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Contents

1.1 backgrid-filter 0.3.7
1.1.1 Available under license
1.2 ifupdown 0.8.16
1.2.1 Available under license
1.3 runc 1.0.0-rc10
1.3.1 Available under license
1.4 ajv 6.10.0
1.4.1 Available under license
1.5 chalk 2.4.2
1.5.1 Available under license
1.6 ansi-regex 2.1.1
1.6.1 Available under license
1.7 pbkdf2 3.0.16
1.7.1 Available under license
1.8 babel-plugin-transform-es2015-template-literals 6.22.0
1.9 babel-plugin-transform-strict-mode 6.24.1
1.10 inflight 1.0.6
1.10.1 Available under license
1.11 pyyaml 5.3
1.11.1 Available under license
1.12 open-vm-tools 10.3.5-10430147
1.12.1 Available under license
1.13 isodate 0.6.0
1.13.1 Available under license
1.14 odfpy 1.3.6
1.14.1 Available under license

1.15 moment-duration-format 2.2.2
1.15.1 Available under license
1.16 autobahn 18.9.1
1.16.1 Available under license
1.17 backgrid-paginator 0.3.9
1.17.1 Available under license
1.18 esutils 2.0.2
1.18.1 Available under license
1.19 minimist 1.2.0
1.19.1 Available under license
1.20 create-hash 1.2.0
1.20.1 Available under license
1.21 traitlets 4.3.2
1.21.1 Available under license
1.22 arr-diff 2.0.0
1.22.1 Available under license
1.23 normalize-path 2.1.1
1.23.1 Available under license
1.24 python-cached-property 1.4.3
1.24.1 Available under license
1.25 cffi 1.13.1
1.25.1 Available under license
1.26 strip-ansi 3.0.1
1.26.1 Available under license
1.27 gsap 1.20.3
1.28 fs.realpath 1.0.0
1.28.1 Available under license
1.29 incremental 17.5.0-2.ph4
1.29.1 Available under license
1.30 ntlm-auth 1.2.0
1.30.1 Available under license
1.31 lua 5.1.5
1.31.1 Available under license
1.32 json5 0.5.1
1.32.1 Available under license
1.33 hash-base 3.0.4
1.33.1 Available under license
1.34 open-ldap 2.4.48
1.35 babel-helper-define-map 6.26.0

1.36 readable-stream 2.3.6
1.36.1 Available under license
1.37 linux-headers 4.9.107
1.37.1 Available under license
1.38 invariant 2.2.4
1.38.1 Available under license
1.39 babel-helpers 6.24.1
1.40 ldap-filter 0.2.1
1.40.1 Available under license
1.41 babel-plugin-transform-es2015-sticky-regex 6.24.1
1.42 jquery 3.5.1
1.42.1 Available under license
1.43 linux-kernel 5.4.23
1.43.1 Available under license
1.44 libxml 2.9.10
1.44.1 Available under license
1.45 requests-ntlm 1.1.0
1.45.1 Available under license
1.46 pem 21.1.0
1.46.1 Available under license
1.47 randomatic 1.1.7
1.47.1 Available under license
1.48 vine 1.3.0
1.48.1 Available under license
1.49 babel-plugin-transform-es2015-spread 6.22.0
1.50 txaio 18.8.1
1.50.1 Available under license
1.51 amqp 2.5.2
1.51.1 Available under license
1.52 brace 1.8.5
1.52.1 Available under license
1.53 debug 2.6.9
1.53.1 Available under license
1.54 expat 2.2.9
1.54.1 Available under license
1.55 netns 2c9454e4fc6e2edc1a1c84e64ed3d6e662fb6991
1.55.1 Available under license
1.56 libdnet 1.11
1.56.1 Available under license

1.57 ansi-styles 2.2.1
1.57.1 Available under license
1.58 django-redis 4.11.0
1.58.1 Available under license
1.59 coverage 4.3.4
1.59.1 Available under license
1.60 babel-plugin-transform-es2015-unicode-regex 6.24.1
1.61 cipher-base 1.0.4
1.61.1 Available under license
1.62 pyasn1 0.4.4-1.ph3
1.62.1 Available under license
1.63 lodash 4.17.4
1.63.1 Available under license
1.64 kind-of 4.0.0
1.64.1 Available under license
1.65 pendulum 2.0.4
1.65.1 Available under license
1.66 idna 2.8
1.66.1 Available under license
1.67 dhcp 4.4.1
1.67.1 Available under license
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1.69 text-table 1.6.2
1.69.1 Available under license
1.70 moment 2.19.1
1.70.1 Available under license
1.71 babel-preset-es2015 6.24.1
1.72 evp_bytestokey 1.0.3
1.72.1 Available under license
1.73 ajv-keywords 3.4.0
1.73.1 Available under license
1.74 create-hmac 1.1.7
1.74.1 Available under license
1.75 gojsonpointer e0fe6f68307607d540ed8eac07a342c33fa1b54a
1.75.1 Available under license
1.76 array-unique 0.2.1
1.76.1 Available under license
1.77 libxslt 1.1.34
1.77.1 Available under license

1.78 mkdirp 0.5.1
1.78.1 Available under license
1.79 json-schema-traverse 0.4.1
1.79.1 Available under license
1.80 babel-code-frame 6.26.0
1.81 zeep 2.5.0
1.81.1 Available under license
1.82 chalk 1.1.3
1.82.1 Available under license
1.83 safe-buffer 5.1.1
1.83.1 Available under license
1.84 dcron 4.5
1.85 ansi-styles 3.2.1
1.85.1 Available under license
1.86 is-primitive 2.0.0
1.86.1 Available under license
1.87 openssl 1.1.1j
1.87.1 Available under license
1.88 babel-cli 6.26.0
1.89 babel-types 6.26.0
1.90 ndisc 1.0.4
1.90.1 Available under license
1.91 babel-plugin-check-es2015-constants 6.22.0
1.92 filename-regex 2.0.1
1.92.1 Available under license
1.93 pyparsing 2.4.2
1.93.1 Available under license
1.94 select2 4.0.8
1.94.1 Available under license
1.95 cssesc 0.1.0
1.95.1 Available under license
1.96 paramiko 2.6.0
1.97 plotly-js-basic-dist 1.44.1
1.97.1 Available under license
1.98 parso 0.5.2
1.98.1 Available under license
1.99 libevent 2.1.11
1.99.1 Available under license
1.100 ipython 7.10.2

1.100.1 Available under license
1.101 automat 0.7.0
1.101.1 Available under license
1.102 cryptography 2.8
1.102.1 Available under license
1.103 micromatch 2.3.11
1.103.1 Available under license
1.104 babel-generator 6.26.1
1.105 gojsonschema f06f290571ce81ab347174c6f7ad2e1865af41a7
1.105.1 Available under license
1.106 glob-base 0.3.0
1.106.1 Available under license
1.107 libvmtools 10.3.5.7752
1.107.1 Available under license
1.108 start-stop-daemon 1.18.10
1.108.1 Available under license
1.109 babel-plugin-transform-es2015-classes 6.24.1
1.110 asn1.js 4.10.1
1.110.1 Available under license
1.111 tzdata 2019c
1.111.1 Available under license
1.112 twisted 18.7.0
1.112.1 Available under license
1.113 for-own 0.1.5
1.113.1 Available under license
1.114 python-pip 19.2.3
1.114.1 Available under license
1.115 hyperlink 18.0.0-3.ph3
1.115.1 Available under license
1.116 number-is-nan 1.0.1
1.116.1 Available under license
1.117 parse-glob 3.0.4
1.117.1 Available under license
1.118 css-selector-tokenizer 0.7.0
1.118.1 Available under license
1.119 babel-plugin-transform-es2015-arrow-functions 6.22.0
1.120 babel-helper-function-name 6.24.1
1.121 create-ecdh 4.0.3
1.121.1 Available under license

1.122 minimalistic-assert 1.0.1
1.122.1 Available under license
1.123 minimist 0.0.8
1.123.1 Available under license
1.124 color-name 1.1.3
1.124.1 Available under license
1.125 is-finite 1.0.2
1.125.1 Available under license
1.126 libatomic 7.6.10
1.126.1 Available under license
1.127 trim-right 1.0.1
1.127.1 Available under license
1.128 js-tokens 3.0.2
1.128.1 Available under license
1.129 requests-toolbelt 0.8.0
1.129.1 Available under license
1.130 babel-plugin-transform-es2015-shorthand-properties 6.24.1
1.131 detect-indent 4.0.0
1.131.1 Available under license
1.132 util-deprecate 1.0.2
1.132.1 Available under license
1.133 libatomic-ops 7.6.10
1.133.1 Available under license
1.134 fast-json-stable-stringify 2.0.0
1.134.1 Available under license
1.135 string_decoder 1.1.1
1.135.1 Available under license
1.136 busybox 1.31.1
1.136.1 Available under license
1.137 regenerator-runtime 0.11.1
1.138 flatpickr 4.5.2
1.138.1 Available under license
1.139 libsodium 1.0.18
1.139.1 Available under license
1.140 docopt 0.6.2-3.ph4
1.140.1 Available under license
1.141 paramiko 2.7.2-1.ph4
1.141.1 Available under license
1.142 bzip2 1.0.8

1.143 micromatch 2.3.11
1.143.1 Available under license
1.144 ncurses 6.1
1.144.1 Available under license
1.145 djangorestframework 3.8.2
1.145.1 Available under license
1.146 is-number 3.0.0
1.146.1 Available under license
1.147 file-saver 1.3.3
1.147.1 Available under license
1.148 os-homedir 1.0.2
1.148.1 Available under license
1.149 browserify-aes 1.2.0
1.149.1 Available under license
1.150 responses 0.10.5
1.150.1 Available under license
1.151 js-cookie 2.1.4
1.151.1 Available under license
1.152 source-map 0.6.1
1.152.1 Available under license
1.153 browserify-des 1.0.2
1.153.1 Available under license
1.154 babel-messages 6.23.0
1.155 wrappy 1.0.2
1.155.1 Available under license
1.156 libyaml 0.2.2
1.156.1 Available under license
1.157 v8flags 2.1.1
1.157.1 Available under license
1.158 fill-range 2.2.3
1.158.1 Available under license
1.159 gojsonreference e02fc20de94c78484cd5ffb007f8af96be030a45
1.159.1 Available under license
1.160 babel-template 6.26.0
1.161 net-tools 2.10
1.161.1 Available under license
1.162 diff-match-patch 20121119
1.162.1 Available under license
1.163 brorand 1.1.0

1.163.1 Available under license
1.164 text-encoding-shim 1.0.4
1.164.1 Available under license
1.165 squashfs-tools 4.4
1.165.1 Available under license
1.166 blessed 1.17.5
1.166.1 Available under license
1.167 babel-plugin-transform-es2015-block-scoped-functions 6.22.0
1.168 object.assign 4.1.1
1.168.1 Available under license
1.169 django-bulk-update 1.1.10
1.169.1 Available under license
1.170 fs-readdir-recursive 1.1.0
1.170.1 Available under license
1.171 babel-helper-get-function-arity 6.24.1
1.172 urllib3 1.25.6
1.172.1 Available under license
1.173 babel-helper-regex 6.24.1
1.173.1 Available under license
1.174 repeat-string 1.6.1
1.174.1 Available under license
1.175 process-nextick-args 2.0.0
1.175.1 Available under license
1.176 babel-plugin-transform-es2015-modules-systemjs 6.24.1
1.177 django-cors-headers 2.4.0
1.177.1 Available under license
1.178 python-dockerpty 0.4.1
1.178.1 Available under license
1.179 babel-plugin-transform-es2015-modules-amd 6.24.1
1.180 attrs 19.3.0
1.180.1 Available under license
1.181 libunistring 0.9.10
1.181.1 Available under license
1.182 pyasn1 0.1.9
1.182.1 Available under license
1.183 websocket-client 0.40.0
1.183.1 Available under license
1.184 home-or-tmp 2.0.0
1.184.1 Available under license

1.185 chokidar 1.7.0
1.186 minimatch 3.0.4
1.186.1 Available under license
1.187 remove-trailing-separator 1.1
1.187.1 Available under license
1.188 pygments 2.2.0
1.188.1 Available under license
1.189 is-posix-bracket 0.1.1
1.189.1 Available under license
1.190 glib 2.62.4
1.190.1 Available under license
1.191 service-identity 18.1.0
1.191.1 Available under license
1.192 icss-utils 2.1.0
1.192.1 Available under license
1.193 backbone 1.3.3
1.193.1 Available under license
1.194 expand-brackets 0.1.5
1.194.1 Available under license
1.195 hmac-drbg 1.0.1
1.196 iptables 1.8.3
1.197 wsaccel 0.6.2
1.198 parse-asn1 5.1.1
1.198.1 Available under license
1.199 binary-extensions 1.11.0
1.199.1 Available under license
1.200 python-setuptools 41.2.0
1.200.1 Available under license
1.201 billiard 3.6.1.0
1.201.1 Available under license
1.202 cookies 2.2.1
1.202.1 Available under license
1.203 bcrypt 3.2.0
1.203.1 Available under license
1.204 libglib 2.62.4
1.204.1 Available under license
1.205 schema-utils 0.4.7
1.205.1 Available under license
1.206 miller-rabin 4.0.1

1.207 pickleshare 0.7.4
1.207.1 Available under license
1.208 isobject 2.1.0
1.208.1 Available under license
1.209 pytzdata 2019.1
1.209.1 Available under license
1.210 lxml 4.4.1
1.210.1 Available under license
1.211 once 1.4.0
1.211.1 Available under license
1.212 supports-color 5.5.0
1.212.1 Available under license
1.213 backbone-computedfields 0.0.12
1.213.1 Available under license
1.214 css-selector-tokenizer 0.7.1
1.214.1 Available under license
1.215 cached-property 1.5.1
1.215.1 Available under license
1.216 private 0.1.8
1.216.1 Available under license
1.217 docker 4.1.0
1.217.1 Available under license
1.218 os-tmpdir 1.0.2
1.218.1 Available under license
1.219 wcwidth 0.1.7-2.ph3
1.219.1 Available under license
1.220 lua-cjson 2.1.0
1.220.1 Available under license
1.221 util-linux 2.35.1
1.221.1 Available under license
1.222 rsyslog 8.2006.0
1.222.1 Available under license
1.223 underscore 1.8.3
1.223.1 Available under license
1.224 procps 3.3.15
1.224.1 Available under license
1.225 randombytes 2.0.6
1.225.1 Available under license
1.226 defusedxml 0.5.0-3.ph3

1.226.1 Available under license

1.227 setuptools-scm 3.3.3

1.227.1 Available under license

1.228 babel-plugin-transform-es2015-for-of 6.23.0

1.229 babel-helper-hoist-variables 6.24.1

1.230 bind 9.11.13

1.230.1 Available under license

1.231 msgpack 0.6.2

1.231.1 Available under license

1.232 pyasn 0.1.9

1.232.1 Available under license

1.233 mpdecimal 2.4.2

1.233.1 Available under license

1.234 anymatch 1.3.2

1.234.1 Available under license

1.235 core-util-is 1.0.2

1.235.1 Available under license

1.236 python3-asn1crypto 1.2.0

1.236.1 Available under license

1.237 backbone.marionette 3.4.4

1.237.1 Available under license

1.238 is-dotfile 1.0.3

1.238.1 Available under license

1.239 is-glob 2.0.1

1.239.1 Available under license

1.240 libestr 0.1.11

1.240.1 Available under license

1.241 xmltodict 0.11.0

1.241.1 Available under license

1.242 regenerator-transform 0.10.1

1.243 safe-buffer 5.1.2

1.243.1 Available under license

1.244 syslinux 6.03

1.244.1 Available under license

1.245 jsesc 0.5.0

1.245.1 Available under license

1.246 css-loader 1.0.1

1.246.1 Available under license

1.247 is-extglob 1.0.0

1.247.1 Available under license

1.248 punycode 2.1.1

1.248.1 Available under license

1.249 isarray 1.0.0

1.249.1 Available under license

1.250 source-map-support 0.4.18

1.250.1 Available under license

1.251 redis 5.0.7

1.251.1 Available under license

1.252 babel-plugin-transform-es2015-duplicate-keys 6.24.1

1.253 kombu 4.6.7

1.253.1 Available under license

1.254 has-flag 3.0.0

1.254.1 Available under license

1.255 crypto-browserify 3.12.0

1.255.1 Available under license

1.256 zlib 1.2.11

1.256.1 Available under license

1.257 postcss-value-parser 3.3.0

1.257.1 Available under license

1.258 fastparse 1.1.1

1.258.1 Available under license

1.259 django-auth-ldap 1.7.0

1.259.1 Available under license

1.260 source-list-map 2.0.1

1.260.1 Available under license

1.261 supports-color 2.0.0

1.261.1 Available under license

1.262 postcss-modules-extract-imports 1.2.1

1.262.1 Available under license

1.263 netlink dbc72376c86301bb873c332830857e73c9f701e3

1.263.1 Available under license

1.264 ripemd160 2.0.2

1.264.1 Available under license

1.265 pycparser 2.19

1.265.1 Available under license

1.266 websocket-client 0.47.0

1.266.1 Available under license

1.267 python-certifi 2019.9.11

1.267.1 Available under license
1.268 escape-string-regexp 1.0.5
1.268.1 Available under license
1.269 babel-helper-optimise-call-expression 6.24.1
1.270 pyhamcrest 1.9.0
1.270.1 Available under license
1.271 globals 9.18.0
1.271.1 Available under license
1.272 browserify-sign 4.0.4
1.272.1 Available under license
1.273 json-c 0.99.8
1.273.1 Available under license
1.274 nettle 3.5.1
1.274.1 Available under license
1.275 babel-runtime 6.26.0
1.276 backbone-paginator 2.0.6
1.276.1 Available under license
1.277 ipython-genutils 0.2.0
1.277.1 Available under license
1.278 prompt-toolkit 3.0.2
1.278.1 Available under license
1.279 is-equal-shallow 0.1.3
1.279.1 Available under license
1.280 zope-interface 4.6.0
1.280.1 Available under license
1.281 jsesc 1.3.0
1.281.1 Available under license
1.282 stunnel 5.56
1.282.1 Available under license
1.283 emojis-list 2.1.0
1.283.1 Available under license
1.284 i18next 7.2.3
1.284.1 Available under license
1.285 docker-containerd 1.2.12
1.285.1 Available under license
1.286 extglob 0.3.2
1.286.1 Available under license
1.287 babel-plugin-transform-es2015-computed-properties 6.24.1
1.288 json5 1.0.1

1.288.1 Available under license

1.289 decorator 4.3.0

1.289.1 Available under license

1.290 libfastjson 0.99.8

1.290.1 Available under license

1.291 path-is-absolute 1.0.1

1.291.1 Available under license

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1.292.1 Available under license

1.293 libffi 3.3

1.293.1 Available under license

1.294 coreutils 8.31

1.294.1 Available under license

1.295 brace-expansion 1.1.11

1.295.1 Available under license

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1.298.1 Available under license

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1.299.1 Available under license

1.300 regenerator-runtime 0.10.5

1.300.1 Available under license

1.301 pcre 8.44

1.301.1 Available under license

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1.303 python-certifi 2019.11.28

1.303.1 Available under license

1.304 pkijs 2.1.10

1.304.1 Available under license

1.305 hash.js 1.1.5

1.305.1 Available under license

1.306 python-blessed 1.17.5

1.306.1 Available under license

1.307 ptyprocess 0.6.0

1.307.1 Available under license

1.308 backcall 0.1.0

1.309 has-ansi 2.0.0

1.309.1 Available under license

1.310 backgrid 0.3.8

1.310.1 Available under license

1.311 convert-source-map 1.5.1

1.311.1 Available under license

1.312 rfc3987 1.3.7

1.312.1 Available under license

1.313 netcat 0.7.1

1.313.1 Available under license

1.314 slash 1.0.0

1.315 expand-range 1.8.2

1.315.1 Available under license

1.316 jsonref 0.2

1.316.1 Available under license

1.317 babel-plugin-transform-es2015-destructuring 6.23.0

1.318 output-file-sync 1.1.2

1.318.1 Available under license

1.319 randomfill 1.0.4

1.319.1 Available under license

1.320 regexpu-core 2.0.0

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1.321.1 Available under license

1.322 postgre-sql 12.2

1.322.1 Available under license

1.323 babel-register 6.26.0

1.324 icss-replace-symbols 1.1.0

1.324.1 Available under license

1.325 file-loader 1.1.11

1.325.1 Available under license

1.326 micro 2.3.11

1.326.1 Available under license

1.327 babel-plugin-transform-es2015-modules-umd 6.24.1

1.328 bn.js 4.11.8

1.328.1 Available under license

1.329 supports-color 5.3.0

1.329.1 Available under license

1.330 python-pip 19.3.1

1.330.1 Available under license

1.331 babel-plugin-transform-es2015-function-name 6.24.1
1.332 regjsgen 0.2.0
1.332.1 Available under license
1.333 soundex 0.2.1
1.333.1 Available under license
1.334 aioredis 1.1.0
1.334.1 Available under license
1.335 is-binary-path 1.0.1
1.335.1 Available under license
1.336 async-timeout 3.0.0
1.336.1 Available under license
1.337 webcolors 1.7
1.337.1 Available under license
1.338 babel-core 6.26.0
1.339 core-js 2.5.5
1.339.1 Available under license
1.340 strict-rfc3339 0.7
1.340.1 Available under license
1.341 python-requests 2.21.0
1.341.1 Available under license
1.342 repeating 2.0.1
1.342.1 Available under license
1.343 simplegeneric 0.8.1
1.343.1 Available under license
1.344 python-requests 2.22.0
1.344.1 Available under license
1.345 lodash 4.17.11
1.345.1 Available under license
1.346 backbone.radio 2.0.0
1.346.1 Available under license
1.347 dockerpty 0.4.1
1.347.1 Available under license
1.348 regjsparser 0.1.5
1.348.1 Available under license
1.349 gmp 6.1.2
1.349.1 Available under license
1.350 jedi 0.12.1
1.350.1 Available under license
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1.4 ajv 6.10.0

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1.8 babel-plugin-transform-es2015-template-literals 6.22.0

1.9 babel-plugin-transform-strict-mode 6.24.1

1.10 inflight 1.0.6

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1.11 pyyaml 5.3

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1.12 open-vm-tools 10.3.5-10430147

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>>> freebsd-base64-4.8
>>> unicode-5.0

==========

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>>> freebsd-base64-4.8

base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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1.13 isodate 0.6.0

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Metadata-Version: 1.1
Name: isodate
Version: 0.6.0
Summary: An ISO 8601 date/time/duration parser and formatter
Home-page: https://github.com/gweis/isodate/
Author: Gerhard Weis
Author-email: gerhard.weis@proclos.com
License: BSD
Description:

```
    ISO 8601 date/time parser
    =========================

    .. image:: https://travis-ci.org/gweis/isodate.svg?branch=master
```

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:alt: License

This module implements ISO 8601 date, time and duration parsing.
The implementation follows ISO8601:2004 standard, and implements only
date/time representations mentioned in the standard. If something is not
mentioned there, then it is treated as non existent, and not as an allowed
option.

For instance, ISO8601:2004 never mentions 2 digit years. So, it is not
intended by this module to support 2 digit years. (while it may still
be valid as ISO date, because it is not explicitly forbidden.)
Another example is, when no time zone information is given for a time,
then it should be interpreted as local time, and not UTC.

As this module maps ISO 8601 dates/times to standard Python data types, like
date, *time*, *datetime* and *timedelta*, it is not possible to convert
all possible ISO 8601 dates/times. For instance, dates before 0001-01-01 are
not allowed by the Python *date* and *datetime* classes. Additionally
fractional seconds are limited to microseconds. That means if the parser finds
for instance nanoseconds it will round it to microseconds.

Documentation

Currently there are four parsing methods available.
* parse_time:
parses an ISO 8601 time string into a *time* object
* parse_date:
parses an ISO 8601 date string into a *date* object
* parse_datetime:
parses an ISO 8601 date-time string into a *datetime* object
* parse_duration:
parses an ISO 8601 duration string into a *timedelta* or *Duration*
object.
* parse_tzinfo:
parses the time zone info part of an ISO 8601 string into a
tzinfo object.

As ISO 8601 allows to define durations in years and months, and *timedelta* does not handle years and months, this module provides a *Duration* class, which can be used almost like a *timedelta* object (with some limitations). However, a *Duration* object can be converted into a *timedelta* object.

There are also ISO formatting methods for all supported data types. Each *xxx_isoformat* method accepts a format parameter. The default format is always the ISO 8601 expanded format. This is the same format used by *datetime.isoformat*:

* time_isoformat:
  Intended to create ISO time strings with default format
  hh:mm:ssZ.
* date_isoformat:
  Intended to create ISO date strings with default format
  yyyy-mm-dd.
* datetime_isoformat:
  Intended to create ISO date-time strings with default format
  yyyy-mm-ddThh:mm:ssZ.
* duration_isoformat:
  Intended to create ISO duration strings with default format
  PnnYnnMnnDTnnHnnMnnS.
* tz_isoformat:
  Intended to create ISO time zone strings with default format
  hh:mm.
* strftime:
  A re-implementation mostly compatible with Python's *strftime*, but supports only those format strings, which can also be used for dates prior 1900. This method also understands how to format *datetime* and *Duration* instances.

Installation:

This module can easily be installed with Python standard installation methods.

Either use *python setup.py install* or in case you have *setuptools* or *distribute* available, you can also use *easy_install*.

Limitations:
---

* The parser accepts several date/time representation which should be invalid according to ISO 8601 standard.

  1. for date and time together, this parser accepts a mixture of basic and extended format.
     e.g. the date could be in basic format, while the time is accepted in extended format.

It also allows short dates and times in date-time strings.
2. For incomplete dates, the first day is chosen. e.g. 19th century results in a date of 1901-01-01.
3. negative *Duration* and *timedelta* value are not fully supported yet.

Further information:

The doc strings and unit tests should provide rather detailed information about
the methods and their limitations.

The source release provides a *setup.py* script,
which can be used to run the unit tests included.

Source code is available at `<http://github.com/gweis/isodate>`_.

CHANGES
=======

0.6.0 (2017-10-13)

- support incomplete month date (Fabien Loffredo)
- rely on duck typing when doing duration maths
- support ':' as separator in fractional time zones (usrenmae)

0.5.4 (2015-08-06)

- Fix parsing of Periods (Fabien Bochu)
- Make Duration objects hashable (Geoffrey Fairchild)
- Add multiplication to duration (Reinoud Elhorst)

0.5.1 (2014-11-07)

- fixed pickling of Duration objects
- raise ISO8601Error when there is no 'T' separator in datetime strings (Adrian Coveney)

0.5.0 (2014-02-23)

- ISO8601Error are subclasses of ValueError now (Michael Hrivnak)
- improve compatibility across various python variants and versions
- raise exceptions when using fractional years and months in date

maths with durations
- renamed method todatetime on Duraction objects to totimedelta

0.4.9 (2012-10-30)

- support pickling FixedOffset instances
- make sure parsed fractional seconds are in microseconds
- add leading zeros when formattig microseconds (Jarom Loveridge)

0.4.8 (2012-05-04)

- fixed incompatibility of unittests with python 2.5 and 2.6 (runs fine on 2.7 and 3.2)

0.4.7 (2012-01-26)

- fixed tzinfo formatting (never pass None into tzinfo.utcoffset())

0.4.6 (2012-01-06)

- added Python 3 compatibility via 2to3

0.4.5 (2012-01-06)

- made setuptools dependency optional

0.4.4 (2011-04-16)

- Fixed formatting of microseconds for datetime objects

0.4.3 (2010-10-29)

- Fixed problem with %P formating and fractions (supplied by David Brooks)

0.4.2 (2010-10-28)

- Implemented unary - for Duration (supplied by David Brooks)
- Output fractional seconds with '%P' format. (partly supplied by David Brooks)

0.4.1 (2010-10-13)

- fixed bug in comparison between timedelta and Duration.
- fixed precision problem with microseconds (reported by Tommi Virtanen)

0.4.0 (2009-02-09)

- added method to parse ISO 8601 time zone strings
- added methods to create ISO 8601 conforming strings

0.3.0 (2009-1-05)

- Initial release

TODOs
=====

This to do list contains some thoughts and ideas about missing features, and
parts to think about, whether to implement them or not. This list is probably
not complete.

Missing features:
---

* time formating does not allow to create fractional representations.
* parser for ISO intervals.
* currently microseconds are always padded to a length of 6 characters.
  trailing 0s should be optional

Documentation:
---

* parse_datetime:
  - complete documentation to show what this function allows, but ISO forbids.
    and vice verse.
  - support other separators between date and time than 'T'

* parse_date:
  - yeardigits should be always greater than 4
  - dates before 0001-01-01 are not supported

* parse_duration:

- alternative formats are not fully supported due to parse_date restrictions
- standard duration format is fully supported but not very restrictive.

* Duration:
- support fractional years and month in calculations
- implement w3c order relation? (`<http://www.w3.org/TR/xmlschema-2/#duration-order>`_)
- refactor to have duration mathematics only at one place.
- localize __str__ method (does timedelta do this?)
- when is a Duration negative?
- normalize Durations. months [00-12] and years]-inf,+inf[

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* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/src/isodate/tests/test_duration.py

1.14 odfpy 1.3.6

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1.15 moment-duration-format 2.2.2

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1.18 esutils 2.0.2

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1.24 python-cached-property 1.4.3

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1.25 cffi 1.13.1

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1.28 fs.realpath 1.0.0

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1.29 incremental 17.5.0-2.ph4

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1.35 babel-helper-define-map 6.26.0

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1.37 linux-headers 4.9.107

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```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
```

```
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*            combined, allow nicstar_free_rx_skb to be called to
*            recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
*
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*
* M. Welsh, 6 July 1996
*
*
*/
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1.45 requests-ntlm 1.1.0

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1.50 txaio 18.8.1

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1.52 brace 1.8.5

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1.56 libdnet 1.11

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1.60 babel-plugin-transform-es2015-unicode-regex 6.24.1

1.61 cipher-base 1.0.4

1.61.1 Available under license :

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1.62 pyasn1 0.4.4-1.ph3

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ASN.1 library for Python

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blue.svg)](https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt)

This is a free and open source implementation of ASN.1 types and codecs
as a Python package. It has been first written to support particular
protocol (SNMP) but then generalized to be suitable for a wide range
of protocols based on
[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-
E&type=items).

