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Contents

1.1 normalize-path 2.1.1 2.1.1

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1.2 array-flatten 1.1.1 1.1.1

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1.3 react-dom 15.6.1 15.6.1

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1.4 fs-finder 1.8.1 1.8.1

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1.8 decompress-response 3.3.0 3.3.0

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1.9 detect-libc 1.0.3 1.0.3

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1.11 async 1.5.2 1.5.2

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1.15 has-symbol-support-x 1.4.2 1.4.2

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1.16 debug 3.2.6 3.2.6

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1.17 readable-stream 1.1.14 1.1.14

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1.26 react-motion 0.4.8 0.4.8

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1.28 form-data 0.1.4 0.1.4

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1.29 i18n 2.0.6 2.0.6

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1.30 ast-types 0.9.11 0.9.11

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1.32 rc-tooltip 3.4.7 3.4.7

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1.33 jsprim 1.4.1 1.4.1

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1.35 q 1.0.1 1.0.1

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1.36 @mapbox/mapbox-sdk 0.9.0 0.9.0

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1.38 config 1.26.1 1.26.1

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1.40 amdefine 1.0.1 1.0.1

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1.49 dns-prefetch-control 0.1.0 0.1.0

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1.50 @mapbox/tiny-sdf 1.1.1 1.1.1

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1.51 stack-chain 1.3.7 1.3.7

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1.52 mime-db 1.40.0 1.40.0

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1.53 block-stream 0.0.9 0.0.9

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1.54 align-text 0.1.4 0.1.4

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1.55 topo 1.1.0 1.1.0

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1.56 string-width 1.0.2 1.0.2

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1.57 @mapbox/mapbox-gl-style-spec 13.3.0 13.3.0

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1.58 lodash.get 4.4.2 4.4.2

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1.59 getpass 0.1.7 0.1.7

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1.60 ws 1.1.1 1.1.1

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1.61 hoist-non-react-statics 1.2.0 1.2.0

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1.62 babylon 5.8.38 5.8.38

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1.63 classnames 2.2.6 2.2.6

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1.64 colors 0.6.2 0.6.2

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1.65 readable-stream 2.2.9 2.2.9

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1.66 ansi-styles 1.0.0 1.0.0

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1.67 crc 3.4.4 3.4.4

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1.68 anymatch 1.3.2 1.3.2

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1.69 glob 7.1.2 7.1.2

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* /opt/ws_local/PERMITS_SQL/1034316703_1588680875.17/0/spdx-exceptions-2-3-0-tgz/package/README.md

1.80 minimist 1.2.0 1.2.0

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1.83 forever-agent 0.5.2 0.5.2

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1.93 ms 2.1.1 2.1.1

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1.100 arraybuffer.slice 0.0.7 0.0.7

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1.102 @types/body-parser 1.17.0 1.17.0

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1.103 on-finished 2.3.0 2.3.0

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1.104 dashdash 1.14.1 1.14.1

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1.105 add-dom-event-listener 1.0.2 1.0.2

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1.106 parseqs 0.0.5 0.0.5

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1.107 uglify-js 3.4.9 3.4.9

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1.110 js-beautify 1.4.2 1.4.2

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1.111 glob 6.0.4 6.0.4

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1.114 source-map 0.6.1 0.6.1

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1.117 ieee754 1.1.12 1.1.12

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1.130 mapbox-gl 0.51.0-beta.2 0.51.0-beta.2

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1.131 react 15.6.2 15.6.2

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1.132 regenerator-runtime 0.10.5 0.10.5

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1.133 has-flag 3.0.0 3.0.0

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1.134 body-parser 1.17.2 1.17.2

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1.135 sntp 1.0.9 1.0.9

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1.136 balanced-match 0.4.2 0.4.2

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1.137 xtend 4.0.2 4.0.2

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1.138 from2 2.3.0 2.3.0

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1.139 chalk 0.4.0 0.4.0

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1.140 engine.io 3.3.2 3.3.2

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1.141 quickselect 2.0.0 2.0.0

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1.142 validate-npm-package-license 3.0.4 3.0.4

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validate-npm-package-license
============================

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript

var assert = require('assert');
var validSPDXExpression = {
 validForNewPackages: true,
 validForOldPackages: true,
 spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```

The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
 valid('Apache 2.0'),
 {
   validForOldPackages: false,
   validForNewPackages: false,
   warnings: [
     'license should be ' +
     'a valid SPDX license expression (without "LicenseRef"), ' +
     '"UNLICENSED", or ' +
     '"SEE LICENSE IN <filename>"',
     'license is similar to the valid expression "Apache-2.0"'
   ]
 }
);
```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
 valid('(GPL-3.0-only OR BSD-2-Clause)'),
 validSPDXExpression
);
```

... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
 validForOldPackages: false,
 validForNewPackages: false,
 spdx: true,
 warnings: [
   'license should be ' +
   'a valid SPDX license expression (without "LicenseRef"), ' +
   '"UNLICENSED", or ' +
   '"SEE LICENSE IN <filename>"',
 ]
};

assert.deepEqual(
 valid('LicenseRef-Made-Up'),
 warningAboutLicenseRef
);

assert.deepEqual(
 valid('(MIT OR LicenseRef-Made-Up)'),
 warningAboutLicenseRef
);
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(
 valid('SEE LICENSE IN LICENSE.txt'),
 {
   validForNewPackages: true,
   validForOldPackages: true,
   inFile: 'LICENSE.txt'
 }
);

assert.deepEqual(
 valid('SEE LICENSE IN license.md'),
 {
   validForNewPackages: true,
   validForOldPackages: true,
   inFile: 'license.md'
 }
);
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
 validForNewPackages: true,
 validForOldPackages: true,
 unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```

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1.143 image-size 0.5.5 0.5.5

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1.144 utils-merge 1.0.0 1.0.0

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1.145 ecdsa-sig-formatter 1.0.11 1.0.11

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1.146 is-glob 2.0.1 2.0.1

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1.147 safe-buffer 5.1.1 5.1.1

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1.148 @mapbox/mapbox-gl-supported 1.5.0 1.5.0

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1.149 mongodb 2.2.36 2.2.36

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1.150 isarray 1.0.0 1.0.0

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1.151 http-cache-semantics 3.8.1 3.8.1

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1.153 lodash 4.17.15 4.17.15

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1.155 lazy-cache 1.0.4 1.0.4

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1.156 read-pkg-up 3.0.0 3.0.0

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1.157 pbf 3.2.1 3.2.1

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1.158 content-security-policy-builder 1.0.0 1.0.0

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1.159 socket.io-adapter 0.5.0 0.5.0

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1.160 rc-tree 1.6.1 1.6.1

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1.162 bcrypt-pbkdf 1.0.1 1.0.1

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1.163 async-each 1.0.1 1.0.1

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1.164 create-react-class 15.6.3 15.6.3

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1.165 babel-runtime 6.26.0 6.26.0

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1.166 path-to-regexp 0.1.7 0.1.7

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1.169 chalk 2.4.2 2.4.2

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1.171 node-dir 0.1.17 0.1.17

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1.173 punycode 2.1.1 2.1.1

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1.174 react 16.8.6 16.8.6

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1.175 keycode 2.2.0 2.2.0

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1.176 warning 4.0.3 4.0.3

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1.177 for-own 0.1.5 0.1.5

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1.178 source-map 0.5.7 0.5.7

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1.181 datatables.net-responsive-dt 2.1.1 2.1.1

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1.183 readable-stream 3.6.0 3.6.0

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1.187 aws-sign2 0.5.0 0.5.0

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1.194 react-prop-types 0.4.0 0.4.0

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1.195 buffer-more-ints 0.0.2 0.0.2

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1.196 send 0.13.2 0.13.2

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1.197 remove-trailing-separator 1.1.0 1.1.0

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1.198 datatables.net-dt 1.10.13 1.10.13

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1.199 moment 2.14.1 2.14.1

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1.200 sntp 0.2.4 0.2.4

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1.201 detect-libc 1.0.2 1.0.2

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1.202 ini 1.3.5 1.3.5

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1.203 component-inherit 0.0.3 0.0.3

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1.204 backbone.stickit 0.9.2 0.9.2

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1.206 linkify-it 2.0.3 2.0.3

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1.207 recast 0.12.6 0.12.6

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1.208 cls-hooked 4.2.2 4.2.2

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1.210 @types/serve-static 1.13.2 1.13.2

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1.211 expand-brackets 0.1.5 0.1.5

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1.212 delegate 3.1.3 3.1.3

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1.214 ua-parser-js 0.7.14 0.7.14

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1.220 shallowequal 0.2.2 0.2.2

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1.239 amcharts3-responsive 1.0.5 1.0.5

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1.240 classnames 2.2.5 2.2.5

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1.251 dom-helpers 3.3.1 3.3.1

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1.252 async 2.6.1 2.6.1

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1.253 good-listener 1.2.2 1.2.2

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1.254 bitsyntax 0.0.4 0.0.4

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1.255 hoek 2.16.3 2.16.3

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1.256 recompose 0.25.0 0.25.0

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1.257 into-stream 3.1.0 3.1.0

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1.258 @types/range-parser 1.2.3 1.2.3

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1.259 arraybuffer.slice 0.0.6 0.0.6

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1.260 @babel/runtime 7.3.4 7.3.4

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1.261 query-string 5.1.1 5.1.1

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1.262 debug 3.1.0 3.1.0

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1.263 brace-expansion 1.1.8 1.1.8

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1.264 fsevents 1.1.3 1.1.3

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1.265 joi 6.10.1 6.10.1

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1.266 blob 0.0.4 0.0.4

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1.267 mime 1.2.11 1.2.11

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1.268 case-sensitive-paths-webpack-plugin 2.1.1 2.1.1

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1.269 semver 5.7.0 5.7.0

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1.270 globule 1.2.1 1.2.1

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1.271 redux-promise-middleware 4.2.1 4.2.1

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1.272 semver 5.3.0 5.3.0

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1.273 http-signature 0.10.1 0.10.1

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1.274 entities 1.1.2 1.1.2

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1.275 sindresorhus-is 0.7.0 0.7.0

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1.276 buffer-equal-constant-time 1.0.1 1.0.1

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1.277 spdx-correct 3.1.0 3.1.0

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1.278 url-to-options 1.0.1 1.0.1

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1.279 resolve-pathname 3.0.0 3.0.0

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1.280 lodash 4.17.11 4.17.11

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1.281 code-point-at 1.1.0 1.1.0

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1.282 uuid 3.2.1 3.2.1

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1.283 cacheable-request 2.1.4 2.1.4

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1.284 mime 1.3.6 1.3.6

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1.285 errno 0.1.4 0.1.4

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1.286 wordwrap 0.0.2 0.0.2

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1.288 json-stringify-safe 5.0.1 5.0.1

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1.289 p-cancelable 0.4.1 0.4.1

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1.290 uuid 2.0.3 2.0.3

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1.291 console-control-strings 1.1.0 1.1.0

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1.292 rw 1.3.3 1.3.3

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1.293 is-equal-shallow 0.1.3 0.1.3

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1.294 npmlog 4.1.0 4.1.0

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1.295 forwarded 0.1.2 0.1.2

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1.296 readable-stream 2.2.7 2.2.7

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1.297 hawk 3.1.3 3.1.3

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1.298 es6-promise 3.2.1 3.2.1

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1.299 socket.io-parser 3.3.0 3.3.0

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1.300 tiny-warning 1.0.3 1.0.3

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1.301 promise-example 0.0.0 0.0.0

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1.302 parseuri 0.0.5 0.0.5

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1.304 process-nextick-args 1.0.7 1.0.7

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1.305 private 0.1.7 0.1.7

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1.306 js-base64 2.4.3 2.4.3

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1.308 debug 2.6.8 2.6.8

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* /opt/ws_local/PERMITS_SQL/1063040754_1593668342.59/0/json-schema-0-2-3-9-zip/json-schema-0.2.3/README.md
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/**

* JSONSchema Validator - Validates JavaScript objects using JSON Schemas
* (http://www.json.com/json-schema-proposal/)
*
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To use the validator call the validate function with an instance object and an optional schema object.
If a schema is provided, it will be used to validate. If the instance object refers to a schema (self-validating),
that schema will be used to validate and the schema parameter is not necessary (if both exist,
both validations will occur).
The validate method will return an array of validation errors. If there are no errors, then an
empty list will be returned. A validation error will have two properties:
"property" which indicates which property had the error
"message" which indicates what the error was
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1063040754_1593668342.59/0/json-schema-0-2-3-9-zip/json-schema-0.2.3/lib/validate.js
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/**
* JSON Schema link handler
* Copyright (c) 2007 Kris Zyp SitePen (www.sitepen.com)
* Licensed under the MIT (MIT-LICENSE.txt) license.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1063040754_1593668342.59/0/json-schema-0-2-3-9-zip/json-schema-0.2.3/lib/links.js

1.332 has-binary 0.1.7 0.1.7

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1.333 tough-cookie 2.3.2 2.3.2

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1.334 socket.io-adapter 1.1.1 1.1.1

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1.335 fill-range 2.2.3 2.2.3

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1.336 react-select 1.0.0-rc.10 1.0.0-rc.10

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1.337 protocol-buffers-schema 3.4.0 3.4.0

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1.338 react-lifecycles-compat 3.0.4 3.0.4

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1.339 set-blocking 2.0.0 2.0.0

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1.340 bunyan 1.8.1 1.8.1

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1.341 regenerator-runtime 0.11.1 0.11.1

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1.342 firstline 1.2.1 1.2.1

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1.343 filename-regex 2.0.1 2.0.1

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1.344 mime-types 2.1.26 2.1.26

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1.345 pbf 3.1.0 3.1.0

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1.346 uuid 3.1.0 3.1.0

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1.348 for-in 1.0.2 1.0.2

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1.350 datatables.net-scroller 1.4.2 1.4.2

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1.353 callsite 1.0.0 1.0.0

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1.355 engine.io-parser 1.3.2 1.3.2

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1.356 safe-json-stringify 1.0.4 1.0.4

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1.357 compare-versions 3.5.1 3.5.1

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1.358 har-schema 1.0.5 1.0.5

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1.378 spdx-license-ids 3.0.5 3.0.5

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## Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm/):

```
npm install spdx-license-ids
```

