }
 if (this.options.ranges) {
 this.yylloc.range[1]++;
 }
 this._input = this._input.slice(1);
 return ch;
 },
 // unshifts one char (or a string) into the input
 unput: function (ch) {
 var len = ch.length;
 var lines = ch.split(/(?:\r\n?|\n)/g);
 this._input = ch + this._input;
 this.yytext = this.yytext.substr(0, this.yytext.length - len);
 //this.yyleng -= len;
 this.offset -= len;
 var oldLines = this.match.split(/(?:\r\n?|\n)/g);
 this.match = this.match.substr(0, this.match.length - 1);
 this.matched = this.matched.substr(0, this.matched.length - 1);
 if (lines.length - 1) {
 this.yylينو -= lines.length - 1;
 }
 var r = this.yylloc.range;
 this.yylloc = {
 first_line: this.yylloc.first_line,
 last_line: this.yylينو + 1,
 first_column: this.yylloc.first_column,
 last_column: lines ? lines.length : (lines.length === oldLines.length ? this.yylloc.first_column : 0) + oldLines[oldLines.length - lines.length].length - lines[0].length
 };
 if (this.options.ranges) {
 this.yylloc.range = [r[0], r[0] + this.yyleng - len];
 }
 this.yyleng = this.yytext.length;
 return this;
 },
 // When called from action, caches matched text and appends it on next action
 more: function () {
 this._more = true;
 return this;
 },
 // 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.
 reject: function () {
 if (this.options.backtrack_lexer) {
 this._backtrack = true;
 } else {
 return this.parseError('Lexical error on line ' + (this.yylينو + 1) + '. You can only invoke reject() in the lexer when the lexer is of the backtracking persuasion (options.backtrack_lexer = true).', {
 line: this.yylينو,
 text: "",
 token: null
 });
 }
 return this;
 },
 // retain first n characters of the match
 less: function (n) {
 this.unput(this.match.slice(n));
 },
 // displays already matched input, i.e. for error messages
 pastInput: function () {
 var past = this.matched.substr(0, this.matched.length - this.match.length);
 return (past.length > 20 ? '...' : '') + past.substr(-20).replace(/\n/g, '');
 },
 // displays upcoming input, i.e. for error messages
 upcomingInput: function () {
 var next = this.match;
 if (next.length < 20) {
 next += this._input.substr(0, 20 - next.length);
 }
 return (next.substr(0, 20) + (next.length > 20 ? '...' : '')).replace(/\n/g, '');
 },
 // displays the character position where the lexing error occurred, i.e. for error messages
 showPosition: function () {
 var pre = this.pastInput();
 var c = new Array(pre.length + 1).join("-");
 return pre + this.upcomingInput() + "\n" + c + "^";
 },
 // test the lexed token: return FALSE when not a match, otherwise return token
 test_match: function (match, indexed_rule) {
 var token, lines, backup;
 if (this.options.backtrack_lexer) {
 // save context
 backup = {
 yylينو: this.yylينو,
 yylloc: {
 first_line: this.yylloc.first_line,
 last_line: this.yylloc.last_line,
 first_column: this.yylloc.first_column,
 last_column: this.yylloc.last_column
 },
 yytext: this.yytext,
 match: this.match,
 matches: this.matches,
 matched: this.matched,
 yyleng: this.yyleng,
 offset: this.offset,
 _more: this._more,
 _input: this._input,
 yy: this.yy,
 conditionStack: this.conditionStack.slice(0),
 done: this.done
 };
 if (this.options.ranges) {
 backup.yylloc.range = this.yylloc.range.slice(0);
 }
 lines = match[0].match(/(?:\r\n?|\n).*/g);
 if (lines) {
 this.yylينو += lines.length;
 }
 this.yylloc = {
 first_line: this.yylloc.last_line,
 last_line: this.yylينو +

```



```

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 // 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 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 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 this.conditions["INITIAL"].rules;\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\n topState: 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 // alias for begin(condition)\n pushState: function pushState(condition) {\n this.begin(condition);\n },\n // return the number of states currently on the stack\n stateStackSize: function stateStackSize() {\n return this.conditionStack.length;\n },\n noptions: {},\n performAction: function anonymous(yy,yy_, $avoiding_name_collisions, YY_START) {\n nvar\n YYSTATE=YY_START;\n switch($avoiding_name_collisions) {\n ncase 0:/* skip whitespace */\n nbreak;\n ncase 1:return 6\n nbreak;\n ncase 2:yy_.yytext = yy_.yytext.substr(1,yy_.yyleng-2); return 4\n nbreak;\n ncase 3:return 17\n nbreak;\n ncase 4:return 18\n nbreak;\n ncase 5:return 23\n nbreak;\n ncase 6:return 24\n nbreak;\n ncase 7:return 22\n nbreak;\n ncase 8:return 21\n nbreak;\n ncase 9:return 10\n nbreak;\n ncase 10:return 11\n nbreak;\n ncase 11:return 8\n nbreak;\n ncase 12:return 14\n nbreak;\n ncase 13:return 'INVALID'\n nbreak;\n }\n },\n nrules: [/^(?:\\s+)/, /^(?:-?([0-9])|1-

```