Features
---

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
 id       INTEGER,
 room  [0] INTEGER OPTIONAL,
 house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
  componentType = NamedTypes(
      NamedType('id', Integer()),
      OptionalNamedType(
         'room', Integer().subtype(
            implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
```

```
        )
    ),
    DefaultedNamedType(
        'house', Integer(0).subtype(
            implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
        )
    )
  )
```

It is in the spirit of ASN.1 to take abstract data description
and turn it into a programming language specific form.
Once you have your ASN.1 data structure expressed in Python, you
can use it along the lines of similar Python type (e.g. ASN.1
`SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```

Part of the power of ASN.1 comes from its serialisation features. You
can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from
network or read from a file, into a Python object which you can
introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>    print('{} is {}'.format(field, received_record[field]))
id is 123
```

```
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1

The pyasn1 package is distributed under terms and conditions of 2-clause
BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely
available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected,
[open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or
post your question [on Stack Overflow](https://stackoverflow.com/questions/ask)
or try browsing pyasn1
[mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/type/test_namedval.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/codec/ber/decoder.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/compat/integer.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/type/tag.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/type/namedtype.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/base.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/type/test_univ.py
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ASN.1 library for Python
==========

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Abstract Syntax Notation One (`ASN.1 <http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>`_) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.org/project/pyasn1/>`_ library implements ASN.1 support in pure-Python.

What is ASN.1

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting `discussions <https://news.ycombinator.com/item?id=8871453>`_ on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-

buffers/>`_
or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example.
Interestingly, many new takes on binary protocol design do not depart
far from ASN.1 from technical perspective. It's more of a matter of striking
a balance between processing overhead, wire format overhead and human
readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types
 (integers, bits, strings, arrays and records) that can be used for describing
 arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a
 series of octets for storage or transmission over the wire as well as
 recovered back into their structured form. The system is fully agnostic
 to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms
 of a schema language for ASN.1 compiler to turn it into platform-specific
 implementation.

ASN.1 applications

Being an old and generally successful standard, ASN.1 is widely
adopted for many uses. To give you an example, these technologies
use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

Apparently, ASN.1 is hard to implement properly. Quality open-source
ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the
`statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered
security vulnerabilities, many people have implemented ASN.1 parsers
and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood
and security reviewed.

Documentation

.. toctree::
  :maxdepth: 2

  /pyasn1/contents

Use case

.. toctree::
  :maxdepth: 2

  /example-use-case

Download & Install

.. toctree::
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  /download

Changes

All changes and release history is maintained in changelog. There you
could also download the latest unreleased pyasn1 tarball containing
the latest fixes and improvements.

.. toctree::
  :maxdepth: 1

  /changelog

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Getting help

Please, file your `issues <https://github.com/etingof/pyasn1/issues>`_
and `PRs <https://github.com/etingof/pyasn1/pulls>`_ at GitHub.
Alternatively, you could ask for help at
`Stack Overflow <http://stackoverflow.com/questions/tagged/pyasn1>`_
or search
`pyasn1-users <https://lists.sourceforge.net/lists/listinfo/pyasn1-users>`_
mailing list archive.

Books on ASN.1

The pyasn1 implementation is largely based on reading up the following awesome
books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson
* `ASN.1 Complete <http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>`_ by Prof John Larmouth

Here you can get the official standards which is hard to read:

* `ITU standards <http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>`_

On the other end of the readability spectrum, here is a quick and sweet write up:

* `A Layman's Guide to a Subset of ASN.1, BER, and DER <ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>`_ by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper
book on the subject.

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* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/docs/source/contents.rst
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* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/LICENSE.rst

1.63 lodash 4.17.4

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

```
 Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
 derived form the ones in the Monotone project, revision
 3a0982da308228d796df35f98d787c5cff2bb5b6.

 Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
 These files were derived from the file_handle, systembuf, pipe and pistream
 classes and tests found in the Boost.Process library.

 Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
 admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
 except the first one, were first implemented in the Buildtool project.
 They were later adapted to be part of Boost.Process and, during that
 process, the shell script was created.

 Author: Julio Merino <jmmv84@gmail.com>


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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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-->

<!-- $Id$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 xmlns:xi="http://www.w3.org/2001/XInclude"
 xmlns:db="http://docbook.org/ns/docbook">

 <xsl:template name="isc.copyright.format">
   <xsl:param name="text"/>
   <xsl:value-of select="$isc.copyright.leader"/>
   <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
   <xsl:text>&#10;</xsl:text>
   <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
```

```
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
  <xsl:text>&#10;</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

<!--
 - Local variables:
 - mode: sgml
 - End:
-->
```

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1.69 text-table 1.6.2

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1.70 moment 2.19.1

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1.71 babel-preset-es2015 6.24.1

1.72 evp_bytestokey 1.0.3

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1.73 ajv-keywords 3.4.0

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1.74 create-hmac 1.1.7

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1.75 gojsonpointer e0fe6f68307607d540ed8eac07a342c33fa1b54a

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1.78 mkdirp 0.5.1

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1.79 json-schema-traverse 0.4.1

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1.80 babel-code-frame 6.26.0

1.81 zeep 2.5.0

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1.82 chalk 1.1.3

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1.83 safe-buffer 5.1.1

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1.84 dcron 4.5

1.85 ansi-styles 3.2.1

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1.86 is-primitive 2.0.0

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1.87 openssl 1.1.1j

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1.88 babel-cli 6.26.0

1.89 babel-types 6.26.0

1.90 ndisc 1.0.4

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1.96 paramiko 2.6.0

1.97 plotly-js-basic-dist 1.44.1

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1.98 parso 0.5.2

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1.106 glob-base 0.3.0

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1.107 libvmtools 10.3.5.7752

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>>> freebsd-base64-4.8
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base64.c -- routines to encode/decode base64 data

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1.108 start-stop-daemon 1.18.10

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- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02

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A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes

2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
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2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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1.115 hyperlink 18.0.0-3.ph3

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1.116 number-is-nan 1.0.1

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1.117 parse-glob 3.0.4

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1.118 css-selector-tokenizer 0.7.0

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1.119 babel-plugin-transform-es2015-arrow-functions 6.22.0

1.120 babel-helper-function-name 6.24.1

1.121 create-ecdh 4.0.3

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1.122 minimalistic-assert 1.0.1

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1.124 color-name 1.1.3

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1.125 is-finite 1.0.2

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1.126 libatomic 7.6.10

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1.130 babel-plugin-transform-es2015-shorthand-properties 6.24.1

1.131 detect-indent 4.0.0

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1.132 util-deprecate 1.0.2

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1.133 libatomic-ops 7.6.10

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1.135 string_decoder 1.1.1

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1.137 regenerator-runtime 0.11.1

1.138 flatpickr 4.5.2

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1.139 libsodium 1.0.18

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1.140 docopt 0.6.2-3.ph4

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1.141 paramiko 2.7.2-1.ph4

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1.142 bzip2 1.0.8

1.143 micromatch 2.3.11

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1.144 ncurses 6.1

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1.145 djangorestframework 3.8.2

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1.146 is-number 3.0.0

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1.150 responses 0.10.5

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1.154 babel-messages 6.23.0

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1.157 v8flags 2.1.1

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1.158 fill-range 2.2.3

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1.159 gojsonreference e02fc20de94c78484cd5ffb007f8af96be030a45

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1.160 babel-template 6.26.0

1.161 net-tools 2.10

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1.162 diff-match-patch 20121119

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1.164 text-encoding-shim 1.0.4

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1.165 squashfs-tools 4.4

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1.167 babel-plugin-transform-es2015-block-scoped-functions 6.22.0

1.168 object.assign 4.1.1

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1.169 django-bulk-update 1.1.10

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1.171 babel-helper-get-function-arity 6.24.1

1.172 urllib3 1.25.6

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Contributions to the urllib3 project

Creator & Maintainer

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Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
 * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
 * NTLM-authenticated HTTPSConnectionPool
 * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
 * Client-verified SSL certificates for HTTPSConnectionPool

* Response gzip and deflate encoding support
* Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
* Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFXQB6/>
* Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
* Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
* Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
* Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
* Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
* IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
* Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
* Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
* Support for TLS SNI
* API unification of ssl_version/cert_reqs
* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
* Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
* Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
* Correct six.moves conflict
* Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
* Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
 * Stream method for Response objects.
 * Return native strings in header values.
 * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
 * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
 * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
 * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
 * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
 * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
 * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
 * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
 * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
 * Disabled TLS compression by default on Python 3.2+
 * Disabled TLS compression in pyopenssl contrib module
 * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
 * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
 * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
 * HTTPHeaderDict and associated tests and docs
 * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
 * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
 * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
 * PEP8 Compliance and Linting
 * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
 * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
 * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
 * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
 * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
 * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
 * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
 * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
 * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
 * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
 * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
 * App Engine environment tests.
 * Documentation re-write.

* John Krauss <https://github.com/talos>
 * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
 * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>

* Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
* IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
* Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
* Creation of ``HTTPConnectionPool.ResponseCls``.

* Predrag Gruevski <https://github.com/obi1kenobi>
* Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
* Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
* Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
* Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
* Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
* Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
* Various character-encoding fixes/tweaks
* Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
* Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
* Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
* History list to Retry object.
* HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
* Ensure timeouts are not booleans and greater than zero.
* Fixed infinite loop in ``stream`` when amt=None.

* Added length_remaining to determine remaining data to be read.
* Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
* Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
* Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
* Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
* Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
* Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
* Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>
* Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
* Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
* Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
* Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
* Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
* Minor fixes in the test suite

* Will Bond <will@wbond.net>
* Add Python 2.6 support to ``contrib.securetransport``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
* using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
* Improve contribution guide

* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

* Bruce Merry <https://www.brucemerry.org.za>
* Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
* Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
* Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
* Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
* Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
* Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
* Remove a spurious TypeError from the exception chain inside
  HTTPConnectionPool._make_request(), also for BaseExceptions.

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]

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1.173 babel-helper-regex 6.24.1

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1.174 repeat-string 1.6.1

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1.175 process-nextick-args 2.0.0

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1.177 django-cors-headers 2.4.0

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1.178 python-dockerpty 0.4.1

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1.179 babel-plugin-transform-es2015-modules-amd 6.24.1

1.180 attrs 19.3.0

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1.181 libunistring 0.9.10

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1.185 chokidar 1.7.0

1.186 minimatch 3.0.4

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1.187 remove-trailing-separator 1.1

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1.188 pygments 2.2.0

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1.189 is-posix-bracket 0.1.1

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1.190 glib 2.62.4

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1.192 icss-utils 2.1.0

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1.193 backbone 1.3.3

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1.196 iptables 1.8.3

1.197 wsaccel 0.6.2

1.198 parse-asn1 5.1.1

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1.199 binary-extensions 1.11.0

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1.200 python-setuptools 41.2.0

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1.201 billiard 3.6.1.0

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1.203 bcrypt 3.2.0

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1.204 libglib 2.62.4

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1.205 schema-utils 0.4.7

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1.206 miller-rabin 4.0.1

1.207 pickleshare 0.7.4

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1.209 pytzdata 2019.1

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1.210 lxml 4.4.1

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1.216 private 0.1.8

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1.217 docker 4.1.0

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1.220 lua-cjson 2.1.0

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1.222 rsyslog 8.2006.0

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1.226 defusedxml 0.5.0-3.ph3

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1.227 setuptools-scm 3.3.3

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1.228 babel-plugin-transform-es2015-for-of 6.23.0

1.229 babel-helper-hoist-variables 6.24.1

1.230 bind 9.11.13

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<xsl:stylesheet version="1.0"
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 xmlns:xi="http://www.w3.org/2001/XInclude"
 xmlns:db="http://docbook.org/ns/docbook">

 <xsl:template name="isc.copyright.format">
   <xsl:param name="text"/>
   <xsl:value-of select="$isc.copyright.leader"/>
   <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
   <xsl:text>&#10;</xsl:text>
   <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
   <xsl:if test="translate($rest, '&#9;&#32;', '')">
     <xsl:call-template name="isc.copyright.format">
       <xsl:with-param name="text" select="$rest"/>
     </xsl:call-template>
   </xsl:if>
 </xsl:template>

 <xsl:variable name="isc.copyright.text">
   <xsl:text>
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    file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:text>
 </xsl:variable>

 <xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
  <xsl:text>&#10;</xsl:text>
 </xsl:for-each>
 <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
 </xsl:variable>
</xsl:stylesheet>

<!--
 - Local variables:
 - mode: sgml
 - End:
-->
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1.232 pyasn 0.1.9

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1.233 mpdecimal 2.4.2

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1.234 anymatch 1.3.2

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1.235 core-util-is 1.0.2

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1.236 python3-asn1crypto 1.2.0

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1.237 backbone.marionette 3.4.4

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1.238 is-dotfile 1.0.3

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1.239 is-glob 2.0.1

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1.240 libestr 0.1.11

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1.241 xmltodict 0.11.0

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1.242 regenerator-transform 0.10.1

1.243 safe-buffer 5.1.2

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1.244 syslinux 6.03

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1.245 jsesc 0.5.0

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1.246 css-loader 1.0.1

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1.248 punycode 2.1.1

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* /opt/cola/permits/1110632783_1607450976.71/0/isarray-1-0-0-7-tgz/package/README.md

1.250 source-map-support 0.4.18

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1.251 redis 5.0.7

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1.252 babel-plugin-transform-es2015-duplicate-keys 6.24.1

1.253 kombu 4.6.7

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1.254 has-flag 3.0.0

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1.255 crypto-browserify 3.12.0

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1.256 zlib 1.2.11

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

1.257 postcss-value-parser 3.3.0

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1.258 fastparse 1.1.1

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* /opt/cola/permits/1124672787_1611145753.0/0/webpack-fastparse-v1-1-1-0-g9206e09-tar-gz/webpack-fastparse-d1420f0/lib/Parser.js

1.259 django-auth-ldap 1.7.0

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1.260 source-list-map 2.0.1

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1.261 supports-color 2.0.0

1.261.1 Available under license :

supports-color [![Build Status](https://travis-ci.org/chalk/supports-color.svg?branch=master)](https://travis-ci.org/chalk/supports-color)

> Detect whether a terminal supports color

Install

```
$ npm install --save supports-color
```

Usage

```js
var supportsColor = require('supports-color');

if (supportsColor) {
 console.log('Terminal supports color');
}
```

It obeys the `--color` and `--no-color` CLI flags.

For situations where using `--color` is not possible, add an environment variable `FORCE_COLOR` with any value to force color. Trumps `--no-color`.

Related

- [supports-color-cli](https://github.com/chalk/supports-color-cli) - CLI for this module
- [chalk](https://github.com/chalk/chalk) - Terminal string styling done right

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1.262 postcss-modules-extract-imports 1.2.1

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1.263 netlink dbc72376c86301bb873c332830857e73c9f701e3

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1.264 ripemd160 2.0.2

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1.265 pycparser 2.19

1.265.1 Available under license :

pycparser -- A C parser in Python

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1.266 websocket-client 0.47.0

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1.267 python-certifi 2019.9.11

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

1.268 escape-string-regexp 1.0.5

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1.269 babel-helper-optimise-call-expression 6.24.1

1.270 pyhamcrest 1.9.0

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1.271 globals 9.18.0

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1.272 browserify-sign 4.0.4

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1.273 json-c 0.99.8

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1.274 nettle 3.5.1

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1.275 babel-runtime 6.26.0

1.276 backbone-paginator 2.0.6

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1.277 ipython-genutils 0.2.0

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1.278 prompt-toolkit 3.0.2

1.278.1 Available under license :

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1.279 is-equal-shallow 0.1.3

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1.280 zope-interface 4.6.0

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1.281 jsesc 1.3.0

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1.283 emojis-list 2.1.0

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1.284 i18next 7.2.3

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1.285 docker-containerd 1.2.12

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1.286 extglob 0.3.2

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1.287 babel-plugin-transform-es2015-computed-properties 6.24.1

1.288 json5 1.0.1

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1.289 decorator 4.3.0

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1.290 libfastjson 0.99.8

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1.291 path-is-absolute 1.0.1

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1.292 glob 7.1.2

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1.293 libffi 3.3

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1.295 brace-expansion 1.1.11

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1.296 babel-plugin-transform-es2015-typeof-symbol 6.23.0

1.297 jsonschema 2.5.1

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1.298 pytz 2018.5-2.ph3

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1.299 ntp 4.2.8p15

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34. [37]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
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50. [54]Michael Shields <shields@tembel.org> USNO clock driver
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58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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1.300 regenerator-runtime 0.10.5

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1.301 pcre 8.44

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1.302 babel-helper-replace-supers 6.24.1

1.303 python-certifi 2019.11.28

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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
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1.304 pkijs 2.1.10

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1.305 hash.js 1.1.5

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1.306 python-blessed 1.17.5

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1.307 ptyprocess 0.6.0

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1.308 backcall 0.1.0

1.309 has-ansi 2.0.0

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has-ansi [![Build Status](https://travis-ci.org/sindresorhus/has-ansi.svg?branch=master)](https://travis-ci.org/sindresorhus/has-ansi)

> Check if a string has [ANSI escape codes](http://en.wikipedia.org/wiki/ANSI_escape_code)

Install

```
$ npm install --save has-ansi
```

Usage

```js
var hasAnsi = require('has-ansi');

hasAnsi('\u001b[4mcake\u001b[0m');
```

```
//=> true

hasAnsi('cake');
//=> false
```

Related

- [has-ansi-cli](https://github.com/sindresorhus/has-ansi-cli) - CLI for this module
- [strip-ansi](https://github.com/sindresorhus/strip-ansi) - Strip ANSI escape codes
- [ansi-regex](https://github.com/sindresorhus/ansi-regex) - Regular expression for matching ANSI escape codes
- [chalk](https://github.com/sindresorhus/chalk) - Terminal string styling done right

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1.310 backgrid 0.3.8

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1.311 convert-source-map 1.5.1

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1.312 rfc3987 1.3.7

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1.314 slash 1.0.0

1.315 expand-range 1.8.2

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1.316 jsonref 0.2

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1.317 babel-plugin-transform-es2015-destructuring 6.23.0

1.318 output-file-sync 1.1.2

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1.319 randomfill 1.0.4

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1.320 regexpu-core 2.0.0

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1.321 pyasn1-modules 0.2.2-1.ph3

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1.322 postgre-sql 12.2

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1.323 babel-register 6.26.0

1.324 icss-replace-symbols 1.1.0

1.324.1 Available under license :

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1.325 file-loader 1.1.11

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1.326 micro 2.3.11

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1.327 babel-plugin-transform-es2015-modules-umd 6.24.1

1.328 bn.js 4.11.8

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1.329 supports-color 5.3.0

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1.330 python-pip 19.3.1

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contextlib2 is a derivative of the contextlib module distributed by the PSF as part of the Python standard library. According, it is itself redistributed under the PSF license (reproduced in full below). As the contextlib module was added only in Python 2.5, the licenses for earlier Python versions are not applicable and have not been included.

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to

BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases that included the contextlib module.

Release	Derived from	Year	Owner	GPL-compatible? (1)
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes

2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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2.1.2	2.1.1	2002	PSF	yes
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2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
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2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
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2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
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http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
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1.331 babel-plugin-transform-es2015-function-name 6.24.1

1.332 regjsgen 0.2.0

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1.333 soundex 0.2.1

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1.334 aioredis 1.1.0

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1.335 is-binary-path 1.0.1

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1.336 async-timeout 3.0.0

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1.337 webcolors 1.7

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1.338 babel-core 6.26.0

1.339 core-js 2.5.5

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1.340 strict-rfc3339 0.7

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1.341 python-requests 2.21.0

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1.342 repeating 2.0.1

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1.343 simplegeneric 0.8.1

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1.344 python-requests 2.22.0

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1.345 lodash 4.17.11

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1.346 backbone.radio 2.0.0

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1.347 dockerpty 0.4.1

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1.348 regjsparser 0.1.5

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1.349 gmp 6.1.2

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1.351 des.js 1.0.0

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1.352 babel-helper-call-delegate 6.24.1

1.353 big.js 5.2.2

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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releases have also been GPL-compatible; the table below summarizes
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's
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Every contribution to Celery is as important to us,
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The first commit to the Celery codebase was made on
Fri Apr 24 13:30:00 2009 +0200, and has since
then been improved by many contributors.

Everyone who have ever contributed to Celery should be in
this list, but in a recent policy change it has been decided
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 * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

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 * Better unicode support for filepost using StringIO buffers

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* kennethreitz <me@kennethreitz.com>
 * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
 * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
 * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
 * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
 * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
 * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
 * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
 * Support for TLS SNI
 * API unification of ssl_version/cert_reqs
 * SSL fingerprint and alternative hostname verification
 * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
 * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
 * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
 * Correct six.moves conflict
 * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
 * Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
 * Stream method for Response objects.
 * Return native strings in header values.
 * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
 * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
 * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
 * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
 * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
 * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
 * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
 * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
 * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
 * Disabled TLS compression by default on Python 3.2+
 * Disabled TLS compression in pyopenssl contrib module
 * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
 * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
 * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
 * HTTPHeaderDict and associated tests and docs
 * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
 * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
 * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
 * PEP8 Compliance and Linting
 * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
 * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
 * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>

* Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
* Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
* Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
* Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
* Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
* Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
* Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
* IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
* App Engine environment tests.
* Documentation re-write.

* John Krauss <https://github.com/talos>
* Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
* Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
* Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
* IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
* Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
* Creation of ``HTTPConnectionPool.ResponseCls``.

* Predrag Gruevski <https://github.com/obi1kenobi>
* Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>

* Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
* Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
* Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
* Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
* Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
* Various character-encoding fixes/tweaks
* Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
* Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
* Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
* History list to Retry object.
* HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
* Ensure timeouts are not booleans and greater than zero.
* Fixed infinite loop in ``stream`` when amt=None.
* Added length_remaining to determine remaining data to be read.
* Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
* Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
* Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
* Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
 * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
 * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
 * Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>
 * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
 * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
 * Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
 * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jesse Shapiro) <jshapiro@akamai.com>
 * Ongoing maintenance

* Dominique Leuenberger <dimstar@opensuse.org>
 * Minor fixes in the test suite

* Will Bond <will@wbond.net>
 * Add Python 2.6 support to ``contrib.securetransport``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
 * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
 * Improve contribution guide
 * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

* Bruce Merry <https://www.brucemerry.org.za>
 * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
 * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
 * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
 * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
 * Remove Authorization header regardless of case when redirecting to cross-site

* [Your name or handle] <[email or website]>
 * [Brief summary of your changes]

1.361 bridgeutils 1.6.0

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1.363 fastclick 1.0.6

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1.364 babel-plugin-transform-es2015-parameters 6.24.1

1.365 preserve 0.2.0

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1.366 babel-plugin-transform-es2015-literals 6.22.0

1.367 docker-proxy 55685ba49593e67f5e1c8180539379b16736c25e

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1.368 browserify-rsa 4.0.1

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1.369 object.omit 2.0.1

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1.370 regexpu-core 1.0.0

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1.371 popt 1.16

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1.372 webpack-jquery-ui 2.0.1

1.373 nginx 1.17.7

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1.374 async-each 1.0.1

1.375 channels 2.3.1

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1.376 pyrsistent 0.15.6

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1.377 ldap-filters 2.2.2

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1.378 django 2.1.4

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==========
Advice for new contributors
==========

New contributor and not sure what to do? Want to help but just don't know how
to get started? This is the section for you.

.. admonition:: Basic tools and workflow

   If you are new to contributing to Django, the :doc:`/intro/contributing`
   tutorial will give you an introduction to the tools and the workflow.

First steps
==========

Start with these easy tasks to discover Django's development process.

* **Sign the Contributor License Agreement**

 The code that you write belongs to you or your employer. If your

contribution is more than one or two lines of code, you need to sign the `CLA`_. See the `Contributor License Agreement FAQ`_ for a more thorough explanation.

* **Triage tickets**

If an `unreviewed ticket`_ reports a bug, try and reproduce it. If you can reproduce it and it seems valid, make a note that you confirmed the bug and accept the ticket. Make sure the ticket is filed under the correct component area. Consider writing a patch that adds a test for the bug's behavior, even if you don't fix the bug itself. See more at :ref:`how-can-i-help-with-triaging`

* **Look for tickets that are accepted and review patches to build familiarity with the codebase and the process**

Mark the appropriate flags if a patch needs docs or tests. Look through the changes a patch makes, and keep an eye out for syntax that is incompatible with older but still supported versions of Python. :doc:`Run the tests </internals/contributing/writing-code/unit-tests>` and make sure they pass. Where possible and relevant, try them out on a database other than SQLite. Leave comments and feedback!

* **Keep old patches up to date**

Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as expected. Simply updating a patch is both useful and important! See more on :doc:`writing-code/submitting-patches`.

* **Write some documentation**

Django's documentation is great but it can always be improved. Did you find a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on :doc:`writing-documentation`.

.. note::

The `reports page`_ contains links to many useful Trac queries, including several that are useful for triaging tickets and reviewing patches as suggested above.

.. _reports page: https://code.djangoproject.com/wiki/Reports

.. _CLA: https://www.djangoproject.com/foundation/cla/
.. _Contributor License Agreement FAQ: https://www.djangoproject.com/foundation/cla/faq/
.. _unreviewed ticket: https://code.djangoproject.com/query?status=!closed&stage=Unreviewed

Guidelines
==========

As a newcomer on a large project, it's easy to experience frustration. Here's some advice to make your work on Django more useful and rewarding.

* **Pick a subject area that you care about, that you are familiar with, or that you want to learn about**

  You don't already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

* **Analyze tickets' context and history**

  Trac isn't an absolute; the context is just as important as the words. When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn't necessarily mean that the idea will still have support. You also need to pay attention to who *hasn't* spoken -- for example, if an experienced contributor hasn't been recently involved in a discussion, then a ticket may not have the support required to get into Django.

* **Start small**

  It's easier to get feedback on a little issue than on a big one. See the `easy pickings`_.

* **If you're going to engage in a big task, make sure that your idea has support first**

  This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that there's consensus on a proposed feature before you go implementing it.

* **Be bold! Leave feedback!**

  Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can't do it without **you**!

* **Err on the side of caution when marking things Ready For Check-in**

  If you're really not certain if a ticket is ready, don't mark it as such. Leave a comment instead, letting others know your thoughts. If you're

mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

* **Wait for feedback, and respond to feedback that you receive**

Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.

* **Be rigorous**

When we say ":pep:`8`, and must have docs and tests", we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

.. _easy pickings: https://code.djangoproject.com/query?status=!closed&easy=1

.. _new-contributors-faq:

FAQ
===

1. **This ticket I care about has been ignored for days/weeks/months! What can I do to get it committed?**

   First off, it's not personal. Django is entirely developed by volunteers (except the Django fellow), and sometimes folks just don't have time. The best thing to do is to send a gentle reminder to the |django-developers| mailing list asking for review on the ticket, or to bring it up in the `#django-dev` IRC channel.

2. **I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC myself?**

   Short answer: No. It's always better to get another set of eyes on a ticket. If you're having trouble getting that second set of eyes, see question 1, above.

A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's

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1.379 python-dateutil 2.8.1-1.ph4

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1.380 python-certifi 2019.11.28

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

1.381 commander 2.15.1

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1.382 kind-of 3.2.2

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1.383 punycode 1.4.1

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1.384 lunr 0.7.2

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1.385 xlwt 1.3.0

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1.386 md5js 1.3.4

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1.387 jdcal 1.4

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1.388 babel-plugin-transform-es2015-modules-commonjs 6.26.0

1.389 chardet 3.0.4-2.ph4

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1.390 postcss-modules-values 1.3.0

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1.391 for-in 1.0.2

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1.392 jquery-ui 1.12.1

1.393 docker-pycreds 0.4.0

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1.394 docker-engine 19.03.5

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Protocol Buffers for Go with Gadgets

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1.395 glob-parent 2.0.0

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1.396 et-xmlfile 1.0.1

1.397 bcrypt 3.1.7

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1.398 minimalistic-crypto-utils 1.0.1

1.399 asn1.js 2.0.19

1.399.1 Available under license :

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1.400 to-fast-properties 1.0.3

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1.401 repeat-element 1.1.2

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1.402 lvm2 2.02.185

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1.405 cyrus-sasl 2.1.27

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1.406 sqlite 3.30.1

1.407 taglib 0.12.1

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1.408 public-encrypt 4.0.2

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1.409 style-loader 0.21.0

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1.410 python-setuptools 40.2.0.post20210712

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1.411 browserify-cipher 1.0.1

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1.412 psycopg 2.8.4

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1.414 sha.js 2.4.11

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1.417 log-rotate 3.15.1

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1.418 readdirp 2.1.0

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1.419 pexpect 4.6.0-3.ph3

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1.420 docker-compose 1.24.1

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1.421 babylon 6.18.0

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1.422 babel-plugin-transform-es2015-block-scoping 6.26.0

1.423 regex-cache 0.4.4

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1.424 hiredis 0.2.0

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1.425 openpyxl 2.5.6

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Metadata-Version: 1.2
Name: openpyxl
Version: 2.5.6
Summary: A Python library to read/write Excel 2010 xlsx/xlsm files
Home-page: https://openpyxl.readthedocs.io
Author: See AUTHORS
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License: MIT/Expat
Description: .. image:: https://coveralls.io/repos/bitbucket/openpyxl/openpyxl/badge.svg?branch=default
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:alt: coverage status

Introduction
---

openpyxl is a Python library to read/write Excel 2010 xlsx/xlsm/xltx/xltm files.

It was born from lack of existing library to read/write natively from Python

the Office Open XML format.

All kudos to the PHPExcel team as openpyxl was initially based on PHPExcel.

Mailing List

The user list can be found on http://groups.google.com/group/openpyxl-users

Sample code::

```
from openpyxl import Workbook
wb = Workbook()