## [Node.js](https://nodejs.org/) API

### require('spdx-license-ids')

Type: `string[]`

All license IDs except for the currently deprecated ones.

```javascript
```

const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=> true

ids.includes('GPL-3.0'); //=> false

### require('spdx-license-ids/deprecated')

Type: `string[]`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
```

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1.379 js-yaml 3.12.0 3.12.0

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1.380 jws 3.1.4 3.1.4

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1.381 lodash.isplainobject 4.0.6 4.0.6

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1.383 jws 3.2.1 3.2.1

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1.385 amcharts3-dataloader 1.0.16 1.0.16

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1.418 strip-ansi 0.1.1 0.1.1

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1.419 sort-keys 2.0.0 2.0.0

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1.420 cookie-signature 1.0.6 1.0.6

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1.421 mime-types 2.1.15 2.1.15

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1.422 grid-index 1.0.0 1.0.0

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1.424 quick-lru 1.1.0 1.1.0

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1.425 wrappy 1.0.2 1.0.2

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1.426 mpromise 0.5.5 0.5.5

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1.428 config-chain 1.1.12 1.1.12

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1.430 options 0.0.6 0.0.6

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1.431 iconv-lite 0.4.24 0.4.24

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1.432 domelementtype 2.0.1 2.0.1

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1.433 promise 7.3.0 7.3.0

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1.434 rimraf 2.6.2 2.6.2

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1.435 jwa 1.1.5 1.1.5

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1.436 map-obj 2.0.0 2.0.0

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1.437 ansi-regex 2.1.1 2.1.1

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1.438 base-64 0.1.0 0.1.0

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1.439 vary 1.1.2 1.1.2

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1.440 @types/mime 2.0.1 2.0.1

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1.441 negotiator 0.5.3 0.5.3

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1.442 nopt 2.1.2 2.1.2

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1.446 parseurl 1.3.2 1.3.2

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1.447 parse-glob 3.0.4 3.0.4

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1.448 hpkp 1.2.0 1.2.0

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1.449 react-intl 2.3.0 2.3.0

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1.450 base64-arraybuffer 0.1.5 0.1.5

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1.451 tar 2.2.1 2.2.1

1.451.1 Available under license :

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1.452 @mapbox/mapbox-gl-style-spec 13.14.0 13.14.0

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"attribution"?: string
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1050204622_1591696269.32/0/mapbox-mapbox-gl-style-spec-13-14-0-tgz/package/types.js
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*
* Ported from Webkit
* http://svn.webkit.org/repository/webkit/trunk/Source/WebCore/platform/graphics/UnitBezier.h
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1050204622_1591696269.32/0/mapbox-mapbox-gl-style-spec-13-14-0-tgz/package/dist/index.es.js
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{"version":3,"file":"index.es.js","sources":["../../../node_modules/json-stringify-pretty-compact/index.js","../format.js","../../../node_modules/url/node_modules/punycode/punycode.js","../../../node_modules/url/util.js","../../../node_modules/querystring/decode.js","../../../node_modules/querystring/encode.js","../../../node_modules/querystring/index.js","../../../node_modules/url/url.js","../visit.js","../migrate/v8.js","../util/extend.js","../expression/parsing_error.js","../expression/scope.js","../expression/types.js","../../../node_modules/csscolorparser/csscolorparser.js","../util/color.js","../expression/types/collator.js","../expression/types/formatted.js","../expression/types/resolved_image.js","../expression/values.js","../expression/definitions/literal.js","../expression/runtime_error.js","../expression/definitions/assertion.js","../expression/definitions/format.js","../expression/definitions/image.js","../expression/definitions/coercion.js","../expression/evaluation_context.js","../expression/compound_expression.js","../expression/definitions/collator.js","../expression/definitions/within.js","../expression/is_constant.js","../expression/definitions/var.js","../expression/parsing_context.js","../expression/stops.js","../expression/definitions/step.js","../../../node_modules/@mapbox/unitbezier/index.js","../util/interpolate.js","../util/color_spaces.js","../expression/definitions/interpolate.js","../expression/definitions/coalesce.js","../expression/definitions/let.js","../expression/definitions/at.js","../expression/definitions/in.js","../expression/definitions/index_of.js","../expression/definitions/match.js","../expression/definitions/case.js","../expression/definitions/slice.js","../expression/definitions/comparison.js","../expression/definitions/number_format.js","../expression/definitions/length.js","../expression/definitions/index.js","../util/result.js","../util/properties.js","../util/get_type.js","../function/index.js","../expression/index.js","../function/convert.js","../feature_filter/index.js","../feature_filter/convert.js","../migrate/expressions.js","../migrate.js","../composite.js","../util/ref_properties.js","../deref.js","../util/deep_equal.js","../diff.js","../error/validation_error.js","../error/parsing_error.js","../validate/validate_constants.js","../util/unbundle_jsonlint.js","../validate/validate_object.js","../validate/validate_array.js","../validate/validate_number.js","../validate/validate_function.js","../validate/validate_expression.js","../validate/validate_boolean.js","../validate/validate_color.js","../validate/validate_enum.js","../validate/validate_filter.js","../validate/valid ate_property.js","../validate/validate_paint_property.js","../validate/validate_layout_property.js","../validate/validate_layer.js","../validate/validate_string.js","../validate/validate_source.js","../validate/validate_light.js","../validate/validate_formatted.js","../validate/validate_image.js","../validate/validate.js","../validate/validate_glyphs_url.js","../validate_style.min.js","../../../node_modules/@mapbox/jsonlint-lines-primitives/lib/jsonlint.js","../read_style.js","../validate_style.js","../validate_mapbox_api_supported.js","../style-spec.js"],"sourcesContent":["\"use strict\";\n\n// Note: This regex matches even invalid JSON strings, but since we’re\n// working on the output of `JSON.stringify` we know that only valid strings\n// are present (unless the user supplied a weird `options.indent` but in\n// that case we don’t care since the output would be invalid anyway).\nvar stringOrChar = /(\"(?:[^\\\\\"]|\\\\.)*\")|[:,]/g;\n\nmodule.exports = function stringify(passedObj, options) {\n var indent, maxLength, replacer;\n\n options = options || {};\n indent = JSON.stringify(\n   [1],\n   undefined,\n   options.indent === undefined ? 2 : options.indent\n).slice(2, -3);\n maxLength =\n   indent === \"\"\n   ? Infinity\n   : options.maxLength === undefined\n   ? 80\n   : options.maxLength;\n replacer = options.replacer;\n\n return (function _stringify(obj, currentIndent, reserved) {\n   // prettier-ignore\n   var end, index, items, key, keyPart, keys, length, nextIndent, prettified, start, string, value;\n\n   if (obj && typeof obj.toJSON === \"function\") {\n   obj = obj.toJSON();\n   }\n\n   string = JSON.stringify(obj, replacer);\n\n   if (string === undefined) {\n   return string;\n   }\n\n   length = maxLength - currentIndent.length - reserved;\n\n   if (string.length <= length) {\n   prettified = string.replace(stringOrChar, function(match, stringLiteral) {\n   return stringLiteral || match + \" \";\n   });\n   if (prettified.length <= length) {\n   return prettified;\n   }\n   }\n\n   if (replacer != null) {\n   obj = JSON.parse(string);\n   replacer = undefined;\n   }\n\n   if (typeof obj === \"object\" && obj !== null) {\n   nextIndent = currentIndent + indent;\n   items = [];\n   index = 0;\n\n   if (Array.isArray(obj)) {\n   start = \"[\";\n   end = \"]\";\n   length = obj.length;\n   for (; index < length; index++) {\n   items.push(\n   _stringify(obj[index], nextIndent, index === length - 1 ? 0 : 1) ||\n   \"null\"\n   );\n   }\n   } else {\n   start = \"{\";\n   end = \"}\";\n   keys = Object.keys(obj);\n   length = keys.length;\n   for (; index < length; index++) {\n   key = keys[index];\n   keyPart = JSON.stringify(key) + \": \";\n   value = _stringify(\n   obj[key],\n   nextIndent,\n   keyPart.length + (index === length - 1 ? 0 : 1)\n   );\n   if (value !== undefined) {\n   items.push(keyPart + value);\n   }\n   }\n   }\n\n   if (items.length > 0) {\n   return [start, indent + items.join(\",\\n\" + nextIndent), end].join(\n   \"\\n\" + currentIndent\n   );\n   }\n   }\n\n   return string;\n })(passedObj, \"\", 0);\n};\n","\nimport reference from './reference/latest.js';\nimport stringifyPretty from 'json-stringify-pretty-compact';\n\nfunction sortKeysBy(obj, reference) {\n   const result = {};\n   for (const key in reference) {\n   if (obj[key] !== undefined) {\n   result[key] = obj[key];\n   }\n   }\n   for (const key in obj) {\n   if (result[key] === undefined) {\n   result[key] = obj[key];\n   }\n   }\n   return result;\n}\n\n/**\n * Format a Mapbox GL Style. Returns a stringified style with its keys\n * sorted in the same order as the reference style.\n *\n * The optional `space` argument is passed to\n * [`JSON.stringify`](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON/stringify)\n * to generate formatted output.\n *\n * If `space` is unspecified, a default of `2` spaces will be used.\n *\n * @private\n * @param {Object} style a Mapbox GL Style\n * @param {number} [space] space argument to pass to `JSON.stringify`\n * @returns {string} stringified formatted JSON\n * @example\n * var fs = require('fs');\n * var format = require('mapbox-gl-style-spec').format;\n * var style = fs.readFileSync('./source.json', 'utf8');\n * fs.writeFileSync('./dest.json', format(style));\n * fs.writeFileSync('./dest.min.json', format(style, 0));\n */\nfunction format(style, space = 2) {\n   style = sortKeysBy(style, reference.$root);\n\n   if (style.layers) {\n   style.layers = style.layers.map((layer) => sortKeysBy(layer, reference.layer));\n   }\n\n   return stringifyPretty(style, {indent: space});\n}\n\nexport default format;\n","/*! https://mths.be/punycode v1.3.2 by @mathias */\n;(function(root) {\n\n\t/** Detect free variables */\n\tvar freeExports = typeof exports == 'object' && exports &&\n\t\t!exports.nodeType && exports;\n\tvar freeModule = typeof module == 'object' && module &&\n\t\t!module.nodeType && module;\n\tvar freeGlobal = typeof global == 'object' && global;\n\tif (\n\t\tfreeGlobal.global === freeGlobal ||\n\t\tfreeGlobal.window === freeGlobal ||\n\t\tfreeGlobal.self === freeGlobal\n\t) {\n\t\troot = freeGlobal;\n\t}\n\n\t/**\n\t * The `punycode`

object.\n\t * @name punycode\n\t * @type Object\n\t */\n\tvar punycode,\n\n\t/** Highest positive signed 32-bit float value */\n\tmaxInt = 2147483647, // aka. 0x7FFFFFFF or 2^31-1\n\n\t/** Bootstring parameters */\n\tbase = 36,\n\ttMin = 1,\n\ttMax = 26,\n\tskew = 38,\n\tdamp = 700,\n\tinitialBias = 72,\n\tinitialN = 128, // 0x80\n\tdelimiter = '-', // '\\x2D'\n\n\t/** Regular expressions */\n\tregexPunycode = /^xn--/,\n\tregexNonASCII = /[^\\x20-\\x7E]/, // unprintable ASCII chars + non-ASCII chars\n\tregexSeparators = /[\\x2E\\u3002\\uFF0E\\uFF61]/g, // RFC 3490 separators\n\n\t/** Error messages */\n\terrors = {\n\t\t'overflow': 'Overflow: input needs wider integers to process',\n\t\t'not-basic': 'Illegal input >= 0x80 (not a basic code point)',\n\t\t'invalid-input': 'Invalid input'\n\t},\n\n\t/** Convenience shortcuts */\n\tbaseMinusTMin = base - tMin,\n\tfloor = Math.floor,\n\tstringFromCharCode = String.fromCharCode,\n\n\t/** Temporary variable */\n\tkey;\n\n\t/*--*/\n\n\t/**\n\t * A generic error utility function.\n\t * @private\n\t * @param {String} type The error type.\n\t * @returns {Error} Throws a `RangeError` with the applicable error message.\n\t */\n\tfunction error(type) {\n\t\tthrow RangeError(errors[type]);\n\t}\n\n\t/**\n\t * A generic `Array#map` utility function.\n\t * @private\n\t * @param {Array} array The array to iterate over.\n\t * @param {Function} callback The function that gets called for every array\n\t * item.\n\t * @returns {Array} A new array of values returned by the callback function.\n\t */\n\tfunction map(array, fn) {\n\t\tvar length = array.length;\n\t\tvar result = [];\n\t\twhile (length--) {\n\t\t\tresult[length] = fn(array[length]);\n\t\t}\n\t\treturn result;\n\t}\n\n\t/**\n\t * A simple `Array#map`-like wrapper to work with domain name strings or email\n\t * addresses.\n\t * @private\n\t * @param {String} domain The domain name or email address.\n\t * @param {Function} callback The function that gets called for every\n\t * character.\n\t * @returns {Array} A new string of characters returned by the callback\n\t * function.\n\t */\n\tfunction mapDomain(string, fn) {\n\t\tvar parts = string.split('@');\n\t\tvar result = '';\n\t\tif (parts.length > 1) {\n\t\t\t// In email addresses, only the domain name should be punycoded. Leave\n\t\t\t// the local part (i.e. everything up to `@`) intact.\n\t\t\tresult = parts[0] + '@';\n\t\t\tstring = parts[1];\n\t\t}\n\t\t// Avoid `split(regex)` for IE8 compatibility. See #17.\n\t\tstring = string.replace(regexSeparators, '\\x2E');\n\t\tvar labels = string.split('.');\n\t\tvar encoded = map(labels, fn).join('.');\n\t\treturn result + encoded;\n\t}\n\n\t/**\n\t * Creates an array containing the numeric code points of each Unicode\n\t * character in the string. While JavaScript uses UCS-2 internally,\n\t * this function will convert a pair of surrogate halves (each of which\n\t * UCS-2 exposes as separate characters) into a single code point,\n\t * matching UTF-16.\n\t * @see `punycode.ucs2.encode`\n\t * @see <https://mathiasbynens.be/notes/javascript-encoding>\n\t * @memberOf punycode.ucs2\n\t * @name decode\n\t * @param {String} string The Unicode input string (UCS-2).\n\t * @returns {Array} The new array of code points.\n\t */\n\tfunction ucs2decode(string) {\n\t\tvar output = [],\n\t\t   counter = 0,\n\t\t   length = string.length,\n\t\t   value,\n\t\t   extra;\n\t\twhile (counter < length) {\n\t\t\tvalue = string.charCodeAt(counter++);\n\t\t\tif (value >= 0xD800 && value <= 0xDBFF && counter < length) {\n\t\t\t\t// high surrogate, and there is a next character\n\t\t\t\textra = string.charCodeAt(counter++);\n\t\t\t\tif ((extra & 0xFC00) == 0xDC00) { // low surrogate\n\t\t\t\t\toutput.push(((value & 0x3FF) << 10) + (extra & 0x3FF) + 0x10000);\n\t\t\t\t} else {\n\t\t\t\t\t// unmatched surrogate; only append this code unit, in case the next\n\t\t\t\t\t// code unit is the high surrogate of a surrogate pair\n\t\t\t\t\toutput.push(value);\n\t\t\t\t\tcounter--;\n\t\t\t\t}\n\t\t\t} else {\n\t\t\t\toutput.push(value);\n\t\t\t}\n\t\t}\n\t\treturn output;\n\t}\n\n\t/**\n\t * Creates a string based on an array of numeric code points.\n\t * @see `punycode.ucs2.decode`\n\t * @memberOf punycode.ucs2\n\t * @name encode\n\t * @param {Array} codePoints The array of numeric code points.\n\t * @returns {String} The new Unicode string (UCS-2).\n\t */\n\tfunction ucs2encode(array) {\n\t\treturn map(array, function(value) {\n\t\t\tvar output = '';\n\t\t\tif (value > 0xFFFF) {\n\t\t\t\tvalue -= 0x10000;\n\t\t\t\toutput += stringFromCharCode(value >>> 10 & 0x3FF | 0xD800);\n\t\t\t\tvalue = 0xDC00 | value & 0x3FF;\n\t\t\t}\n\t\t\toutput += stringFromCharCode(value);\n\t\t\treturn output;\n\t\t}).join('');\n\t}\n\n\t/**\n\t * Converts a basic code point into a digit/integer.\n\t * @see `digitToBasic()`\n\t * @private\n\t * @param {Number} codePoint The basic numeric code point value.\n\t * @returns {Number} The numeric value of a basic code point (for use in\n\t * representing integers) in the range `0` to `base - 1`, or `base` if\n\t * the code point does not represent a value.\n\t */\n\tfunction basicToDigit(codePoint) {\n\t\tif (codePoint - 48 < 10) {\n\t\t\treturn codePoint - 22;\n\t\t}\n\t\tif (codePoint - 65 < 26) {\n\t\t\treturn

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codePoint - 65;\n\t\t}\n\t\tif (codePoint - 97 < 26) {\n\t\t\treturn codePoint - 97;\n\t\t}\n\t\treturn
base;\n\t}\n\n\t/**\n\t * Converts a digit/integer into a basic code point.\n\t * @see `basicToDigit()`\n\t *
@private\n\t * @param {Number} digit The numeric value of a basic code point.\n\t * @returns {Number} The
basic code point whose value (when used for\n\t * representing integers) is `digit`, which needs to be in the range\n\t
* `0` to `base - 1`. If `flag` is non-zero, the uppercase form is\n\t * used; else, the lowercase form is used. The
behavior is undefined\n\t * if `flag` is non-zero and `digit` has no uppercase form.\n\t */\n\tfunction
digitToBasic(digit, flag) {\n\t\t//  0..25 map to ASCII a..z or A..Z\n\t\t// 26..35 map to ASCII 0..9\n\t\treturn digit +
22 + 75 * (digit < 26) - ((flag != 0) << 5);\n\t}\n\n\t/**\n\t * Bias adaptation function as per section 3.4 of RFC
3492.\n\t * http://tools.ietf.org/html/rfc3492#section-3.4\n\t * @private\n\t */\n\tfunction adapt(delta, numPoints,
firstTime) {\n\t\tvar k = 0;\n\t\tdelta = firstTime ? floor(delta / damp) : delta >> 1;\n\t\tdelta += floor(delta /
numPoints);\n\t\tfor (/* no initialization */; delta > baseMinusTMin * tMax >> 1; k += base) {\n\t\t\tdelta =
floor(delta / baseMinusTMin);\n\t\t}\n\t\treturn floor(k + (baseMinusTMin + 1) * delta / (delta +
skew));\n\t}\n\n\t/**\n\t * Converts a Punycode string of ASCII-only symbols to a string of Unicode\n\t *
symbols.\n\t * @memberOf punycode\n\t * @param {String} input The Punycode string of ASCII-only symbols.\n\t
* @returns {String} The resulting string of Unicode symbols.\n\t */\n\tfunction decode(input) {\n\t\t// Don't use
UCS-2\n\t\tvar output = [],\n\t\t    inputLength = input.length,\n\t\t    out,\n\t\t    i = 0,\n\t\t    n = initialN,\n\t\t    bias
= initialBias,\n\t\t    basic,\n\t\t    j,\n\t\t    index,\n\t\t    oldi,\n\t\t    w,\n\t\t    k,\n\t\t    digit,\n\t\t    t,\n\t\t    /**
Cached calculation results */\n\t\t    baseMinusT;\n\n\t\t// Handle the basic code points: let `basic` be the number of
input code\n\t\t// points before the last delimiter, or `0` if there is none, then copy\n\t\t// the first basic code points to
the output.\n\n\t\tbasic = input.lastIndexOf(delimiter);\n\t\tif (basic < 0) {\n\t\t\tbasic = 0;\n\t\t}\n\n\t\tfor (j = 0; j <
basic; ++j) {\n\t\t\t// if it's not a basic code point\n\t\t\tif (input.charCodeAt(j) >= 0x80) {\n\t\t\t\terror('not-
basic');\n\t\t\t}\n\t\t\toutput.push(input.charCodeAt(j));\n\t\t}\n\n\t\t// Main decoding loop: start just after the last
delimiter if any basic code\n\t\t// points were copied; start at the beginning otherwise.\n\n\t\tfor (index = basic > 0 ?
basic + 1 : 0; index < inputLength; /* no final expression */) {\n\n\t\t\t// `index` is the index of the next character to
be consumed.\n\t\t\t// Decode a generalized variable-length integer into `delta`,\n\t\t\t// which gets added to `i`. The
overflow checking is easier\n\t\t\t// if we increase `i` as we go, then subtract off its starting\n\t\t\t// value at the end to
obtain `delta`.\n\t\t\tfor (oldi = i, w = 1, k = base; /* no condition */; k += base) {\n\n\t\t\t\tif (index >= inputLength)
{\n\t\t\t\t\terror('invalid-input');\n\t\t\t\t}\n\n\t\t\t\tdigit = basicToDigit(input.charCodeAt(index++));\n\n\t\t\t\tif (digit
>= base || digit > floor((maxInt - i) / w)) {\n\t\t\t\t\terror('overflow');\n\t\t\t\t}\n\n\t\t\t\ti += digit * w;\n\t\t\t\tt = k <=
bias ? tMin : (k >= bias + tMax ? tMax : k - bias);\n\n\t\t\t\tif (digit < t)
{\n\t\t\t\t\tbreak;\n\t\t\t\t}\n\n\t\t\t\tbaseMinusT = base - t;\n\t\t\t\tif (w > floor(maxInt / baseMinusT))
{\n\t\t\t\t\terror('overflow');\n\t\t\t\t}\n\n\t\t\t\tw *= baseMinusT;\n\n\t\t\t}\n\n\t\t\tout = output.length + 1;\n\t\t\tbias
= adapt(i - oldi, out, oldi == 0);\n\n\t\t\t// `i` was supposed to wrap around from `out` to `0`,\n\t\t\t// incrementing `n`
each time, so we'll fix that now:\n\t\t\tif (floor(i / out) > maxInt - n) {\n\t\t\t\terror('overflow');\n\t\t\t}\n\n\t\t\tn +=
floor(i / out);\n\t\t\ti %= out;\n\n\t\t\t// Insert `n` at position `i` of the output\n\t\t\toutput.splice(i++, 0,
n);\n\n\t\t}\n\n\t\treturn ucs2encode(output);\n\t}\n\n\t/**\n\t * Converts a string of Unicode symbols (e.g. a domain
name label) to a\n\t * Punycode string of ASCII-only symbols.\n\t * @memberOf punycode\n\t * @param {String}
input The string of Unicode symbols.\n\t * @returns {String} The resulting Punycode string of ASCII-only
symbols.\n\t */\n\tfunction encode(input) {\n\t\tvar n,\n\t\t    delta,\n\t\t    handledCPCount,\n\t\t    basicLength,\n\t\t
bias,\n\t\t    j,\n\t\t    m,\n\t\t    q,\n\t\t    k,\n\t\t    t,\n\t\t    currentValue,\n\t\t    output = [],\n\t\t    /** `inputLength`
will hold the number of code points in `input`. */\n\t\t    inputLength,\n\t\t    /** Cached calculation results */\n\t\t
handledCPCountPlusOne,\n\t\t    baseMinusT,\n\t\t    qMinusT;\n\n\t\t// Convert the input in UCS-2 to
Unicode\n\t\tinput = ucs2decode(input);\n\n\t\t// Cache the length\n\t\tinputLength = input.length;\n\n\t\t// Initialize
the state\n\t\tn = initialN;\n\t\tdelta = 0;\n\t\tbias = initialBias;\n\n\t\t// Handle the basic code points\n\t\tfor (j = 0; j <
inputLength; ++j) {\n\t\t\tcurrentValue = input[j];\n\t\t\tif (currentValue < 0x80)
{\n\t\t\t\toutput.push(stringFromCharCode(currentValue));\n\t\t\t}\n\t\t}\n\n\t\thandledCPCount = basicLength =
output.length;\n\n\t\t// `handledCPCount` is the number of code points that have been handled;\n\t\t// `basicLength`
is the number of basic code points.\n\n\t\t// Finish the basic string - if it is not empty - with a delimiter\n\t\tif
```