```

* stylesheet on PATCH, but ignores the value on POST: \visibility\
 * \n const optionalRootProperties = [\n
 'owner',\n 'id',\n 'cacheControl',\n 'draft',\n 'created',\n 'modified',\n 'visibility'\n];\n\n
const allowedKeyErrors = getAllowdKeyErrors(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 ${SUPPORTED_SPEC_VERSION}`));\n }\n\n /*\n * \glyphs\ is optional. If present, valid
examples:\n * mapbox://fonts/penny/{fontstack}/{range}.pbf\n *
mapbox://fonts/mapbox/{fontstack}/{range}.pbf\n * \n const glyphUrlPattern =
/^mapbox:\/\w\/fonts\/\w([\^\/]*)\/\w{fontstack}\/\w{range}.pbf$/;\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:\/\w\/sprites\/\w([\^\/]*)\/\w{fontstack}\/\w{range}.pbf$/;\n if (!isValid(style.sprite, spriteUrlPattern))
{\n errors.push(new ValidationError('sprite', style.sprite, 'Styles must reference sprites hosted by Mapbox'));\n
 }\n\n /*\n * \visibility\ is optional. If present, valid examples:\n * \private\
\n * \public\
\n * \n const visibilityPattern = /^(public|private)$/;\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 * \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\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 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';\n\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\nnvalidate.parsed = validate;\n\nnvalidate.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", "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", 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"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", "int

```



erpolateHue","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","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","







CzB,IAAI,CAAC,CAAC,CAAC;AACp,IAAI,SAAS;AACb,IAAI,OAAO,CAAC,MAAM,KAAK,SAAS,GAAG,C  
AAC,GAAG,OAAO,CAAC,MAAM;AACrD,GAAG,CAAC,KAAK,CAAC,CAAC,EAAE,CAAC,CAAC,CAAC,C  
AAC;AACjB,EAAE,SAAS;AACX,IAAI,MAAM,KAAK,EAAE;AACjB,QAAQ,QAAQ;AACbB,QAAQ,OAAO,C  
AAC,SAAS,KAAK,SAAS;AACvC,QAAQ,EAAE;AACV,QAAQ,OAAO,CAAC,SAAS,CAAC;AAC1B,EAAE,Q  
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AK,CAAC;AACpG;AACA,IAAI,IAAI,GAAG,IAAI,OAAO,GAAG,CAAC,MAAM,KAAK,UAAU,EAAE;AACjD  
,MAAM,GAAG,GAAG,GAAG,CAAC,MAAM,EAAE,CAAC;AACzB,KAAK;AACL;AACA,IAAI,MAAM,GAA  
G,IAAI,CAAC,SAAS,CAAC,GAAG,EAAE,QAAQ,CAAC,CAAC;AAC3C;AACA,IAAI,IAAI,MAAM,KAAK,SA  
AS,EAAE;AAC9B,MAAM,OAAO,MAAM,CAAC;AACpB,KAAK;AACL;AACA,IAAI,MAAM,GAAG,SAAS,G  
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AM,EAAE;AACjC,MAAM,UAAU,GAAG,MAAM,CAAC,OAAO,CAAC,YAAY,EAAE,SAAS,KAAK,EAAE,aA  
Aa,EAAE;AAC/E,QAAQ,OAAO,aAAa,IAAI,KAAK,GAAG,GAAG,CAAC;AAC5C,OAAO,CAAC,CAAC;AACT  
,MAAM,IAAI,UAAU,CAAC,MAAM,IAAI,MAAM,EAAE;AACvC,QAAQ,OAAO,UAAU,CAAC;AAC1B,OAA  
O;AACp,KAAK;AACL;AACA,IAAI,IAAI,QAAQ,IAAI,IAAI,EAAE;AAC1B,MAAM,GAAG,GAAG,IAAI,CAA  
C,KAAK,CAAC,MAAM,CAAC,CAAC;AAC/B,MAAM,QAAQ,GAAG,SAAS,CAAC;AAC3B,KAAK;AACL;AA  
CA,IAAI,IAAI,OAAO,GAAG,KAAK,QAAQ,IAAI,GAAG,KAAK,IAAI,EAAE;AACjD,MAAM,UAAU,GAAG,a  
AAa,GAAG,MAAM,CAAC;AAC1C,MAAM,KAAK,GAAG,EAAE,CAAC;AACjB,MAAM,KAAK,GAAG,CAA  
C,CAAC;AACbB;AACA,MAAM,IAAI,KAAK,CAAC,OAAO,CAAC,GAAG,CAAC,EAAE;AAC9B,QAAQ,KAA  
K,GAAG,GAAG,CAAC;AACpB,QAAQ,GAAG,GAAG,GAAG,CAAC;AAC1B,QAAQ,MAAM,GAAG,GAAG,C  
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## Open Source Used In DNAC NXP Platform UI Ghost 731



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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 [@pozdneyakov](https://github.com/pozdneyakov))



### ### 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 entriypoint 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-spriteify``. 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/scree/scree).
- \* [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

Found in path(s):

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

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"attribution"?: string,  
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"attribution"?: string,



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

# 1.392 wgs84 0.0.0 0.0.0

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# 1.393 my-app 0.1.0 0.1.0

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{
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 "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": {}
}
```