# grab the active worksheet
ws = wb.active

# Data can be assigned directly to cells
ws['A1'] = 42

# Rows can also be appended
ws.append([1, 2, 3])

# Python types will automatically be converted
import datetime
ws['A2'] = datetime.datetime.now()

# Save the file
wb.save("sample.xlsx")
```

Documentation

The documentation is at: https://openpyxl.readthedocs.io

* installation methods
* code examples
* instructions for contributing

Release notes: https://openpyxl.readthedocs.io/en/stable/changes.html

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Operating System :: MacOS :: MacOS X
Classifier: Operating System :: Microsoft :: Windows

Classifier: Operating System :: POSIX
Classifier: License :: OSI Approved :: MIT License
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*

Found in path(s):
* /opt/cola/permits/1180985164_1626381098.37/0/openpyxl-2-5-6-1-tar-gz/openpyxl-2.5.6/PKG-INFO
* /opt/cola/permits/1180985164_1626381098.37/0/openpyxl-2-5-6-1-tar-gz/openpyxl-2.5.6/openpyxl.egg-info/PKG-INFO
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* /opt/cola/permits/1180985164_1626381098.37/0/openpyxl-2-5-6-1-tar-gz/openpyxl-2.5.6/setup.py
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1.432 sudo 1.8.31

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1.433 libseccomp 2.4.1

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1.434 pyopenssl 19.1.0-2.ph4

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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```
package engine

import (
 "bytes"
 "encoding/json"
 "strings"
 "testing"
 "time"

 "github.com/docker/cli/cli/command/formatter"
 "github.com/docker/cli/internal/licenseutils"
 "github.com/docker/licensing/model"
 "gotest.tools/assert"
 is "gotest.tools/assert/cmp"
)

func TestSubscriptionContextWrite(t *testing.T) {
 cases := []struct {
  context  formatter.Context
  expected string
 }{
```

```
  // Errors
  {
   formatter.Context{Format: "{{InvalidFunction}}"},
   `Template parsing error: template: :1: function "InvalidFunction" not defined
`,
  },
  {
   formatter.Context{Format: "{{nil}}"},
   `Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command
`,
  },
  // Table format
  {
   formatter.Context{Format: NewSubscriptionsFormat("table", false)},
   `NUM          OWNER          PRODUCT ID      EXPIRES                    PRICING COMPONENTS
1          owner1         productid1      2020-01-01 10:00:00 +0000 UTC   compstring
2          owner2         productid2      2020-01-01 10:00:00 +0000 UTC   compstring
`,
  },
  {
   formatter.Context{Format: NewSubscriptionsFormat("table", true)},
   `1:License Name: name1 Quantity: 10 nodes Expiration date: 2020-01-01
2:License Name: name2 Quantity: 20 nodes Expiration date: 2020-01-01
`,
  },
  {
   formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
   `OWNER
owner1
owner2
`,
  },
  {
   formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)},
   `OWNER
owner1
owner2
`,
  },
  // Raw Format
  {
   formatter.Context{Format: NewSubscriptionsFormat("raw", false)},
   `license: id1
name: name1
owner: owner1
components: compstring

license: id2
```

```
name: name2
owner: owner2
components: compstring

`,
  },
  {
   formatter.Context{Format: NewSubscriptionsFormat("raw", true)},
   `license: id1
license: id2
`,
  },
  // Custom Format
  {
   formatter.Context{Format: NewSubscriptionsFormat("{{.Owner}}", false)},
   `owner1
owner2
`,
  },
 }

 expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

 for _, testcase := range cases {
  subscriptions := []licenseutils.LicenseDisplay{
   {
    Num:   1,
    Owner: "owner1",
    Subscription: model.Subscription{
     ID:        "id1",
     Name:      "name1",
     ProductID: "productid1",
     Expires:   &expiration,
     PricingComponents: model.PricingComponents{
      &model.SubscriptionPricingComponent{
       Name:  "nodes",
       Value: 10,
      },
     },
    },
    ComponentsString: "compstring",
   },
   {
    Num:   2,
    Owner: "owner2",
    Subscription: model.Subscription{
     ID:        "id2",
     Name:      "name2",
```

```
      ProductID: "productid2",
      Expires:   &expiration,
      PricingComponents: model.PricingComponents{
       &model.SubscriptionPricingComponent{
        Name:  "nodes",
        Value: 20,
       },
      },
     },
     ComponentsString: "compstring",
    },
   }
   out := &bytes.Buffer{}
   testcase.context.Output = out
   err := SubscriptionsWrite(testcase.context, subscriptions)
   if err != nil {
    assert.Error(t, err, testcase.expected)
   } else {
    assert.Check(t, is.Equal(testcase.expected, out.String()))
   }
  }
}

func TestSubscriptionContextWriteJSON(t *testing.T) {
 expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
 subscriptions := []licenseutils.LicenseDisplay{
  {
   Num:   1,
   Owner: "owner1",
   Subscription: model.Subscription{
    ID:        "id1",
    Name:      "name1",
    ProductID: "productid1",
    Expires:   &expiration,
    PricingComponents: model.PricingComponents{
     &model.SubscriptionPricingComponent{
      Name:  "nodes",
      Value: 10,
     },
    },
   },
   ComponentsString: "compstring",
  },
  {
   Num:   2,
   Owner: "owner2",
   Subscription: model.Subscription{
    ID:        "id2",
```

```
  Name:      "name2",
  ProductID: "productid2",
  Expires:   &expiration,
  PricingComponents: model.PricingComponents{
   &model.SubscriptionPricingComponent{
    Name:  "nodes",
    Value: 20,
   },
  },
 },
 ComponentsString: "compstring",
},
}
expectedJSONs := []map[string]interface{}{
 {
  "Owner":            "owner1",
  "ComponentsString": "compstring",
  "Expires":          "2020-01-01T10:00:00Z",
  "DockerID":         "",
  "Eusa":             nil,
  "ID":               "id1",
  "Start":            nil,
  "Name":             "name1",
  "Num":              float64(1),
  "PricingComponents": []interface{}{
   map[string]interface{}{
    "name":  "nodes",
    "value": float64(10),
   },
  },
  "ProductID":        "productid1",
  "ProductRatePlan":   "",
  "ProductRatePlanID": "",
  "State":            "",
  "Summary":          "License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
 },
 {
  "Owner":            "owner2",
  "ComponentsString": "compstring",
  "Expires":          "2020-01-01T10:00:00Z",
  "DockerID":         "",
  "Eusa":             nil,
  "ID":               "id2",
  "Start":            nil,
  "Name":             "name2",
  "Num":              float64(2),
  "PricingComponents": []interface{}{
   map[string]interface{}{
```

```
    "name":  "nodes",
    "value": float64(20),
   },
  },
  "ProductID":        "productid2",
  "ProductRatePlan":   "",
  "ProductRatePlanID": "",
  "State":             "",
  "Summary":          "License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01",
 },
}

out := &bytes.Buffer{}
err := SubscriptionsWrite(formatter.Context{Format: "{{json .}}", Output: out}, subscriptions)
if err != nil {
 t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
 var m map[string]interface{}
 if err := json.Unmarshal([]byte(line), &m); err != nil {
  t.Fatal(err)
 }
 assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}
}

func TestSubscriptionContextWriteJSONField(t *testing.T) {
subscriptions := []licenseutils.LicenseDisplay{
 {Num: 1, Owner: "owner1"},
 {Num: 2, Owner: "owner2"},
}
out := &bytes.Buffer{}
err := SubscriptionsWrite(formatter.Context{Format: "{{json .Owner}}", Output: out}, subscriptions)
if err != nil {
 t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
 var s string
 if err := json.Unmarshal([]byte(line), &s); err != nil {
  t.Fatal(err)
 }
 assert.Check(t, is.Equal(subscriptions[i].Owner, s))
}
}
```

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```
package licensing

import (
 "context"
 "crypto/hmac"
 "crypto/sha256"
 "encoding/base64"
 "encoding/json"
 "fmt"
 "time"

 "github.com/docker/libtrust"
 "github.com/docker/licensing/lib/errors"
 "github.com/docker/licensing/lib/go-clientlib"
 "github.com/docker/licensing/model"
)

func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {
 url := c.baseURI
 url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)

 license := new(model.IssuedLicense)
 if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
  return nil, err
 }

 return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
```

```
keyID := license.KeyID
privateKey := license.PrivateKey

authorization, err := c.getAuthorization(ctx, license)
if err != nil {
 return nil, err
}

// TODO: Mason - replace this parseJWS with a non libtrust lib
signature, err := libtrust.ParseJWS(authorization)
if err != nil {
 return nil, errors.Wrapf(err, errors.Fields{
  "key_id": keyID,
 }, "license parse JWS failed")
}

keys, err := signature.Verify()
if err != nil {
 return nil, errors.Wrapf(err, errors.Fields{
  "key_id": keyID,
 }, "license signature verification failed")
}

keyCnt := len(keys)
if keyCnt != 1 {
 err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
 return nil, errors.WithStack(err).With(errors.Fields{
  "key_id": keyID,
 })
}

key := keys[0]

if !c.recognizedSigningKey(key) {
 return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
 return nil, errors.Wrapf(err, errors.Fields{
  "key_id": keyID,
 }, "malformed signature payload")
}

checkRes := new(model.CheckResponse)

err = json.Unmarshal(payload, &checkRes)
if err != nil {
```

```
 return nil, errors.Wrapf(err, errors.Fields{
  "key_id": keyID,
 }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
 return nil, errors.Wrap(err, errors.Fields{
  "key_id": keyID,
 })
}

return checkRes, nil
}

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
 for _, publicKey := range c.publicKeys {
  if key.KeyID() == publicKey.KeyID() {
   return true
  }
 }
 return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
 decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
 if err != nil {
  return nil, errors.Wrapf(err, errors.Fields{
   "key_id": license.KeyID,
  }, "decoding license authorization failed")
 }
 return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
 tokenBytes, err := base64.URLEncoding.DecodeString(token)
 if err != nil {
  return errors.Wrap(err, errors.Fields{"token": token})
 }
```

```
 generatedToken, err := generateToken(message, privateKey)
 if err != nil {
  return errors.Wrap(err, errors.Fields{"token": token})
 }

 generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
 if err != nil {
  return errors.Wrap(err, errors.Fields{"token": token})
 }

 if !hmac.Equal(tokenBytes, generatedBytes) {
  return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
 }

 return nil
}

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
 key, err := base64.URLEncoding.DecodeString(privateKey)
 if err != nil {
  return "", errors.Wrap(err, errors.Fields{"msg": message})
 }

 h := hmac.New(sha256.New, key)
 h.Write([]byte(message))
 return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}
```

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package model

import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed
// json blob.
type CheckResponse struct {
 Expiration      time.Time `json:"expiration"`
 Token           string    `json:"token"`
 MaxEngines      int       `json:"maxEngines"`
 ScanningEnabled bool      `json:"scanningEnabled"`
 Type            string    `json:"licenseType"`
 Tier            string    `json:"tier"`
}

// IssuedLicense represents an issued license
type IssuedLicense struct {
 KeyID         string `json:"key_id"`
 PrivateKey    string `json:"private_key"`
 Authorization string `json:"authorization"`
}

// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
 if l.KeyID == "" {
  return false, "empty key_id"
 }

 if l.PrivateKey == "" {
  return false, "empty private_key"
```

```
 }

 if l.Authorization == "" {
  return false, "empty authorization"
 }

 return true, ""
}
```

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```
package engine

import (
 "time"

 "github.com/docker/cli/cli/command/formatter"
 "github.com/docker/cli/internal/licenseutils"
 "github.com/docker/licensing/model"
)

const (
 defaultSubscriptionsTableFormat = "table
{{.Num}}\t{{.Owner}}\t{{.ProductID}}\t{{.Expires}}\t{{.ComponentsString}}"
 defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"

 numHeader              = "NUM"
 ownerHeader            = "OWNER"
 licenseNameHeader      = "NAME"
 idHeader               = "ID"
 dockerIDHeader         = "DOCKER ID"
 productIDHeader        = "PRODUCT ID"
 productRatePlanHeader  = "PRODUCT RATE PLAN"
 productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
 startHeader            = "START"
 expiresHeader          = "EXPIRES"
 stateHeader            = "STATE"
 eusaHeader             = "EUSA"
 pricingComponentsHeader = "PRICING COMPONENTS"
)

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
 switch source {
 case formatter.TableFormatKey:
  if quiet {
   return defaultSubscriptionsQuietFormat
  }
```

```
 return defaultSubscriptionsTableFormat
 case formatter.RawFormatKey:
  if quiet {
   return `license: {{.ID}}`
  }
  return `license: {{.ID}}\nname: {{.Name}}\nowner: {{.Owner}}\ncomponents: {{.ComponentsString}}\n`
 }
 return formatter.Format(source)
}

// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
 render := func(format func(subContext formatter.SubContext) error) error {
  for _, sub := range subs {
   licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
   if err := format(licenseCtx); err != nil {
    return err
   }
  }
  return nil
 }
 licenseCtx := licenseContext{}
 licenseCtx.Header = map[string]string{
  "Num":              numHeader,
  "Owner":            ownerHeader,
  "Name":             licenseNameHeader,
  "ID":               idHeader,
  "DockerID":         dockerIDHeader,
  "ProductID":        productIDHeader,
  "ProductRatePlan":   productRatePlanHeader,
  "ProductRatePlanID": productRatePlanIDHeader,
  "Start":            startHeader,
  "Expires":          expiresHeader,
  "State":            stateHeader,
  "Eusa":             eusaHeader,
  "ComponentsString":  pricingComponentsHeader,
 }
 return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
 formatter.HeaderContext
 trunc bool
 l     licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
 return formatter.MarshalJSON(c)
```

```
}

func (c *licenseContext) Num() int {
 return c.l.Num
}

func (c *licenseContext) Owner() string {
 return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
 return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
 return c.l.String()
}

func (c *licenseContext) Name() string {
 return c.l.Name
}

func (c *licenseContext) ID() string {
 return c.l.ID
}

func (c *licenseContext) DockerID() string {
 return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
 return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
 return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
 return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
 return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
 return c.l.Expires
```

```
}

func (c *licenseContext) State() string {
 return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
 return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
 // Dereference the pricing component pointers in the pricing components
 // so it can be rendered properly with the template formatter

 var ret []model.SubscriptionPricingComponent
 for _, spc := range c.l.PricingComponents {
  if spc == nil {
   continue
  }
  ret = append(ret, *spc)
 }
 return ret
}
```

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1.436 buffer-xor 1.0.3

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1.437 cached-property 1.4.3

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1.438 liblogging 1.0.6

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1.439 babel-plugin-transform-regenerator 6.26.0

1.440 color-convert 1.9.1

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1.441 graceful-fs 4.1.11

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1.442 chalk 2.3.2

1.442.1 Available under license :

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1.443 babel-traverse 6.26.0

1.444 diffie-hellman 5.0.3

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1.445 appdirs 1.4.3

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1.446 loose-envify 1.3.1

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1.447 python3-asn1crypto 0.24.0-1.ph3

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1.448 xlrd 1.1.0

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1.449 django-import-export 1.0.1

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1.450 postcss-modules-scope 1.1.0

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1.451 ms 2.0.0

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1.452 python-backports-ssl-match-hostname 3.5.0.1

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1.453 fdisk 2.35.1

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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(For example, a function in a library to compute square roots has

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1.458 packaging 16.8-4.ph2

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1.460 babel-plugin-transform-es2015-object-super 6.24.1

1.461 user-home 1.1.1

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1.462 libdnet 1.11

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1.463 python 3.8.2

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A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)

0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.464 postcss 6.0.21

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1.465 source-map 0.5.7

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1.466 postcss-modules-local-by-default 1.2.0

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1.467 uri-js 4.2.2

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*
* http://docs.jquery.com/QUnit
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* Date: 5/15/2008
* @projectDescription Advanced and extensible data dumping for Javascript.
* @version 1.0.0
* @author Ariel Flesler
* @link {http://flesler.blogspot.com/2008/05/jsdump-pretty-dump-of-any-javascript.html}
*/
```

Found in path(s):
* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/tests/qunit.js
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URI.js

URI.js is an [RFC 3986](http://www.ietf.org/rfc/rfc3986.txt) compliant, scheme extendable URI parsing/validating/resolving library for all JavaScript environments (browsers, Node.js, etc).
It is also compliant with the IRI ([RFC 3987](http://www.ietf.org/rfc/rfc3987.txt)), IDNA ([RFC 5890](http://www.ietf.org/rfc/rfc5890.txt)), IPv6 Address ([RFC 5952](http://www.ietf.org/rfc/rfc5952.txt)), IPv6 Zone Identifier ([RFC 6874](http://www.ietf.org/rfc/rfc6874.txt)) specifications.

URI.js has an extensive test suite, and works in all (Node.js, web) environments. It weighs in at 6.2kb (gzipped, 16kb deflated).

API

Parsing

```
URI.parse("uri://user:pass@example.com:123/one/two.three?q1=a1&q2=a2#body");
//returns:
//{
//  scheme : "uri",
//  userinfo : "user:pass",
//  host : "example.com",
//  port : 123,
//  path : "/one/two.three",
//  query : "q1=a1&q2=a2",
//  fragment : "body"
//}
```

Serializing

```
URI.serialize({scheme : "http", host : "example.com", fragment : "footer"}) === "http://example.com/#footer"
```

Resolving

```
URI.resolve("uri://a/b/c/d?q", "../../g") === "uri://a/g"
```

Normalizing

```
URI.normalize("HTTP://ABC.com:80/%7Esmith/home.html") === "http://abc.com/~smith/home.html"
```

Comparison

```
URI.equal("example://a/b/c/%7Bfoo%7D", "eXAMPLE://a/./b/../b/%63/%7bfoo%7d") === true
```

IP Support

```
//IPv4 normalization
URI.normalize("//192.068.001.000") === "//192.68.1.0"

//IPv6 normalization
URI.normalize("//[2001:0:0DB8::0:0001]") === "//[2001:0:db8::1]"

//IPv6 zone identifier support
URI.parse("//[2001:db8::7%25en1]");
//returns:
//{
//  host : "2001:db8::7%en1"
//}
```

IRI Support

```
//convert IRI to URI
URI.serialize(URI.parse("http://exampl.org/ros")) === "http://xn--exampl-gva.org/ros%C3%A9"
//convert URI to IRI
URI.serialize(URI.parse("http://xn--exampl-gva.org/ros%C3%A9"), {iri:true}) === "http://exampl.org/ros"
```

Options

All of the above functions can accept an additional options argument that is an object that can contain one or more of the following properties:

* `scheme` (string)

  Indicates the scheme that the URI should be treated as, overriding the URI's normal scheme parsing behavior.

* `reference` (string)

  If set to `"suffix"`, it indicates that the URI is in the suffix format, and the validator will use the option's `scheme` property to determine the URI's scheme.

* `tolerant` (boolean, false)

  If set to `true`, the parser will relax URI resolving rules.

* `absolutePath` (boolean, false)

  If set to `true`, the serializer will not resolve a relative `path` component.

* `iri` (boolean, false)

  If set to `true`, the serializer will unescape non-ASCII characters as per [RFC 3987](http://www.ietf.org/rfc/rfc3987.txt).

* `unicodeSupport` (boolean, false)

 If set to `true`, the parser will unescape non-ASCII characters in the parsed output as per [RFC 3987](http://www.ietf.org/rfc/rfc3987.txt).

* `domainHost` (boolean, false)

 If set to `true`, the library will treat the `host` component as a domain name, and convert IDNs (International Domain Names) as per [RFC 5891](http://www.ietf.org/rfc/rfc5891.txt).

Scheme Extendable

URI.js supports inserting custom [scheme](http://en.wikipedia.org/wiki/URI_scheme) dependent processing rules. Currently, URI.js has built in support for the following schemes:

* http \[[RFC 2616](http://www.ietf.org/rfc/rfc2616.txt)\]
* https \[[RFC 2818](http://www.ietf.org/rfc/rfc2818.txt)\]
* mailto \[[RFC 6068](http://www.ietf.org/rfc/rfc6068.txt)\]
* urn \[[RFC 2141](http://www.ietf.org/rfc/rfc2141.txt)\]
* urn:uuid \[[RFC 4122](http://www.ietf.org/rfc/rfc4122.txt)\]

HTTP Support

```
URI.equal("HTTP://ABC.COM:80", "http://abc.com/") === true
```

Mailto Support

```
URI.parse("mailto:alpha@example.com,bravo@example.com?subject=SUBSCRIBE&body=Sign%20me%20up!");
//returns:
//{
// scheme : "mailto",
// to : ["alpha@example.com", "bravo@example.com"],
// subject : "SUBSCRIBE",
// body : "Sign me up!"
//}

URI.serialize({
 scheme : "mailto",
 to : ["alpha@example.com"],
 subject : "REMOVE",
 body : "Please remove me",
 headers : {
  cc : "charlie@example.com"
 }
}) ===
"mailto:alpha@example.com?cc=charlie@example.com&subject=REMOVE&body=Please%20remove%20me"
```

URN Support

```
URI.parse("urn:example:foo");
//returns:
//{
// scheme : "urn",
// nid : "example",
// nss : "foo",
//}
```

URN UUID Support

```
URI.parse("urn:uuid:f81d4fae-7dec-11d0-a765-00a0c91e6bf6");
//returns:
//{
// scheme : "urn",
// nid : "example",
// uuid : "f81d4fae-7dec-11d0-a765-00a0c91e6bf6",
//}
```

Usage

To load in a browser, use the following tag:

```
<script type="text/javascript" src="uri-js/dist/es5/uri.all.min.js"></script>
```

To load in a CommonJS (Node.js) environment, first install with npm by running on the command line:

```
npm install uri-js
```

Then, in your code, load it using:

```
const URI = require("uri-js");
```

If you are writing your code in ES6+ (ESNEXT) or TypeScript, you would load it using:

```
import * as URI from "uri-js";
```

Or you can load just what you need using named exports:

```
import { parse, serialize, resolve, resolveComponents, normalize, equal, removeDotSegments, pctEncChar,
pctDecChars, escapeComponent, unescapeComponent } from "uri-js";
```

Breaking changes

Breaking changes from 3.x

URN parsing has been completely changed to better align with the specification. Scheme is now always `urn`, but

has two new properties: `nid` which contains the Namspace Identifier, and `nss` which contains the Namespace Specific String. The `nss` property will be removed by higher order scheme handlers, such as the UUID URN scheme handler.

The UUID of a URN can now be found in the `uuid` property.

Breaking changes from 2.x

URI validation has been removed as it was slow, exposed a vulnerabilty, and was generally not useful.

Breaking changes from 1.x

The `errors` array on parsed components is now an `error` string.

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/** @license URI.js v4.2.1 (c) 2011 Gary Court. License: http://github.com/garycourt/uri-js */

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EACQiI,GAAO9L,QAAU8L,GAEzBjI,EACQkI,GAAI/L,QAAU+L,GAEtBlI,EACQ+H,GAAK5L,QAAU4L","file
":"dist/es5/uri.all.min.js","sourcesContent":["export function merge(...sets:Array<string>):string {\n\tif (sets.length
> 1) {\n\t\tsets[0] = sets[0].slice(0, -1);\n\t\tconst xl = sets.length - 1;\n\t\tfor (let x = 1; x < xl; ++x) {\n\t\t\tsets[x] =
sets[x].slice(1, -1);\n\t\t}\n\t\tsets[xl] = sets[xl].slice(1);\n\t\treturn sets.join(");\n\t} else {\n\t\treturn
sets[0];\n\t}\n}\n\nexport function subexp(str:string):string {\n\treturn \"(?:\" + str + \")\";\n}\n\nexport function
typeOf(o:any):string {\n\treturn o === undefined ? \"undefined\" : (o === null ? \"null\" :
Object.prototype.toString.call(o).split(\" \").pop().split(\"]\").shift().toLowerCase());\n}\n\nexport function
toUpperCase(str:string):string {\n\treturn str.toUpperCase();\n}\n\nexport function toArray(obj:any):Array<any>
{\n\treturn obj !== undefined && obj !== null ? (obj instanceof Array ? obj : (typeof obj.length !== \"number\" ||
obj.split || obj.setInterval || obj.call ? [obj] : Array.prototype.slice.call(obj))) : [];\n}\n\n\nexport function
assign(target: object, source: any): any {\n\tconst obj = target as any;\n\tif (source) {\n\t\tfor (const key in source)
{\n\t\t\tobj[key] = source[key];\n\t\t}\n\t}\n\treturn obj;\n}","import { URIRegExps } from \"./uri\";\nimport {
merge, subexp } from \"./util\";\n\nexport function buildExps(isIRI:boolean):URIRegExps {\n\tconst\n\t\tALPHA$$
= \"[A-Za-z]\",\n\t\tCR$ = \"[\\\\x0D]\",\n\t\tDIGIT$$ = \"[0-9]\",\n\t\tDQUOTE$$ = \"[\\\\x22]\",\n\t\tHEXDIG$$ =
merge(DIGIT$$, \"[A-Fa-f]\"), //case-insensitive\n\t\tLF$$ = \"[\\\\x0A]\",\n\t\tSP$$ =
\"[\\\\x20]\",\n\t\tPCT_ENCODED$ = subexp(subexp(\"%[EFef]\" + HEXDIG$$ + \"%\" + HEXDIG$$ +
HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$) + \"|\" + subexp(\"%[89A-Fa-f]\" + HEXDIG$$ + \"%\" +
HEXDIG$$ + HEXDIG$$) + \"|\" + subexp(\"%\" + HEXDIG$$ + HEXDIG$$)),
//expanded\n\t\tGEN_DELIMS$$ = \"[\\\\:\\\\/\\\\?\\\\#\\\\[\\\\]\\\\@]\",\n\t\tSUB_DELIMS$$ =
\"[\\\\!\\\\$\\\\&\\\\'\\\\(\\\\)*\\\\+\\\\,\\\\;\\\\=]\",\n\t\tRESERVED$$ = merge(GEN_DELIMS$$,
SUB_DELIMS$$),\n\t\tUCSCHAR$$ = isIRI ? \"[\\\\xA0-\\\\u200D\\\\u2010-\\\\u2029\\\\u202F-
\\\\uD7FF\\\\uF900-\\\\uFDCF\\\\uFDF0-\\\\uFFEF]\" : \"[]\", //subset, excludes bidi control
characters\n\t\tIPRIVATE$$ = isIRI ? \"[\\\\uE000-\\\\uF8FF]\" : \"[]\", //subset\n\t\tUNRESERVED$$ =
merge(ALPHA$$, DIGIT$$, \"[\\\\-\\\\._\\\\~]\", UCSCHAR$$),\n\t\tSCHEME$ = subexp(ALPHA$$ +
merge(ALPHA$$, DIGIT$$, \"[\\\\+\\\\-\\\\.]\") + \"*\"),\n\t\tUSERINFO$ = subexp(subexp(PCT_ENCODED$ +
\"|\" + merge(UNRESERVED$$, SUB_DELIMS$$, \"[\\\\:]\")) + \"*\"),\n\t\tDEC_OCTET$ =
subexp(subexp(\"25[0-5]\") + \"|\" + subexp(\"2[0-4]\" + DIGIT$$) + \"|\" + subexp(\"1\" + DIGIT$$ + DIGIT$$) +
\"|\" + subexp(\"[1-9]\" + DIGIT$$) + \"|\" + DIGIT$$),\n\t\tDEC_OCTET_RELAXED$ = subexp(subexp(\"25[0-
5]\") + \"|\" + subexp(\"2[0-4]\" + DIGIT$$) + \"|\" + subexp(\"1\" + DIGIT$$ + DIGIT$$) + \"|\" + subexp(\"0?[1-
9]\" + DIGIT$$) + \"|0?0?\" + DIGIT$$), //relaxed parsing rules\n\t\tIPV4ADDRESS$ =
subexp(DEC_OCTET_RELAXED$ + \"\\\\.\" + DEC_OCTET_RELAXED$ + \"\\\\.\" +
DEC_OCTET_RELAXED$ + \"\\\\.\" + DEC_OCTET_RELAXED$),\n\t\tH16$ = subexp(HEXDIG$$ +
\"{1,4}\"),\n\t\tLS32$ = subexp(subexp(H16$ + \"\\\\:\" + H16$) + \"|\" + IPV4ADDRESS$),\n\t\tIPV6ADDRESS1$
= subexp(subexp(H16$ + \"\\\\:\") + \"{6}\" + LS32$), // 6(
h16 \":\") ls32\n\t\tIPV6ADDRESS2$ = subexp(\"\\\\:\\\\:\" + subexp(H16$ + \"\\\\:\")