(basicLength) {\n\t\t\toutput.push(delimiter);\n\t\t}\n\n\t\t// Main encoding loop:\n\t\twhile (handledCPCount < inputLength) {\n\n\t\t\t// All non-basic code points < n have been handled already. Find the next\n\t\t\t// larger one:\n\t\t\tfor (m = maxInt, j = 0; j < inputLength; ++j) {\n\t\t\t\tcurrentValue = input[j];\n\t\t\t\tif (currentValue >= n && currentValue < m) {\n\t\t\t\t\tm = currentValue;\n\t\t\t\t}\n\t\t\t}\n\n\t\t\t// Increase `delta` enough to advance the decoder's <n,i> state to <m,0>,\n\t\t\t// but guard against overflow\n\t\t\thandledCPCountPlusOne = handledCPCount + 1;\n\t\t\tif (m - n > floor((maxInt - delta) / handledCPCountPlusOne)) {\n\t\t\t\terror('overflow');\n\t\t\t}\n\n\t\t\tdelta += (m - n) * handledCPCountPlusOne;\n\t\t\tn = m;\n\n\t\t\tfor (j = 0; j < inputLength; ++j) {\n\t\t\t\tcurrentValue = input[j];\n\n\t\t\t\tif (currentValue < n && ++delta > maxInt) {\n\t\t\t\t\terror('overflow');\n\t\t\t\t}\n\n\t\t\t\tif (currentValue == n) {\n\t\t\t\t\t// Represent delta as a generalized variable-length integer\n\t\t\t\t\tfor (q = delta, k = base; /* no condition */; k += base) {\n\t\t\t\t\t\tt = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);\n\t\t\t\t\t\tif (q < t) {\n\t\t\t\t\t\t\tbreak;\n\t\t\t\t\t\t}\n\t\t\t\t\t\tqMinusT = q - t;\n\t\t\t\t\t\tbaseMinusT = base - t;\n\t\t\t\t\t\toutput.push(\n\t\t\t\t\t\t\tstringFromCharCode(digitToBasic(t + qMinusT % baseMinusT, 0))\n\t\t\t\t\t\t);\n\t\t\t\t\t\tq = floor(qMinusT / baseMinusT);\n\t\t\t\t\t}\n\n\t\t\t\t\toutput.push(stringFromCharCode(digitToBasic(q, 0)));\n\t\t\t\t\tbias = adapt(delta, handledCPCountPlusOne, handledCPCount == basicLength);\n\t\t\t\t\tdelta = 0;\n\t\t\t\t\t++handledCPCount;\n\t\t\t\t}\n\t\t\t}\n\n\t\t\t++delta;\n\t\t\t++n;\n\n\t\t}\n\t\treturn output.join('');\n\t}\n\n\t/**\n\t * Converts a Punycode string representing a domain name or an email address\n\t * to Unicode. Only the Punycoded parts of the input will be converted, i.e.\n\t * it doesn't matter if you call it on a string that has already been\n\t * converted to Unicode.\n\t * @memberOf punycode\n\t * @param {String} input The Punycoded domain name or email address to\n\t * convert to Unicode.\n\t * @returns {String} The Unicode representation of the given Punycode\n\t * string.\n\t */\n\tfunction toUnicode(input) {\n\t\treturn mapDomain(input, function(string) {\n\t\t\treturn regexPunycode.test(string)\n\t\t\t\t? decode(string.slice(4).toLowerCase())\n\t\t\t\t: string;\n\t\t});\n\t}\n\n\t/**\n\t * Converts a Unicode string representing a domain name or an email address to\n\t * Punycode. Only the non-ASCII parts of the domain name will be converted,\n\t * i.e. it doesn't matter if you call it with a domain that's already in\n\t * ASCII.\n\t * @memberOf punycode\n\t * @param {String} input The domain name or email address to convert, as a\n\t * Unicode string.\n\t * @returns {String} The Punycode representation of the given domain name or\n\t * email address.\n\t */\n\tfunction toASCII(input) {\n\t\treturn mapDomain(input, function(string) {\n\t\t\treturn regexNonASCII.test(string)\n\t\t\t\t? 'xn--' + encode(string)\n\t\t\t\t: string;\n\t\t});\n\t}\n\n\t/*--*/\n\n\t/** Define the public API */\n\tpunycode = {\n\t\t/**\n\t\t * A string representing the current Punycode.js version number.\n\t\t * @memberOf punycode\n\t\t * @type String\n\t\t */\n\t\t'version': '1.3.2',\n\t\t/**\n\t\t * An object of methods to convert from JavaScript's internal character\n\t\t * representation (UCS-2) to Unicode code points, and back.\n\t\t * @see <https://mathiasbynens.be/notes/javascript-encoding>\n\t\t * @memberOf punycode\n\t\t * @type Object\n\t\t */\n\t\t'ucs2': {\n\t\t\t'decode': ucs2decode,\n\t\t\t'encode': ucs2encode\n\t\t},\n\t\t'decode': decode,\n\t\t'encode': encode,\n\t\t'toASCII': toASCII,\n\t\t'toUnicode': toUnicode\n\t};\n\n\t/** Expose `punycode` */\n\t// Some AMD build optimizers, like r.js, check for specific condition patterns\n\t// like the following:\n\tif (\n\t\ttypeof define == 'function' &&\n\t\ttypeof define.amd == 'object' &&\n\t\tdefine.amd\n\t) {\n\t\tdefine('punycode', function() {\n\t\t\treturn punycode;\n\t\t});\n\t} else if (freeExports && freeModule) {\n\t\tif (module.exports == freeExports) { // in Node.js or RingoJS v0.8.0+\n\t\t\tfreeModule.exports = punycode;\n\t\t} else { // in Narwhal or RingoJS v0.7.0-\n\t\t\tfor (key in punycode) {\n\t\t\t\tpunycode.hasOwnProperty(key) && (freeExports[key] = punycode[key]);\n\t\t\t}\n\t\t}\n\t} else { // in Rhino or a web browser\n\t\troot.punycode = punycode;\n\t}\n\n}(this));\n","'use strict';\n\nmodule.exports = {\n isString: function(arg) {\n   return typeof(arg) === 'string';\n },\n isObject: function(arg) {\n   return typeof(arg) === 'object' && arg !== null;\n },\n isNull: function(arg) {\n   return arg === null;\n },\n isNullOrUndefined: function(arg) {\n   return arg == null;\n }\n};\n","// Copyright Joyent, Inc. and other Node contributors.\n//\n// Permission is hereby granted, free of charge, to any person obtaining a\n// copy of this software and associated documentation files (the\n// \"Software\"), to deal in the Software without restriction, including\n// without limitation the rights to use, copy, modify, merge, publish,\n// distribute, sublicense, and/or sell copies of the Software, and to permit\n// persons to whom the Software is furnished to do so, subject to the\n// following conditions:\n//\n// The above copyright notice and this permission notice shall be included\n// in all copies or substantial portions of the Software.\n//\n// THE SOFTWARE IS PROVIDED \"AS IS\", WITHOUT WARRANTY OF ANY KIND, EXPRESS\n// OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF\n// MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN\n// NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,\n// DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR\n// OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE\n// USE OR OTHER DEALINGS IN THE SOFTWARE.\n\n'use strict';\n\n// If obj.hasOwnProperty has been overridden, then calling\n// obj.hasOwnProperty(prop) will break.\n// See: https://github.com/joyent/node/issues/1707\nfunction hasOwnProperty(obj, prop) {\n return Object.prototype.hasOwnProperty.call(obj, prop);\n}\n\nmodule.exports = function(qs, sep, eq, options) {\n sep = sep || '&';\n eq = eq || '=';\n var obj = {};\n\n if (typeof qs !== 'string' || qs.length === 0) {\n   return obj;\n }\n\n var regexp = /\\+/g;\n qs = qs.split(sep);\n\n var maxKeys = 1000;\n if (options && typeof options.maxKeys === 'number') {\n   maxKeys = options.maxKeys;\n }\n\n var len = qs.length;\n // maxKeys <= 0 means that we should not limit keys count\n if (maxKeys > 0 && len > maxKeys) {\n   len = maxKeys;\n }\n\n for (var i = 0; i < len; ++i) {\n   var x = qs[i].replace(regexp, '%20'),\n   idx = x.indexOf(eq),\n   kstr, vstr, k, v;\n\n   if (idx >= 0) {\n   kstr = x.substr(0, idx);\n   vstr = x.substr(idx + 1);\n   } else {\n   kstr = x;\n   vstr = '';\n   }\n\n   k = decodeURIComponent(kstr);\n   v = decodeURIComponent(vstr);\n\n   if (!hasOwnProperty(obj, k)) {\n   obj[k] = v;\n   } else if (Array.isArray(obj[k])) {\n   obj[k].push(v);\n   } else {\n   obj[k] = [obj[k], v];\n   }\n }\n\n return obj;\n};\n","// Copyright Joyent, Inc. and other Node contributors.\n//\n// Permission is hereby granted, free of charge, to any person obtaining a\n// copy of this software and associated documentation files (the\n// \"Software\"), to deal in the Software without restriction, including\n// without limitation the rights to use, copy, modify, merge, publish,\n// distribute, sublicense, and/or sell copies of the Software, and to permit\n// persons to whom the Software is furnished to do so, subject to the\n// following conditions:\n//\n// The above copyright notice and this permission notice shall be included\n// in all copies or substantial portions of the Software.\n//\n// THE SOFTWARE IS PROVIDED \"AS IS\", WITHOUT WARRANTY OF ANY KIND, EXPRESS\n// OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF\n// MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN\n// NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,\n// DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR\n// OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE\n// USE OR OTHER DEALINGS IN THE SOFTWARE.\n\n'use strict';\n\nvar stringifyPrimitive = function(v) {\n switch (typeof v) {\n   case 'string':\n   return v;\n\n   case 'boolean':\n   return v ? 'true' : 'false';\n\n   case 'number':\n   return isFinite(v) ? v : '';\n\n   default:\n   return '';\n }\n};\n\nmodule.exports = function(obj, sep, eq, name) {\n sep = sep || '&';\n eq = eq || '=';\n if (obj === null) {\n   obj = undefined;\n }\n\n if (typeof obj === 'object') {\n   return Object.keys(obj).map(function(k) {\n   var ks = encodeURIComponent(stringifyPrimitive(k)) + eq;\n   if (Array.isArray(obj[k])) {\n   return obj[k].map(function(v) {\n   return ks + encodeURIComponent(stringifyPrimitive(v));\n   }).join(sep);\n   } else {\n   return ks + encodeURIComponent(stringifyPrimitive(obj[k]));\n   }\n   }).join(sep);\n\n }\n\n if (!name) return '';\n return encodeURIComponent(stringifyPrimitive(name)) + eq +\n   encodeURIComponent(stringifyPrimitive(obj));\n};\n","'use strict';\n\nexports.decode = exports.parse = require('./decode');\nexports.encode = exports.stringify = require('./encode');\n","// Copyright Joyent, Inc. and other Node contributors.\n//\n// Permission is hereby granted, free of charge, to any person obtaining a\n// copy of this software and associated documentation files (the\n// \"Software\"), to deal in the Software without restriction, including\n// without limitation the rights to use, copy, modify, merge, publish,\n// distribute, sublicense, and/or sell copies of the Software, and to permit\n// persons to whom the Software is furnished to do so, subject to the\n// following conditions:\n//\n// The above copyright notice and this permission notice shall be included\n// in all copies or substantial portions of the Software.\n//\n// THE SOFTWARE IS PROVIDED \"AS IS\", WITHOUT WARRANTY OF ANY KIND, EXPRESS\n// OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE