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\* /opt/ws\_local/PERMITS\_SQL/1034316680\_1588680866.62/0/my-app-0-1-0-tgz/package/package.json

# 1.394 socket.io-client 2.4.0 2.4.0

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## 1.396 co 4.6.0 4.6.0



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## 1.397 encoding 0.1.12 0.1.12

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# 1.399 xtend 4.0.2 4.0.2

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## 1.401 backbone 1.3.3 1.3.3

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## 1.409 bson 1.1.6 1.1.6

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## 1.413 potpack 1.0.2 1.0.2

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# 1.415 amcharts3-dataloader 1.0.19 1.0.19

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## 1.419 dtrace-provider 0.8.8 0.8.8

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## 1.420 cacheable-request 2.1.4 2.1.4

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## 1.422 @types/qs 6.9.7 6.9.7

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## 1.423 parse-srcset 1.0.2 1.0.2

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## 1.424 symbol-observable 1.0.4 1.0.4

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## 1.425 mongodb-core 2.1.18 2.1.18

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# 1.426 react-select 1.3.0 1.3.0

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## 1.428 forever-agent 0.6.1 0.6.1

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## 1.432 d3-interpolate 2.0.1 2.0.1

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## 1.433 buffer-from 1.1.2 1.1.2

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# 1.435 amcharts3-responsive 1.0.3 1.0.3

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## 1.443 @mapbox/jsonlint-lines-primitives 2.0.2

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### 2.4.0 2.4.0

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## 1.470 readable-stream 2.2.7 2.2.7

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## 1.471 fbjs 0.8.18 0.8.18

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## 1.472 fs.realpath 1.0.0 1.0.0

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## 1.473 request-promise-native 1.0.9 1.0.9

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Found in path(s):

\* /opt/cola/permits/1110905341\_1606871385.15/0/kjd-idna-v2-10-0-ge5c11db-1-tar-gz/kjd-idna-b8defb9/LICENSE.rst

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"""

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

"""

```
import io, sys
```

```
from setuptools import setup
```

```
def main():
```

```
 python_version = sys.version_info[:2]
```

```
 if python_version < (2,7):
```

```
 raise SystemExit("Sorry, Python 2.7 or newer required")
```

```
 package_data = { }
```

```
 exec(open('idna/package_data.py').read(), package_data)
```

```
 arguments = {
```

```
 'name': 'idna',
```

```
 'packages': ['idna'],
```

```
 'version': package_data['__version__'],
```

```
 'description': 'Internationalized Domain Names in Applications (IDNA)',
```

```
 'long_description': io.open("README.rst", encoding="UTF-8").read(),
```

```
 'author': 'Kim Davies',
```

```
 'author_email': 'kim@cynosure.com.au',
```

```
 'license': 'BSD-like',
```

```
 'url': 'https://github.com/kjd/idna',
```

```
 'classifiers': [
```

```
 'Development Status :: 5 - Production/Stable',
```

```
 'Intended Audience :: Developers',
```

```
 'Intended Audience :: System Administrators',
```

```
 'License :: OSI Approved :: BSD License',
```

```
 'Operating System :: OS Independent',
```

```
 'Programming Language :: Python',
```

```
 'Programming Language :: Python :: 2',
```

```
 'Programming Language :: Python :: 2.7',
```

```
 'Programming Language :: Python :: 3',
```

```
 'Programming Language :: Python :: 3.4',
```



```

'Programming Language :: Python :: 3.5',
'Programming Language :: Python :: 3.6',
'Programming Language :: Python :: 3.7',
'Programming Language :: Python :: 3.8',
'Programming Language :: Python :: Implementation :: CPython',
'Programming Language :: Python :: Implementation :: PyPy',
'Topic :: Internet :: Name Service (DNS)',
'Topic :: Software Development :: Libraries :: Python Modules',
'Topic :: Utilities',
],
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
}

setup(**arguments)

if __name__ == '__main__':
 main()

Found in path(s):
* /opt/cola/permits/1110905341_1606871385.15/0/kjd-idna-v2-10-0-ge5c11db-1-tar-gz/kjd-idna-b8defb9/setup.py