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+ \"{5}\" + LS32$), //                    \"::\" 5( h16 \":\" ) ls32\n\t\tIPV6ADDRESS3$ = subexp(subexp(
    H16$) + \"?\\\\:\\\\:\" + subexp(H16$ + \"\\\\:\") + \"{4}\" + LS32$), //[              h16 ] \"::\" 4( h16 \":\" )
ls32\n\t\tIPV6ADDRESS4$ = subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,1}\" + H16$) + \"?\\\\:\\\\:\" +
subexp(H16$ + \"\\\\:\") + \"{3}\" + LS32$), //[ *1( h16 \":\" ) h16 ] \"::\" 3( h16 \":\" ) ls32\n\t\tIPV6ADDRESS5$
= subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,2}\" + H16$) + \"?\\\\:\\\\:\" + subexp(H16$ + \"\\\\:\") + \"{2}\" +
LS32$), //[ *2( h16 \":\" ) h16 ] \"::\" 2( h16 \":\" ) ls32\n\t\tIPV6ADDRESS6$ = subexp(subexp(subexp(H16$ +
\"\\\\:\") + \"{0,3}\" + H16$) + \"?\\\\:\\\\:\" +        H16$ + \"\\\\:\"          + LS32$), //[ *3( h16 \":\" ) h16 ] \"::\"    h16
\":\"   ls32\n\t\tIPV6ADDRESS7$ = subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,4}\" + H16$) + \"?\\\\:\\\\:\"
                    + LS32$), //[ *4( h16 \":\" ) h16 ] \"::\"             ls32\n\t\tIPV6ADDRESS8$ =
subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,5}\" + H16$) + \"?\\\\:\\\\:\"                          + H16$ ), //[ *5( h16
\":\" ) h16 ] \"::\"             h16\n\t\tIPV6ADDRESS9$ = subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,6}\" + H16$)
+ \"?\\\\:\\\\:\"                                ), //[ *6( h16 \":\" ) h16 ] \"::\"\n\t\tIPV6ADDRESS$ =
subexp([IPV6ADDRESS1$, IPV6ADDRESS2$, IPV6ADDRESS3$, IPV6ADDRESS4$, IPV6ADDRESS5$,
IPV6ADDRESS6$, IPV6ADDRESS7$, IPV6ADDRESS8$, IPV6ADDRESS9$].join(\"|\")),\n\t\tZONEID$ =
subexp(subexp(UNRESERVED$$ + \"|\" + PCT_ENCODED$) + \"+\"),  //RFC 6874\n\t\tIPV6ADDRZ$ =
subexp(IPV6ADDRESS$ + \"\\\\%25\" + ZONEID$),  //RFC 6874\n\t\tIPV6ADDRZ_RELAXED$ =
subexp(IPV6ADDRESS$ + subexp(\"\\\\%25|\\\\%(?!\" + HEXDIG$$ + \"{2})\") + ZONEID$),  //RFC 6874, with
relaxed parsing rules\n\t\tIPVFUTURE$ = subexp(\"[vV]\" + HEXDIG$$ + \"+\\\\.\" + merge(UNRESERVED$$,
SUB_DELIMS$$, \"[\\\\:]\") + \"+\"),\n\t\tIP_LITERAL$ = subexp(\"\\\\[\" + subexp(IPV6ADDRZ_RELAXED$ +
\"|\" + IPV6ADDRESS$ + \"|\" + IPVFUTURE$) + \"\\\\]\"),  //RFC 6874\n\t\tREG_NAME$ =
subexp(subexp(PCT_ENCODED$ + \"|\" + merge(UNRESERVED$$, SUB_DELIMS$$)) + \"*\"),\n\t\tHOST$ =
subexp(IP_LITERAL$ + \"|\" + IPV4ADDRESS$ + \"(?!\" + REG_NAME$ + \")\" + \"|\" +
REG_NAME$),\n\t\tPORT$ = subexp(DIGIT$$ + \"*\"),\n\t\tAUTHORITY$ = subexp(subexp(USERINFO$ +
\"@\") + \"?\" + HOST$ + subexp(\"\\\\:\" + PORT$) + \"?\"),\n\t\tPCHAR$ = subexp(PCT_ENCODED$ + \"|\" +
merge(UNRESERVED$$, SUB_DELIMS$$, \"[\\\\:\\\\@]\")),\n\t\tSEGMENT$ = subexp(PCHAR$ +
\"*\"),\n\t\tSEGMENT_NZ$ = subexp(PCHAR$ + \"+\"),\n\t\tSEGMENT_NZ_NC$ =
subexp(subexp(PCT_ENCODED$ + \"|\" + merge(UNRESERVED$$, SUB_DELIMS$$, \"[\\\\@]\")) +
\"+\"),\n\t\tPATH_ABEMPTY$ = subexp(subexp(\"\\\\/\" + SEGMENT$) + \"*\"),\n\t\tPATH_ABSOLUTE$ =
subexp(\"\\\\/\" + subexp(SEGMENT_NZ$ + PATH_ABEMPTY$) + \"?\"),  //simplified\n\t\tPATH_NOSCHEME$
= subexp(SEGMENT_NZ_NC$ + PATH_ABEMPTY$),  //simplified\n\t\tPATH_ROOTLESS$ =
subexp(SEGMENT_NZ$ + PATH_ABEMPTY$),  //simplified\n\t\tPATH_EMPTY$ = \"(?!\" + PCHAR$ +
\")\",\n\t\tPATH$ = subexp(PATH_ABEMPTY$ + \"|\" + PATH_ABSOLUTE$ + \"|\" + PATH_NOSCHEME$ +
\"|\" + PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$),\n\t\tQUERY$ = subexp(subexp(PCHAR$ + \"|\" +
merge(\"[\\\\/\\\\?]\", IPRIVATE$$)) + \"*\"),\n\t\tFRAGMENT$ = subexp(subexp(PCHAR$ + \"|[\\\\/\\\\?]\") +
\"*\"),\n\t\tHIER_PART$ = subexp(subexp(\"\\\\/\\\\/\" + AUTHORITY$ + PATH_ABEMPTY$) + \"|\" +
PATH_ABSOLUTE$ + \"|\" + PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$),\n\t\tURI$ = subexp(SCHEME$ +
\"\\\\:\" + HIER_PART$ + subexp(\"\\\\?\" + QUERY$) + \"?\" + subexp(\"\\\\#\" + FRAGMENT$) +
\"?\"),\n\t\tRELATIVE_PART$ = subexp(subexp(\"\\\\/\\\\/\" + AUTHORITY$ + PATH_ABEMPTY$) + \"|\" +
PATH_ABSOLUTE$ + \"|\" + PATH_NOSCHEME$ + \"|\" + PATH_EMPTY$),\n\t\tRELATIVE$ =
subexp(RELATIVE_PART$ + subexp(\"\\\\?\" + QUERY$) + \"?\" + subexp(\"\\\\#\" + FRAGMENT$) +
\"?\"),\n\t\tURI_REFERENCE$ = subexp(URI$ + \"|\" + RELATIVE$),\n\t\tABSOLUTE_URI$ =
subexp(SCHEME$ + \"\\\\:\" + HIER_PART$ + subexp(\"\\\\?\" + QUERY$) + \"?\"),\n\n\t\tGENERIC_REF$ =
\"^(\" + SCHEME$ + \")\\\\:\" + subexp(subexp(\"\\\\/\\\\/(\" + subexp(\"(\" + USERINFO$ + \")@\") + \"?(\" +
HOST$ + \")\" + subexp(\"\\\\:(\" + PORT$ + \")\") + \"?)\") + \"?(\" + PATH_ABEMPTY$ + \"|\" +
PATH_ABSOLUTE$ + \"|\" + PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$ + \")\") + subexp(\"\\\\?(\" +
QUERY$ + \")\") + \"?\" + subexp(\"\\\\#(\" + FRAGMENT$ + \")\") + \"?$\",\n\t\tRELATIVE_REF$ = \"^(){0}\" +
subexp(subexp(\"\\\\/\\\\/(\" + subexp(\"(\" + USERINFO$ + \")@\") + \"?(\" + HOST$ + \")\" + subexp(\"\\\\:(\" +
PORT$ + \")\") + \"?)\") + \"?(\" + PATH_ABEMPTY$ + \"|\" + PATH_ABSOLUTE$ + \"|\" +
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PATH_NOSCHEME$ + \"|\" + PATH_EMPTY$ + \")\") + subexp(\"\\\\?(\" + QUERY$ + \")\") + \"?\" + subexp(\"\\\\#(\" + FRAGMENT$ + \")\") + \"?$\",\n\t\tABSOLUTE_REF$ = \"^(\" + SCHEME$ + \")\\\\:\" + subexp(subexp(\"\\\\/\\\\/(\" + subexp(\"(\" + USERINFO$ + \")@\") + \"?(\" + HOST$ + \")\" + subexp(\"\\\\:(\" + PORT$ + \")\") + \"?)\") + \"?(\" + PATH_ABEMPTY$ + \"|\" + PATH_ABSOLUTE$ + \"|\" + PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$ + \")\") + subexp(\"\\\\?(\" + QUERY$ + \")\") + \"?$\",\n\t\tSAMEDOC_REF$ = \"^\" + subexp(\"\\\\#(\" + FRAGMENT$ + \")\") + \"?$\",\n\t\tAUTHORITY_REF$ = \"^\" + subexp(\"(\" + USERINFO$ + \")@\") + \"?(\" + HOST$ + \")\" + subexp(\"\\\\:(\" + PORT$ + \")\") + \"?$\"\n\t;\n\n\treturn {\n\t\tNOT_SCHEME : new RegExp(merge(\"[^]\", ALPHA$$, DIGIT$$, \"[\\\\+\\\\-\\\\.]\"), \"g\"),\n\t\tNOT_USERINFO : new RegExp(merge(\"[^\\\\%\\\\:]\", UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tNOT_HOST : new RegExp(merge(\"[^\\\\%\\\\[\\\\]\\\\:]\", UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tNOT_PATH : new RegExp(merge(\"[^\\\\%\\\\/\\\\:\\\\@]\", UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tNOT_PATH_NOSCHEME : new RegExp(merge(\"[^\\\\%\\\\/\\\\@]\", UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tNOT_QUERY : new RegExp(merge(\"[^\\\\%]\", UNRESERVED$$, SUB_DELIMS$$, \"[\\\\:\\\\@\\\\/\\\\?]\", IPRIVATE$$), \"g\"),\n\t\tNOT_FRAGMENT : new RegExp(merge(\"[^\\\\%]\", UNRESERVED$$, SUB_DELIMS$$, \"[\\\\:\\\\@\\\\/\\\\?]\"), \"g\"),\n\t\tESCAPE : new RegExp(merge(\"[^]\", UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tUNRESERVED : new RegExp(UNRESERVED$$, \"g\"),\n\t\tOTHER_CHARS : new RegExp(merge(\"[^\\\\%]\", UNRESERVED$$, RESERVED$$), \"g\"),\n\t\tPCT_ENCODED : new RegExp(PCT_ENCODED$, \"g\"),\n\t\tIPV4ADDRESS : new RegExp(\"^(\" + IPV4ADDRESS$ + \")$\"),\n\t\tIPV6ADDRESS : new RegExp(\"^\\\\[?(\" + IPV6ADDRESS$ + \")\" + subexp(subexp(\"\\\\%25|\\\\%(?!\" + HEXDIG$$ + \"{2})\") + \"(\" + ZONEID$ + \")\") + \"?\\\\]?$\") //RFC 6874, with relaxed parsing rules\n\t};\n}\n\nexport default buildExps(false);\n\n'"use strict';\n\n/** Highest positive signed 32-bit float value */\nconst maxInt = 2147483647; // aka. 0x7FFFFFFF or 2^31-1\n\n/** Bootstring parameters */\nconst base = 36;\nconst tMin = 1;\nconst tMax = 26;\nconst skew = 38;\nconst damp = 700;\nconst initialBias = 72;\nconst initialN = 128; // 0x80\nconst delimiter = '-'; // '\\x2D'\n\n/** Regular expressions */\nconst regexPunycode = /^xn--/;\nconst regexNonASCII = /[^\\0-\\x7E]/; // non-ASCII chars\nconst regexSeparators = /[\\x2E\\u3002\\uFF0E\\uFF61]/g; // RFC 3490 separators\n\n/** Error messages */\nconst errors = {\n\t'overflow': 'Overflow: input needs wider integers to process',\n\t'not-basic': 'Illegal input >= 0x80 (not a basic code point)',\n\t'invalid-input': 'Invalid input'\n};\n\n/** Convenience shortcuts */\nconst baseMinusTMin = base - tMin;\nconst floor = Math.floor;\nconst stringFromCharCode = String.fromCharCode;\n\n/*--*/\n\n/**\n * A generic error utility function.\n * @private\n * @param {String} type The error type.\n * @returns {Error} Throws a `RangeError` with the applicable error message.\n */\nfunction error(type) {\n\tthrow new RangeError(errors[type]);\n}\n\n/**\n * A generic `Array#map` utility function.\n * @private\n * @param {Array} array The array to iterate over.\n * @param {Function} callback The function that gets called for every array\n * item.\n * @returns {Array} A new array of values returned by the callback function.\n */\nfunction map(array, fn) {\n\tconst result = [];\n\tlet length = array.length;\n\twhile (length--) {\n\t\tresult[length] = fn(array[length]);\n\t}\n\treturn result;\n}\n\n/**\n * A simple `Array#map`-like wrapper to work with domain name strings or email\n * addresses.\n * @private\n * @param {String} domain The domain name or email address.\n * @param {Function} callback The function that gets called for every\n * character.\n * @returns {Array} A new string of characters returned by the callback\n * function.\n */\nfunction mapDomain(string, fn) {\n\tconst parts = string.split('@');\n\tlet result = '';\n\tif (parts.length > 1) {\n\t\t// In email addresses, only the domain name should be punycoded. Leave\n\t\t// the local part (i.e. everything up to `@`) intact.\n\t\tresult = parts[0] + '@';\n\t\tstring = parts[1];\n\t}\n\t// Avoid `split(regex)` for IE8 compatibility. See #17.\n\tstring = string.replace(regexSeparators, '\\x2E');\n\tconst labels = string.split('.');\n\tconst encoded = map(labels, fn).join('.');\n\treturn result + encoded;\n}\n\n/**\n * Creates an array containing the numeric code points of each Unicode\n * character in the string. While JavaScript uses UCS-2 internally,\n * this function will convert a pair of surrogate halves (each of which\n * UCS-2 exposes as separate characters) into a single code point,\n * matching UTF-16.\n * @see `punycode.ucs2.encode`\n * @see

<https://mathiasbynens.be/notes/javascript-encoding>\n * @memberOf punycode.ucs2\n * @name decode\n * @param {String} string The Unicode input string (UCS-2).\n * @returns {Array} The new array of code points.\n */\nfunction ucs2decode(string) {\n\tconst output = [];\n\tlet counter = 0;\n\tconst length = string.length;\n\twhile (counter < length) {\n\t\tconst value = string.charCodeAt(counter++);\n\t\tif (value >= 0xD800 && value <= 0xDBFF && counter < length) {\n\t\t\t// It's a high surrogate, and there is a next character.\n\t\t\tconst extra = string.charCodeAt(counter++);\n\t\t\tif ((extra & 0xFC00) == 0xDC00) { // Low surrogate.\n\t\t\t\toutput.push(((value & 0x3FF) << 10) + (extra & 0x3FF) + 0x10000);\n\t\t\t} else {\n\t\t\t\t// It's an unmatched surrogate; only append this code unit, in case the\n\t\t\t\t// next code unit is the high surrogate of a surrogate pair.\n\t\t\t\toutput.push(value);\n\t\t\t\tcounter--;\n\t\t\t}\n\t\t} else {\n\t\t\toutput.push(value);\n\t\t}\n\t}\n\treturn output;\n}\n\n/**\n * Creates a string based on an array of numeric code points.\n * @see `punycode.ucs2.decode`\n * @memberOf punycode.ucs2\n * @name encode\n * @param {Array} codePoints The array of numeric code points.\n * @returns {String} The new Unicode string (UCS-2).\n */\nconst ucs2encode = array => String.fromCodePoint(...array);\n\n/**\n * Converts a basic code point into a digit/integer.\n * @see `digitToBasic()`\n * @private\n * @param {Number} codePoint The basic numeric code point value.\n * @returns {Number} The numeric value of a basic code point (for use in\n * representing integers) in the range `0` to `base - 1`, or `base` if\n * the code point does not represent a value.\n */\nconst basicToDigit = function(codePoint) {\n\tif (codePoint - 0x30 < 0x0A) {\n\t\treturn codePoint - 0x16;\n\t}\n\tif (codePoint - 0x41 < 0x1A) {\n\t\treturn codePoint - 0x41;\n\t}\n\tif (codePoint - 0x61 < 0x1A) {\n\t\treturn codePoint - 0x61;\n\t}\n\treturn base;\n};\n\n/**\n * Converts a digit/integer into a basic code point.\n * @see `basicToDigit()`\n * @private\n * @param {Number} digit The numeric value of a basic code point.\n * @returns {Number} The basic code point whose value (when used for\n * representing integers) is `digit`, which needs to be in the range\n * `0` to `base - 1`. If `flag` is non-zero, the uppercase form is\n * used; else, the lowercase form is used. The behavior is undefined\n * if `flag` is non-zero and `digit` has no uppercase form.\n */\nconst digitToBasic = function(digit, flag) {\n\t// 0..25 map to ASCII a..z or A..Z\n\t// 26..35 map to ASCII 0..9\n\treturn digit + 22 + 75 * (digit < 26) - ((flag != 0) << 5);\n};\n\n/**\n * Bias adaptation function as per section 3.4 of RFC 3492.\n * https://tools.ietf.org/html/rfc3492#section-3.4\n * @private\n */\nconst adapt = function(delta, numPoints, firstTime) {\n\tlet k = 0;\n\tdelta = firstTime ? floor(delta / damp) : delta >> 1;\n\tdelta += floor(delta / numPoints);\n\tfor (/* no initialization */; delta > baseMinusTMin * tMax >> 1; k += base) {\n\t\tdelta = floor(delta / baseMinusTMin);\n\t}\n\treturn floor(k + (baseMinusTMin + 1) * delta / (delta + skew));\n};\n\n/**\n * Converts a Punycode string of ASCII-only symbols to a string of Unicode\n * symbols.\n * @memberOf punycode\n * @param {String} input The Punycode string of ASCII-only symbols.\n * @returns {String} The resulting string of Unicode symbols.\n */\nconst decode = function(input) {\n\t// Don't use UCS-2.\n\tconst output = [];\n\tconst inputLength = input.length;\n\tlet i = 0;\n\tlet n = initialN;\n\tlet bias = initialBias;\n\n\t// Handle the basic code points: let `basic` be the number of input code\n\t// points before the last delimiter, or `0` if there is none, then copy\n\t// the first basic code points to the output.\n\n\tlet basic = input.lastIndexOf(delimiter);\n\tif (basic < 0) {\n\t\tbasic = 0;\n\t}\n\n\tfor (let j = 0; j < basic; ++j) {\n\t\t// if it's not a basic code point\n\t\tif (input.charCodeAt(j) >= 0x80) {\n\t\t\terror('not-basic');\n\t\t}\n\t\toutput.push(input.charCodeAt(j));\n\t}\n\n\t// Main decoding loop: start just after the last delimiter if any basic code\n\t// points were copied; start at the beginning otherwise.\n\n\tfor (let index = basic > 0 ? basic + 1 : 0; index < inputLength; /* no final expression */) {\n\n\t\t// `index` is the index of the next character to be consumed.\n\t\t// Decode a generalized variable-length integer into `delta`,\n\t\t// which gets added to `i`. The overflow checking is easier\n\t\t// if we increase `i` as we go, then subtract off its starting\n\t\t// value at the end to obtain `delta`.\n\t\tlet oldi = i;\n\t\tfor (let w = 1, k = base; /* no condition */; k += base) {\n\n\t\t\tif (index >= inputLength) {\n\t\t\t\terror('invalid-input');\n\t\t\t}\n\n\t\tconst digit = basicToDigit(input.charCodeAt(index++));\n\n\t\tif (digit >= base || digit > floor((maxInt - i) / w)) {\n\t\t\terror('overflow');\n\t\t}\n\n\ti += digit * w;\n\t\tconst t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);\n\n\t\tif (digit < t) {\n\t\t\tbreak;\n\t\t}\n\n\tconst baseMinusT = base - t;\n\tif (w > floor(maxInt / baseMinusT)) {\n\t\t\terror('overflow');\n\t\t}\n\n\tw *= baseMinusT;\n\n\t}\n\n\tconst out = output.length + 1;\n\tbias = adapt(i - oldi, out, oldi == 0);\n\n\t// `i` was supposed to wrap around from `out` to `0`,\n\t//

incrementing `n` each time, so we'll fix that now:\n\t\tif (floor(i / out) > maxInt - n) {\n\t\t\terror('overflow');\n\t\t}\n\n\t\tn += floor(i / out);\n\t\ti %= out;\n\n\t\t// Insert `n` at position `i` of the output.\n\t\toutput.splice(i++, 0, n);\n\n\t}\n\n\treturn String.fromCodePoint(...output);\n};\n\n/**\n * Converts a string of Unicode symbols (e.g. a domain name label) to a\n * Punycode string of ASCII-only symbols.\n * @memberOf punycode\n * @param {String} input The string of Unicode symbols.\n * @returns {String} The resulting Punycode string of ASCII-only symbols.\n */\nconst encode = function(input) {\n\tconst output = [];\n\n\t// Convert the input in UCS-2 to an array of Unicode code points.\n\tinput = ucs2decode(input);\n\n\t// Cache the length.\n\tlet inputLength = input.length;\n\n\t// Initialize the state.\n\tlet n = initialN;\n\tlet delta = 0;\n\tlet bias = initialBias;\n\n\t// Handle the basic code points.\n\tfor (const currentValue of input) {\n\t\tif (currentValue < 0x80) {\n\t\t\toutput.push(stringFromCharCode(currentValue));\n\t\t}\n\t}\n\n\tlet basicLength = output.length;\n\tlet handledCPCount = basicLength;\n\n\t// `handledCPCount` is the number of code points that have been handled;\n\t// `basicLength` is the number of basic code points.\n\n\t// Finish the basic string with a delimiter unless it's empty.\n\tif (basicLength) {\n\t\toutput.push(delimiter);\n\t}\n\n\t// Main encoding loop:\n\twhile (handledCPCount < inputLength) {\n\n\t\t// All non-basic code points < n have been handled already. Find the next\n\t\t// larger one:\n\t\tlet m = maxInt;\n\t\tfor (const currentValue of input) {\n\t\t\tif (currentValue >= n && currentValue < m) {\n\t\t\t\tm = currentValue;\n\t\t\t}\n\t\t}\n\n\t\t// Increase `delta` enough to advance the decoder's <n,i> state to <m,0>,\n\t\t// but guard against overflow.\n\t\tconst handledCPCountPlusOne = handledCPCount + 1;\n\t\tif (m - n > floor((maxInt - delta) / handledCPCountPlusOne)) {\n\t\t\terror('overflow');\n\t\t}\n\n\t\tdelta += (m - n) * handledCPCountPlusOne;\n\t\tn = m;\n\n\t\tfor (const currentValue of input) {\n\t\t\tif (currentValue < n && ++delta > maxInt) {\n\t\t\t\terror('overflow');\n\t\t\t}\n\t\t\tif (currentValue == n) {\n\t\t\t\t// Represent delta as a generalized variable-length integer.\n\t\t\t\tlet q = delta;\n\t\t\t\tfor (let k = base; /* no condition */; k += base) {\n\t\t\t\t\tconst t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);\n\t\t\t\t\tif (q < t) {\n\t\t\t\t\t\tbreak;\n\t\t\t\t}\n\t\t\t\tconst qMinusT = q - t;\n\t\t\t\tconst baseMinusT = base - t;\n\t\t\t\toutput.push(\n\t\t\t\t\tstringFromCharCode(digitToBasic(t + qMinusT % baseMinusT, 0))\n\t\t\t);\n\t\t\tq = floor(qMinusT / baseMinusT);\n\t\t}\n\n\t\toutput.push(stringFromCharCode(digitToBasic(q, 0)));\n\t\tbias = adapt(delta, handledCPCountPlusOne, handledCPCount == basicLength);\n\t\tdelta = 0;\n\t\t++handledCPCount;\n\t}\n\t}\n\n\t++delta;\n\t++n;\n\n}\n\treturn output.join('');\n};\n\n/**\n * Converts a Punycode string representing a domain name or an email address\n * to Unicode. Only the Punycoded parts of the input will be converted, i.e.\n * it doesn't matter if you call it on a string that has already been\n * converted to Unicode.\n * @memberOf punycode\n * @param {String} input The Punycoded domain name or email address to\n * convert to Unicode.\n * @returns {String} The Unicode representation of the given Punycode\n * string.\n */\nconst toUnicode = function(input) {\n\treturn mapDomain(input, function(string) {\n\t\treturn regexPunycode.test(string)\n\t\t? decode(string.slice(4).toLowerCase())\n\t\t: string;\n\t});\n};\n\n/**\n * Converts a Unicode string representing a domain name or an email address to\n * Punycode. Only the non-ASCII parts of the domain name will be converted,\n * i.e. it doesn't matter if you call it with a domain that's already in\n * ASCII.\n * @memberOf punycode\n * @param {String} input The domain name or email address to convert, as a\n * Unicode string.\n * @returns {String} The Punycode representation of the given domain name or\n * email address.\n */\nconst toASCII = function(input) {\n\treturn mapDomain(input, function(string) {\n\t\treturn regexNonASCII.test(string)\n\t\t? 'xn--' + encode(string)\n\t\t: string;\n\t});\n};\n\n/*--*/\n\n/** Define the public API */\nconst punycode = {\n\t/**\n\t * A string representing the current Punycode.js version number.\n\t * @memberOf punycode\n\t * @type String\n\t */\n\t'version': '2.1.0',\n\t/**\n\t * An object of methods to convert from JavaScript's internal character\n\t * representation (UCS-2) to Unicode code points, and back.\n\t * @see <https://mathiasbynens.be/notes/javascript-encoding>\n\t * @memberOf punycode\n\t * @type Object\n\t */\n\t'ucs2': {\n\t\t'decode': ucs2decode,\n\t\t'encode': ucs2encode\n\t},\n\t'decode': decode,\n\t'encode': encode,\n\t'toASCII': toASCII,\n\t'toUnicode': toUnicode\n};\n\nexport default punycode;\n","/**\n * URI.js\n *\n * @fileoverview An RFC 3986 compliant, scheme extendable URI parsing/validating/resolving library for JavaScript.\n * @author <a

href=\"mailto:gary.court@gmail.com\">Gary Court\n * @see http://github.com/garycourt/uri-js\n */\n\n/**\n * Copyright 2011 Gary Court. All rights reserved.\n *\n * Redistribution and use in source and binary forms, with or without modification, are\n * permitted provided that the following conditions are met:\n *\n * 1. Redistributions of source code must retain the above copyright notice, this list of\n * conditions and the following disclaimer.\n *\n * 2. Redistributions in binary form must reproduce the above copyright notice, this list\n * of conditions and the following disclaimer in the documentation and/or other materials\n * provided with the distribution.\n *\n * THIS SOFTWARE IS PROVIDED BY GARY COURT ``AS IS'' AND ANY EXPRESS OR IMPLIED\n * WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND\n * FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL GARY COURT OR\n * CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR\n * CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR\n * SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON\n * ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING\n * NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF\n * ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.\n *\n * The views and conclusions contained in the software and documentation are those of the\n * authors and should not be interpreted as representing official policies, either expressed\n * or implied, of Gary Court.\n */\n\nimport URI_PROTOCOL from \"./regexps-uri\";\nimport IRI_PROTOCOL from \"./regexps-iri\";\nimport punycode from \"punycode\";\nimport { toUpperCase, typeOf, assign } from \"./util\";\n\nexport interface URIComponents {\n\tscheme?:string;\n\tuserinfo?:string;\n\thost?:string;\n\tport?:number|string;\n\tpath?:string;\n\tquery?:string;\n\tfragment?:string;\n\treference?:string;\n\terror?:string;\n}\n\nexport interface URIOptions {\n\tscheme?:string;\n\treference?:string;\n\ttolerant?:boolean;\n\tabsolutePath?:boolean;\n\tiri?:boolean;\n\tunicodeSupport?:boolean;\n\tdomainHost?:boolean;\n}\n\nexport interface URISchemeHandler<Components extends URIComponents = URIComponents, Options extends URIOptions = URIOptions, ParentComponents extends URIComponents = URIComponents> {\n\tscheme:string;\n\tparse(components:ParentComponents, options:Options):Components;\n\tserialize(components:Components, options:Options):ParentComponents;\n\tunicodeSupport?:boolean;\n\tdomainHost?:boolean;\n\tabsolutePath?:boolean;\n}\n\nexport interface URIRegExps {\n\tNOT_SCHEME : RegExp,\n\tNOT_USERINFO : RegExp,\n\tNOT_HOST : RegExp,\n\tNOT_PATH : RegExp,\n\tNOT_PATH_NOSCHEME : RegExp,\n\tNOT_QUERY : RegExp,\n\tNOT_FRAGMENT : RegExp,\n\tESCAPE : RegExp,\n\tUNRESERVED : RegExp,\n\tOTHER_CHARS : RegExp,\n\tPCT_ENCODED : RegExp,\n\tIPV4ADDRESS : RegExp,\n\tIPV6ADDRESS : RegExp,\n}\n\nexport const SCHEMES:{[scheme:string]:URISchemeHandler} = {};\n\nexport function pctEncChar(chr:string):string {\n\tconst c = chr.charCodeAt(0);\n\tlet e:string;\n\n\tif (c < 16) e = \"%0\" + c.toString(16).toUpperCase();\n\telse if (c < 128) e = \"%\" + c.toString(16).toUpperCase();\n\telse if (c < 2048) e = \"%\" + ((c >> 6) | 192).toString(16).toUpperCase() + \"%\" + ((c & 63) | 128).toString(16).toUpperCase();\n\telse e = \"%\" + ((c >> 12) | 224).toString(16).toUpperCase() + \"%\" + (((c >> 6) & 63) | 128).toString(16).toUpperCase() + \"%\" + ((c & 63) | 128).toString(16).toUpperCase();\n\n\treturn e;\n}\n\nexport function pctDecChars(str:string):string {\n\tlet newStr = \"\";\n\tlet i = 0;\n\tconst il = str.length;\n\n\twhile (i < il) {\n\t\tconst c = parseInt(str.substr(i + 1, 2), 16);\n\n\t\tif (c < 128) {\n\t\t\tnewStr += String.fromCharCode(c);\n\t\t\ti += 3;\n\t\t}\n\t\telse if (c >= 194 && c < 224) {\n\t\t\tif ((il - i) >= 6) {\n\t\t\t\tconst c2 = parseInt(str.substr(i + 4, 2), 16);\n\t\t\t\tnewStr += String.fromCharCode(((c & 31) << 6) | (c2 & 63));\n\t\t\t} else {\n\t\t\t\tnewStr += str.substr(i, 6);\n\t\t\t}\n\t\t\ti += 6;\n\t\t}\n\t\telse if (c >= 224) {\n\t\t\tif ((il - i) >= 9) {\n\t\t\t\tconst c2 = parseInt(str.substr(i + 4, 2), 16);\n\t\t\t\tconst c3 = parseInt(str.substr(i + 7, 2), 16);\n\t\t\t\tnewStr += String.fromCharCode(((c & 15) << 12) | ((c2 & 63) << 6) | (c3 & 63));\n\t\t\t} else {\n\t\t\t\tnewStr += str.substr(i, 9);\n\t\t\t}\n\t\t\ti += 9;\n\t\t}\n\t\telse {\n\t\t\tnewStr += str.substr(i, 3);\n\t\t\ti += 3;\n\t\t}\n\t}\n\n\treturn newStr;\n}\n\nfunction _normalizeComponentEncoding(components:URIComponents, protocol:URIRegExps) {\n\tfunction decodeUnreserved(str:string):string {\n\t\tconst decStr =