WARRANTIES OF\n// MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN\n// NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,\n// DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR\n// OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE\n// USE OR OTHER DEALINGS IN THE SOFTWARE.\n\n'use strict';\n\nvar punycode = require('punycode');\nvar util = require('./util');\n\nexports.parse = urlParse;\nexports.resolve = urlResolve;\nexports.resolveObject = urlResolveObject;\nexports.format = urlFormat;\n\nexports.Url = Url;\n\nfunction Url() {\n this.protocol = null;\n this.slashes = null;\n this.auth = null;\n this.host = null;\n this.port = null;\n this.hostname = null;\n this.hash = null;\n this.search = null;\n this.query = null;\n this.pathname = null;\n this.path = null;\n this.href = null;\n}\n\n// Reference: RFC 3986, RFC 1808, RFC 2396\n\n// define these here so at least they only have to be\n// compiled once on the first module load.\nvar protocolPattern = /^([a-z0-9.+-]+:)/i,\n   portPattern = /:[0-9]*$/,\n\n   // Special case for a simple path URL\n   simplePathPattern = /^(\\/\\/?(?!\\/)[^\\?\\s]*)(\\?[^\\s]*)?$/,\n\n   // RFC 2396: characters reserved for delimiting URLs.\n   // We actually just auto-escape these.\n   delims = ['<', '>', '\"', '`', ' ', '\\r', '\\n', '\\t'],\n\n    // RFC 2396: characters not allowed for various reasons.\n    unwise = ['{', '}', '|', '\\\\', '^', '`'].concat(delims),\n\n   // Allowed by RFCs, but cause of XSS attacks. Always escape these.\n   autoEscape = ['\\''].concat(unwise),\n   // Characters that are never ever allowed in a hostname.\n   // Note that any invalid chars are also handled, but these\n   // are the ones that are *expected* to be seen, so we fast-path\n   // them.\n   nonHostChars = ['%', '/', '?', ';', '#'].concat(autoEscape),\n   hostEndingChars = ['/', '?', '#'],\n   hostnameMaxLen = 255,\n   hostnamePartPattern = /^[+a-z0-9A-Z_-]{0,63}$/,\n   hostnamePartStart = /^([+a-z0-9A-Z_-]{0,63})(.*)$/,\n   // protocols that can allow \"unsafe\" and \"unwise\" chars.\n   unsafeProtocol = {\n   'javascript': true,\n   'javascript:': true\n   },\n   // protocols that never have a hostname.\n   hostlessProtocol = {\n   'javascript': true,\n   'javascript:': true\n   },\n   // protocols that always contain a // bit.\n   slashedProtocol = {\n   'http': true,\n   'https': true,\n   'ftp': true,\n   'gopher': true,\n   'file': true,\n   'http:': true,\n   'https:': true,\n   'ftp:': true,\n   'gopher:': true,\n   'file:': true\n   },\n   querystring = require('querystring');\n\nfunction urlParse(url, parseQueryString, slashesDenoteHost) {\n if (url && util.isObject(url) && url instanceof Url) return url;\n\n var u = new Url;\n u.parse(url, parseQueryString, slashesDenoteHost);\n return u;\n}\n\nUrl.prototype.parse = function(url, parseQueryString, slashesDenoteHost) {\n if (!util.isString(url)) {\n   throw new TypeError(\"Parameter 'url' must be a string, not \" + typeof url);\n }\n\n // Copy chrome, IE, opera backslash-handling behavior.\n // Back slashes before the query string get converted to forward slashes\n // See: https://code.google.com/p/chromium/issues/detail?id=25916\n var queryIndex = url.indexOf('?'),\n   splitter =\n   (queryIndex !== -1 && queryIndex < url.indexOf('#')) ? '?' : '#',\n   uSplit = url.split(splitter),\n   slashRegex = /\\\\/g;\n uSplit[0] = uSplit[0].replace(slashRegex, '/');\n url = uSplit.join(splitter);\n\n var rest = url;\n\n // trim before proceeding.\n // This is to support parse stuff like \" http://foo.com \\n\"\n rest = rest.trim();\n\n if (!slashesDenoteHost && url.split('#').length === 1) {\n   // Try fast path regexp\n   var simplePath = simplePathPattern.exec(rest);\n   if (simplePath) {\n   this.path = rest;\n   this.href = rest;\n   this.pathname = simplePath[1];\n   if (simplePath[2]) {\n   this.search = simplePath[2];\n   if (parseQueryString) {\n   this.query = querystring.parse(this.search.substr(1));\n   } else {\n   this.query = this.search.substr(1);\n   }\n   } else if (parseQueryString) {\n   this.search = '';\n   this.query = {};\n   }\n   return this;\n   }\n }\n\n var proto = protocolPattern.exec(rest);\n if (proto) {\n   proto = proto[0];\n   var lowerProto = proto.toLowerCase();\n   this.protocol = lowerProto;\n   rest = rest.substr(proto.length);\n }\n\n // figure out if it's got a host\n // user@server is *always* interpreted as a hostname, and url\n // resolution will treat //foo/bar as host=foo,path=bar because that's\n // how the browser resolves relative URLs.\n if (slashesDenoteHost || proto || rest.match(/^\\/\\/[^@\\/]+@[^@\\/]+/)) {\n   var slashes = rest.substr(0, 2) === '//';\n   if (slashes && !(proto && hostlessProtocol[proto])) {\n   rest = rest.substr(2);\n   this.slashes = true;\n   }\n }\n\n if (!hostlessProtocol[proto] &&\n   (slashes || (proto && !slashedProtocol[proto]))) {\n\n   // there's a hostname.\n   // the first instance of /, ?, ;, or # ends the host.\n   //\n   // If there is an @ in the hostname, then non-host chars *are* allowed\n   // to the left of the last @ sign, unless some host-ending character\n   // comes *before* the @-sign.\n   // URLs are obnoxious.\n   //\n   // ex:\n   //

http://a@b@c/ => user:a@b host:c\n // http://a@b?@c => user:a host:c path:/?@c\n\n // v0.12 TODO(isaacs): This is not quite how Chrome does things.\n // Review our test case against browsers more comprehensively.\n\n // find the first instance of any hostEndingChars\n var hostEnd = -1;\n for (var i = 0; i < hostEndingChars.length; i++) {\n var hec = rest.indexOf(hostEndingChars[i]);\n if (hec !== -1 && (hostEnd === -1 || hec < hostEnd))\n hostEnd = hec;\n }\n\n // at this point, either we have an explicit point where the\n // auth portion cannot go past, or the last @ char is the decider.\n var auth, atSign;\n if (hostEnd === -1) {\n // atSign can be anywhere.\n atSign = rest.lastIndexOf('@');\n } else {\n // atSign must be in auth portion.\n // http://a@b/c@d => host:b auth:a path:/c@d\n atSign = rest.lastIndexOf('@', hostEnd);\n }\n\n // Now we have a portion which is definitely the auth.\n // Pull that off.\n if (atSign !== -1) {\n auth = rest.slice(0, atSign);\n rest = rest.slice(atSign + 1);\n this.auth = decodeURIComponent(auth);\n }\n\n // the host is the remaining to the left of the first non-host char\n hostEnd = -1;\n for (var i = 0; i < nonHostChars.length; i++) {\n var hec = rest.indexOf(nonHostChars[i]);\n if (hec !== -1 && (hostEnd === -1 || hec < hostEnd))\n hostEnd = hec;\n }\n // if we still have not hit it, then the entire thing is a host.\n if (hostEnd === -1)\n hostEnd = rest.length;\n\n this.host = rest.slice(0, hostEnd);\n rest = rest.slice(hostEnd);\n\n // pull out port.\n this.parseHost();\n\n // we've indicated that there is a hostname,\n // so even if it's empty, it has to be present.\n this.hostname = this.hostname || '';\n\n // if hostname begins with [and ends with]\n // assume that it's an IPv6 address.\n var ipv6Hostname = this.hostname[0] === '[' &&\n this.hostname[this.hostname.length - 1] === ']';\n\n // validate a little.\n if (!ipv6Hostname) {\n var hostparts = this.hostname.split(/\\./);\n for (var i = 0, l = hostparts.length; i < l; i++) {\n var part = hostparts[i];\n if (!part) continue;\n if (!part.match(hostnamePartPattern)) {\n var newpart = '';\n for (var j = 0, k = part.length; j < k; j++) {\n if (part.charCodeAt(j) > 127) {\n // we replace non-ASCII char with a temporary placeholder\n // we need this to make sure size of hostname is not\n // broken by replacing non-ASCII by nothing\n newpart += 'x';\n } else {\n newpart += part[j];\n }\n }\n // we test again with ASCII char only\n if (!newpart.match(hostnamePartPattern)) {\n var validParts = hostparts.slice(0, i);\n var notHost = hostparts.slice(i + 1);\n var bit = part.match(hostnamePartStart);\n if (bit) {\n validParts.push(bit[1]);\n notHost.unshift(bit[2]);\n }\n if (notHost.length) {\n rest = '/' + notHost.join('.') + rest;\n }\n this.hostname = validParts.join('.');\n break;\n }\n }\n }\n }\n\n if (this.hostname.length > hostnameMaxLen) {\n this.hostname = '';\n } else {\n // hostnames are always lower case.\n this.hostname = this.hostname.toLowerCase();\n }\n\n if (!ipv6Hostname) {\n // IDNA Support: Returns a punycoded representation of \"domain\".\n // It only converts parts of the domain name that\n // have non-ASCII characters, i.e. it doesn't matter if\n // you call it with a domain that already is ASCII-only.\n this.hostname = punycode.toASCII(this.hostname);\n }\n\n var p = this.port ? ':' + this.port : '';\n var h = this.hostname || '';\n this.host = h + p;\n this.href += this.host;\n\n // strip [and] from the hostname\n // the host field still retains them, though\n if (ipv6Hostname) {\n this.hostname = this.hostname.substr(1, this.hostname.length - 2);\n if (rest[0] !== '/') {\n rest = '/' + rest;\n }\n }\n }\n\n // now rest is set to the post-host stuff.\n // chop off any delim chars.\n if (!unsafeProtocol[lowerProto]) {\n\n // First, make 100% sure that any \"autoEscape\" chars get\n // escaped, even if encodeURIComponent doesn't think they\n // need to be.\n for (var i = 0, l = autoEscape.length; i < l; i++) {\n var ae = autoEscape[i];\n if (rest.indexOf(ae) === -1)\n continue;\n var esc = encodeURIComponent(ae);\n if (esc === ae) {\n esc = escape(ae);\n }\n rest = rest.split(ae).join(esc);\n }\n }\n\n\n // chop off from the tail first.\n var hash = rest.indexOf('#');\n if (hash !== -1) {\n // got a fragment string.\n this.hash = rest.substr(hash);\n rest = rest.slice(0, hash);\n }\n var qm = rest.indexOf('?');\n if (qm !== -1) {\n this.search = rest.substr(qm);\n this.query = rest.substr(qm + 1);\n if (parseQueryString) {\n this.query = querystring.parse(this.query);\n }\n rest = rest.slice(0, qm);\n } else if (parseQueryString) {\n // no query string, but parseQueryString still requested\n this.search = '';\n this.query = {};\n }\n if (rest) this.pathname = rest;\n if (slashedProtocol[lowerProto] &&\n this.hostname && !this.pathname) {\n this.pathname = '/';\n }\n\n //to support http.request\n if (this.pathname || this.search) {\n var p = this.pathname || '';\n var s = this.search || '';\n this.path = p + s;\n }\n\n // finally, reconstruct the href based on what has been validated.\n this.href = this.format();\n return this;\n};\n\n// format a