```

## 1.477 string\_decoder 1.0.3 1.0.3

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# 1.479 warning 4.0.3 4.0.3

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## 1.484 earcut 2.2.2 2.2.2

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## 1.489 intl-format-cache 2.2.9 2.2.9

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## 1.498 @types/express 4.17.13 4.17.13

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## 1.554 domready 2.0.1 2.0.1

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## 1.574 whatwg-fetch 2.0.3 2.0.3

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# 1.575 gl-matrix 2.8.1 2.8.1

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## 1.580 whatwg-fetch 3.6.2 3.6.2

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\* /opt/ws\_local/PERMITS\_SQL/1027848257\_1594212860.2/0/delegate-3-2-0-tgz/package/readme.md

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## 1.657 csscolorparser 1.0.3 1.0.3

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## 1.658 har-schema 2.0.0 2.0.0

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# 1.659 @stencil/core 2.12.1 2.12.1

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Date: 2021-08-23

## Status

historical

## Context

Stencil is a distributable that contains third party packages that helps it compile projects. Examples include the TypeScript compiler, rollup, etc. Those projects need to be properly attributed per their respective licenses.

## Options

N/A - the decision described this ADR predates the current Stencil team.

## Decision

Third party scripts that are included in the Stencil output shall be placed in the `entryDeps` field in a [license generation script](../scripts/license.ts). This script shall be responsible for generating `NOTICE.md` when a release of Stencil is generated, and any changes must be checked into source code.

The license generation script shall recursively search the dependencies of the listed dependencies to ensure that all bundled source code is properly attributed.

## Consequences

When a third party package is bundled with Stencil, the onus is on the developers/reviewers to ensure that the package

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## `@rollup/plugin-commonjs`

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Author: Rich Harris <richard.a.harris@gmail.com>

Homepage: <https://github.com/rollup/plugins/tree/master/packages/commonjs/#readme>

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## `@rollup/plugin-json`

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Author: rollup

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## `@rollup/plugin-node-resolve`

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Author: Rich Harris <[richard.a.harris@gmail.com](mailto:richard.a.harris@gmail.com)>

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## `@rollup/pluginutils`

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Author: Rich Harris <richard.a.harris@gmail.com>

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Contributors: Brian Woodward (<https://twitter.com/doowb>), Jason Schilling (<https://sourcecode.de>), Jon Schlinkert (<http://twitter.com/jonschlinkert>), Jordan (<https://github.com/SilicOnSoldier>)

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## `balanced-match`

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Homepage: <https://github.com/juliangruber/balanced-match>

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Homepage: <https://github.com/cowboy/node-exit>

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Homepage: <http://www.xarg.org/2014/03/rational-numbers-in-javascript/>

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## `fs.realpath`



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Contributors: Raynos, [Jordan Harband](https://github.com/ljharb)

Homepage: <https://github.com/Raynos/function-bind>

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Homepage: <https://github.com/inspect-js/is-core-module>

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Homepage: https://github.com/jonschlinkert/is-extglob

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Homepage: <https://github.com/jbgutierrez/path-parse#readme>

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## 1.668 datatables.net-buttons 1.2.4 1.2.4

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## 1.669 mime-types 2.1.27 2.1.27

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## 1.670 history 4.10.1 4.10.1

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# 1.671 d3-delaunay 5.3.0 5.3.0

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## 1.675 toastr 2.1.2 2.1.2

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## 1.676 utils-merge 1.0.1 1.0.1

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## 1.677 amcharts3-dataloader 1.0.16 1.0.16

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## 1.680 hoist-non-react-statics 3.3.2 3.3.2

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# 1.681 engine.io-parser 2.2.1 2.2.1

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## 1.687 unified 9.2.2 9.2.2

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## 1.692 @nivo/voronoi 0.72.0 0.72.0



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## 1.693 btoa 1.2.1 1.2.1

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\* /opt/cola/permits/1080772606\_1601640895.92/0/mongoose-4-13-21-tgz/package/README.md

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## 1.734 @mapbox/geojson-area 0.2.2 0.2.2

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