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pctDecChars(str);\n\t\treturn (!decStr.match(protocol.UNRESERVED) ? str : decStr);\n\t}\n\n\tif
(components.scheme) components.scheme = String(components.scheme).replace(protocol.PCT_ENCODED,
decodeUnreserved).toLowerCase().replace(protocol.NOT_SCHEME, \"\");\n\tif (components.userinfo !==
undefined) components.userinfo = String(components.userinfo).replace(protocol.PCT_ENCODED,
decodeUnreserved).replace(protocol.NOT_USERINFO, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\tif (components.host !== undefined) components.host =
String(components.host).replace(protocol.PCT_ENCODED,
decodeUnreserved).toLowerCase().replace(protocol.NOT_HOST, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\tif (components.path !== undefined) components.path =
String(components.path).replace(protocol.PCT_ENCODED, decodeUnreserved).replace((components.scheme ?
protocol.NOT_PATH : protocol.NOT_PATH_NOSCHEME), pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\tif (components.query !== undefined) components.query =
String(components.query).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_QUERY,
pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);\n\tif (components.fragment !== undefined)
components.fragment = String(components.fragment).replace(protocol.PCT_ENCODED,
decodeUnreserved).replace(protocol.NOT_FRAGMENT, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\n\treturn components;\n};\n\nfunction _stripLeadingZeros(str:string):string {\n\treturn
str.replace(/^0*(.*)/, \"$1\") || \"0\";\n}\n\nfunction _normalizeIPv4(host:string, protocol:URIRegExps):string
{\n\tconst matches = host.match(protocol.IPV4ADDRESS) || [];\n\tconst [, address] = matches;\n\t\n\tif (address)
{\n\t\treturn address.split(\".\").map(_stripLeadingZeros).join(\".\");\n\t} else {\n\t\treturn host;\n\t}\n}\n\nfunction
_normalizeIPv6(host:string, protocol:URIRegExps):string {\n\tconst matches =
host.match(protocol.IPV6ADDRESS) || [];\n\tconst [, address, zone] = matches;\n\n\tif (address) {\n\t\tconst [last,
first] = address.toLowerCase().split('::').reverse();\n\t\tconst firstFields = first ?
first.split(\":\").map(_stripLeadingZeros) : [];\n\t\tconst lastFields =
last.split(\":\").map(_stripLeadingZeros);\n\t\tconst isLastFieldIPv4Address =
protocol.IPV4ADDRESS.test(lastFields[lastFields.length - 1]);\n\t\tconst fieldCount = isLastFieldIPv4Address ? 7 :
8;\n\t\tconst lastFieldsStart = lastFields.length - fieldCount;\n\t\tconst fields = Array<string>(fieldCount);\n\n\t\tfor
(let x = 0; x < fieldCount; ++x) {\n\t\t\tfields[x] = firstFields[x] || lastFields[lastFieldsStart + x] || '';\n\t\t}\n\n\t\tif
(isLastFieldIPv4Address) {\n\t\t\tfields[fieldCount - 1] = _normalizeIPv4(fields[fieldCount - 1],
protocol);\n\t\t}\n\n\t\tconst allZeroFields = fields.reduce<Array<{index:number,length:number}>>((acc, field,
index) => {\n\t\t\tif (!field || field === \"0\") {\n\t\t\t\tconst lastLongest = acc[acc.length - 1];\n\t\t\t\tif (lastLongest
&& lastLongest.index + lastLongest.length === index) {\n\t\t\t\t\tlastLongest.length++;\n\t\t\t\t} else
{\n\t\t\t\tacc.push({ index, length : 1 });\n\t\t\t}\n\t\t}\n\t\treturn acc;\n\t}, []);\n\n\tconst longestZeroFields =
allZeroFields.sort((a, b) => b.length - a.length)[0];\n\n\tlet newHost:string;\n\tif (longestZeroFields &&
longestZeroFields.length > 1) {\n\t\tconst newFirst = fields.slice(0, longestZeroFields.index) ;\n\t\tconst newLast
= fields.slice(longestZeroFields.index + longestZeroFields.length);\n\t\tnewHost = newFirst.join(\":\") + \"::\" +
newLast.join(\":\");\n\t} else {\n\t\tnewHost = fields.join(\":\");\n\t}\n\n\tif (zone) {\n\t\tnewHost += \"%\" +
zone;\n\t}\n\n\treturn newHost;\n\t} else {\n\treturn host;\n\t}\n}\n\nconst URI_PARSE =
/^(?:([^:\/?#]+):)?(?:\/\/((?:([^\/?#@]*)@)?(\[[^\/?#\]]+\]|[^\/?#:]*)(?:\:(\d*))?)?([^?#]*)(?:\?([^#]*))?(?:#((?:
.|\n|\r)*))?/i;\nconst NO_MATCH_IS_UNDEFINED = (<RegExpMatchArray>(\"\").match(/(){0}/))[1] ===
undefined;\n\nexport function parse(uriString:string, options:URIOptions = {}):URIComponents {\n\tconst
components:URIComponents = {};\n\tconst protocol = (options.iri !== false ? IRI_PROTOCOL :
URI_PROTOCOL);\n\n\tif (options.reference === \"suffix\") uriString = (options.scheme ? options.scheme + \":\" :
\"\") + \"//\" + uriString;\n\n\tconst matches = uriString.match(URI_PARSE);\n\n\tif (matches) {\n\t\tif
(NO_MATCH_IS_UNDEFINED) {\n\t\t\t//store each component\n\t\t\tcomponents.scheme =
matches[1];\n\t\t\tcomponents.userinfo = matches[3];\n\t\t\tcomponents.host = matches[4];\n\t\t\tcomponents.port =
parseInt(matches[5], 10);\n\t\t\tcomponents.path = matches[6] || \"\";\n\t\t\tcomponents.query =
matches[7];\n\t\t\tcomponents.fragment = matches[8];\n\n\t\t\t//fix port number\n\t\t\tif (isNaN(components.port))
```

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{\n\t\t\t\tcomponents.port = matches[5];\n\t\t\t}\n\t\t} else {  //IE FIX for improper RegExp matching\n\t\t\t//store
each component\n\t\t\tcomponents.scheme = matches[1] || undefined;\n\t\t\tcomponents.userinfo =
(uriString.indexOf(\"@\") !== -1 ? matches[3] : undefined);\n\t\t\tcomponents.host = (uriString.indexOf(\"//\") !== -
1 ? matches[4] : undefined);\n\t\t\tcomponents.port = parseInt(matches[5], 10);\n\t\t\tcomponents.path = matches[6]
|| \"\";\n\t\t\tcomponents.query = (uriString.indexOf(\"?\") !== -1 ? matches[7] :
undefined);\n\t\t\tcomponents.fragment = (uriString.indexOf(\"#\") !== -1 ? matches[8] : undefined);\n\n\t\t\t//fix
port number\n\t\t\tif (isNaN(components.port)) {\n\t\t\t\tcomponents.port =
(uriString.match(/\\/\\/(?:.|\\n)*\\:(?:\\/|\\?|\\#|$)/) ? matches[4] : undefined);\n\t\t\t}\n\t\t}\n\n\t\tif (components.host)
{\n\t\t\t//normalize IP hosts\n\t\t\tcomponents.host = _normalizeIPv6(_normalizeIPv4(components.host, protocol),
protocol);\n\t\t}\n\n\t\t//determine reference type\n\t\tif (components.scheme === undefined &&
components.userinfo === undefined && components.host === undefined && components.port === undefined &&
!components.path && components.query === undefined) {\n\t\t\tcomponents.reference = \"same-document\";\n\t\t}
else if (components.scheme === undefined) {\n\t\t\tcomponents.reference = \"relative\";\n\t\t} else if
(components.fragment === undefined) {\n\t\t\tcomponents.reference = \"absolute\";\n\t\t} else
{\n\t\t\tcomponents.reference = \"uri\";\n\t\t}\n\n\t\t//check for reference errors\n\t\tif (options.reference &&
options.reference !== \"suffix\" && options.reference !== components.reference) {\n\t\t\tcomponents.error =
components.error || \"URI is not a \" + options.reference + \" reference.\";\n\t\t}\n\n\t\t//find scheme
handler\n\t\tconst schemeHandler = SCHEMES[(options.scheme || components.scheme ||
\"\").toLowerCase()];\n\n\t\t//check if scheme can't handle IRIs\n\t\tif (!options.unicodeSupport &&
(!schemeHandler || !schemeHandler.unicodeSupport)) {\n\t\t\t//if host component is a domain name\n\t\t\tif
(components.host && (options.domainHost || (schemeHandler && schemeHandler.domainHost))) {\n\t\t\t\t//convert
Unicode IDN -> ASCII IDN\n\t\t\t\ttry {\n\t\t\t\t\tcomponents.host =
punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase());\n\t\t\t\t}
catch (e) {\n\t\t\t\t\tcomponents.error = components.error || \"Host's domain name can not be converted to ASCII via
punycode: \" + e;\n\t\t\t\t}\n\t\t\t}\n\t\t\t//convert IRI -> URI\n\t\t\t_normalizeComponentEncoding(components,
URI_PROTOCOL);\n\t\t} else {\n\t\t\t//normalize encodings\n\t\t\t_normalizeComponentEncoding(components,
protocol);\n\t\t}\n\n\t\t//perform scheme specific parsing\n\t\tif (schemeHandler && schemeHandler.parse)
{\n\t\t\tschemeHandler.parse(components, options);\n\t\t}\n\t} else {\n\t\tcomponents.error = components.error ||
\"URI can not be parsed.\";\n\t}\n\n\treturn components;\n};\n\nfunction
_recomposeAuthority(components:URIComponents, options:URIOptions):string|undefined {\n\tconst protocol =
(options.iri !== false ? IRI_PROTOCOL : URI_PROTOCOL);\n\tconst uriTokens:Array<string> = [];\n\n\tif
(components.userinfo !== undefined)
{\n\t\turiTokens.push(components.userinfo);\n\t\turiTokens.push(\"@\");\n\t}\n\n\tif (components.host !==
undefined) {\n\t\t//normalize IP hosts, add brackets and escape zone separator for
IPv6\n\t\turiTokens.push(_normalizeIPv6(_normalizeIPv4(String(components.host), protocol),
protocol).replace(protocol.IPV6ADDRESS, (_, $1, $2) => \"[\" + $1 + ($2 ? \"%25\" + $2 : \"\") + \"]\"));\n\t}\n\n\tif
(typeof components.port === \"number\")
{\n\t\turiTokens.push(\":\");\n\t\turiTokens.push(components.port.toString(10));\n\t}\n\n\treturn uriTokens.length ?
uriTokens.join(\"\") : undefined;\n};\n\nconst RDS1 = /^\\.\\.?\\//;\nconst RDS2 = /^\\/\\.(\\/|$)/;\nconst RDS3 =
/^\\/\\.\\.(\\/|$)/;\nconst RDS4 = /^\\.\\.?$/;\nconst RDS5 = /^\\/?(?:.|\\n)*?(?=\\/|$)/;\n\nexport function
removeDotSegments(input:string):string {\n\tconst output:Array<string> = [];\n\n\twhile (input.length) {\n\t\tif
(input.match(RDS1)) {\n\t\t\tinput = input.replace(RDS1, \"\");\n\t\t} else if (input.match(RDS2)) {\n\t\t\tinput =
input.replace(RDS2, \"/\");\n\t\t} else if (input.match(RDS3)) {\n\t\t\tinput = input.replace(RDS3,
\"/\");\n\t\t\toutput.pop();\n\t\t} else if (input === \".\" || input === \"..\") {\n\t\t\tinput = \"\";\n\t\t} else {\n\t\t\tconst
im = input.match(RDS5);\n\t\t\tif (im) {\n\t\t\t\tconst s = im[0];\n\t\t\t\tinput =
input.slice(s.length);\n\t\t\t\toutput.push(s);\n\t\t\t} else {\n\t\t\t\tthrow new Error(\"Unexpected dot segment
condition\");\n\t\t\t}\n\t\t}\n\t}\n\n\treturn output.join(\"\");\n};\n\nexport function
serialize(components:URIComponents, options:URIOptions = {}):string {\n\tconst protocol = (options.iri ?
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IRI_PROTOCOL : URI_PROTOCOL);\n\tconst uriTokens:Array<string> = [];\n\n\t//find scheme handler\n\tconst schemeHandler = SCHEMES[(options.scheme || components.scheme || \"\").toLowerCase()];\n\n\t//perform scheme specific serialization\n\tif (schemeHandler && schemeHandler.serialize) schemeHandler.serialize(components, options);\n\n\tif (components.host) {\n\t\t//if host component is an IPv6 address\n\t\tif (protocol.IPV6ADDRESS.test(components.host)) {\n\t\t\t//TODO: normalize IPv6 address as per RFC 5952\n\t\t}\n\n\t\t//if host component is a domain name\n\t\telse if (options.domainHost || (schemeHandler && schemeHandler.domainHost)) {\n\t\t\t//convert IDN via punycode\n\t\t\ttry {\n\t\t\t\tcomponents.host = (!options.iri ? punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase()) : punycode.toUnicode(components.host));\n\t\t\t} catch (e) {\n\t\t\t\tcomponents.error = components.error || \"Host's domain name can not be converted to \" + (!options.iri ? \"ASCII\" : \"Unicode\") + \" via punycode: \" + e;\n\t\t\t}\n\t\t}\n\t}\n\n\t//normalize encoding\n\t_normalizeComponentEncoding(components, protocol);\n\n\tif (options.reference !== \"suffix\" && components.scheme) {\n\t\turiTokens.push(components.scheme);\n\t\turiTokens.push(\":\");\n\t}\n\n\tconst authority = _recomposeAuthority(components, options);\n\tif (authority !== undefined) {\n\t\tif (options.reference !== \"suffix\") {\n\t\t\turiTokens.push(\"//\");\n\t\t}\n\n\t\turiTokens.push(authority);\n\n\t\tif (components.path && components.path.charAt(0) !== \"/\") {\n\t\t\turiTokens.push(\"/\");\n\t\t}\n\t}\n\n\tif (components.path !== undefined) {\n\t\tlet s = components.path;\n\n\t\tif (!options.absolutePath && (!schemeHandler || !schemeHandler.absolutePath)) {\n\t\t\ts = removeDotSegments(s);\n\t\t}\n\n\t\tif (authority === undefined) {\n\t\t\ts = s.replace(/^\\/\\//, \"/%2F\"); //don't allow the path to start with \"//\"\n\t\t}\n\n\t\turiTokens.push(s);\n\t}\n\n\tif (components.query !== undefined) {\n\t\turiTokens.push(\"?\");\n\t\turiTokens.push(components.query);\n\t}\n\n\tif (components.fragment !== undefined) {\n\t\turiTokens.push(\"#\");\n\t\turiTokens.push(components.fragment);\n\t}\n\n\treturn uriTokens.join(\"\"); //merge tokens into a string\n};\n\nexport function resolveComponents(base:URIComponents, relative:URIComponents, options:URIOptions = {}, skipNormalization?:boolean):URIComponents {\n\tconst target:URIComponents = {};\n\n\tif (!skipNormalization) {\n\t\tbase = parse(serialize(base, options), options); //normalize base components\n\t\trelative = parse(serialize(relative, options), options); //normalize relative components\n\t}\n\toptions = options || {};\n\n\tif (!options.tolerant && relative.scheme) {\n\t\ttarget.scheme = relative.scheme;\n\t\t//target.authority = relative.authority;\n\t\ttarget.userinfo = relative.userinfo;\n\t\ttarget.host = relative.host;\n\t\ttarget.port = relative.port;\n\t\ttarget.path = removeDotSegments(relative.path || \"\");\n\t\ttarget.query = relative.query;\n\t} else {\n\t\tif (relative.userinfo !== undefined || relative.host !== undefined || relative.port !== undefined) {\n\t\t\t//target.authority = relative.authority;\n\t\t\ttarget.userinfo = relative.userinfo;\n\t\t\ttarget.host = relative.host;\n\t\t\ttarget.port = relative.port;\n\t\t\ttarget.path = removeDotSegments(relative.path || \"\");\n\t\t\ttarget.query = relative.query;\n\t\t} else {\n\t\t\tif (!relative.path) {\n\t\t\t\ttarget.path = base.path;\n\t\t\t\tif (relative.query !== undefined) {\n\t\t\t\t\ttarget.query = relative.query;\n\t\t\t\t} else {\n\t\t\t\t\ttarget.query = base.query;\n\t\t\t\t}\n\t\t} else {\n\t\t\tif (relative.path.charAt(0) === \"/\") {\n\t\t\t\ttarget.path = removeDotSegments(relative.path);\n\t\t\t} else {\n\t\t\t\tif ((base.userinfo !== undefined || base.host !== undefined || base.port !== undefined) && !base.path) {\n\t\t\t\t\ttarget.path = \"/\" + relative.path;\n\t\t\t\t} else if (!base.path) {\n\t\t\t\t\ttarget.path = relative.path;\n\t\t\t\t} else {\n\t\t\t\t\ttarget.path = base.path.slice(0, base.path.lastIndexOf(\"/\") + 1) + relative.path;\n\t\t\t\t}\n\t\t\t\ttarget.path = removeDotSegments(target.path);\n\t\t\t}\n\t\ttarget.query = relative.query;\n\t}\n\t//target.authority = base.authority;\n\ttarget.userinfo = base.userinfo;\n\ttarget.host = base.host;\n\ttarget.port = base.port;\n\t}\n\ttarget.scheme = base.scheme;\n\t}\n\n\ttarget.fragment = relative.fragment;\n\n\treturn target;\n};\n\nexport function resolve(baseURI:string, relativeURI:string, options?:URIOptions):string {\n\tconst schemelessOptions = assign({ scheme : 'null' }, options);\n\treturn serialize(resolveComponents(parse(baseURI, schemelessOptions), parse(relativeURI, schemelessOptions), schemelessOptions, true), schemelessOptions);\n};\n\nexport function normalize(uri:string, options?:URIOptions):string;\nexport function normalize(uri:URIComponents, options?:URIOptions):URIComponents;\nexport function normalize(uri:any, options?:URIOptions):any {\n\tif

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(typeof uri === \"string\") {\n\t\turi = serialize(parse(uri, options), options);\n\t} else if (typeOf(uri) === \"object\")
{\n\t\turi = parse(serialize(<URIComponents>uri, options), options);\n\t}\n\n\treturn uri;\n};\n\nexport function
equal(uriA:string, uriB:string, options?: URIOptions):boolean;\nexport function equal(uriA:URIComponents,
uriB:URIComponents, options?:URIOptions):boolean;\nexport function equal(uriA:any, uriB:any,
options?:URIOptions):boolean {\n\tif (typeof uriA === \"string\") {\n\t\turiA = serialize(parse(uriA, options),
options);\n\t} else if (typeOf(uriA) === \"object\") {\n\t\turiA = serialize(<URIComponents>uriA,
options);\n\t}\n\n\tif (typeof uriB === \"string\") {\n\t\turiB = serialize(parse(uriB, options), options);\n\t} else if
(typeOf(uriB) === \"object\") {\n\t\turiB = serialize(<URIComponents>uriB, options);\n\t}\n\n\treturn uriA ===
uriB;\n};\n\nexport function escapeComponent(str:string, options?:URIOptions):string {\n\treturn str &&
str.toString().replace((!options || !options.iri ? URI_PROTOCOL.ESCAPE : IRI_PROTOCOL.ESCAPE),
pctEncChar);\n};\n\nexport function unescapeComponent(str:string, options?:URIOptions):string {\n\treturn str &&
str.toString().replace((!options || !options.iri ? URI_PROTOCOL.PCT_ENCODED :
IRI_PROTOCOL.PCT_ENCODED), pctDecChars);\n};\n","import { URISchemeHandler, URIComponents,
URIOptions } from \"../uri\";\nimport { pctEncChar, pctDecChars, unescapeComponent } from \"../uri\";\nimport
punycode from \"punycode\";\nimport { merge, subexp, toUpperCase, toArray } from \"../util\";\n\nexport interface
MailtoHeaders {\n\t[hfname:string]:string\n}\n\nexport interface MailtoComponents extends URIComponents
{\n\tto:Array<string>,\n\theaders?:MailtoHeaders,\n\tsubject?:string,\n\tbody?:string\n}\n\nconst O:MailtoHeaders
= {};\nconst isIRI = true;\n\n//RFC 3986\nconst UNRESERVED$$ = \"[A-Za-z0-9\\\\-\\\\.\\\\_\\\\~\" + (isIRI ?
\"\\\\xA0-\\\\u200D\\\\u2010-\\\\u2029\\\\u202F-\\\\uD7FF\\\\uF900-\\\\uFDCF\\\\uFDF0-\\\\uFFEF\" : \"\") +
\"]\";\nconst HEXDIG$$ = \"[0-9A-Fa-f]\";  //case-insensitive\nconst PCT_ENCODED$ =
subexp(subexp(\"%[EFef]\" + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$ + \"%\" + HEXDIG$$ +
HEXDIG$$) + \"|\" + subexp(\"%[89A-Fa-f]\" + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$) + \"|\" +
subexp(\"%\" + HEXDIG$$ + HEXDIG$$));  //expanded\n\n//RFC 5322, except these symbols as per RFC 6068: @
: / ? # [ ] & ; =\n//const ATEXT$$ = \"[A-Za-z0-9\\\\!\\\\#\\\\$\\\\%\\\\&\\\\'\\\\*\\\\+\\\\-
\\\\/\\\\=\\\\?\\\\^\\\\_\\\\`\\\\{\\\\|\\\\}\\\\~]\";\n//const WSP$$ = \"[\\\\x20\\\\x09]\";\n//const OBS_QTEXT$$ =
\"[\\\\x01-\\\\x08\\\\x0B\\\\x0C\\\\x0E-\\\\x1F\\\\x7F]\";  //(%d1-8 / %d11-12 / %d14-31 / %d127)\n//const QTEXT$$
= merge(\"[\\\\x21\\\\x23-\\\\x5B\\\\x5D-\\\\x7E]\", OBS_QTEXT$$);  //%d33 / %d35-91 / %d93-126 / obs-
qtext\n//const VCHAR$$ = \"[\\\\x21-\\\\x7E]\";\n//const WSP$$ = \"[\\\\x20\\\\x09]\";\n//const OBS_QP$ =
subexp(\"\\\\\\\\\\\" + merge(\"[\\\\x00\\\\x0D\\\\x0A]\", OBS_QTEXT$$));  //%d0 / CR / LF / obs-qtext\n//const
FWS$ = subexp(subexp(WSP$$ + \"*\" + \"\\\\x0D\\\\x0A\") + \"?\" + WSP$$ + \"+\");\n//const QUOTED_PAIR$
= subexp(subexp(\"\\\\\\\\\\\" + subexp(VCHAR$$ + \"|\" + WSP$$)) + \"|\" + OBS_QP$);\n//const
QUOTED_STRING$ = subexp('\\\\\"' + subexp(FWS$ + \"?\" + QCONTENT$) + \"*\" + FWS$ + \"?\" +
'\\\\\"');\nconst ATEXT$$ = \"[A-Za-z0-9\\\\!\\\\$\\\\%\\\\'\\\\*\\\\+\\\\-\\\\^\\\\_\\\\`\\\\{\\\\|\\\\}\\\\~]\";\nconst
QTEXT$$ = \"[\\\\!\\\\$\\\\%\\\\'\\\\(\\\\)\\\\*\\\\+\\\\,\\\\-\\\\.0-9\\\\<\\\\>A-Z\\\\x5E-\\\\x7E]\";\nconst VCHAR$$ =
merge(QTEXT$$, \"[\\\\\\\\\\\"\\\\\\\\\]\");\nconst DOT_ATOM_TEXT$ = subexp(ATEXT$$ + \"+\" + subexp(\"\\\\.\" +
ATEXT$$ + \"+\") + \"*\");\nconst QUOTED_PAIR$ = subexp(\"\\\\\\\\\\\" + VCHAR$$);\nconst QCONTENT$ =
subexp(QTEXT$$ + \"|\" + QUOTED_PAIR$);\nconst QUOTED_STRING$ = subexp('\\\\\"' + QCONTENT$ +
\"*\" + '\\\\\"');\n\n//RFC 6068\nconst DTEXT_NO_OBS$$ = \"[\\\\x21-\\\\x5A\\\\x5E-\\\\x7E]\";  //%d33-90 /
%d94-126\nconst SOME_DELIMS$$ = \"[\\\\!\\\\$\\\\'\\\\(\\\\)\\\\*\\\\+\\\\,\\\\;\\\\:\\\\@]\";\nconst QCHAR$ =
subexp(UNRESERVED$$ + \"|\" + PCT_ENCODED$ + \"|\" + SOME_DELIMS$$);\nconst DOMAIN$ =
subexp(DOT_ATOM_TEXT$ + \"|\" + \"\\\\[\" + DTEXT_NO_OBS$$ + \"*\" + \"\\\\]\");\nconst LOCAL_PART$ =
subexp(DOT_ATOM_TEXT$ + \"|\" + QUOTED_STRING$);\nconst ADDR_SPEC$ = subexp(LOCAL_PART$ +
\"\\\\@\" + DOMAIN$);\nconst TO$ = subexp(ADDR_SPEC$ + subexp(\"\\\\,\" + ADDR_SPEC$) + \"*\");\nconst
HFNAME$ = subexp(QCHAR$ + \"*\");\nconst HFVALUE$ = HFNAME$;\nconst HFIELD$ =
subexp(HFNAME$ + \"\\\\=\" + HFVALUE$);\nconst HFIELDS2$ = subexp(HFIELD$ + subexp(\"\\\\&\" +
HFIELD$) + \"*\");\nconst HFIELDS$ = subexp(\"\\\\?\" + HFIELDS2$);\nconst MAILTO_URI = new
RegExp(\"^mailto\\\\:\" + TO$ + \"?\" + HFIELDS$ + \"?$\");\n\nconst UNRESERVED = new
RegExp(UNRESERVED$$, \"g\");\nconst PCT_ENCODED = new RegExp(PCT_ENCODED$, \"g\");\nconst
```

```
NOT_LOCAL_PART = new RegExp(merge(\"[^]\", ATEXT$$, \"[\\\\.]\", '[\\\\\\"]', VCHAR$$), \"g\");\nconst
NOT_DOMAIN = new RegExp(merge(\"[^]\", ATEXT$$, \"[\\\\.]\", \"[\\\\[]\", DTEXT_NO_OBS$$, \"[\\\\]]\"),
\"g\");\nconst NOT_HFNAME = new RegExp(merge(\"[^]\", UNRESERVED$$, SOME_DELIMS$$),
\"g\");\nconst NOT_HFVALUE = NOT_HFNAME;\nconst TO = new RegExp(\"^\" + TO$ + \"$\");\nconst
HFIELDS = new RegExp(\"^\" + HFIELDS2$ + \"$\");\n\nfunction decodeUnreserved(str:string):string {\n\tconst
decStr = pctDecChars(str);\n\treturn (!decStr.match(UNRESERVED) ? str : decStr);\n}\n\nconst
handler:URISchemeHandler<MailtoComponents> =  {\n\tscheme : \"mailto\",\n\n\tparse : function
(components:URIComponents, options:URIOptions):MailtoComponents {\n\t\tconst mailtoComponents =
components as MailtoComponents;\n\t\tconst to = mailtoComponents.to = (mailtoComponents.path ?
mailtoComponents.path.split(\",\") : []);\n\t\tmailtoComponents.path = undefined;\n\n\t\tif
(mailtoComponents.query) {\n\t\t\tlet unknownHeaders = false\n\t\t\tconst headers:MailtoHeaders = {};\n\t\t\tconst
hfields = mailtoComponents.query.split(\"&\");\n\n\t\t\tfor (let x = 0, xl = hfields.length; x < xl; ++x) {\n\t\t\t\tconst
hfield = hfields[x].split(\"=\");\n\n\t\t\t\tswitch (hfield[0]) {\n\t\t\t\tcase \"to\":\n\t\t\t\t\t\tconst toAddrs =
hfield[1].split(\",\");\n\t\t\t\t\t\tfor (let x = 0, xl = toAddrs.length; x < xl; ++x)
{\n\t\t\t\t\t\tto.push(toAddrs[x]);\n\t\t\t\t\t}\n\t\t\t\t\tbreak;\n\t\t\t\tcase
\"subject\":\n\t\t\t\t\tmailtoComponents.subject = unescapeComponent(hfield[1],
options);\n\t\t\t\t\tbreak;\n\t\t\t\tcase \"body\":\n\t\t\t\t\tmailtoComponents.body =
unescapeComponent(hfield[1], options);\n\t\t\t\t\tbreak;\n\t\t\t\tdefault:\n\t\t\t\t\tunknownHeaders =
true;\n\t\t\t\t\theaders[unescapeComponent(hfield[0], options)] = unescapeComponent(hfield[1],
options);\n\t\t\t\t\tbreak;\n\t\t\t}\n\t\t}\n\n\t\tif (unknownHeaders) mailtoComponents.headers =
headers;\n\t}\n\n\tmailtoComponents.query = undefined;\n\n\tfor (let x = 0, xl = to.length; x < xl; ++x)
{\n\t\tconst addr = to[x].split(\"@\");\n\n\t\taddr[0] = unescapeComponent(addr[0]);\n\n\t\tif
(!options.unicodeSupport) {\n\t\t\t//convert Unicode IDN -> ASCII IDN\n\t\t\ttry {\n\t\t\t\taddr[1] =
punycode.toASCII(unescapeComponent(addr[1], options).toLowerCase());\n\t\t\t} catch (e)
{\n\t\t\tmailtoComponents.error = mailtoComponents.error || \"Email address's domain name can not be converted
to ASCII via punycode: \" + e;\n\t\t\t}\n\t\t} else {\n\t\t\taddr[1] = unescapeComponent(addr[1],
options).toLowerCase();\n\t\t}\n\n\t\tto[x] = addr.join(\"@\");\n\t}\n\n\treturn
mailtoComponents;\n\t},\n\n\tserialize : function (mailtoComponents:MailtoComponents,
options:URIOptions):URIComponents {\n\tconst components = mailtoComponents as URIComponents;\n\tconst
to = toArray(mailtoComponents.to);\n\tif (to) {\n\t\tfor (let x = 0, xl = to.length; x < xl; ++x) {\n\t\t\tconst
toAddr = String(to[x]);\n\t\t\tconst atIdx = toAddr.lastIndexOf(\"@\");\n\t\t\tconst localPart = (toAddr.slice(0,
atIdx)).replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED,
toUpperCase).replace(NOT_LOCAL_PART, pctEncChar);\n\t\t\tlet domain = toAddr.slice(atIdx +
1);\n\n\t\t\t//convert IDN via punycode\n\t\t\ttry {\n\t\t\t\tdomain = (!options.iri ?
punycode.toASCII(unescapeComponent(domain, options).toLowerCase()) : punycode.toUnicode(domain));\n\t\t\t} 
catch (e) {\n\t\t\t\tcomponents.error = components.error || \"Email address's domain name can not be converted to
\" + (!options.iri ? \"ASCII\" : \"Unicode\") + \" via punycode: \" + e;\n\t\t\t}\n\n\t\t\tto[x] = localPart + \"@\" +
domain;\n\t\t}\n\n\t\tcomponents.path = to.join(\",\");\n\t}\n\n\tconst headers = mailtoComponents.headers =
mailtoComponents.headers || {};\n\n\tif (mailtoComponents.subject) headers[\"subject\"] =
mailtoComponents.subject;\n\tif (mailtoComponents.body) headers[\"body\"] =
mailtoComponents.body;\n\n\tconst fields = [];\n\tfor (const name in headers) {\n\t\tif (headers[name] !==
O[name]) {\n\t\t\tfields.push(\n\t\t\t\tname.replace(PCT_ENCODED,
decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_HFNAME, pctEncChar) +\n\t\t\t\t\"=\"
+\n\t\t\t\theaders[name].replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED,
toUpperCase).replace(NOT_HFVALUE, pctEncChar)\n\t\t\t);\n\t\t}\n\t}\n\tif (fields.length)
{\n\t\tcomponents.query = fields.join(\"&\");\n\t}\n\n\treturn components;\n\t}\n}\n\nexport default
handler;","import { URIRegExps } from \"./uri\";\nimport { buildExps } from \"./regexps-uri\";\n\nexport default
buildExps(true);\n","import { URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\n\nconst
```