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parsed object into a url string\nfunction urlFormat(obj) {\n  // ensure it's an object, and not a string url.\n  // If it's an
obj, this is a no-op.\n  // this way, you can call url_format() on strings\n  // to clean up potentially wonky urls.\n  if
(util.isString(obj)) obj = urlParse(obj);\n  if (!(obj instanceof Url)) return Url.prototype.format.call(obj);\n  return
obj.format();\n}\n\nUrl.prototype.format = function() {\n  var auth = this.auth || '';\n  if (auth) {\n    auth =
encodeURIComponent(auth);\n    auth = auth.replace(/%3A/i, ':');\n    auth += '@';\n  }\n\n  var protocol =
this.protocol || '',\n      pathname = this.pathname || '',\n      hash = this.hash || '',\n      host = false,\n      query = '';\n\n
if (this.host) {\n    host = auth + this.host;\n  } else if (this.hostname) {\n    host = auth + (this.hostname.indexOf(':')
=== -1 ?\n        this.hostname :\n        '[' + this.hostname + ']');\n    if (this.port) {\n      host += ':' + this.port;\n    }\n
}\n\n  if (this.query &&\n      util.isObject(this.query) &&\n      Object.keys(this.query).length) {\n    query =
querystring.stringify(this.query);\n  }\n\n  var search = this.search || (query && ('?' + query)) || '';\n\n  if (protocol
&& protocol.substr(-1) !== ':') protocol += ':';\n\n  // only the slashedProtocols get the //.  Not mailto:, xmpp:, etc.\n
// unless they had them to begin with.\n  if (this.slashes ||\n      (!protocol || slashedProtocol[protocol]) && host !==
false) {\n    host = '//' + (host || '');\n    if (pathname && pathname.charAt(0) !== '/') pathname = '/' + pathname;\n  }
else if (!host) {\n    host = '';\n  }\n\n  if (hash && hash.charAt(0) !== '#') hash = '#' + hash;\n  if (search &&
search.charAt(0) !== '?') search = '?' + search;\n\n  pathname = pathname.replace(/[?#]/g, function(match) {\n
return encodeURIComponent(match);\n  });\n  search = search.replace('#', '%23');\n\n  return protocol + host +
pathname + search + hash;\n};\n\nfunction urlResolve(source, relative) {\n  return urlParse(source, false,
true).resolve(relative);\n}\n\nUrl.prototype.resolve = function(relative) {\n  return
this.resolveObject(urlParse(relative, false, true)).format();\n};\n\nfunction urlResolveObject(source, relative) {\n  if
(!source) return relative;\n  return urlParse(source, false,
true).resolveObject(relative);\n}\n\nUrl.prototype.resolveObject = function(relative) {\n  if (util.isString(relative))
{\n    var rel = new Url();\n    rel.parse(relative, false, true);\n    relative = rel;\n  }\n\n  var result = new Url();\n  var
tkeys = Object.keys(this);\n  for (var tk = 0; tk < tkeys.length; tk++) {\n    var tkey = tkeys[tk];\n    result[tkey] =
this[tkey];\n  }\n\n  // hash is always overridden, no matter what.\n  // even href=\"\" will remove it.\n  result.hash =
relative.hash;\n\n  // if the relative url is empty, then there's nothing left to do here.\n  if (relative.href === '') {\n
result.href = result.format();\n    return result;\n  }\n\n  // hrefs like //foo/bar always cut to the protocol.\n  if
(relative.slashes && !relative.protocol) {\n    // take everything except the protocol from relative\n    var rkeys =
Object.keys(relative);\n    for (var rk = 0; rk < rkeys.length; rk++) {\n      var rkey = rkeys[rk];\n      if (rkey !==
'protocol')\n        result[rkey] = relative[rkey];\n    }\n\n    //urlParse appends trailing / to urls like
http://www.example.com\n    if (slashedProtocol[result.protocol] &&\n        result.hostname && !result.pathname)
{\n      result.path = result.pathname = '/';\n    }\n\n    result.href = result.format();\n    return result;\n  }\n\n  if
(relative.protocol && relative.protocol !== result.protocol) {\n    // if it's a known url protocol, then changing\n    //
the protocol does weird things\n    // first, if it's not file:, then we MUST have a host,\n    // and if there was a path\n
// to begin with, then we MUST have a path.\n    // if it is file:, then the host is dropped,\n    // because that's known
to be hostless.\n    // anything else is assumed to be absolute.\n    if (!slashedProtocol[relative.protocol]) {\n      var
keys = Object.keys(relative);\n      for (var v = 0; v < keys.length; v++) {\n        var k = keys[v];\n        result[k] =
relative[k];\n      }\n      result.href = result.format();\n      return result;\n    }\n\n    result.protocol =
relative.protocol;\n    if (!relative.host && !hostlessProtocol[relative.protocol]) {\n      var relPath =
(relative.pathname || '').split('/');\n      while (relPath.length && !(relative.host = relPath.shift()));\n      if
(!relative.host) relative.host = '';\n      if (!relative.hostname) relative.hostname = '';\n      if (relPath[0] !== '')
relPath.unshift('');\n      if (relPath.length < 2) relPath.unshift('');\n      result.pathname = relPath.join('/');\n    } else
{\n      result.pathname = relative.pathname;\n    }\n    result.search = relative.search;\n    result.query =
relative.query;\n    result.host = relative.host || '';\n    result.auth = relative.auth;\n    result.hostname =
relative.hostname || relative.host;\n    result.port = relative.port;\n    // to support http.request\n    if (result.pathname ||
result.search) {\n      var p = result.pathname || '';\n      var s = result.search || '';\n      result.path = p + s;\n    }\n
result.slashes = result.slashes || relative.slashes;\n    result.href = result.format();\n    return result;\n  }\n\n  var
isSourceAbs = (result.pathname && result.pathname.charAt(0) === '/'),\n      isRelAbs = (\n          relative.host ||\n
    relative.pathname && relative.pathname.charAt(0) === '/'\n      ),\n      mustEndAbs = (isRelAbs || isSourceAbs
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||\n   (result.host && relative.pathname)),\n   removeAllDots = mustEndAbs,\n   srcPath = result.pathname && result.pathname.split('/') || [],\n   relPath = relative.pathname && relative.pathname.split('/') || [],\n   psychotic = result.protocol && !slashedProtocol[result.protocol];\n\n // if the url is a non-slashed url, then relative\n // links like ../.. should be able\n // to crawl up to the hostname, as well. This is strange.\n // result.protocol has already been set by now.\n // Later on, put the first path part into the host field.\n if (psychotic) {\n   result.hostname = '';\n   result.port = null;\n   if (result.host) {\n   if (srcPath[0] === '') srcPath[0] = result.host;\n   else srcPath.unshift(result.host);\n   }\n   result.host = '';\n   if (relative.protocol) {\n   relative.hostname = null;\n   relative.port = null;\n   if (relative.host) {\n   if (relPath[0] === '') relPath[0] = relative.host;\n   else relPath.unshift(relative.host);\n   }\n   relative.host = null;\n   }\n   mustEndAbs = mustEndAbs && (relPath[0] === '' || srcPath[0] === '');\n }\n\n if (isRelAbs) {\n   // it's absolute.\n   result.host = (relative.host || relative.host === '') ?\n   relative.host : result.host;\n   result.hostname = (relative.hostname || relative.hostname === '') ?\n   relative.hostname : result.hostname;\n   result.search = relative.search;\n   result.query = relative.query;\n   srcPath = relPath;\n   // fall through to the dot-handling below.\n } else if (relPath.length) {\n   // it's relative\n   // throw away the existing file, and take the new path instead.\n   if (!srcPath) srcPath = [];\n   srcPath.pop();\n   srcPath = srcPath.concat(relPath);\n   result.search = relative.search;\n   result.query = relative.query;\n } else if (!util.isNullOrUndefined(relative.search)) {\n   // just pull out the search.\n   // like href='?foo'.\n   // Put this after the other two cases because it simplifies the booleans\n   if (psychotic) {\n   result.hostname = result.host = srcPath.shift();\n   //occationaly the auth can get stuck only in host\n   //this especially happens in cases like\n   //url.resolveObject('mailto:local1@domain1', 'local2@domain2')\n   var authInHost = result.host && result.host.indexOf('@') > 0 ?\n   result.host.split('@') : false;\n   if (authInHost) {\n   result.auth = authInHost.shift();\n   result.host = result.hostname = authInHost.shift();\n   }\n   }\n   result.search = relative.search;\n   result.query = relative.query;\n   //to support http.request\n   if (!util.isNull(result.pathname) || !util.isNull(result.search)) {\n   result.path = (result.pathname ? result.pathname : '') +\n   (result.search ? result.search : '');\n   }\n   result.href = result.format();\n   return result;\n }\n\n if (!srcPath.length) {\n   // no path at all. easy.\n   // we've already handled the other stuff above.\n   result.pathname = null;\n   //to support http.request\n   if (result.search) {\n   result.path = '/' + result.search;\n   } else {\n   result.path = null;\n   }\n   result.href = result.format();\n   return result;\n }\n\n // if a url ENDs in . or .., then it must get a trailing slash.\n // however, if it ends in anything else non-slashy,\n // then it must NOT get a trailing slash.\n var last = srcPath.slice(-1)[0];\n var hasTrailingSlash = (\n   (result.host || relative.host || srcPath.length > 1) &&\n   (last === '.' || last === '..') || last === '');\n\n // strip single dots, resolve double dots to parent dir\n // if the path tries to go above the root, `up` ends up > 0\n var up = 0;\n for (var i = srcPath.length; i >= 0; i--) {\n   last = srcPath[i];\n   if (last === '.') {\n   srcPath.splice(i, 1);\n   } else if (last === '..') {\n   srcPath.splice(i, 1);\n   up++;\n   } else if (up) {\n   srcPath.splice(i, 1);\n   up--;\n   }\n }\n\n // if the path is allowed to go above the root, restore leading ..s\n if (!mustEndAbs && !removeAllDots) {\n   for (; up--; up) {\n   srcPath.unshift('..');\n   }\n }\n\n if (mustEndAbs && srcPath[0] !== '' &&\n   (!srcPath[0] || srcPath[0].charAt(0) !== '/')) {\n   srcPath.unshift('');\n }\n\n if (hasTrailingSlash && (srcPath.join('/').substr(-1) !== '/')) {\n   srcPath.push('');\n }\n\n var isAbsolute = srcPath[0] === '' ||\n   (srcPath[0] && srcPath[0].charAt(0) === '/');\n\n // put the host back\n if (psychotic) {\n   result.hostname = result.host = isAbsolute ? '' :\n   srcPath.length ? srcPath.shift() : '';\n   //occationaly the auth can get stuck only in host\n   //this especially happens in cases like\n   //url.resolveObject('mailto:local1@domain1', 'local2@domain2')\n   var authInHost = result.host && result.host.indexOf('@') > 0 ?\n   result.host.split('@') : false;\n   if (authInHost) {\n   result.auth = authInHost.shift();\n   result.host = result.hostname = authInHost.shift();\n   }\n }\n\n mustEndAbs = mustEndAbs || (result.host && srcPath.length);\n\n if (mustEndAbs && !isAbsolute) {\n   srcPath.unshift('');\n }\n\n if (!srcPath.length) {\n   result.pathname = null;\n   result.path = null;\n } else {\n   result.pathname = srcPath.join('/');\n }\n\n //to support request.http\n if (!util.isNull(result.pathname) || !util.isNull(result.search)) {\n   result.path = (result.pathname ? result.pathname : '') +\n   (result.search ? result.search : '');\n }\n result.auth = relative.auth || result.auth;\n result.slashes = result.slashes || relative.slashes;\n result.href = result.format();\n return