handler:URISchemeHandler = {\n\tscheme : \"http\",\n\n\tdomainHost : true,\n\n\tparse : function (components:URIComponents, options:URIOptions):URIComponents {\n\t\t//report missing host\n\t\tif (!components.host) {\n\t\t\tcomponents.error = components.error || \"HTTP URIs must have a host.\";\n\t\t}\n\n\t\treturn components;\n\t},\n\n\tserialize : function (components:URIComponents, options:URIOptions):URIComponents {\n\t\t//normalize the default port\n\t\tif (components.port === (String(components.scheme).toLowerCase() !== \"https\" ? 80 : 443) || components.port === \"\") {\n\t\t\tcomponents.port = undefined;\n\t\t}\n\t\t\n\t\t//normalize the empty path\n\t\tif (!components.path) {\n\t\t\tcomponents.path = \"/\";\n\t\t}\n\n\t\t//NOTE: We do not parse query strings for HTTP URIs\n\t\t//as WWW Form Url Encoded query strings are part of the HTML4+ spec,\n\t\t//and not the HTTP spec.\n\n\t\treturn components;\n\t}\n};\n\nexport default handler;","import { URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\nimport http from \"./http\";\n\nconst handler:URISchemeHandler = {\n\tscheme : \"https\",\n\tdomainHost : http.domainHost,\n\tparse : http.parse,\n\tserialize : http.serialize\n}\n\nexport default handler;","import { URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\nimport { pctEncChar, SCHEMES } from \"../uri\";\n\nexport interface URNComponents extends URIComponents {\n\tnid?:string;\n\tnss?:string;\n}\n\nexport interface URNOptions extends URIOptions {\n\tnid?:string;\n}\n\nconst NID$ = \"(?:[0-9A-Za-z][0-9A-Za-z\\\\-]{1,31})\";\nconst PCT_ENCODED$ = \"(?:\\\\%[0-9A-Fa-f]{2})\";\nconst TRANS$$ = \"[0-9A-Za-z\\\\(\\\\)\\\\+\\\\,\\\\-\\\\.\\\\:\\\\=\\\\@\\\\;\\\\$\\\\_\\\\!\\\\*\\\\'\\\\/\\\\?\\\\#]\";\nconst NSS$ = \"(?:(?:\" + PCT_ENCODED$ + \"|\" + TRANS$$ + \")+)\";\nconst URN_SCHEME = new RegExp(\"^urn\\\\:(\" + NID$ + \")$\");\nconst URN_PATH = new RegExp(\"^(\" + NID$ + \")\\\\:(\" + NSS$ + \")$\");\nconst URN_PARSE = /^([^\\:]+)\\:(.*)/;\nconst URN_EXCLUDED = /[\\x00-\\x20\\\\\\\"\\&\\<\\>\\[\\]\\^\\`\\{\\|\\}\\~\\x7F-\\xFF]/g;\n\n//RFC 2141\nconst handler:URISchemeHandler<URNComponents,URNOptions> = {\n\tscheme : \"urn\",\n\n\tparse : function (components:URIComponents, options:URNOptions):URNComponents {\n\t\tconst matches = components.path && components.path.match(URN_PARSE);\n\t\tlet urnComponents = components as URNComponents;\n\n\t\tif (matches) {\n\t\t\tconst scheme = options.scheme || urnComponents.scheme || \"urn\";\n\t\t\tconst nid = matches[1].toLowerCase();\n\t\t\tconst nss = matches[2];\n\t\t\tconst urnScheme = `${scheme}:${options.nid || nid}`;\n\t\t\tconst schemeHandler = SCHEMES[urnScheme];\n\n\t\t\turnComponents.nid = nid;\n\t\t\turnComponents.nss = nss;\n\t\t\turnComponents.path = undefined;\n\n\t\t\tif (schemeHandler) {\n\t\t\t\turnComponents = schemeHandler.parse(urnComponents, options) as URNComponents;\n\t\t\t}\n\t\t} else {\n\t\t\turnComponents.error = urnComponents.error || \"URN can not be parsed.\";\n\t\t}\n\n\t\treturn urnComponents;\n\t},\n\n\tserialize : function (urnComponents:URNComponents, options:URNOptions):URIComponents {\n\t\tconst scheme = options.scheme || urnComponents.scheme || \"urn\";\n\t\tconst nid = urnComponents.nid;\n\t\tconst urnScheme = `${scheme}:${options.nid || nid}`;\n\t\tconst schemeHandler = SCHEMES[urnScheme];\n\n\t\tif (schemeHandler) {\n\t\t\turnComponents = schemeHandler.serialize(urnComponents, options) as URNComponents;\n\t\t}\n\n\t\tconst uriComponents = urnComponents as URIComponents;\n\t\tconst nss = urnComponents.nss;\n\t\turiComponents.path = `${nid || options.nid}:${nss}`;\n\n\t\treturn uriComponents;\n\t},\n};\n\nexport default handler;","import { URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\nimport { URNComponents } from \"./urn\";\nimport { SCHEMES } from \"../uri\";\n\nexport interface UUIDComponents extends URNComponents {\n\tuuid?: string;\n}\n\nconst UUID = /^[0-9A-Fa-f]{8}(?:\\-[0-9A-Fa-f]{4}){3}\\-[0-9A-Fa-f]{12}$/;\nconst UUID_PARSE = /^[0-9A-Fa-f\\-]{36}/;\n\n//RFC 4122\nconst handler:URISchemeHandler<UUIDComponents, URIOptions, URNComponents> = {\n\tscheme : \"urn:uuid\",\n\n\tparse : function (urnComponents:URNComponents, options:URIOptions):UUIDComponents {\n\t\tconst uuidComponents = urnComponents as UUIDComponents;\n\t\tuuidComponents.uuid = uuidComponents.nss;\n\t\tuuidComponents.nss = undefined;\n\n\t\tif (!options.tolerant && (!uuidComponents.uuid || !uuidComponents.uuid.match(UUID))) {\n\t\t\tuuidComponents.error = uuidComponents.error || \"UUID is not valid.\";\n\t\t}\n\n\t\treturn uuidComponents;\n\t},\n\n\tserialize : function (uuidComponents:UUIDComponents, options:URIOptions):URNComponents {\n\t\tconst urnComponents = uuidComponents as

URNComponents;\n\t\t//normalize UUID\n\t\turnComponents.nss = (uuidComponents.uuid || \"\").toLowerCase();\n\t\treturn urnComponents;\n\t},\n};\n\nexport default handler;","import { SCHEMES } from \"./uri\";\n\nimport http from \"./schemes/http\";\nSCHEMES[http.scheme] = http;\n\nimport https from \"./schemes/https\";\nSCHEMES[https.scheme] = https;\n\nimport mailto from \"./schemes/mailto\";\nSCHEMES[mailto.scheme] = mailto;\n\nimport urn from \"./schemes/urn\";\nSCHEMES[urn.scheme] = urn;\n\nimport uuid from \"./schemes/urn-uuid\";\nSCHEMES[uuid.scheme] = uuid;\n\nexport * from \"./uri\";\n"]}

Found in path(s):
* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/dist/es5/uri.all.min.js.map
No license file was found, but licenses were detected in source scan.

{"version":3,"file":"uri.all.js","sources":["../../src/index.ts","../../src/schemes/urn-uuid.ts","../../src/schemes/urn.ts","../../src/schemes/mailto.ts","../../src/schemes/https.ts","../../src/schemes/http.ts","../../src/uri.ts","../../node_modules/punycode/punycode.es6.js","../../src/regexps-iri.ts","../../src/regexps-uri.ts","../../src/util.ts"],"sourcesContent":["import { SCHEMES } from \"./uri\";\n\nimport http from \"./schemes/http\";\nSCHEMES[http.scheme] = http;\n\nimport https from \"./schemes/https\";\nSCHEMES[https.scheme] = https;\n\nimport mailto from \"./schemes/mailto\";\nSCHEMES[mailto.scheme] = mailto;\n\nimport urn from \"./schemes/urn\";\nSCHEMES[urn.scheme] = urn;\n\nimport uuid from \"./schemes/urn-uuid\";\nSCHEMES[uuid.scheme] = uuid;\n\nexport * from \"./uri\";\n","import { URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\nimport { URNComponents } from \"./urn\";\nimport { SCHEMES } from \"../uri\";\n\nexport interface UUIDComponents extends URNComponents {\n\tuuid?: string;\n}\n\nconst UUID = /^[0-9A-Fa-f]{8}(?:\\-[0-9A-Fa-f]{4}){3}\\-[0-9A-Fa-f]{12}$/;\nconst UUID_PARSE = /^[0-9A-Fa-f\\-]{36}/;\n\n//RFC 4122\nconst handler:URISchemeHandler<UUIDComponents, URIOptions, URNComponents> = {\n\tscheme : \"urn:uuid\",\n\n\tparse : function (urnComponents:URNComponents, options:URIOptions):UUIDComponents {\n\t\tconst uuidComponents = urnComponents as UUIDComponents;\n\t\tuuidComponents.uuid = uuidComponents.nss;\n\t\tuuidComponents.nss = undefined;\n\n\t\tif (!options.tolerant && (!uuidComponents.uuid || !uuidComponents.uuid.match(UUID))) {\n\t\t\tuuidComponents.error = uuidComponents.error || \"UUID is not valid.\";\n\t\t}\n\n\t\treturn uuidComponents;\n\t},\n\n\tserialize : function (uuidComponents:UUIDComponents, options:URIOptions):URNComponents {\n\t\tconst urnComponents = uuidComponents as URNComponents;\n\t\t//normalize UUID\n\t\turnComponents.nss = (uuidComponents.uuid || \"\").toLowerCase();\n\t\treturn urnComponents;\n\t},\n};\n\nexport default handler;","import { URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\nimport { pctEncChar, SCHEMES } from \"../uri\";\n\nexport interface URNComponents extends URIComponents {\n\tnid?:string;\n\tnss?:string;\n}\n\nexport interface URNOptions extends URIOptions {\n\tnid?:string;\n}\n\nconst NID$ = \"(?:[0-9A-Za-z][0-9A-Za-z\\\\-]{1,31})\";\nconst PCT_ENCODED$ = \"(?:\\\\%[0-9A-Fa-f]{2})\";\nconst TRANS$$ = \"[0-9A-Za-z\\\\(\\\\)\\\\+\\\\,\\\\-\\\\.\\\\:\\\\=\\\\@\\\\;\\\\$\\\\_\\\\!\\\\*\\\\'\\\\/\\\\?\\\\#]\";\nconst NSS$ = \"(?:(?:\" + PCT_ENCODED$ + \"|\" + TRANS$$ + \")+)\";\nconst URN_SCHEME = new RegExp(\"^urn\\\\:(\" + NID$ + \")$\");\nconst URN_PATH = new RegExp(\"^(\" + NID$ + \")\\\\:(\" + NSS$ + \")$\");\nconst URN_PARSE = /^([^\\:]+)\\:(.*)/;\nconst URN_EXCLUDED = /[\\x00-\\x20\\\\\\\"\\&\\<\\>\\[\\]\\^\\`\\{\\|\\}\\~\\x7F-\\xFF]/g;\n\n//RFC 2141\nconst handler:URISchemeHandler<URNComponents,URNOptions> = {\n\tscheme : \"urn\",\n\n\tparse : function (components:URIComponents, options:URNOptions):URNComponents {\n\t\tconst matches = components.path && components.path.match(URN_PARSE);\n\t\tlet urnComponents = components as URNComponents;\n\n\t\tif (matches) {\n\t\t\tconst scheme = options.scheme || urnComponents.scheme || \"urn\";\n\t\t\tconst nid = matches[1].toLowerCase();\n\t\t\tconst nss = matches[2];\n\t\t\tconst urnScheme =

`${scheme}:${options.nid || nid}`;\n\t\t\tconst schemeHandler = SCHEMES[urnScheme];\n\n\t\t\turnComponents.nid = nid;\n\t\t\turnComponents.nss = nss;\n\t\t\turnComponents.path = undefined;\n\n\t\t\tif (schemeHandler) {\n\t\t\t\turnComponents = schemeHandler.parse(urnComponents, options) as URNComponents;\n\t\t\t}\n\t\t} else {\n\t\t\turnComponents.error = urnComponents.error || \"URN can not be parsed.\";\n\t\t}\n\n\t\treturn urnComponents;\n\t},\n\n\tserialize : function (urnComponents:URNComponents, options:URNOptions):URIComponents {\n\t\tconst scheme = options.scheme || urnComponents.scheme || \"urn\";\n\t\tconst nid = urnComponents.nid;\n\t\tconst urnScheme = `${scheme}:${options.nid || nid}`;\n\t\tconst schemeHandler = SCHEMES[urnScheme];\n\n\t\tif (schemeHandler) {\n\t\t\turnComponents = schemeHandler.serialize(urnComponents, options) as URNComponents;\n\t\t}\n\n\t\tconst uriComponents = urnComponents as URIComponents;\n\t\tconst nss = urnComponents.nss;\n\t\turiComponents.path = `${nid || options.nid}:${nss}`;\n\n\t\treturn uriComponents;\n\t},\n};\n\nexport default handler;","import { URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\nimport { pctEncChar, pctDecChars, unescapeComponent } from \"../uri\";\nimport punycode from \"punycode\";\nimport { merge, subexp, toUpperCase, toArray } from \"../util\";\n\nexport interface MailtoHeaders {\n\t[hfname:string]:string\n}\n\nexport interface MailtoComponents extends URIComponents {\n\tto:Array<string>,\n\theaders?:MailtoHeaders,\n\tsubject?:string,\n\tbody?:string\n}\n\nconst O:MailtoHeaders = {};\nconst isIRI = true;\n\n//RFC 3986\nconst UNRESERVED$$ = \"[A-Za-z0-9\\\\-\\\\.\\\\_\\\\~\" + (isIRI ? \"\\\\xA0-\\\\u200D\\\\u2010-\\\\u2029\\\\u202F-\\\\uD7FF\\\\uF900-\\\\uFDCF\\\\uFDF0-\\\\uFFEF\" : \"\") + \"]\";\nconst HEXDIG$$ = \"[0-9A-Fa-f]\"; //case-insensitive\nconst PCT_ENCODED$ = subexp(subexp(\"%[EFef]\" + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$) + \"|\" + subexp(\"%[89A-Fa-f]\" + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$) + \"|\" + subexp(\"%\" + HEXDIG$$ + HEXDIG$$)); //expanded\n\n//RFC 5322, except these symbols as per RFC 6068: @ : / ? # [ ] & ; =\n//const ATEXT$$ = \"[A-Za-z0-9\\\\!\\\\#\\\\$\\\\%\\\\&\\\\'\\\\*\\\\+\\\\-\\\\/\\\\=\\\\?\\\\^\\\\_\\\\`\\\\{\\\\|\\\\}\\\\~]\";\n//const WSP$$ = \"[\\\\x20\\\\x09]\";\n//const OBS_QTEXT$$ = \"[\\\\x01-\\\\x08\\\\x0B\\\\x0C\\\\x0E-\\\\x1F\\\\x7F]\"; //(%d1-8 / %d11-12 / %d14-31 / %d127)\n//const QTEXT$$ = merge(\"[\\\\x21\\\\x23-\\\\x5B\\\\x5D-\\\\x7E]\", OBS_QTEXT$$); //%d33 / %d35-91 / %d93-126 / obs-qtext\n//const VCHAR$$ = \"[\\\\x21-\\\\x7E]\";\n//const WSP$$ = \"[\\\\x20\\\\x09]\";\n//const OBS_QP$ = subexp(\"\\\\\\\\\\\" + merge(\"[\\\\x00\\\\x0D\\\\x0A]\", OBS_QTEXT$$)); //%d0 / CR / LF / obs-qtext\n//const FWS$ = subexp(subexp(WSP$$ + \"*\" + \"\\\\x0D\\\\x0A\") + \"?\" + WSP$$ + \"+\");\n//const QUOTED_PAIR$ = subexp(subexp(\"\\\\\\\\\\\" + subexp(VCHAR$$ + \"|\" + WSP$$)) + \"|\" + OBS_QP$);\n//const QUOTED_STRING$ = subexp('\\\\\"' + subexp(FWS$ + \"?\" + QCONTENT$) + \"*\" + FWS$ + \"?\" + '\\\\\"');\nconst ATEXT$$ = \"[A-Za-z0-9\\\\!\\\\$\\\\%\\\\'\\\\*\\\\+\\\\-\\\\^\\\\_\\\\`\\\\{\\\\|\\\\}\\\\~]\";\nconst QTEXT$$ = \"[\\\\!\\\\$\\\\%\\\\'\\\\(\\\\)*\\\\+\\\\,\\\\-\\\\.0-9\\\\<\\\\>A-Z\\\\x5E-\\\\x7E]\";\nconst VCHAR$$ = merge(QTEXT$$, \"[\\\\\\\\\\\"\\\\\\\\]\");\nconst DOT_ATOM_TEXT$ = subexp(ATEXT$$ + \"+\" + subexp(\"\\\\.\" + ATEXT$$ + \"+\") + \"*\");\nconst QUOTED_PAIR$ = subexp(\"\\\\\\\\\\\" + VCHAR$$);\nconst QCONTENT$ = subexp(QTEXT$$ + \"|\" + QUOTED_PAIR$);\nconst QUOTED_STRING$ = subexp('\\\\\"' + QCONTENT$ + \"*\" + '\\\\\"');\n\n//RFC 6068\nconst DTEXT_NO_OBS$$ = \"[\\\\x21-\\\\x5A\\\\x5E-\\\\x7E]\"; //%d33-90 / %d94-126\nconst SOME_DELIMS$$ = \"[\\\\!\\\\$\\\\'\\\\(\\\\)*\\\\+\\\\,\\\\;\\\\:\\\\@]\";\nconst QCHAR$ = subexp(UNRESERVED$$ + \"|\" + PCT_ENCODED$ + \"|\" + SOME_DELIMS$$);\nconst DOMAIN$ = subexp(DOT_ATOM_TEXT$ + \"|\" + \"\\\\[\" + DTEXT_NO_OBS$$ + \"*\" + \"\\\\]\");\nconst LOCAL_PART$ = subexp(DOT_ATOM_TEXT$ + \"|\" + QUOTED_STRING$);\nconst ADDR_SPEC$ = subexp(LOCAL_PART$ + \"\\\\@\" + DOMAIN$);\nconst TO$ = subexp(ADDR_SPEC$ + subexp(\"\\\\,\" + ADDR_SPEC$) + \"*\");\nconst HFNAME$ = subexp(QCHAR$ + \"*\");\nconst HFVALUE$ = HFNAME$;\nconst HFIELD$ = subexp(HFNAME$ + \"\\\\=\" + HFVALUE$);\nconst HFIELDS2$ = subexp(HFIELD$ + subexp(\"\\\\&\" + HFIELD$) + \"*\");\nconst HFIELDS$ = subexp(\"\\\\?\" + HFIELDS2$);\nconst MAILTO_URI = new RegExp(\"^mailto\\\\:\" + TO$ + \"?\" + HFIELDS$ + \"?$\");\n\nconst UNRESERVED = new RegExp(UNRESERVED$$, \"g\");\nconst PCT_ENCODED = new RegExp(PCT_ENCODED$, \"g\");\nconst NOT_LOCAL_PART = new RegExp(merge(\"[^]\", ATEXT$$, \"[\\\\.]\", '[\\\\\"]', VCHAR$$), \"g\");\nconst

NOT_DOMAIN = new RegExp(merge(\"[^]\", ATEXT$$, \"[\\\\.]\", \"[\\\\[]\", DTEXT_NO_OBS$$, \"[\\\\]]\"), \"g\");\nconst NOT_HFNAME = new RegExp(merge(\"[^]\", UNRESERVED$$, SOME_DELIMS$$), \"g\");\nconst NOT_HFVALUE = NOT_HFNAME;\nconst TO = new RegExp(\"^\" + TO$ + \"$\");\nconst HFIELDS = new RegExp(\"^\" + HFIELDS2$ + \"$\");\n\nfunction decodeUnreserved(str:string):string {\n\tconst decStr = pctDecChars(str);\n\treturn (!decStr.match(UNRESERVED) ? str : decStr);\n}\n\nconst handler:URISchemeHandler<MailtoComponents> = {\n\tscheme : \"mailto\",\n\n\tparse : function (components:URIComponents, options:URIOptions):MailtoComponents {\n\t\tconst mailtoComponents = components as MailtoComponents;\n\t\tconst to = mailtoComponents.to = (mailtoComponents.path ? mailtoComponents.path.split(\",\") : []);\n\t\tmailtoComponents.path = undefined;\n\n\t\tif (mailtoComponents.query) {\n\t\t\tlet unknownHeaders = false\n\t\t\tconst headers:MailtoHeaders = {};\n\t\t\tconst hfields = mailtoComponents.query.split(\"&\");\n\n\t\t\tfor (let x = 0, xl = hfields.length; x < xl; ++x) {\n\t\t\t\tconst hfield = hfields[x].split(\"=\");\n\n\t\t\t\tswitch (hfield[0]) {\n\t\t\t\tcase \"to\":\n\t\t\t\t\tconst toAddrs = hfield[1].split(\",\");\n\t\t\t\t\tfor (let x = 0, xl = toAddrs.length; x < xl; ++x) {\n\t\t\t\t\tto.push(toAddrs[x]);\n\t\t\t\t}\n\t\t\t\tbreak;\n\t\t\tcase \"subject\":\n\t\t\t\tmailtoComponents.subject = unescapeComponent(hfield[1], options);\n\t\t\t\tbreak;\n\t\t\tcase \"body\":\n\t\t\t\tmailtoComponents.body = unescapeComponent(hfield[1], options);\n\t\t\t\tbreak;\n\t\t\tdefault:\n\t\t\t\tunknownHeaders = true;\n\t\t\t\theaders[unescapeComponent(hfield[0], options)] = unescapeComponent(hfield[1], options);\n\t\t\t\tbreak;\n\t\t}\n\t\t}\n\n\tif (unknownHeaders) mailtoComponents.headers = headers;\n\t}\n\n\tmailtoComponents.query = undefined;\n\n\tfor (let x = 0, xl = to.length; x < xl; ++x) {\n\t\tconst addr = to[x].split(\"@\");\n\n\taddr[0] = unescapeComponent(addr[0]);\n\n\tif (!options.unicodeSupport) {\n\t\t//convert Unicode IDN -> ASCII IDN\n\ttry {\n\t\taddr[1] = punycode.toASCII(unescapeComponent(addr[1], options).toLowerCase());\n\t} catch (e) {\n\tmailtoComponents.error = mailtoComponents.error || \"Email address's domain name can not be converted to ASCII via punycode: \" + e;\n\t}\n\t} else {\n\taddr[1] = unescapeComponent(addr[1], options).toLowerCase();\n\t}\n\n\to[x] = addr.join(\"@\");\n\t}\n\n\treturn mailtoComponents;\n\t},\n\n\tserialize : function (mailtoComponents:MailtoComponents, options:URIOptions):URIComponents {\n\tconst components = mailtoComponents as URIComponents;\n\tconst to = toArray(mailtoComponents.to);\n\tif (to) {\n\tfor (let x = 0, xl = to.length; x < xl; ++x) {\n\tconst toAddr = String(to[x]);\n\t\tconst atIdx = toAddr.lastIndexOf(\"@\");\n\t\tconst localPart = (toAddr.slice(0, atIdx)).replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_LOCAL_PART, pctEncChar);\n\t\tlet domain = toAddr.slice(atIdx + 1);\n\n\t//convert IDN via punycode\n\ttry {\n\tdomain = (!options.iri ? punycode.toASCII(unescapeComponent(domain, options).toLowerCase()) : punycode.toUnicode(domain));\n\t} catch (e) {\n\tcomponents.error = components.error || \"Email address's domain name can not be converted to \" + (!options.iri ? \"ASCII\" : \"Unicode\") + \" via punycode: \" + e;\n\t}\n\n\to[x] = localPart + \"@\" + domain;\n\t}\n\n\tcomponents.path = to.join(\",");\n\t}\n\n\tconst headers = mailtoComponents.headers = mailtoComponents.headers || {};\n\n\tif (mailtoComponents.subject) headers[\"subject\"] = mailtoComponents.subject;\n\tif (mailtoComponents.body) headers[\"body\"] = mailtoComponents.body;\n\n\tconst fields = [];\n\tfor (const name in headers) {\n\tif (headers[name] !== O[name]) {\n\tfields.push(\n\tname.replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_HFNAME, pctEncChar) +\n\t"=\" +\n\theaders[name].replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_HFVALUE, pctEncChar)\n\t);\n\t}\n\t}\n\tif (fields.length) {\n\tcomponents.query = fields.join(\"&");\n\t}\n\n\treturn components;\n\t}\n}\n\nexport default handler;","import { URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\nimport http from \"./http\";\n\nconst handler:URISchemeHandler = {\n\tscheme : \"https\",\n\tdomainHost : http.domainHost,\n\tparse : http.parse,\n\tserialize : http.serialize\n}\n\nexport default handler;","import { URISchemeHandler,

URIComponents, URIOptions } from \"../uri\";\n\nconst handler:URISchemeHandler = {\n\tscheme : \"http\",\n\n\tdomainHost : true,\n\n\tparse : function (components:URIComponents, options:URIOptions):URIComponents {\n\t\t//report missing host\n\t\tif (!components.host) {\n\t\t\tcomponents.error = components.error || \"HTTP URIs must have a host.\";\n\t\t}\n\n\t\treturn components;\n\t},\n\n\tserialize : function (components:URIComponents, options:URIOptions):URIComponents {\n\t\t//normalize the default port\n\t\tif (components.port === (String(components.scheme).toLowerCase() !== \"https\" ? 80 : 443) || components.port === \"\") {\n\t\t\tcomponents.port = undefined;\n\t\t}\n\t\t\n\t\t//normalize the empty path\n\t\tif (!components.path) {\n\t\t\tcomponents.path = \"/\";\n\t\t}\n\n\t\t//NOTE: We do not parse query strings for HTTP URIs\n\t\t//as WWW Form Url Encoded query strings are part of the HTML4+ spec,\n\t\t//and not the HTTP spec.\n\n\t\treturn components;\n\t}\n};\n\nexport default handler;","/**\n * URI.js\n *\n * @fileoverview An RFC 3986 compliant, scheme extendable URI parsing/validating/resolving library for JavaScript.\n * @author Gary Court\n * @see http://github.com/garycourt/uri-js\n */\n\n/**\n * Copyright 2011 Gary Court. All rights reserved.\n *\n * Redistribution and use in source and binary forms, with or without modification, are\n * permitted provided that the following conditions are met:\n *\n * 1. Redistributions of source code must retain the above copyright notice, this list of\n * conditions and the following disclaimer.\n *\n * 2. Redistributions in binary form must reproduce the above copyright notice, this list\n * of conditions and the following disclaimer in the documentation and/or other materials\n * provided with the distribution.\n *\n * THIS SOFTWARE IS PROVIDED BY GARY COURT ``AS IS'' AND ANY EXPRESS OR IMPLIED\n * WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND\n * FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL GARY COURT OR\n * CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR\n * CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR\n * SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON\n * ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING\n * NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF\n * ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.\n *\n * The views and conclusions contained in the software and documentation are those of the\n * authors and should not be interpreted as representing official policies, either expressed\n * or implied, of Gary Court.\n */\n\nimport URI_PROTOCOL from \"./regexps-uri\";\nimport IRI_PROTOCOL from \"./regexps-iri\";\nimport punycode from \"punycode\";\nimport { toUpperCase, typeOf, assign } from \"./util\";\n\nexport interface URIComponents {\n\tscheme?:string;\n\tuserinfo?:string;\n\thost?:string;\n\tport?:number|string;\n\tpath?:string;\n\tquery?:string;\n\tfragment?:string;\n\treference?:string;\n\terror?:string;\n}\n\nexport interface URIOptions {\n\tscheme?:string;\n\treference?:string;\n\ttolerant?:boolean;\n\tabsolutePath?:boolean;\n\tiri?:boolean;\n\tunicodeSupport?:boolean;\n\tdomainHost?:boolean;\n}\n\nexport interface URISchemeHandler<Components extends URIComponents = URIComponents, Options extends URIOptions = URIOptions, ParentComponents extends URIComponents = URIComponents> {\n\tscheme:string;\n\tparse(components:ParentComponents, options:Options):Components;\n\tserialize(components:Components, options:Options):ParentComponents;\n\tunicodeSupport?:boolean;\n\tdomainHost?:boolean;\n\tabsolutePath?:boolean;\n}\n\nexport interface URIRegExps {\n\tNOT_SCHEME : RegExp,\n\tNOT_USERINFO : RegExp,\n\tNOT_HOST : RegExp,\n\tNOT_PATH : RegExp,\n\tNOT_PATH_NOSCHEME : RegExp,\n\tNOT_QUERY : RegExp,\n\tNOT_FRAGMENT : RegExp,\n\tESCAPE : RegExp,\n\tUNRESERVED : RegExp,\n\tOTHER_CHARS : RegExp,\n\tPCT_ENCODED : RegExp,\n\tIPV4ADDRESS : RegExp,\n\tIPV6ADDRESS : RegExp,\n}\n\nexport const SCHEMES:{[scheme:string]:URISchemeHandler} = {};\n\nexport function pctEncChar(chr:string):string {\n\tconst c = chr.charCodeAt(0);\n\tlet e:string;\n\n\tif (c < 16) e = \"%0\" + c.toString(16).toUpperCase();\n\telse if (c < 128) e = \"%\" + c.toString(16).toUpperCase();\n\telse if (c < 2048) e = \"%\" + ((c >> 6) | 192).toString(16).toUpperCase() + \"%\" + ((c & 63) | 128).toString(16).toUpperCase();\n\telse e = \"%\" + ((c >> 12) | 224).toString(16).toUpperCase() + \"%\" + (((c >>

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6) & 63) | 128).toString(16).toUpperCase() + \"%\" + ((c & 63) | 128).toString(16).toUpperCase();\n\n\treturn
e;\n}\n\nexport function pctDecChars(str:string):string {\n\tlet newStr = \"\";\n\tlet i = 0;\n\tconst il =
str.length;\n\n\twhile (i < il) {\n\t\tconst c = parseInt(str.substr(i + 1, 2), 16);\n\n\t\tif (c < 128) {\n\t\t\tnewStr +=
String.fromCharCode(c);\n\t\t\ti += 3;\n\t\t}\n\t\telse if (c >= 194 && c < 224) {\n\t\t\tif ((il - i) >= 6) {\n\t\t\t\tconst
c2 = parseInt(str.substr(i + 4, 2), 16);\n\t\t\t\tnewStr += String.fromCharCode(((c & 31) << 6) | (c2 & 63));\n\t\t\t}
else {\n\t\t\t\tnewStr += str.substr(i, 6);\n\t\t\t}\n\t\t\ti += 6;\n\t\t}\n\t\telse if (c >= 224) {\n\t\t\tif ((il - i) >= 9)
{\n\t\t\t\tconst c2 = parseInt(str.substr(i + 4, 2), 16);\n\t\t\t\tconst c3 = parseInt(str.substr(i + 7, 2), 16);\n\t\t\t\tnewStr
+= String.fromCharCode(((c & 15) << 12) | ((c2 & 63) << 6) | (c3 & 63));\n\t\t\t} else {\n\t\t\t\tnewStr +=
str.substr(i, 9);\n\t\t\t}\n\t\t\ti += 9;\n\t\t}\n\t\telse {\n\t\tnewStr += str.substr(i, 3);\n\t\t\ti +=
3;\n\t\t}\n\t}\n\n\treturn newStr;\n}\n\nfunction _normalizeComponentEncoding(components:URIComponents,
protocol:URIRegExps) {\n\tfunction decodeUnreserved(str:string):string {\n\t\tconst decStr =
pctDecChars(str);\n\t\treturn (!decStr.match(protocol.UNRESERVED) ? str : decStr);\n\t}\n\n\tif
(components.scheme) components.scheme = String(components.scheme).replace(protocol.PCT_ENCODED,
decodeUnreserved).toLowerCase().replace(protocol.NOT_SCHEME, \"\");\n\tif (components.userinfo !==
undefined) components.userinfo = String(components.userinfo).replace(protocol.PCT_ENCODED,
decodeUnreserved).replace(protocol.NOT_USERINFO, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\tif (components.host !== undefined) components.host =
String(components.host).replace(protocol.PCT_ENCODED,
decodeUnreserved).toLowerCase().replace(protocol.NOT_HOST, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\tif (components.path !== undefined) components.path =
String(components.path).replace(protocol.PCT_ENCODED, decodeUnreserved).replace((components.scheme ?
protocol.NOT_PATH : protocol.NOT_PATH_NOSCHEME), pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\tif (components.query !== undefined) components.query =
String(components.query).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_QUERY,
pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);\n\tif (components.fragment !== undefined)
components.fragment = String(components.fragment).replace(protocol.PCT_ENCODED,
decodeUnreserved).replace(protocol.NOT_FRAGMENT, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\n\treturn components;\n};\n\nfunction _stripLeadingZeros(str:string):string {\n\treturn
str.replace(/^0*(.*)/, \"$1\") || \"0\";\n}\n\nfunction _normalizeIPv4(host:string, protocol:URIRegExps):string
{\n\tconst matches = host.match(protocol.IPV4ADDRESS) || [];\n\tconst [, address] = matches;\n\t\n\tif (address)
{\n\t\treturn address.split(\".\").map(_stripLeadingZeros).join(\".\");\n\t} else {\n\t\treturn host;\n\t}\n}\n\nfunction
_normalizeIPv6(host:string, protocol:URIRegExps):string {\n\tconst matches =
host.match(protocol.IPV6ADDRESS) || [];\n\tconst [, address, zone] = matches;\n\n\tif (address) {\n\t\tconst [last,
first] = address.toLowerCase().split('::').reverse();\n\t\tconst firstFields = first ?
first.split(\":\").map(_stripLeadingZeros) : [];\n\t\tconst lastFields =
last.split(\":\").map(_stripLeadingZeros);\n\t\tconst isLastFieldIPv4Address =
protocol.IPV4ADDRESS.test(lastFields[lastFields.length - 1]);\n\t\tconst fieldCount = isLastFieldIPv4Address ? 7 :
8;\n\t\tconst lastFieldsStart = lastFields.length - fieldCount;\n\t\tconst fields = Array<string>(fieldCount);\n\n\t\tfor
(let x = 0; x < fieldCount; ++x) {\n\t\t\tfields[x] = firstFields[x] || lastFields[lastFieldsStart + x] || '';\n\t\t}\n\n\tif
(isLastFieldIPv4Address) {\n\t\t\tfields[fieldCount - 1] = _normalizeIPv4(fields[fieldCount - 1],
protocol);\n\t\t}\n\n\t\tconst allZeroFields = fields.reduce<Array<{index:number,length:number}>>((acc, field,
index) => {\n\t\t\tif (!field || field === \"0\") {\n\t\t\t\tconst lastLongest = acc[acc.length - 1];\n\t\t\t\tif (lastLongest
&& lastLongest.index + lastLongest.length === index) {\n\t\t\t\t\tlastLongest.length++;\n\t\t\t\t} else
{\n\t\t\t\tacc.push({ index, length : 1 });\n\t\t\t}\n\t\t}\n\t\treturn acc;\n\t}, []);\n\n\tconst longestZeroFields =
allZeroFields.sort((a, b) => b.length - a.length)[0];\n\n\tlet newHost:string;\n\tif (longestZeroFields &&
longestZeroFields.length > 1) {\n\t\tconst newFirst = fields.slice(0, longestZeroFields.index) ;\n\t\tconst newLast
= fields.slice(longestZeroFields.index + longestZeroFields.length);\n\t\tnewHost = newFirst.join(\":\") + \"::\" +
newLast.join(\":\");\n\t} else {\n\t\tnewHost = fields.join(\":\");\n\t}\n\n\tif (zone) {\n\t\tnewHost += \"%\" +
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zone;\n\t\t}\n\n\t\treturn newHost;\n\t} else {\n\t\treturn host;\n\t}\n}\n\nconst URI_PARSE =
/^(?:([^:\/?#]+):)?(?:\/\/((?:([^\\/?#@]*)@)?(\\[[^\\/?#\\]]+\\]|[^\\/?#:]*)(?:\\:(\\d*))?))?([^?#]*)(?:\\?([^#]*))?(?:#((?:
.|\\n|\\r)*))?/i;\nconst NO_MATCH_IS_UNDEFINED = (<RegExpMatchArray>(\"\").match(/(){0}/))[1] ===
undefined;\n\nexport function parse(uriString:string, options:URIOptions = {}):URIComponents {\n\tconst
components:URIComponents = {};\n\tconst protocol = (options.iri !== false ? IRI_PROTOCOL :
URI_PROTOCOL);\n\n\tif (options.reference === \"suffix\") uriString = (options.scheme ? options.scheme + \":\" :
\"\") + \"//\" + uriString;\n\n\tconst matches = uriString.match(URI_PARSE);\n\n\tif (matches) {\n\t\tif
(NO_MATCH_IS_UNDEFINED) {\n\t\t\t//store each component\n\t\t\tcomponents.scheme =
matches[1];\n\t\t\tcomponents.userinfo = matches[3];\n\t\t\tcomponents.host = matches[4];\n\t\t\tcomponents.port =
parseInt(matches[5], 10);\n\t\t\tcomponents.path = matches[6] || \"\";\n\t\t\tcomponents.query =
matches[7];\n\t\t\tcomponents.fragment = matches[8];\n\n\t\t\t//fix port number\n\t\t\tif (isNaN(components.port))
{\n\t\t\t\tcomponents.port = matches[5];\n\t\t\t}\n\t\t} else {  //IE FIX for improper RegExp matching\n\t\t\t//store
each component\n\t\t\tcomponents.scheme = matches[1] || undefined;\n\t\t\tcomponents.userinfo =
(uriString.indexOf(\"@\") !== -1 ? matches[3] : undefined);\n\t\t\tcomponents.host = (uriString.indexOf(\"//\") !== -
1 ? matches[4] : undefined);\n\t\t\tcomponents.port = parseInt(matches[5], 10);\n\t\t\tcomponents.path = matches[6]
|| \"\";\n\t\t\tcomponents.query = (uriString.indexOf(\"?\") !== -1 ? matches[7] :
undefined);\n\t\t\tcomponents.fragment = (uriString.indexOf(\"#\") !== -1 ? matches[8] : undefined);\n\n\t\t\t//fix
port number\n\t\t\tif (isNaN(components.port)) {\n\t\t\tcomponents.port =
(uriString.match(/\\/\\/(?:.|\\n)*\\:(?:\\/|\\?|\\#|$)/) ? matches[4] : undefined);\n\t\t\t}\n\t\t}\n\n\t\tif (components.host)
{\n\t\t\t//normalize IP hosts\n\t\t\tcomponents.host = _normalizeIPv6(_normalizeIPv4(components.host, protocol),
protocol);\n\t\t}\n\n\t\t//determine reference type\n\t\tif (components.scheme === undefined &&
components.userinfo === undefined && components.host === undefined && components.port === undefined &&
!components.path && components.query === undefined) {\n\t\t\tcomponents.reference = \"same-document\";\n\t\t}
else if (components.scheme === undefined) {\n\t\t\tcomponents.reference = \"relative\";\n\t\t} else if
(components.fragment === undefined) {\n\t\t\tcomponents.reference = \"absolute\";\n\t\t} else
{\n\t\t\tcomponents.reference = \"uri\";\n\t\t}\n\n\t\t//check for reference errors\n\t\tif (options.reference &&
options.reference !== \"suffix\" && options.reference !== components.reference) {\n\t\t\tcomponents.error =
components.error || \"URI is not a \" + options.reference + \" reference.\";\n\t\t}\n\n\t\t//find scheme
handler\n\t\tconst schemeHandler = SCHEMES[(options.scheme || components.scheme ||
\"\").toLowerCase()];\n\n\t\t//check if scheme can't handle IRIs\n\t\tif (!options.unicodeSupport &&
(!schemeHandler || !schemeHandler.unicodeSupport)) {\n\t\t\t//if host component is a domain name\n\t\t\tif
(components.host && (options.domainHost || (schemeHandler && schemeHandler.domainHost))) {\n\t\t\t\t//convert
Unicode IDN -> ASCII IDN\n\t\t\t\ttry {\n\t\t\t\t\tcomponents.host =
punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase());\n\t\t\t\t}
catch (e) {\n\t\t\t\t\tcomponents.error = components.error || \"Host's domain name can not be converted to ASCII via
punycode: \" + e;\n\t\t\t\t}\n\t\t\t}\n\t\t\t//convert IRI -> URI\n\t\t\t_normalizeComponentEncoding(components,
URI_PROTOCOL);\n\t\t} else {\n\t\t\t//normalize encodings\n\t\t\t_normalizeComponentEncoding(components,
protocol);\n\t\t}\n\n\t\t//perform scheme specific parsing\n\t\tif (schemeHandler && schemeHandler.parse)
{\n\t\t\tschemeHandler.parse(components, options);\n\t\t}\n\t} else {\n\t\tcomponents.error = components.error ||
\"URI can not be parsed.\";\n\t}\n\n\treturn components;\n};\n\nfunction
_recomposeAuthority(components:URIComponents, options:URIOptions):string|undefined {\n\tconst protocol =
(options.iri !== false ? IRI_PROTOCOL : URI_PROTOCOL);\n\tconst uriTokens:Array<string> = [];\n\n\tif
(components.userinfo !== undefined)
{\n\t\turiTokens.push(components.userinfo);\n\t\turiTokens.push(\"@\");\n\t}\n\n\tif (components.host !==
undefined) {\n\t\t//normalize IP hosts, add brackets and escape zone separator for
IPv6\n\t\turiTokens.push(_normalizeIPv6(_normalizeIPv4(String(components.host), protocol),
protocol).replace(protocol.IPV6ADDRESS, (_, $1, $2) => \"[\" + $1 + ($2 ? \"%25\" + $2 : \"\") + \"]\"));\n\t}\n\n\tif
(typeof components.port === \"number\")
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{\n\t\turiTokens.push(\":\");\n\t\turiTokens.push(components.port.toString(10));\n\t}\n\n\treturn uriTokens.length ?
uriTokens.join(\"\") : undefined;\n};\n\nconst RDS1 = /^\\.\\.?\\//;\nconst RDS2 = /^\\/\\.(\\/|$)/;\nconst RDS3 =
/^\\/\\.\\.(\\/|$)/;\nconst RDS4 = /^\\.\\.?$/;\nconst RDS5 = /^\\/?(?:.|\\n)*?(?=\\/|$)/;\n\nexport function
removeDotSegments(input:string):string {\n\tconst output:Array<string> = [];\n\n\twhile (input.length) {\n\t\tif
(input.match(RDS1)) {\n\t\t\tinput = input.replace(RDS1, \"\");\n\t\t} else if (input.match(RDS2)) {\n\t\t\tinput =
input.replace(RDS2, \"/\");\n\t\t} else if (input.match(RDS3)) {\n\t\t\tinput = input.replace(RDS3,
\"/\");\n\t\t\toutput.pop();\n\t\t} else if (input === \".\" || input === \"..\") {\n\t\t\tinput = \"\";\n\t\t} else {\n\t\t\tconst
im = input.match(RDS5);\n\t\t\tif (im) {\n\t\t\t\tconst s = im[0];\n\t\t\t\tinput =
input.slice(s.length);\n\t\t\t\toutput.push(s);\n\t\t\t} else {\n\t\t\tthrow new Error(\"Unexpected dot segment
condition\");\n\t\t}\n\t}\n\t}\n\n\treturn output.join(\"\");\n};\n\nexport function
serialize(components:URIComponents, options:URIOptions = {}):string {\n\tconst protocol = (options.iri ?
IRI_PROTOCOL : URI_PROTOCOL);\n\tconst uriTokens:Array<string> = [];\n\n\t//find scheme handler\n\tconst
schemeHandler = SCHEMES[(options.scheme || components.scheme || \"\").toLowerCase()];\n\n\t//perform scheme
specific serialization\n\tif (schemeHandler && schemeHandler.serialize) schemeHandler.serialize(components,
options);\n\n\tif (components.host) {\n\t\t//if host component is an IPv6 address\n\t\tif
(protocol.IPV6ADDRESS.test(components.host)) {\n\t\t\t//TODO: normalize IPv6 address as per RFC
5952\n\t\t}\n\n\t\t//if host component is a domain name\n\t\telse if (options.domainHost || (schemeHandler &&
schemeHandler.domainHost)) {\n\t\t\t//convert IDN via punycode\n\t\t\ttry {\n\t\t\t\tcomponents.host = (!options.iri
? punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase()) :
punycode.toUnicode(components.host));\n\t\t\t} catch (e) {\n\t\t\t\tcomponents.error = components.error || \"Host's
domain name can not be converted to \" + (!options.iri ? \"ASCII\" : \"Unicode\") + \" via punycode: \" +
e;\n\t\t\t}\n\t\t}\n\t}\n\n\t//normalize encoding\n\t_normalizeComponentEncoding(components, protocol);\n\n\tif
(options.reference !== \"suffix\" && components.scheme)
{\n\t\turiTokens.push(components.scheme);\n\t\turiTokens.push(\":\");\n\t}\n\n\tconst authority =
_recomposeAuthority(components, options);\n\tif (authority !== undefined) {\n\t\tif (options.reference !==
\"suffix\") {\n\t\t\turiTokens.push(\"//\");\n\t\t}\n\n\t\turiTokens.push(authority);\n\n\t\tif (components.path &&
components.path.charAt(0) !== \"/\") {\n\t\t\turiTokens.push(\"/\");\n\t\t}\n\t}\n\n\tif (components.path !==
undefined) {\n\t\tlet s = components.path;\n\n\t\tif (!options.absolutePath && (!schemeHandler ||
!schemeHandler.absolutePath)) {\n\t\t\ts = removeDotSegments(s);\n\t\t}\n\n\t\tif (authority === undefined)
{\n\t\t\ts = s.replace(/^\\/\\//, \"/%2F\");  //don't allow the path to start with
\"//\"\n\t\t}\n\n\t\turiTokens.push(s);\n\t}\n\n\tif (components.query !== undefined)
{\n\t\turiTokens.push(\"?\");\n\t\turiTokens.push(components.query);\n\t}\n\n\tif (components.fragment !==
undefined) {\n\t\turiTokens.push(\"#\");\n\t\turiTokens.push(components.fragment);\n\t}\n\n\treturn
uriTokens.join(\"\");  //merge tokens into a string\n};\n\nexport function resolveComponents(base:URIComponents,
relative:URIComponents, options:URIOptions = {}, skipNormalization?:boolean):URIComponents {\n\tconst
target:URIComponents = {};\n\n\tif (!skipNormalization) {\n\t\tbase = parse(serialize(base, options), options);
//normalize base components\n\t\trelative = parse(serialize(relative, options), options);  //normalize relative
components\n\t}\n\toptions = options || {};\n\n\tif (!options.tolerant && relative.scheme) {\n\t\ttarget.scheme =
relative.scheme;\n\t\t//target.authority = relative.authority;\n\t\ttarget.userinfo = relative.userinfo;\n\t\ttarget.host =
relative.host;\n\t\ttarget.port = relative.port;\n\t\ttarget.path = removeDotSegments(relative.path ||
\"\");\n\t\ttarget.query = relative.query;\n\t} else {\n\t\tif (relative.userinfo !== undefined || relative.host !==
undefined || relative.port !== undefined) {\n\t\t\t//target.authority = relative.authority;\n\t\t\ttarget.userinfo =
relative.userinfo;\n\t\t\ttarget.host = relative.host;\n\t\t\ttarget.port = relative.port;\n\t\t\ttarget.path =
removeDotSegments(relative.path || \"\");\n\t\t\ttarget.query = relative.query;\n\t\t} else {\n\t\t\tif (!relative.path)
{\n\t\t\t\ttarget.path = base.path;\n\t\t\t\tif (relative.query !== undefined) {\n\t\t\t\t\ttarget.query =
relative.query;\n\t\t\t} else {\n\t\t\t\t\ttarget.query = base.query;\n\t\t\t}\n\t\t} else {\n\t\t\tif
(relative.path.charAt(0) === \"/\") {\n\t\t\t\ttarget.path = removeDotSegments(relative.path);\n\t\t\t} else
{\n\t\t\tif ((base.userinfo !== undefined || base.host !== undefined || base.port !== undefined) && !base.path)
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{\n\t\t\t\t\t\ttarget.path = \"/\" + relative.path;\n\t\t\t\t\t} else if (!base.path) {\n\t\t\t\t\t\ttarget.path = relative.path;\n\t\t\t\t\t} else {\n\t\t\t\t\t\ttarget.path = base.path.slice(0, base.path.lastIndexOf(\"/\") + 1) + relative.path;\n\t\t\t\t\t}\n\t\t\t\t\ttarget.path = removeDotSegments(target.path);\n\t\t\t\t}\n\t\t\t\ttarget.query = relative.query;\n\t\t\t}\n\t\t\t//target.authority = base.authority;\n\t\t\ttarget.userinfo = base.userinfo;\n\t\t\ttarget.host = base.host;\n\t\t\ttarget.port = base.port;\n\t\t}\n\t\ttarget.scheme = base.scheme;\n\t}\n\n\ttarget.fragment = relative.fragment;\n\n\treturn target;\n};\n\nexport function resolve(baseURI:string, relativeURI:string, options?:URIOptions):string {\n\tconst schemelessOptions = assign({ scheme : 'null' }, options);\n\treturn serialize(resolveComponents(parse(baseURI, schemelessOptions), parse(relativeURI, schemelessOptions), schemelessOptions, true), schemelessOptions);\n};\n\nexport function normalize(uri:string, options?:URIOptions):string;\nexport function normalize(uri:URIComponents, options?:URIOptions):URIComponents;\nexport function normalize(uri:any, options?:URIOptions):any {\n\tif (typeof uri === \"string\") {\n\t\turi = serialize(parse(uri, options), options);\n\t} else if (typeOf(uri) === \"object\") {\n\t\turi = parse(serialize(<URIComponents>uri, options), options);\n\t}\n\n\treturn uri;\n};\n\nexport function equal(uriA:string, uriB:string, options?: URIOptions):boolean;\nexport function equal(uriA:URIComponents, uriB:URIComponents, options?:URIOptions):boolean;\nexport function equal(uriA:any, uriB:any, options?:URIOptions):boolean {\n\tif (typeof uriA === \"string\") {\n\t\turiA = serialize(parse(uriA, options), options);\n\t} else if (typeOf(uriA) === \"object\") {\n\t\turiA = serialize(<URIComponents>uriA, options);\n\t}\n\n\tif (typeof uriB === \"string\") {\n\t\turiB = serialize(parse(uriB, options), options);\n\t} else if (typeOf(uriB) === \"object\") {\n\t\turiB = serialize(<URIComponents>uriB, options);\n\t}\n\n\treturn uriA === uriB;\n};\n\nexport function escapeComponent(str:string, options?:URIOptions):string {\n\treturn str && str.toString().replace((!options || !options.iri ? URI_PROTOCOL.ESCAPE : IRI_PROTOCOL.ESCAPE), pctEncChar);\n};\n\nexport function unescapeComponent(str:string, options?:URIOptions):string {\n\treturn str && str.toString().replace((!options || !options.iri ? URI_PROTOCOL.PCT_ENCODED : IRI_PROTOCOL.PCT_ENCODED), pctDecChars);\n};\n","'use strict';\n\n/** Highest positive signed 32-bit float value */\nconst maxInt = 2147483647; // aka. 0x7FFFFFFF or 2^31-1\n\n/** Bootstring parameters */\nconst base = 36;\nconst tMin = 1;\nconst tMax = 26;\nconst skew = 38;\nconst damp = 700;\nconst initialBias = 72;\nconst initialN = 128; // 0x80\nconst delimiter = '-'; // '\\x2D'\n\n/** Regular expressions */\nconst regexPunycode = /^xn--/;\nconst regexNonASCII = /[^\\0-\\x7E]/; // non-ASCII chars\nconst regexSeparators = /[\\x2E\\u3002\\uFF0E\\uFF61]/g; // RFC 3490 separators\n\n/** Error messages */\nconst errors = {\n\t'overflow': 'Overflow: input needs wider integers to process',\n\t'not-basic': 'Illegal input >= 0x80 (not a basic code point)',\n\t'invalid-input': 'Invalid input'\n};\n\n/** Convenience shortcuts */\nconst baseMinusTMin = base - tMin;\nconst floor = Math.floor;\nconst stringFromCharCode = String.fromCharCode;\n\n/*--*/\n\n/**\n * A generic error utility function.\n * @private\n * @param {String} type The error type.\n * @returns {Error} Throws a `RangeError` with the applicable error message.\n */\nfunction error(type) {\n\tthrow new RangeError(errors[type]);\n}\n\n/**\n * A generic `Array#map` utility function.\n * @private\n * @param {Array} array The array to iterate over.\n * @param {Function} callback The function that gets called for every array\n * item.\n * @returns {Array} A new array of values returned by the callback function.\n */\nfunction map(array, fn) {\n\tconst result = [];\n\tlet length = array.length;\n\twhile (length--) {\n\t\tresult[length] = fn(array[length]);\n\t}\n\treturn result;\n}\n\n/**\n * A simple `Array#map`-like wrapper to work with domain name strings or email\n * addresses.\n * @private\n * @param {String} domain The domain name or email address.\n * @param {Function} callback The function that gets called for every\n * character.\n * @returns {Array} A new string of characters returned by the callback\n * function.\n */\nfunction mapDomain(string, fn) {\n\tconst parts = string.split('@');\n\tlet result = '';\n\tif (parts.length > 1) {\n\t\t// In email addresses, only the domain name should be punycoded. Leave\n\t\t// the local part (i.e. everything up to `@`) intact.\n\t\tresult = parts[0] + '@';\n\t\tstring = parts[1];\n\t}\n\t// Avoid `split(regex)` for IE8 compatibility. See #17.\n\tstring = string.replace(regexSeparators, '\\x2E');\n\tconst labels = string.split('.');\n\tconst encoded = map(labels, fn).join('.');\n\treturn result + encoded;\n}\n\n/**\n * Creates an array containing the numeric code points of each Unicode\n * character in the string. While JavaScript uses UCS-2 internally,\n * this function will

convert a pair of surrogate halves (each of which\n * UCS-2 exposes as separate characters) into a single code point,\n * matching UTF-16.\n * @see `punycode.ucs2.encode`\n * @see <https://mathiasbynens.be/notes/javascript-encoding>\n * @memberOf punycode.ucs2\n * @name decode\n * @param {String} string The Unicode input string (UCS-2).\n * @returns {Array} The new array of code points.\n */\nfunction ucs2decode(string) {\n\tconst output = [];\n\tlet counter = 0;\n\tconst length = string.length;\n\twhile (counter < length) {\n\t\tconst value = string.charCodeAt(counter++);\n\t\tif (value >= 0xD800 && value <= 0xDBFF && counter < length) {\n\t\t\t// It's a high surrogate, and there is a next character.\n\t\t\tconst extra = string.charCodeAt(counter++);\n\t\t\tif ((extra & 0xFC00) == 0xDC00) { // Low surrogate.\n\t\t\t\toutput.push(((value & 0x3FF) << 10) + (extra & 0x3FF) + 0x10000);\n\t\t\t} else {\n\t\t\t\t// It's an unmatched surrogate; only append this code unit, in case the\n\t\t\t\t// next code unit is the high surrogate of a surrogate pair.\n\t\t\t\toutput.push(value);\n\t\t\t\tcounter--;\n\t\t\t}\n\t\t} else {\n\t\t\toutput.push(value);\n\t\t}\n\t}\n\treturn output;\n}\n\n/**\n * Creates a string based on an array of numeric code points.\n * @see `punycode.ucs2.decode`\n * @memberOf punycode.ucs2\n * @name encode\n * @param {Array} codePoints The array of numeric code points.\n * @returns {String} The new Unicode string (UCS-2).\n */\nconst ucs2encode = array => String.fromCodePoint(...array);\n\n/**\n * Converts a basic code point into a digit/integer.\n * @see `digitToBasic()`\n * @private\n * @param {Number} codePoint The basic numeric code point value.\n * @returns {Number} The numeric value of a basic code point (for use in\n * representing integers) in the range `0` to `base - 1`, or `base` if\n * the code point does not represent a value.\n */\nconst basicToDigit = function(codePoint) {\n\tif (codePoint - 0x30 < 0x0A) {\n\t\treturn codePoint - 0x16;\n\t}\n\tif (codePoint - 0x41 < 0x1A) {\n\t\treturn codePoint - 0x41;\n\t}\n\tif (codePoint - 0x61 < 0x1A) {\n\t\treturn codePoint - 0x61;\n\t}\n\treturn base;\n};\n\n/**\n * Converts a digit/integer into a basic code point.\n * @see `basicToDigit()`\n * @private\n * @param {Number} digit The numeric value of a basic code point.\n * @returns {Number} The basic code point whose value (when used for\n * representing integers) is `digit`, which needs to be in the range\n * `0` to `base - 1`. If `flag` is non-zero, the uppercase form is\n * used; else, the lowercase form is used. The behavior is undefined\n * if `flag` is non-zero and `digit` has no uppercase form.\n */\nconst digitToBasic = function(digit, flag) {\n\t// 0..25 map to ASCII a..z or A..Z\n\t// 26..35 map to ASCII 0..9\n\treturn digit + 22 + 75 * (digit < 26) - ((flag != 0) << 5);\n};\n\n/**\n * Bias adaptation function as per section 3.4 of RFC 3492.\n * https://tools.ietf.org/html/rfc3492#section-3.4\n * @private\n */\nconst adapt = function(delta, numPoints, firstTime) {\n\tlet k = 0;\n\tdelta = firstTime ? floor(delta / damp) : delta >> 1;\n\tdelta += floor(delta / numPoints);\n\tfor (/* no initialization */; delta > baseMinusTMin * tMax >> 1; k += base) {\n\t\tdelta = floor(delta / baseMinusTMin);\n\t}\n\treturn floor(k + (baseMinusTMin + 1) * delta / (delta + skew));\n};\n\n/**\n * Converts a Punycode string of ASCII-only symbols to a string of Unicode\n * symbols.\n * @memberOf punycode\n * @param {String} input The Punycode string of ASCII-only symbols.\n * @returns {String} The resulting string of Unicode symbols.\n */\nconst decode = function(input) {\n\t// Don't use UCS-2.\n\tconst output = [];\n\tconst inputLength = input.length;\n\tlet i = 0;\n\tlet n = initialN;\n\tlet bias = initialBias;\n\n\t// Handle the basic code points: let `basic` be the number of input code\n\t// points before the last delimiter, or `0` if there is none, then copy\n\t// the first basic code points to the output.\n\n\tlet basic = input.lastIndexOf(delimiter);\n\tif (basic < 0) {\n\t\tbasic = 0;\n\t}\n\n\tfor (let j = 0; j < basic; ++j) {\n\t\t// if it's not a basic code point\n\t\tif (input.charCodeAt(j) >= 0x80) {\n\t\t\terror('not-basic');\n\t\t}\n\t\toutput.push(input.charCodeAt(j));\n\t}\n\n\t// Main decoding loop: start just after the last delimiter if any basic code\n\t// points were copied; start at the beginning otherwise.\n\n\tfor (let index = basic > 0 ? basic + 1 : 0; index < inputLength; /* no final expression */) {\n\n\t\t// `index` is the index of the next character to be consumed.\n\t\t// Decode a generalized variable-length integer into `delta`,\n\t\t// which gets added to `i`. The overflow checking is easier\n\t\t// if we increase `i` as we go, then subtract off its starting\n\t\t// value at the end to obtain `delta`.\n\t\tlet oldi = i;\n\t\tfor (let w = 1, k = base; /* no condition */; k += base) {\n\n\t\t\tif (index >= inputLength) {\n\t\t\t\terror('invalid-input');\n\t\t\t}\n\n\t\tconst digit = basicToDigit(input.charCodeAt(index++));\n\n\t\tif (digit >= base || digit > floor((maxInt - i) / w)) {\n\t\t\terror('overflow');\n\t\t}\n\n\ti += digit * w;\n\t\tconst t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);\n\n\t\tif (digit < t) {\n\t\t\tbreak;\n\t\t}\n\n\tconst baseMinusT = base - t;\n\tif (w > floor(maxInt /