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

{\n if (paint['text-size']) {\n if (!layer.layout) layer.layout = {};\n layer.layout['text-size'] = paint['text-size'];\n delete paint['text-size'];\n }\n\n if (paint['icon-size']) {\n if (!layer.layout) layer.layout = {};\n layer.layout['icon-size'] = paint['icon-size'];\n delete paint['icon-size'];\n }\n });\n });\n\n function migrateFontstackURL(input) {\n const inputParsed = URL.parse(input);\n const inputPathnameParts = inputParsed.pathname.split('/');\n\n if (inputParsed.protocol !== 'mapbox:') {\n return input;\n\n } else if (inputParsed.hostname === 'fontstack') {\n assert(decodeURI(inputParsed.pathname) === '/{fontstack}/{range}.pbf');\n return 'mapbox://fonts/mapbox/{fontstack}/{range}.pbf';\n\n } else if (inputParsed.hostname === 'fonts') {\n assert(inputPathnameParts[1] === 'v1');\n assert(decodeURI(inputPathnameParts[3]) === '{fontstack}');\n assert(decodeURI(inputPathnameParts[4]) === '{range}.pbf');\n return `mapbox://fonts/${inputPathnameParts[2]}/{fontstack}/{range}.pbf`;\n\n } else {\n assert(false);\n }\n\n function assert(predicate) {\n if (!predicate) {\n throw new Error(`Invalid font url: \"${input}\"`);\n }\n }\n }\n\n if (style.glyphs) {\n style.glyphs = migrateFontstackURL(style.glyphs);\n }\n\n function migrateFontStack(font) {\n function splitAndTrim(string) {\n return string.split(',').map((s) => {\n return s.trim();\n });\n }\n\n if (Array.isArray(font)) {\n // Assume it's a previously migrated font-array.\n return font;\n\n } else if (typeof font === 'string') {\n return splitAndTrim(font);\n\n } else if (typeof font === 'object') {\n font.stops.forEach((stop) => {\n stop[1] = splitAndTrim(stop[1]);\n });\n return font;\n\n } else {\n throw new Error(\"unexpected font value\");\n }\n }\n\n eachLayer(style, (layer) => {\n eachLayout(layer, (layout) => {\n if (layout['text-font']) {\n layout['text-font'] = migrateFontStack(layout['text-font']);\n }\n });\n });\n\n // Reverse order of symbol layers. This is an imperfect migration.\n //\n // The order of a symbol layer in the layers list affects two things:\n // - how it is drawn relative to other layers (like oneway arrows below bridges)\n // - the placement priority compared to other layers\n //\n // It's impossible to reverse the placement priority without breaking the draw order\n // in some cases. This migration only reverses the order of symbol layers that\n // are above all other types of layers.\n //\n // Symbol layers that are at the top of the map preserve their priority.\n // Symbol layers that are below another type (line, fill) of layer preserve their draw order.\n\n let firstSymbolLayer = 0;\n for (let i = style.layers.length - 1; i >= 0; i--) {\n const layer = style.layers[i];\n if (layer.type !== 'symbol') {\n firstSymbolLayer = i + 1;\n break;\n }\n }\n\n const symbolLayers = style.layers.splice(firstSymbolLayer);\n symbolLayers.reverse();\n style.layers = style.layers.concat(symbolLayers);\n\n return style;\n}\n","// @flow\n\nexport default function (output: any, ...inputs: Array<any>) {\n for (const input of inputs) {\n for (const k in input) {\n output[k] = input[k];\n }\n }\n return output;\n}\n","// @flow\n\nclass ParsingError extends Error {\n key: string;\n message: string;\n constructor(key: string, message: string) {\n super(message);\n this.message = message;\n this.key = key;\n }\n}\n\nexport default ParsingError;\n","// @flow\n\nimport type {Expression} from './expression';\n\n/**\n * Tracks `let` bindings during expression parsing.\n * @private\n */\nclass Scope {\n parent: ?Scope;\n bindings: {[_: string]: Expression};\n constructor(parent?: Scope, bindings: Array<[string, Expression]> = []) {\n this.parent = parent;\n this.bindings = {};\n for (const [name, expression] of bindings) {\n this.bindings[name] = expression;\n }\n }\n\n concat(bindings: Array<[string, Expression]>) {\n return new Scope(this, bindings);\n }\n\n get(name: string): Expression {\n if (this.bindings[name]) { return this.bindings[name]; }\n if (this.parent) { return this.parent.get(name); }\n throw new Error(`${name} not found in scope.`);\n }\n\n has(name: string): boolean {\n if (this.bindings[name]) return true;\n return this.parent ? this.parent.has(name) : false;\n }\n}\n\nexport default Scope;\n","// @flow\n\nexport type NullTypeT = { kind: 'null' };\nexport type NumberTypeT = { kind: 'number' };\nexport type StringTypeT = { kind: 'string' };\nexport type BooleanTypeT = { kind: 'boolean' };\nexport type ColorTypeT = { kind: 'color' };\nexport type ObjectTypeT = { kind: 'object' };\nexport type ValueTypeT = { kind: 'value' };\nexport type ErrorTypeT = { kind: 'error' };\nexport type CollatorTypeT = { kind: 'collator' };\nexport type FormattedTypeT = { kind: 'formatted' };\nexport type ResolvedImageTypeT = { kind: 'resolvedImage' };\n\nexport

type EvaluationKind = 'constant' | 'source' | 'camera' | 'composite';\n\nexport type Type =\n   NullTypeT |\n   NumberTypeT |\n   StringTypeT |\n   BooleanTypeT |\n   ColorTypeT |\n   ObjectTypeT |\n   ValueTypeT |\n   ArrayType | // eslint-disable-line no-use-before-define\n   ErrorTypeT |\n   CollatorTypeT |\n   FormattedTypeT |\n   ResolvedImageTypeT\n\nexport type ArrayType = {\n   kind: 'array',\n   itemType: Type,\n   N: ?number\n}\n\nexport type NativeType = 'number' | 'string' | 'boolean' | 'null' | 'array' | 'object'\n\nexport const NullType = {kind: 'null'};\nexport const NumberType = {kind: 'number'};\nexport const StringType = {kind: 'string'};\nexport const BooleanType = {kind: 'boolean'};\nexport const ColorType = {kind: 'color'};\nexport const ObjectType = {kind: 'object'};\nexport const ValueType = {kind: 'value'};\nexport const ErrorType = {kind: 'error'};\nexport const CollatorType = {kind: 'collator'};\nexport const FormattedType = {kind: 'formatted'};\nexport const ResolvedImageType = {kind: 'resolvedImage'};\n\nexport function array(itemType: Type, N: ?number): ArrayType {\n   return {\n   kind: 'array',\n   itemType,\n   N\n   };\n}\n\nexport function toString(type: Type): string {\n   if (type.kind === 'array') {\n   const itemType = toString(type.itemType);\n   return typeof type.N === 'number' ?\n   `array<${itemType}, ${type.N}>` :\n   type.itemType.kind === 'value' ? 'array' : `array<${itemType}>`;\n   } else {\n   return type.kind;\n   }\n}\n\nconst valueMemberTypes = [\n   NullType,\n   NumberType,\n   StringType,\n   BooleanType,\n   ColorType,\n   FormattedType,\n   ObjectType,\n   array(ValueType),\n   ResolvedImageType\n];\n\n/**\n * Returns null if `t` is a subtype of `expected`; otherwise returns an\n * error message.\n * @private\n */\nexport function checkSubtype(expected: Type, t: Type): ?string {\n   if (t.kind === 'error') {\n   // Error is a subtype of every type\n   return null;\n   } else if (expected.kind === 'array') {\n   if (t.kind === 'array' &&\n   ((t.N === 0 && t.itemType.kind === 'value') || !checkSubtype(expected.itemType, t.itemType)) &&\n   (typeof expected.N !== 'number' || expected.N === t.N)) {\n   return null;\n   }\n   } else if (expected.kind === t.kind) {\n   return null;\n   } else if (expected.kind === 'value') {\n   for (const memberType of valueMemberTypes) {\n   if (!checkSubtype(memberType, t)) {\n   return null;\n   }\n   }\n   }\n\n   return `Expected ${toString(expected)} but found ${toString(t)} instead.`;\n}\n\nexport function isValidType(provided: Type, allowedTypes: Array<Type>): boolean {\n   return allowedTypes.some(t => t.kind === provided.kind);\n}\n\nexport function isValidNativeType(provided: any, allowedTypes: Array<NativeType>): boolean {\n   return allowedTypes.some(t => {\n   if (t === 'null') {\n   return provided === null;\n   } else if (t === 'array') {\n   return Array.isArray(provided);\n   } else if (t === 'object') {\n   return provided && !Array.isArray(provided) && typeof provided === 'object';\n   } else {\n   return t === typeof provided;\n   }\n   });\n}\n","// (c) Dean McNamee <dean@gmail.com>, 2012.\n//\n// https://github.com/deanm/css-color-parser-js\n//\n// Permission is hereby granted, free of charge, to any person obtaining a copy\n// of this software and associated documentation files (the \"Software\"), to\n// deal in the Software without restriction, including without limitation the\n// rights to use, copy, modify, merge, publish, distribute, sublicense, and/or\n// sell copies of the Software, and to permit persons to whom the Software is\n// furnished to do so, subject to the following conditions:\n//\n// The above copyright notice and this permission notice shall be included in\n// all copies or substantial portions of the Software.\n//\n// THE SOFTWARE IS PROVIDED \"AS IS\", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR\n// IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,\n// FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE\n// AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER\n// LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING\n// FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS\n// IN THE SOFTWARE.\n\n// http://www.w3.org/TR/css3-color/\nvar kCSSColorTable = {\n \"transparent\": [0,0,0,0], \"aliceblue\": [240,248,255,1],\n \"antiquewhite\": [250,235,215,1], \"aqua\": [0,255,255,1],\n \"aquamarine\": [127,255,212,1], \"azure\": [240,255,255,1],\n \"beige\": [245,245,220,1], \"bisque\": [255,228,196,1],\n \"black\": [0,0,0,1], \"blanchedalmond\": [255,235,205,1],\n \"blue\": [0,0,255,1], \"blueviolet\": [138,43,226,1],\n \"brown\": [165,42,42,1], \"burlywood\": [222,184,135,1],\n \"cadetblue\": [95,158,160,1], \"chartreuse\": [127,255,0,1],\n \"chocolate\": [210,105,30,1], \"coral\": [255,127,80,1],\n \"cornflowerblue\": [100,149,237,1], \"cornsilk\": [255,248,220,1],\n \"crimson\":

[220,20,60,1], \"cyan\": [0,255,255,1],\n \"darkblue\": [0,0,139,1], \"darkcyan\": [0,139,139,1],\n \"darkgoldenrod\": [184,134,11,1], \"darkgray\": [169,169,169,1],\n \"darkgreen\": [0,100,0,1], \"darkgrey\": [169,169,169,1],\n \"darkkhaki\": [189,183,107,1], \"darkmagenta\": [139,0,139,1],\n \"darkolivegreen\": [85,107,47,1], \"darkorange\": [255,140,0,1],\n \"darkorchid\": [153,50,204,1], \"darkred\": [139,0,0,1],\n \"darksalmon\": [233,150,122,1], \"darkseagreen\": [143,188,143,1],\n \"darkslateblue\": [72,61,139,1], \"darkslategray\": [47,79,79,1],\n \"darkslategrey\": [47,79,79,1], \"darkturquoise\": [0,206,209,1],\n \"darkviolet\": [148,0,211,1], \"deeppink\": [255,20,147,1],\n \"deepskyblue\": [0,191,255,1], \"dimgray\": [105,105,105,1],\n \"dimgrey\": [105,105,105,1], \"dodgerblue\": [30,144,255,1],\n \"firebrick\": [178,34,34,1], \"floralwhite\": [255,250,240,1],\n \"forestgreen\": [34,139,34,1], \"fuchsia\": [255,0,255,1],\n \"gainsboro\": [220,220,220,1], \"ghostwhite\": [248,248,255,1],\n \"gold\": [255,215,0,1], \"goldenrod\": [218,165,32,1],\n \"gray\": [128,128,128,1], \"green\": [0,128,0,1],\n \"greenyellow\": [173,255,47,1], \"grey\": [128,128,128,1],\n \"honeydew\": [240,255,240,1], \"hotpink\": [255,105,180,1],\n \"indianred\": [205,92,92,1], \"indigo\": [75,0,130,1],\n \"ivory\": [255,255,240,1], \"khaki\": [240,230,140,1],\n \"lavender\": [230,230,250,1], \"lavenderblush\": [255,240,245,1],\n \"lawngreen\": [124,252,0,1], \"lemonchiffon\": [255,250,205,1],\n \"lightblue\": [173,216,230,1], \"lightcoral\": [240,128,128,1],\n \"lightcyan\": [224,255,255,1], \"lightgoldenrodyellow\": [250,250,210,1],\n \"lightgray\": [211,211,211,1], \"lightgreen\": [144,238,144,1],\n \"lightgrey\": [211,211,211,1], \"lightpink\": [255,182,193,1],\n \"lightsalmon\": [255,160,122,1], \"lightseagreen\": [32,178,170,1],\n \"lightskyblue\": [135,206,250,1], \"lightslategray\": [119,136,153,1],\n \"lightslategrey\": [119,136,153,1], \"lightsteelblue\": [176,196,222,1],\n \"lightyellow\": [255,255,224,1], \"lime\": [0,255,0,1],\n \"limegreen\": [50,205,50,1], \"linen\": [250,240,230,1],\n \"magenta\": [255,0,255,1], \"maroon\": [128,0,0,1],\n \"mediumaquamarine\": [102,205,170,1], \"mediumblue\": [0,0,205,1],\n \"mediumorchid\": [186,85,211,1], \"mediumpurple\": [147,112,219,1],\n \"mediumseagreen\": [60,179,113,1], \"mediumslateblue\": [123,104,238,1],\n \"mediumspringgreen\": [0,250,154,1], \"mediumturquoise\": [72,209,204,1],\n \"mediumvioletred\": [199,21,133,1], \"midnightblue\": [25,25,112,1],\n \"mintcream\": [245,255,250,1], \"mistyrose\": [255,228,225,1],\n \"moccasin\": [255,228,181,1], \"navajowhite\": [255,222,173,1],\n \"navy\": [0,0,128,1], \"oldlace\": [253,245,230,1],\n \"olive\": [128,128,0,1], \"olivedrab\": [107,142,35,1],\n \"orange\": [255,165,0,1], \"orangered\": [255,69,0,1],\n \"orchid\": [218,112,214,1], \"palegoldenrod\": [238,232,170,1],\n \"palegreen\": [152,251,152,1], \"paleturquoise\": [175,238,238,1],\n \"palevioletred\": [219,112,147,1], \"papayawhip\": [255,239,213,1],\n \"peachpuff\": [255,218,185,1], \"peru\": [205,133,63,1],\n \"pink\": [255,192,203,1], \"plum\": [221,160,221,1],\n \"powderblue\": [176,224,230,1], \"purple\": [128,0,128,1],\n \"rebeccapurple\": [102,51,153,1],\n \"red\": [255,0,0,1], \"rosybrown\": [188,143,143,1],\n \"royalblue\": [65,105,225,1], \"saddlebrown\": [139,69,19,1],\n \"salmon\": [250,128,114,1], \"sandybrown\": [244,164,96,1],\n \"seagreen\": [46,139,87,1], \"seashell\": [255,245,238,1],\n \"sienna\": [160,82,45,1], \"silver\": [192,192,192,1],\n \"skyblue\": [135,206,235,1], \"slateblue\": [106,90,205,1],\n \"slategray\": [112,128,144,1], \"slategrey\": [112,128,144,1],\n \"snow\": [255,250,250,1], \"springgreen\": [0,255,127,1],\n \"steelblue\": [70,130,180,1], \"tan\": [210,180,140,1],\n \"teal\": [0,128,128,1], \"thistle\": [216,191,216,1],\n \"tomato\": [255,99,71,1], \"turquoise\": [64,224,208,1],\n \"violet\": [238,130,238,1], \"wheat\": [245,222,179,1],\n \"white\": [255,255,255,1], \"whitesmoke\": [245,245,245,1],\n \"yellow\": [255,255,0,1], \"yellowgreen\": [154,205,50,1]}\n\nfunction clamp_css_byte(i) { // Clamp to integer 0 .. 255.\n i = Math.round(i); // Seems to be what Chrome does (vs truncation).\n return i < 0 ? 0 : i > 255 ? 255 : i;\n}\n\nfunction clamp_css_float(f) { // Clamp to float 0.0 .. 1.0.\n return f < 0 ? 0 : f > 1 ? 1 : f;\n}\n\nfunction parse_css_int(str) { // int or percentage.\n if (str[str.length - 1] === '%')\n   return clamp_css_byte(parseFloat(str) / 100 * 255);\n return clamp_css_byte(parseInt(str));\n}\n\nfunction parse_css_float(str) { // float or percentage.\n if (str[str.length - 1] === '%')\n   return clamp_css_float(parseFloat(str) / 100);\n return clamp_css_float(parseFloat(str));\n}\n\nfunction css_hue_to_rgb(m1, m2, h) {\n if (h < 0) h += 1;\n else if (h > 1) h -= 1;\n\n if (h * 6 < 1) return m1 + (m2 - m1) * h * 6;\n if (h * 2 < 1) return m2;\n if (h * 3 < 2) return m1 + (m2 - m1) * (2/3 - h) * 6;\n return m1;\n}\n\nfunction parseCSSColor(css_str) {\n // Remove all whitespace, not compliant, but should just be more accepting.\n var str = css_str.replace(/ /g, '').toLowerCase();\n\n // Color keywords (and transparent) lookup.\n if (str in kCSSColorTable)