baseMinusT)) {\n\t\t\t\terror('overflow');\n\t\t\t}\n\n\t\t\tw *= baseMinusT;\n\n\t\t}\n\n\t\tconst out = output.length + 1;\n\t\tbias = adapt(i - oldi, out, oldi == 0);\n\n\t\t// `i` was supposed to wrap around from `out` to `0`,\n\t\t// incrementing `n` each time, so we'll fix that now:\n\t\tif (floor(i / out) > maxInt - n) {\n\t\t\terror('overflow');\n\t\t}\n\n\t\tn += floor(i / out);\n\t\ti %= out;\n\n\t\t// Insert `n` at position `i` of the output.\n\t\toutput.splice(i++, 0, n);\n\n\t}\n\n\treturn String.fromCodePoint(...output);\n};\n\n/**\n * Converts a string of Unicode symbols (e.g. a domain name label) to a\n * Punycode string of ASCII-only symbols.\n * @memberOf punycode\n * @param {String} input The string of Unicode symbols.\n * @returns {String} The resulting Punycode string of ASCII-only symbols.\n */\nconst encode = function(input) {\n\tconst output = [];\n\n\t// Convert the input in UCS-2 to an array of Unicode code points.\n\tinput = ucs2decode(input);\n\n\t// Cache the length.\n\tlet inputLength = input.length;\n\n\t// Initialize the state.\n\tlet n = initialN;\n\tlet delta = 0;\n\tlet bias = initialBias;\n\n\t// Handle the basic code points.\n\tfor (const currentValue of input) {\n\t\tif (currentValue < 0x80) {\n\t\t\toutput.push(stringFromCharCode(currentValue));\n\t\t}\n\t}\n\n\tlet basicLength = output.length;\n\tlet handledCPCount = basicLength;\n\n\t// `handledCPCount` is the number of code points that have been handled;\n\t// `basicLength` is the number of basic code points.\n\n\t// Finish the basic string with a delimiter unless it's empty.\n\tif (basicLength) {\n\t\toutput.push(delimiter);\n\t}\n\n\t// Main encoding loop:\n\twhile (handledCPCount < inputLength) {\n\n\t\t// All non-basic code points < n have been handled already. Find the next\n\t\t// larger one:\n\t\tlet m = maxInt;\n\t\tfor (const currentValue of input) {\n\t\t\tif (currentValue >= n && currentValue < m) {\n\t\t\t\tm = currentValue;\n\t\t\t}\n\t\t}\n\n\t\t// Increase `delta` enough to advance the decoder's <n,i> state to <m,0>,\n\t\t// but guard against overflow.\n\t\tconst handledCPCountPlusOne = handledCPCount + 1;\n\t\tif (m - n > floor((maxInt - delta) / handledCPCountPlusOne)) {\n\t\t\terror('overflow');\n\t\t}\n\n\t\tdelta += (m - n) * handledCPCountPlusOne;\n\t\tn = m;\n\n\t\tfor (const currentValue of input) {\n\t\t\tif (currentValue < n && ++delta > maxInt) {\n\t\t\t\terror('overflow');\n\t\t\t}\n\t\t\tif (currentValue == n) {\n\t\t\t\t// Represent delta as a generalized variable-length integer.\n\t\t\t\tlet q = delta;\n\t\t\t\tfor (let k = base; /* no condition */; k += base) {\n\t\t\t\t\tconst t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);\n\t\t\t\t\tif (q < t) {\n\t\t\t\t\t\tbreak;\n\t\t\t\t\t}\n\t\t\t\t\tconst qMinusT = q - t;\n\t\t\t\t\tconst baseMinusT = base - t;\n\t\t\t\t\toutput.push(\n\t\t\t\t\t\tstringFromCharCode(digitToBasic(t + qMinusT % baseMinusT, 0))\n\t\t\t\t\t);\n\t\t\t\t\tq = floor(qMinusT / baseMinusT);\n\t\t\t\t}\n\n\t\t\toutput.push(stringFromCharCode(digitToBasic(q, 0)));\n\t\t\tbias = adapt(delta, handledCPCountPlusOne, handledCPCount == basicLength);\n\t\t\tdelta = 0;\n\t\t\t++handledCPCount;\n\t\t}\n\t}\n\n\t++delta;\n\t++n;\n\n}\n\treturn output.join('');\n};\n\n/**\n * Converts a Punycode string representing a domain name or an email address\n * to Unicode. Only the Punycoded parts of the input will be converted, i.e.\n * it doesn't matter if you call it on a string that has already been\n * converted to Unicode.\n * @memberOf punycode\n * @param {String} input The Punycoded domain name or email address to\n * convert to Unicode.\n * @returns {String} The Unicode representation of the given Punycode\n * string.\n */\nconst toUnicode = function(input) {\n\treturn mapDomain(input, function(string) {\n\t\treturn regexPunycode.test(string)\n\t\t? decode(string.slice(4).toLowerCase())\n\t\t: string;\n\t});\n};\n\n/**\n * Converts a Unicode string representing a domain name or an email address to\n * Punycode. Only the non-ASCII parts of the domain name will be converted,\n * i.e. it doesn't matter if you call it with a domain that's already in\n * ASCII.\n * @memberOf punycode\n * @param {String} input The domain name or email address to convert, as a\n * Unicode string.\n * @returns {String} The Punycode representation of the given domain name or\n * email address.\n */\nconst toASCII = function(input) {\n\treturn mapDomain(input, function(string) {\n\t\treturn regexNonASCII.test(string)\n\t\t? 'xn--' + encode(string)\n\t\t: string;\n\t});\n};\n\n/*--*/\n\n/** Define the public API */\nconst punycode = {\n\t/**\n\t * A string representing the current Punycode.js version number.\n\t * @memberOf punycode\n\t * @type String\n\t */\n\t'version': '2.1.0',\n\t/**\n\t * An object of methods to convert from JavaScript's internal character\n\t * representation (UCS-2) to Unicode code points, and back.\n\t * @see <https://mathiasbynens.be/notes/javascript-encoding>\n\t * @memberOf punycode\n\t * @type Object\n\t */\n\t'ucs2': {\n\t\t'decode': ucs2decode,\n\t\t'encode': ucs2encode\n\t},\n\t'decode': decode,\n\t'encode': encode,\n\t'toASCII': toASCII,\n\t'toUnicode':

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toUnicode\n};\n\nexport default punycode;\n","import { URIRegExps } from \"./uri\";\nimport { buildExps } from
\"./regexps-uri\";\n\nexport default buildExps(true);\n","import { URIRegExps } from \"./uri\";\nimport { merge,
subexp } from \"./util\";\n\nexport function buildExps(isIRI:boolean):URIRegExps {\n\tconst\n\t\tALPHA$$ = \"[A-
Za-z]\",\n\t\tCR$ = \"[\\\\x0D]\",\n\t\tDIGIT$$ = \"[0-9]\",\n\t\tDQUOTE$$ = \"[\\\\x22]\",\n\t\tHEXDIG$$ =
merge(DIGIT$$, \"[A-Fa-f]\"),  //case-insensitive\n\t\tLF$$ = \"[\\\\x0A]\",\n\t\tSP$$ =
\"[\\\\x20]\",\n\t\tPCT_ENCODED$ = subexp(subexp(\"%[EFef]\" + HEXDIG$$ + \"%\" + HEXDIG$$ +
HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$) + \"|\" + subexp(\"%[89A-Fa-f]\" + HEXDIG$$ + \"%\" +
HEXDIG$$ + HEXDIG$$) + \"|\" + subexp(\"%\" + HEXDIG$$ + HEXDIG$$)),
//expanded\n\t\tGEN_DELIMS$$ = \"[\\\\:\\\\/\\\\?\\\\#\\\\[\\\\]\\\\@]\",\n\t\tSUB_DELIMS$$ =
\"[\\\\!\\\\$\\\\&\\\\'\\\\(\\\\)\\\\*\\\\+\\\\,\\\\;\\\\=]\",\n\t\tRESERVED$$ = merge(GEN_DELIMS$$,
SUB_DELIMS$$),\n\t\tUCSCHAR$$ = isIRI ? \"[\\\\xA0-\\\\u200D\\\\u2010-\\\\u2029\\\\u202F-
\\\\uD7FF\\\\uF900-\\\\uFDCF\\\\uFDF0-\\\\uFFEF]\" : \"[]\",  //subset, excludes bidi control
characters\n\t\tIPRIVATE$$ = isIRI ? \"[\\\\uE000-\\\\uF8FF]\" : \"[]\",  //subset\n\t\tUNRESERVED$$ =
merge(ALPHA$$, DIGIT$$, \"[\\\\-\\\\.\\\\_\\\\~]\", UCSCHAR$$),\n\t\tSCHEME$ = subexp(ALPHA$$ +
merge(ALPHA$$, DIGIT$$, \"[\\\\+\\\\-\\\\.]\") + \"*\"),\n\t\tUSERINFO$ = subexp(subexp(PCT_ENCODED$ +
\"|\" + merge(UNRESERVED$$, SUB_DELIMS$$, \"[\\\\:]\")) + \"*\"),\n\t\tDEC_OCTET$ =
subexp(subexp(\"25[0-5]\") + \"|\" + subexp(\"2[0-4]\" + DIGIT$$) + \"|\" + subexp(\"1\" + DIGIT$$ + DIGIT$$) +
\"|\" + subexp(\"[1-9]\" + DIGIT$$) + \"|\" + DIGIT$$),\n\t\tDEC_OCTET_RELAXED$ = subexp(subexp(\"25[0-
5]\") + \"|\" + subexp(\"2[0-4]\" + DIGIT$$) + \"|\" + subexp(\"1\" + DIGIT$$ + DIGIT$$) + \"|\" + subexp(\"0?[1-
9]\" + DIGIT$$) + \"|0?0?\" + DIGIT$$),  //relaxed parsing rules\n\t\tIPV4ADDRESS$ =
subexp(DEC_OCTET_RELAXED$ + \"\\\\.\" + DEC_OCTET_RELAXED$ + \"\\\\.\" +
DEC_OCTET_RELAXED$ + \"\\\\.\" + DEC_OCTET_RELAXED$),\n\t\tH16$ = subexp(HEXDIG$$ +
\"{1,4}\"),\n\t\tLS32$ = subexp(subexp(H16$ + \"\\\\:\" + H16$) + \"|\" + IPV4ADDRESS$),\n\t\tIPV6ADDRESS1$
= subexp(                                    subexp(H16$ + \"\\\\:\") + \"{6}\" + LS32$), //                    6(
h16 \":\" ) ls32\n\t\tIPV6ADDRESS2$ = subexp(                                    \"\\\\:\\\\:\" + subexp(H16$ + \"\\\\:\")
+ \"{5}\" + LS32$), //                    \"::\" 5( h16 \":\" ) ls32\n\t\tIPV6ADDRESS3$ = subexp(subexp(
    H16$) + \"?\\\\:\\\\:\" + subexp(H16$ + \"\\\\:\") + \"{4}\" + LS32$), //[              h16 ] \"::\" 4( h16 \":\" )
ls32\n\t\tIPV6ADDRESS4$ = subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,1}\" + H16$) + \"?\\\\:\\\\:\" +
subexp(H16$ + \"\\\\:\") + \"{3}\" + LS32$), //[ *1( h16 \":\" ) h16 ] \"::\" 3( h16 \":\" ) ls32\n\t\tIPV6ADDRESS5$
= subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,2}\" + H16$) + \"?\\\\:\\\\:\" + subexp(H16$ + \"\\\\:\") + \"{2}\" +
LS32$), //[ *2( h16 \":\" ) h16 ] \"::\" 2( h16 \":\" ) ls32\n\t\tIPV6ADDRESS6$ = subexp(subexp(subexp(H16$ +
\"\\\\:\") + \"{0,3}\" + H16$) + \"?\\\\:\\\\:\" +        H16$ + \"\\\\:\"          + LS32$), //[ *3( h16 \":\" ) h16 ] \"::\"    h16
\":\"   ls32\n\t\tIPV6ADDRESS7$ = subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,4}\" + H16$) + \"?\\\\:\\\\:\"
                + LS32$), //[ *4( h16 \":\" ) h16 ] \"::\"            ls32\n\t\tIPV6ADDRESS8$ =
subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,5}\" + H16$) + \"?\\\\:\\\\:\"                          + H16$ ), //[ *5( h16
\":\" ) h16 ] \"::\"            h16\n\t\tIPV6ADDRESS9$ = subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,6}\" + H16$)
+ \"?\\\\:\\\\:\"                                ), //[ *6( h16 \":\" ) h16 ] \"::\"\n\t\tIPV6ADDRESS$ =
subexp([IPV6ADDRESS1$, IPV6ADDRESS2$, IPV6ADDRESS3$, IPV6ADDRESS4$, IPV6ADDRESS5$,
IPV6ADDRESS6$, IPV6ADDRESS7$, IPV6ADDRESS8$, IPV6ADDRESS9$].join(\"|\")),\n\t\tZONEID$ =
subexp(subexp(UNRESERVED$$ + \"|\" + PCT_ENCODED$) + \"+\"),  //RFC 6874\n\t\tIPV6ADDRZ$ =
subexp(IPV6ADDRESS$ + \"\\\\%25\" + ZONEID$),  //RFC 6874\n\t\tIPV6ADDRZ_RELAXED$ =
subexp(IPV6ADDRESS$ + subexp(\"\\\\%25|\\\\%(?!\" + HEXDIG$$ + \"{2})\") + ZONEID$),  //RFC 6874, with
relaxed parsing rules\n\t\tIPVFUTURE$ = subexp(\"[vV]\" + HEXDIG$$ + \"+\\\\.\" + merge(UNRESERVED$$,
SUB_DELIMS$$, \"[\\\\:]\") + \"+\"),\n\t\tIP_LITERAL$ = subexp(\"\\\\[\" + subexp(IPV6ADDRZ_RELAXED$ +
\"|\" + IPV6ADDRESS$ + \"|\" + IPVFUTURE$) + \"\\\\]\"),  //RFC 6874\n\t\tREG_NAME$ =
subexp(subexp(PCT_ENCODED$ + \"|\" + merge(UNRESERVED$$, SUB_DELIMS$$)) + \"*\"),\n\t\tHOST$ =
subexp(IP_LITERAL$ + \"|\" + IPV4ADDRESS$ + \"(?!\" + REG_NAME$ + \")\" + \"|\" +
REG_NAME$),\n\t\tPORT$ = subexp(DIGIT$$ + \"*\"),\n\t\tAUTHORITY$ = subexp(subexp(USERINFO$ +
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\"@\") + \"?\" + HOST$ + subexp(\"\\\\:\" + PORT$) + \"?\"),\n\t\tPCHAR$ = subexp(PCT_ENCODED$ + \"|\" +
merge(UNRESERVED$$, SUB_DELIMS$$, \"[\\\\:\\\\@]\")),\n\t\tSEGMENT$ = subexp(PCHAR$ +
\"*\"),\n\t\tSEGMENT_NZ$ = subexp(PCHAR$ + \"+\"),\n\t\tSEGMENT_NZ_NC$ =
subexp(subexp(PCT_ENCODED$ + \"|\" + merge(UNRESERVED$$, SUB_DELIMS$$, \"[\\\\@]\")) +
\"+\"),\n\t\tPATH_ABEMPTY$ = subexp(subexp(\"\\\\/\" + SEGMENT$) + \"*\"),\n\t\tPATH_ABSOLUTE$ =
subexp(\"\\\\/\" + subexp(SEGMENT_NZ$ + PATH_ABEMPTY$) + \"?\"),  //simplified\n\t\tPATH_NOSCHEME$
= subexp(SEGMENT_NZ_NC$ + PATH_ABEMPTY$),  //simplified\n\t\tPATH_ROOTLESS$ =
subexp(SEGMENT_NZ$ + PATH_ABEMPTY$),  //simplified\n\t\tPATH_EMPTY$ = \"(?!\" + PCHAR$ +
\")\",\n\t\tPATH$ = subexp(PATH_ABEMPTY$ + \"|\" + PATH_ABSOLUTE$ + \"|\" + PATH_NOSCHEME$ +
\"|\" + PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$),\n\t\tQUERY$ = subexp(subexp(PCHAR$ + \"|\" +
merge(\"[\\\\/\\\\?]\", IPRIVATE$$)) + \"*\"),\n\t\tFRAGMENT$ = subexp(subexp(PCHAR$ + \"|[\\\\/\\\\?]\") +
\"*\"),\n\t\tHIER_PART$ = subexp(subexp(\"\\\\/\\\\/\" + AUTHORITY$ + PATH_ABEMPTY$) + \"|\" +
PATH_ABSOLUTE$ + \"|\" + PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$),\n\t\tURI$ = subexp(SCHEME$ +
\"\\\\:\" + HIER_PART$ + subexp(\"\\\\?\" + QUERY$) + \"?\" + subexp(\"\\\\#\" + FRAGMENT$) +
\"?\"),\n\t\tRELATIVE_PART$ = subexp(subexp(\"\\\\/\\\\/\" + AUTHORITY$ + PATH_ABEMPTY$) + \"|\" +
PATH_ABSOLUTE$ + \"|\" + PATH_NOSCHEME$ + \"|\" + PATH_EMPTY$),\n\t\tRELATIVE$ =
subexp(RELATIVE_PART$ + subexp(\"\\\\?\" + QUERY$) + \"?\" + subexp(\"\\\\#\" + FRAGMENT$) +
\"?\"),\n\t\tURI_REFERENCE$ = subexp(URI$ + \"|\" + RELATIVE$),\n\t\tABSOLUTE_URI$ =
subexp(SCHEME$ + \"\\\\:\" + HIER_PART$ + subexp(\"\\\\?\" + QUERY$) + \"?\"),\n\n\t\tGENERIC_REF$ =
\"^(\" + SCHEME$ + \")\\\\:\" + subexp(subexp(\"\\\\/\\\\/(\" + subexp(\"(\" + USERINFO$ + \")@\") + \"?(\" +
HOST$ + \")\" + subexp(\"\\\\:(\" + PORT$ + \")\") + \"?)\") + \"?(\" + PATH_ABEMPTY$ + \"|\" +
PATH_ABSOLUTE$ + \"|\" + PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$ + \")\") + subexp(\"\\\\?(\" +
QUERY$ + \")\") + \"?\" + subexp(\"\\\\#(\" + FRAGMENT$ + \")\") + \"?$\",\n\t\tRELATIVE_REF$ = \"^(){0}\" +
subexp(subexp(\"\\\\/\\\\/(\" + subexp(\"(\" + USERINFO$ + \")@\") + \"?(\" + HOST$ + \")\" + subexp(\"\\\\:(\" +
PORT$ + \")\") + \"?)\") + \"?(\" + PATH_ABEMPTY$ + \"|\" + PATH_ABSOLUTE$ + \"|\" +
PATH_NOSCHEME$ + \"|\" + PATH_EMPTY$ + \")\") + subexp(\"\\\\?(\" + QUERY$ + \")\") + \"?\" +
subexp(\"\\\\#(\" + FRAGMENT$ + \")\") + \"?$\",\n\t\tABSOLUTE_REF$ = \"^(\" + SCHEME$ + \")\\\\:\" +
subexp(subexp(\"\\\\/\\\\/(\" + subexp(\"(\" + USERINFO$ + \")@\") + \"?(\" + HOST$ + \")\" + subexp(\"\\\\:(\" +
PORT$ + \")\") + \"?)\") + \"?(\" + PATH_ABEMPTY$ + \"|\" + PATH_ABSOLUTE$ + \"|\" +
PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$ + \")\") + subexp(\"\\\\?(\" + QUERY$ + \")\") +
\"?$\",\n\t\tSAMEDOC_REF$ = \"^\" + subexp(\"\\\\#(\" + FRAGMENT$ + \")\") +
\"?$\",\n\t\tAUTHORITY_REF$ = \"^\" + subexp(\"(\" + USERINFO$ + \")@\") + \"?(\" + HOST$ + \")\" +
subexp(\"\\\\:(\" + PORT$ + \")\") + \"?$\"\n\t;\n\n\treturn {\n\t\tNOT_SCHEME : new RegExp(merge(\"[^]\",
ALPHA$$, DIGIT$$, \"[\\\\+\\\\-\\\\.]\"), \"g\"),\n\t\tNOT_USERINFO : new RegExp(merge(\"[^\\\\%\\\\:]\",
UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tNOT_HOST : new RegExp(merge(\"[^\\\\%\\\\[\\\\]\\\\:]\",
UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tNOT_PATH : new RegExp(merge(\"[^\\\\%\\\\/\\\\:\\\\@]\",
UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tNOT_PATH_NOSCHEME : new
RegExp(merge(\"[^\\\\%\\\\/\\\\@]\", UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tNOT_QUERY : new
RegExp(merge(\"[^\\\\%]\", UNRESERVED$$, SUB_DELIMS$$, \"[\\\\:\\\\@\\\\/\\\\?]\", IPRIVATE$$),
\"g\"),\n\t\tNOT_FRAGMENT : new RegExp(merge(\"[^\\\\%]\", UNRESERVED$$, SUB_DELIMS$$,
\"[\\\\:\\\\@\\\\/\\\\?]\"), \"g\"),\n\t\tESCAPE : new RegExp(merge(\"[^]\", UNRESERVED$$, SUB_DELIMS$$),
\"g\"),\n\t\tUNRESERVED : new RegExp(UNRESERVED$$, \"g\"),\n\t\tOTHER_CHARS : new
RegExp(merge(\"[^\\\\%]\", UNRESERVED$$, RESERVED$$), \"g\"),\n\t\tPCT_ENCODED : new
RegExp(PCT_ENCODED$, \"g\"),\n\t\tIPV4ADDRESS : new RegExp(\"^(\" + IPV4ADDRESS$ +
\")$\"),\n\t\tIPV6ADDRESS : new RegExp(\"^\\\\[?(\" + IPV6ADDRESS$ + \")\" +
subexp(subexp(\"\\\\%25|\\\\%(?!\" + HEXDIG$$ + \"{2})\") + \"(\" + ZONEID$ + \")\") + \"?\\\\]?$\")  //RFC 6874,
with relaxed parsing rules\n\t};\n}\n\nexport default buildExps(false);\n","export function
merge(...sets:Array<string>):string {\n\tif (sets.length > 1) {\n\t\tsets[0] = sets[0].slice(0, -1);\n\t\tconst xl =
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sets.length - 1;\n\t\tfor (let x = 1; x < xl; ++x) {\n\t\t\tsets[x] = sets[x].slice(1, -1);\n\t\t}\n\t\tsets[xl] = sets[xl].slice(1);\n\t\treturn sets.join('');\n\t} else {\n\t\treturn sets[0];\n\t}\n}\n\nexport function subexp(str:string):string {\n\treturn \"(?:\" + str + \")\";\n}\n\nexport function typeOf(o:any):string {\n\treturn o === undefined ? \"undefined\" : (o === null ? \"null\" : Object.prototype.toString.call(o).split(\" \").pop().split(\"]\").shift().toLowerCase());\n}\n\nexport function toUpperCase(str:string):string {\n\treturn str.toUpperCase();\n}\n\nexport function toArray(obj:any):Array<any> {\n\treturn obj !== undefined && obj !== null ? (obj instanceof Array ? obj : (typeof obj.length !== \"number\" || obj.split || obj.setInterval || obj.call ? [obj] : Array.prototype.slice.call(obj))) : [];\n}\n\n\nexport function assign(target: object, source: any): any {\n\tconst obj = target as any;\n\tif (source) {\n\t\tfor (const key in source) {\n\t\t\tobj[key] = source[key];\n\t\t}\n\t}\n\treturn obj;\n}"],"names":["SCHEMES","uuid","scheme","urn","mailto","https","http","urnComponents","nss","uuidComponents","toLowerCase","options","error","tolerant","match","UUID","undefined","handler","uriComponents","path","nid","schemeHandler","serialize","urnScheme","parse","matches","components","URN_PARSE","query","fields","join","length","push","name","replace","PCT_ENCODED","decodeUnreserved","toUpperCase","NOT_HFNAME","pctEncChar","headers","NOT_HFVALUE","O","mailtoComponents","body","subject","to","x","localPart","domain","iri","e","punycode","toASCII","unescapeComponent","toUnicode","toAddr","slice","atIdx","NOT_LOCAL_PART","lastIndexOf","String","xl","toArray","addr","unicodeSupport","split","unknownHeaders","hfield","toAddrs","hfields","decStr","UNRESERVED","str","pctDecChars","RegExp","merge","UNRESERVED$$","SOME_DELIMS$$","ATEXT$$","VCHAR$$","PCT_ENCODED$","QTEXT$$","subexp","HEXDIG$$","isIRI","domainHost","port","host","toString","URI_PROTOCOL","IRI_PROTOCOL","ESCAPE","escapeComponent","uriA","uriB","typeOf","equal","uri","normalize","resolveComponents","baseURI","schemelessOptions","relativeURI","assign","resolve","target","fragment","relative","base","userinfo","removeDotSegments","charAt","skipNormalization","uriTokens","s","authority","absolutePath","reference","_recomposeAuthority","protocol","IPV6ADDRESS","test","output","Error","input","im","RDS5","pop","RDS3","RDS2","RDS1","$1","$2","_normalizeIPv6","_normalizeIPv4","_","uriString","isNaN","indexOf","parseInt","NO_MATCH_IS_UNDEFINED","URI_PARSE","newHost","zone","newFirst","newLast","longestZeroFields","index","b","a","allZeroFields","sort","acc","lastLongest","field","reduce","fieldCount","isLastFieldIPv4Address","firstFields","lastFields","lastFieldsStart","Array","IPV4ADDRESS","last","map","_stripLeadingZeros","first","address","reverse","NOT_FRAGMENT","NOT_QUERY","NOT_PATH","NOT_PATH_NOSCHEME","NOT_HOST","NOT_USERINFO","NOT_SCHEME","_normalizeComponentEncoding","newStr","substr","i","fromCharCode","c","c2","c3","il","chr","charCodeAt","encode","decode","ucs2encode","ucs2decode","regexNonASCII","string","mapDomain","regexPunycode","n","delta","handledCPCount","adapt","handledCPCountPlusOne","basicLength","stringFromCharCode","digitToBasic","q","floor","qMinusT","baseMinusT","t","k","bias","tMin","tMax","currentValue","maxInt","m","inputLength","delimiter","initialBias","initialN","fromCodePoint","splice","out","oldi","w","digit","basicToDigit","basic","j","baseMinusTMin","skew","numPoints","firstTime","damp","flag","codePoint","array","value","extra","counter","result","encoded","labels","fn","regexSeparators","parts","RangeError","errors","type","Math","buildExps","IPV6ADDRESS$","ZONEID$","IPV4ADDRESS$","RESERVED$$","SUB_DELIMS$$","IPRIVATE$$","ALPHA$$","DIGIT$$","AUTHORITY_REF$","USERINFO$","HOST$","PORT$","SAMEDOC_REF$","FRAGMENT$","ABSOLUTE_REF$","SCHEME$","PATH_ABEMPTY$","PATH_ABSOLUTE$","PATH_ROOTLESS$","PATH_EMPTY$","QUERY$","RELATIVE_REF$","PATH_NOSCHEME$","GENERIC_REF$","ABSOLUTE_URI$","HIER_PART$","URI_REFERENCE$","URI$","RELATIVE$","RELATIVE_PART$","AUTHORITY$","PCHAR$","PATH$","SEGMENT_NZ$","SEGMENT_NZ_NC$","SEGMENT$","IP_LITERAL$","REG_NAME$","IPV6ADDRZ_RELAXED$","IPVFUTURE$","IPV6ADDRESS1$","IPV6ADDRESS2$","IPV6ADDRESS3$","IPV6ADDRESS4$","IPV6ADDRESS5$","IPV6ADDRESS6$","IPV6ADDRESS7$","IPV6ADDRESS8$","IPV6ADDRESS9$","H16$","LS32$","DEC_OCTET_RELAXED$","DEC_OCTET$","UCSCHAR$$","GEN_DELIMS$$","SP$$","DQUOTE$$","CR$","obj","key","source","setInterval","call","prototype","o","Object","shift","sets"],"mappings":";;;;;;;AUAA,SAAA4E,KAAAA,GAAAA;sCAAyBkP,IAAzB;YAAAA;;;QACKA,KAAAK/R,MAAAL,GAAAc,CAAAlB,EAAAqB;aACf,CAAAL,IAAAU+R,KAAAK,CAAAL,EAAAQrQ,KAAAR,CAAAc,CAAAd,EAAAiB,CAAAC,CAAAlB,CAAAV;YACMK,KAAAKgQ,KAAAK/R,MAAAL,GAAAc,CAAAzB;aACK,IAAAIgB,IAAAI,CAAAb,EAAAgBA,IAAAIe,EAApB,EAAAwB,EAAAEf,CAA1B,EAA6B;iBACvBA,CAAAL,IAAAU+Q,KAAAK/Q

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Found in path(s):
* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/dist/es5/uri.all.js.map
No license file was found, but licenses were detected in source scan.

```
import resolve from 'rollup-plugin-node-resolve';
import babel from 'rollup-plugin-babel';
const packageJson = require('./package.json');

export default {
 entry : "dist/esnext/index.js",
 format : "umd",
 moduleName : "URI",
 plugins: [
  resolve({
   module: true,
   jsnext: true,
   preferBuiltins: false
  }),

  babel({
    "presets": [
      ["latest", {
        "es2015": {
          "modules": false
        }
      }]
    ],
    "plugins": ["external-helpers"],
    "externalHelpers": false
  }
)
 ],
```

```
 dest  : "dist/es5/uri.all.js",
 sourceMap: true,
 banner: "/** @license URI.js v" + packageJson.version + " (c) 2011 Gary Court. License:
http://github.com/garycourt/uri-js */"
}
```

Found in path(s):
* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/rollup.config.js
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*/
```

Found in path(s):
* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/dist/esnext/uri.js
* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-

4f6f600/src/uri.ts

1.468 colorama 0.4.1

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1.469 python-ldap 3.1.0

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1.470 pvutils 1.0.12

1.471 unicodecsv 0.14.1

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1.472 is-extendable 0.1.1

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1.473 asgiref 3.2.3

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1.474 regenerate 1.3.3

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1.475 bash 5.0.16

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