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return kCSSColorTable[str].slice();  // dup.\n\n  // #abc and #abc123 syntax.\n  if (str[0] === '#') {\n    if (str.length
=== 4) {\n      var iv = parseInt(str.substr(1), 16);  // TODO(deanm): Stricter parsing.\n      if (!(iv >= 0 && iv <=
0xfff)) return null;  // Covers NaN.\n      return [((iv & 0xf00) >> 4) | ((iv & 0xf00) >> 8),\n              (iv & 0xf0) | ((iv
& 0xf0) >> 4),\n              (iv & 0xf) | ((iv & 0xf) << 4),\n              1];\n    } else if (str.length === 7) {\n      var iv =
parseInt(str.substr(1), 16);  // TODO(deanm): Stricter parsing.\n      if (!(iv >= 0 && iv <= 0xffffff)) return null;  //
Covers NaN.\n      return [(iv & 0xff0000) >> 16,\n              (iv & 0xff00) >> 8,\n              iv & 0xff,\n              1];\n
}\n\n    return null;\n  }\n\n  var op = str.indexOf('('), ep = str.indexOf(')');\n  if (op !== -1 && ep + 1 === str.length)
{\n    var fname = str.substr(0, op);\n    var params = str.substr(op+1, ep-(op+1)).split(',');\n    var alpha = 1;  // To
allow case fallthrough.\n    switch (fname) {\n      case 'rgba':\n        if (params.length !== 4) return null;\n        alpha
= parse_css_float(params.pop());\n        // Fall through.\n      case 'rgb':\n        if (params.length !== 3) return null;\n
    return [parse_css_int(params[0]),\n                parse_css_int(params[1]),\n                parse_css_int(params[2]),\n
        alpha];\n      case 'hsla':\n        if (params.length !== 4) return null;\n        alpha =
parse_css_float(params.pop());\n        // Fall through.\n      case 'hsl':\n        if (params.length !== 3) return null;\n
var h = (((parseFloat(params[0]) % 360) + 360) % 360) / 360;  // 0 .. 1\n        // NOTE(deanm): According to the
CSS spec s/l should only be\n        // percentages, but we don't bother and let float or percentage.\n        var s =
parse_css_float(params[1]);\n        var l = parse_css_float(params[2]);\n        var m2 = l <= 0.5 ? l * (s + 1) : l + s - l
* s;\n        var m1 = l * 2 - m2;\n        return [clamp_css_byte(css_hue_to_rgb(m1, m2, h+1/3) * 255),\n
clamp_css_byte(css_hue_to_rgb(m1, m2, h) * 255),\n                clamp_css_byte(css_hue_to_rgb(m1, m2, h-1/3) *
255),\n                alpha];\n      default:\n        return null;\n    }\n  }\n\n  return null;\n}\n\ntry {
exports.parseCSSColor = parseCSSColor } catch(e) { }\n","// @flow\n\nimport {parseCSSColor} from
'csscolorparser';\n\n/**\n * An RGBA color value. Create instances from color strings using the static\n * method
`Color.parse`. The constructor accepts RGB channel values in the range\n * `[0, 1]`, premultiplied by A.\n *\n *
@param {number} r The red channel.\n * @param {number} g The green channel.\n * @param {number} b The
blue channel.\n * @param {number} a The alpha channel.\n * @private\n */\nclass Color {\n    r: number;\n    g:
number;\n    b: number;\n    a: number;\n\n    constructor(r: number, g: number, b: number, a: number = 1) {\n
this.r = r;\n        this.g = g;\n        this.b = b;\n        this.a = a;\n    }\n\n    static black: Color;\n    static white: Color;\n
  static transparent: Color;\n    static red: Color;\n\n    /**\n     * Parses valid CSS color strings and returns a `Color`
instance.\n     * @returns A `Color` instance, or `undefined` if the input is not a valid color string.\n     */\n    static
parse(input?: string | Color | null): Color | void {\n        if (!input) {\n            return undefined;\n        }\n\n        if
(input instanceof Color) {\n            return input;\n        }\n\n        if (typeof input !== 'string') {\n            return
undefined;\n        }\n\n        const rgba = parseCSSColor(input);\n        if (!rgba) {\n            return undefined;\n
}\n\n        return new Color(\n            rgba[0] / 255 * rgba[3],\n            rgba[1] / 255 * rgba[3],\n            rgba[2] / 255
* rgba[3],\n            rgba[3]\n        );\n    }\n\n    /**\n     * Returns an RGBA string representing the color value.\n
*\n     * @returns An RGBA string.\n     * @example\n     * var purple = new Color.parse('purple');\n     *
purple.toString; // = \"rgba(128,0,128,1)\"\n     * var translucentGreen = new Color.parse('rgba(26, 207, 26, .73)');\n
 * translucentGreen.toString(); // = \"rgba(26,207,26,0.73)\"\n     */\n    toString(): string {\n        const [r, g, b, a] =
this.toArray();\n        return `rgba(${Math.round(r)},${Math.round(g)},${Math.round(b)},${a})`;\n    }\n\n
toArray(): [number, number, number, number] {\n        const {r, g, b, a} = this;\n        return a === 0 ? [0, 0, 0, 0] :
[\n            r * 255 / a,\n            g * 255 / a,\n            b * 255 / a,\n            a\n        ];\n    }\n}\n\nColor.black = new
Color(0, 0, 0, 1);\nColor.white = new Color(1, 1, 1, 1);\nColor.transparent = new Color(0, 0, 0, 0);\nColor.red = new
Color(1, 0, 0, 1);\n\nexport default Color;\n","// @flow\n\n// Flow type declarations for Intl cribbed from\n//
https://github.com/facebook/flow/issues/1270\n\ndeclare var Intl: {\n    Collator:
Class<Intl$Collator>\n};\n\ndeclare class Intl$Collator {\n    constructor (\n        locales?: string | string[],\n
options?: CollatorOptions\n    ): Intl$Collator;\n\n    static (\n        locales?: string | string[],\n        options?:
CollatorOptions\n    ): Intl$Collator;\n\n    compare (a: string, b: string): number;\n\n    resolvedOptions():
any;\n}\n\ntype CollatorOptions = {\n    localeMatcher?: 'lookup' | 'best fit',\n    usage?: 'sort' | 'search',\n
sensitivity?: 'base' | 'accent' | 'case' | 'variant',\n    ignorePunctuation?: boolean,\n    numeric?: boolean,\n    caseFirst?:
'upper' | 'lower' | 'false'\n}\n\nexport default class Collator {\n    locale: string | null;\n    sensitivity: 'base' | 'accent' |
```

'case' | 'variant';\n   collator: Intl$Collator;\n\n   constructor(caseSensitive: boolean, diacriticSensitive: boolean, locale: string | null) {\n   if (caseSensitive)\n   this.sensitivity = diacriticSensitive ? 'variant' : 'case';\n   else\n   this.sensitivity = diacriticSensitive ? 'accent' : 'base';\n\n   this.locale = locale;\n   this.collator = new Intl.Collator(this.locale ? this.locale : [],\n   {sensitivity: this.sensitivity, usage: 'search'});\n   }\n\n   compare(lhs: string, rhs: string): number {\n   return this.collator.compare(lhs, rhs);\n   }\n\n   resolvedLocale(): string {\n   // We create a Collator without \"usage: search\" because we don't want\n   // the search options encoded in our result (e.g. \"en-u-co-search\")\n   return new Intl.Collator(this.locale ? this.locale : [])\n   .resolvedOptions().locale;\n   }\n}\n","// @flow\nimport type Color from '../../util/color';\nimport type ResolvedImage from '../types/resolved_image';\n\nexport class FormattedSection {\n   text: string;\n   image: ResolvedImage | null;\n   scale: number | null;\n   fontStack: string | null;\n   textColor: Color | null;\n\n   constructor(text: string, image: ResolvedImage | null, scale: number | null, fontStack: string | null, textColor: Color | null) {\n   this.text = text;\n   this.image = image;\n   this.scale = scale;\n   this.fontStack = fontStack;\n   this.textColor = textColor;\n   }\n}\n\nexport default class Formatted {\n   sections: Array<FormattedSection>;\n\n   constructor(sections: Array<FormattedSection>) {\n   this.sections = sections;\n   }\n\n   static fromString(unformatted: string): Formatted {\n   return new Formatted([new FormattedSection(unformatted, null, null, null, null)]);\n   }\n\n   isEmpty(): boolean {\n   if (this.sections.length === 0) return true;\n   return !this.sections.some(section => section.text.length !== 0 ||\n   (section.image && section.image.name.length !== 0));\n   }\n\n   static factory(text: Formatted | string): Formatted {\n   if (text instanceof Formatted) {\n   return text;\n   } else {\n   return Formatted.fromString(text);\n   }\n   }\n\n   toString(): string {\n   if (this.sections.length === 0) return '';\n   return this.sections.map(section => section.text).join('');\n   }\n\n   serialize(): Array<mixed> {\n   const serialized: Array<mixed> = [\"format\"];\n   for (const section of this.sections) {\n   if (section.image) {\n   serialized.push([\"image\", section.image.name]);\n   continue;\n   }\n   serialized.push(section.text);\n   const options: { [key: string]: mixed } = {};\n   if (section.fontStack) {\n   options[\"text-font\"] = [\"literal\", section.fontStack.split(',')];\n   }\n   if (section.scale) {\n   options[\"font-scale\"] = section.scale;\n   }\n   if (section.textColor) {\n   options[\"text-color\"] = ([\"rgba\"]: Array<mixed>).concat(section.textColor.toArray());\n   }\n   serialized.push(options);\n   }\n   return serialized;\n   }\n}\n","// @flow\n\nexport type ResolvedImageOptions = {\n   name: string,\n   available: boolean\n};\n\nexport default class ResolvedImage {\n   name: string;\n   available: boolean;\n\n   constructor(options: ResolvedImageOptions) {\n   this.name = options.name;\n   this.available = options.available;\n   }\n\n   toString(): string {\n   return this.name;\n   }\n\n   static fromString(name: string): ResolvedImage | null {\n   if (!name) return null; // treat empty values as no image\n   return new ResolvedImage({name, available: false});\n   }\n\n   serialize(): Array<string> {\n   return [\"image\", this.name];\n   }\n}\n","// @flow\n\nimport assert from 'assert';\n\nimport Color from '../util/color';\nimport Collator from './types/collator';\nimport Formatted from './types/formatted';\nimport ResolvedImage from './types/resolved_image';\nimport {NullType, NumberType, StringType, BooleanType, ColorType, ObjectType, ValueType, CollatorType, FormattedType, ResolvedImageType, array} from './types';\n\nimport type {Type} from './types';\n\nexport function validateRGBA(r: mixed, g: mixed, b: mixed, a?: mixed): string | null {\n   if (!(\n   typeof r === 'number' && r >= 0 && r <= 255 &&\n   typeof g === 'number' && g >= 0 && g <= 255 &&\n   typeof b === 'number' && b >= 0 && b <= 255\n   )) {\n   const value = typeof a === 'number' ? [r, g, b, a] : [r, g, b];\n   return `Invalid rgba value [${value.join(', ')}]: 'r', 'g', and 'b' must be between 0 and 255.`;\n   }\n\n   if (!(\n   typeof a === 'undefined' || (typeof a === 'number' && a >= 0 && a <= 1)\n   )) {\n   return `Invalid rgba value [${[r, g, b, a].join(', ')}]: 'a' must be between 0 and 1.`;\n   }\n\n   return null;\n}\n\nexport type Value = null | string | boolean | number | Color | Collator | Formatted | ResolvedImage | $ReadOnlyArray<Value> | { +[string]: Value }\n\nexport function isValue(mixed: mixed): boolean {\n   if (mixed === null) {\n   return true;\n   } else if (typeof mixed === 'string') {\n   return true;\n   } else if (typeof mixed === 'boolean') {\n   return true;\n   } else if (typeof mixed === 'number') {\n   return true;\n   } else if (mixed instanceof Color) {\n   return true;\n   } else if (mixed instanceof Collator) {\n   return true;\n

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

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this.args = args;\n    }\n\n    static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n
    if (args.length < 2)\n            return context.error(`Expected at least one argument.`);\n\n        let i = 1;\n        let
type;\n\n        const name: string = (args[0]: any);\n        if (name === 'array') {\n            let itemType;\n            if
(args.length > 2) {\n                const type = args[1];\n                if (typeof type !== 'string' || !(type in types) || type
=== 'object')\n                    return context.error('The item type argument of \"array\" must be one of string, number,
boolean', 1);\n                itemType = types[type];\n                i++;\n            } else {\n                itemType =
ValueType;\n            }\n\n            let N;\n            if (args.length > 3) {\n                if (args[2] !== null &&\n
  (typeof args[2] !== 'number' ||\n                        args[2] < 0 ||\n                        args[2] !== Math.floor(args[2]))\n
      ) {\n                    return context.error('The length argument to \"array\" must be a positive integer literal', 2);\n
        }\n                N = args[2];\n                i++;\n            }\n\n            type = array(itemType, N);\n        } else {\n
     assert(types[name], name);\n            type = types[name];\n        }\n\n        const parsed = [];\n        for (; i <
args.length; i++) {\n            const input = context.parse(args[i], i, ValueType);\n            if (!input) return null;\n
 parsed.push(input);\n        }\n\n        return new Assertion(type, parsed);\n    }\n\n    evaluate(ctx:
EvaluationContext) {\n        for (let i = 0; i < this.args.length; i++) {\n            const value =
this.args[i].evaluate(ctx);\n            const error = checkSubtype(this.type, typeOf(value));\n            if (!error) {\n
     return value;\n            } else if (i === this.args.length - 1) {\n                throw new RuntimeError(`Expected value
to be of type ${toString(this.type)}, but found ${toString(typeOf(value))} instead.`);\n            }\n        }\n\n
assert(false);\n        return null;\n    }\n\n    eachChild(fn: (_: Expression) => void) {\n        this.args.forEach(fn);\n
}\n\n    outputDefined(): boolean {\n        return this.args.every(arg => arg.outputDefined());\n    }\n\n    serialize():
Array<mixed> {\n        const type = this.type;\n        const serialized = [type.kind];\n        if (type.kind === 'array')
{\n            const itemType = type.itemType;\n            if (itemType.kind === 'string' ||\n                itemType.kind ===
'number' ||\n                itemType.kind === 'boolean') {\n                serialized.push(itemType.kind);\n                const
N = type.N;\n                if (typeof N === 'number' || this.args.length > 1) {\n                    serialized.push(N);\n
  }\n            }\n        }\n        return serialized.concat(this.args.map(arg => arg.serialize()));\n    }\n}\n\nexport default
Assertion;\n","// @flow\n\nimport {NumberType, ValueType, FormattedType, array, StringType, ColorType,
ResolvedImageType} from '../types';\nimport Formatted, {FormattedSection} from '../types/formatted';\nimport
{toString, typeOf} from '../values';\n\nimport type {Expression} from '../expression';\nimport type
EvaluationContext from '../evaluation_context';\nimport type ParsingContext from '../parsing_context';\nimport type
{Type} from '../types';\n\ntype FormattedSectionExpression = {\n    // Content of a section may be Image expression
or other\n    // type of expression that is coercable to 'string'.\n    content: Expression,\n    scale: Expression | null;\n
font: Expression | null;\n    textColor: Expression | null;\n}\n\nexport default class FormatExpression implements
Expression {\n    type: Type;\n    sections: Array<FormattedSectionExpression>;\n\n    constructor(sections:
Array<FormattedSectionExpression>) {\n        this.type = FormattedType;\n        this.sections = sections;\n    }\n\n
static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n        if (args.length < 2) {\n
      return context.error(`Expected at least one argument.`);\n        }\n\n        const firstArg = args[1];\n        if
(!Array.isArray(firstArg) && typeof firstArg === 'object')  {\n            return context.error(`First argument must be
an image or text section.`);\n        }\n\n        const sections: Array<FormattedSectionExpression> = [];\n        let
nextTokenMayBeObject = false;\n        for (let i = 1; i <= args.length - 1; ++i) {\n            const arg = (args[i]:
any);\n\n            if (nextTokenMayBeObject && typeof arg === \"object\" && !Array.isArray(arg)) {\n
nextTokenMayBeObject = false;\n\n                let scale = null;\n                if (arg['font-scale']) {\n                    scale =
context.parse(arg['font-scale'], 1, NumberType);\n                    if (!scale) return null;\n                }\n\n                let
font = null;\n                if (arg['text-font']) {\n                    font = context.parse(arg['text-font'], 1,
array(StringType));\n                    if (!font) return null;\n                }\n\n                let textColor = null;\n                if
(arg['text-color']) {\n                    textColor = context.parse(arg['text-color'], 1, ColorType);\n                    if
(!textColor) return null;\n                }\n\n                const lastExpression = sections[sections.length - 1];\n
lastExpression.scale = scale;\n                lastExpression.font = font;\n                lastExpression.textColor =
textColor;\n            } else {\n                const content = context.parse(args[i], 1, ValueType);\n                if (!content)
return null;\n\n                const kind = content.type.kind;\n                if (kind !== 'string' && kind !== 'value' &&
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kind !== 'null' && kind !== 'resolvedImage')\n return context.error(`Formatted text type must be 'string', 'value', 'image' or 'null'.`);\n\n nextTokenMayBeObject = true;\n sections.push({content, scale: null, font: null, textColor: null});\n }\n }\n\n return new FormatExpression(sections);\n }\n\n evaluate(ctx: EvaluationContext) {\n const evaluateSection = section => {\n const evaluatedContent = section.content.evaluate(ctx);\n if (typeOf(evaluatedContent) === ResolvedImageType) {\n return new FormattedSection('', evaluatedContent, null, null, null);\n }\n\n return new FormattedSection(\n toString(evaluatedContent),\n null,\n section.scale ? section.scale.evaluate(ctx) : null,\n section.font ? section.font.evaluate(ctx).join(',') : null,\n section.textColor ? section.textColor.evaluate(ctx) : null\n);\n };\n\n return new Formatted(this.sections.map(evaluateSection));\n }\n\n eachChild(fn: (_: Expression) => void) {\n for (const section of this.sections) {\n fn(section.content);\n if (section.scale) {\n fn(section.scale);\n }\n if (section.font) {\n fn(section.font);\n }\n if (section.textColor) {\n fn(section.textColor);\n }\n }\n }\n\n outputDefined() {\n // Technically the combinatoric set of all children\n // Usually, this.text will be undefined anyway\n return false;\n }\n\n serialize() {\n const serialized = [\"format\"];\n for (const section of this.sections) {\n serialized.push(section.content.serialize());\n const options = {};\n if (section.scale) {\n options['font-scale'] = section.scale.serialize();\n }\n if (section.font) {\n options['text-font'] = section.font.serialize();\n }\n if (section.textColor) {\n options['text-color'] = section.textColor.serialize();\n }\n serialized.push(options);\n }\n return serialized;\n }\n}\n","// @flow\n\nimport {ResolvedImageType, StringType} from '../types';\nimport ResolvedImage from '../types/resolved_image';\n\nimport type {Expression} from '../expression';\nimport type EvaluationContext from '../evaluation_context';\nimport type ParsingContext from '../parsing_context';\nimport type {Type} from '../types';\n\nexport default class ImageExpression implements Expression {\n type: Type;\n input: Expression;\n\n constructor(input: Expression) {\n this.type = ResolvedImageType;\n this.input = input;\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n if (args.length !== 2) {\n return context.error(`Expected two arguments.`);\n }\n\n const name = context.parse(args[1], 1, StringType);\n if (!name) return context.error(`No image name provided.`);\n\n return new ImageExpression(name);\n }\n\n evaluate(ctx: EvaluationContext) {\n const evaluatedImageName = this.input.evaluate(ctx);\n\n const value = ResolvedImage.fromString(evaluatedImageName);\n if (value && ctx.availableImages) value.available = ctx.availableImages.indexOf(evaluatedImageName) > -1;\n\n return value;\n }\n\n eachChild(fn: (_: Expression) => void) {\n fn(this.input);\n }\n\n outputDefined() {\n // The output of image is determined by the list of available images in the evaluation context\n return false;\n }\n\n serialize() {\n return [\"image\", this.input.serialize()];\n }\n}\n","// @flow\n\nimport assert from 'assert';\n\nimport {BooleanType, ColorType, NumberType, StringType, ValueType} from '../types';\nimport {Color, toString as valueToString, validateRGBA} from '../values';\nimport RuntimeError from '../runtime_error';\nimport Formatted from '../types/formatted';\nimport FormatExpression from '../definitions/format';\nimport ImageExpression from '../definitions/image';\nimport ResolvedImage from '../types/resolved_image';\n\nimport type {Expression} from '../expression';\nimport type ParsingContext from '../parsing_context';\nimport type EvaluationContext from '../evaluation_context';\nimport type {Type} from '../types';\n\nconst types = {\n 'to-boolean': BooleanType,\n 'to-color': ColorType,\n 'to-number': NumberType,\n 'to-string': StringType\n};\n\n/**\n * Special form for error-coalescing coercion expressions \"to-number\",\n * \"to-color\". Since these coercions can fail at runtime, they accept multiple\n * arguments, only evaluating one at a time until one succeeds.\n *\n * @private\n */\nclass Coercion implements Expression {\n type: Type;\n args: Array<Expression>;\n\n constructor(type: Type, args: Array<Expression>) {\n this.type = type;\n this.args = args;\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n if (args.length < 2)\n return context.error(`Expected at least one argument.`);\n\n const name: string = (args[0]: any);\n assert(types[name], name);\n\n if ((name === 'to-boolean' || name === 'to-string') && args.length !== 2)\n return context.error(`Expected one argument.`);\n\n const type = types[name];\n\n const parsed = [];\n for (let i = 1; i < args.length; i++) {\n const input = context.parse(args[i], i, ValueType);\n if (!input) return null;\n parsed.push(input);\n }\n\n return new Coercion(type, parsed);\n }\n\n evaluate(ctx: EvaluationContext) {\n if (this.type.kind === 'boolean') {\n return Boolean(this.args[0].evaluate(ctx));\n } else if (this.type.kind === 'color') {\n let input;\n let error;\n for (const arg of this.args) {\n input = arg.evaluate(ctx);\n error = null;\n if (input instanceof Color) {\n return input;\n } else if (typeof input === 'string') {\n const c = ctx.parseColor(input);\n if (c) return c;\n } else if (Array.isArray(input)) {\n if (input.length < 3 || input.length > 4) {\n error = `Invalid rbga value ${JSON.stringify(input)}: expected an array containing either three or four numeric values.`;\n } else {\n error = validateRGBA(input[0], input[1], input[2], input[3]);\n }\n if (!error) {\n return new Color((input[0]: any) / 255, (input[1]: any) / 255, (input[2]: any) / 255, (input[3]: any));\n }\n }\n }\n throw new RuntimeError(error || `Could not parse color from value '${typeof input === 'string' ? input : String(JSON.stringify(input))}'`);\n } else if (this.type.kind === 'number') {\n let value = null;\n for (const arg of this.args) {\n value = arg.evaluate(ctx);\n if (value === null) return 0;\n const num = Number(value);\n if (isNaN(num)) continue;\n return num;\n }\n throw new RuntimeError(`Could not convert ${JSON.stringify(value)} to number.`);\n } else if (this.type.kind === 'formatted') {\n // There is no explicit 'to-formatted' but this coercion can be implicitly\n // created by properties that expect the 'formatted' type.\n return Formatted.fromString(valueToString(this.args[0].evaluate(ctx)));\n } else if (this.type.kind === 'resolvedImage') {\n return ResolvedImage.fromString(valueToString(this.args[0].evaluate(ctx)));\n } else {\n return valueToString(this.args[0].evaluate(ctx));\n }\n }\n\n eachChild(fn: (_: Expression) => void) {\n this.args.forEach(fn);\n }\n\n outputDefined(): boolean {\n return this.args.every(arg => arg.outputDefined());\n }\n\n serialize() {\n if (this.type.kind === 'formatted') {\n return new FormatExpression([{content: this.args[0], scale: null, font: null, textColor: null}]).serialize();\n }\n\n if (this.type.kind === 'resolvedImage') {\n return new ImageExpression(this.args[0]).serialize();\n }\n\n const serialized = [`to-${this.type.kind}`];\n this.eachChild(child => { serialized.push(child.serialize()); });\n return serialized;\n }\n}\n\nexport default Coercion;\n","// @flow\n\nimport {Color} from './values';\nimport type {FormattedSection} from './types/formatted';\nimport type {GlobalProperties, Feature, FeatureState} from './index';\nimport type {CanonicalTileID} from '../../source/tile_id';\n\nconst geometryTypes = ['Unknown', 'Point', 'LineString', 'Polygon'];\n\nclass EvaluationContext {\n globals: GlobalProperties;\n feature: ?Feature;\n featureState: ?FeatureState;\n formattedSection: ?FormattedSection;\n availableImages: ?Array<string>;\n canonical: ?CanonicalTileID;\n\n _parseColorCache: {[_: string]: ?Color};\n\n constructor() {\n this.globals = (null: any);\n this.feature = null;\n this.featureState = null;\n this.formattedSection = null;\n this._parseColorCache = {};\n this.availableImages = null;\n this.canonical = null;\n }\n\n id() {\n return this.feature && 'id' in this.feature ? this.feature.id : null;\n }\n\n geometryType() {\n return this.feature ? typeof this.feature.type === 'number' ? geometryTypes[this.feature.type] : this.feature.type : null;\n }\n\n geometry() {\n return this.feature && 'geometry' in this.feature ? this.feature.geometry : null;\n }\n\n canonicalID() {\n return this.canonical;\n }\n\n properties() {\n return this.feature && this.feature.properties || {};\n }\n\n parseColor(input: string): ?Color {\n let cached = this._parseColorCache[input];\n if (!cached) {\n cached = this._parseColorCache[input] = Color.parse(input);\n }\n return cached;\n }\n}\n\nexport default EvaluationContext;\n","// @flow\n\nimport {toString} from './types';\n\nimport ParsingContext from './parsing_context';\nimport EvaluationContext from './evaluation_context';\nimport assert from 'assert';\n\nimport type {Expression, ExpressionRegistry} from './expression';\nimport type {Type} from './types';\nimport type {Value} from './values';\n\nexport type Varargs = {| type: Type |};\ntype Signature = Array<Type> | Varargs;\ntype Evaluate = (EvaluationContext, Array<Expression>) => Value;\ntype Definition = [Type, Signature, Evaluate] |\n {|type: Type, overloads: Array<[Signature, Evaluate]>|};\n\nclass CompoundExpression implements Expression {\n

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name: string;\n    type: Type;\n    _evaluate: Evaluate;\n    args: Array<Expression>;\n\n    static definitions: {[_:
string]: Definition };\n\n    constructor(name: string, type: Type, evaluate: Evaluate, args: Array<Expression>) {\n
  this.name = name;\n        this.type = type;\n        this._evaluate = evaluate;\n        this.args = args;\n    }\n\n
evaluate(ctx: EvaluationContext) {\n        return this._evaluate(ctx, this.args);\n    }\n\n    eachChild(fn: (_:
Expression) => void) {\n        this.args.forEach(fn);\n    }\n\n    outputDefined() {\n        return false;\n    }\n\n
serialize(): Array<mixed> {\n        return [this.name].concat(this.args.map(arg => arg.serialize()));\n    }\n\n    static
parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n        const op: string = (args[0]:
any);\n        const definition = CompoundExpression.definitions[op];\n        if (!definition) {\n            return
context.error(`Unknown expression \"${op}\". If you wanted a literal array, use [\"literal\", [...]].`, 0);\n        }\n\n
 // Now check argument types against each signature\n        const type = Array.isArray(definition) ?\n
definition[0] : definition.type;\n\n        const availableOverloads = Array.isArray(definition) ?\n
[[definition[1], definition[2]]] :\n            definition.overloads;\n\n        const overloads =
availableOverloads.filter(([signature]) => (\n            !Array.isArray(signature) || // varags\n            signature.length
=== args.length - 1 // correct param count\n        ));\n\n        let signatureContext: ParsingContext = (null: any);\n\n
   for (const [params, evaluate] of overloads) {\n            // Use a fresh context for each attempted signature so that,
if\n            // we eventually succeed, we haven't polluted `context.errors`.\n            signatureContext = new
ParsingContext(context.registry, context.path, null, context.scope);\n\n            // First parse all the args, potentially
coercing to the\n            // types expected by this overload.\n            const parsedArgs: Array<Expression> = [];\n
    let argParseFailed = false;\n            for (let i = 1; i < args.length; i++) {\n                const arg = args[i];\n
const expectedType = Array.isArray(params) ?\n                    params[i - 1] :\n                    params.type;\n\n
const parsed = signatureContext.parse(arg, 1 + parsedArgs.length, expectedType);\n                if (!parsed) {\n
      argParseFailed = true;\n                    break;\n                }\n                parsedArgs.push(parsed);\n            }\n
if (argParseFailed) {\n                // Couldn't coerce args of this overload to expected type, move\n                // on to
next one.\n                continue;\n            }\n\n            if (Array.isArray(params)) {\n                if (params.length !==
parsedArgs.length) {\n                    signatureContext.error(`Expected ${params.length} arguments, but found
${parsedArgs.length} instead.`);\n                    continue;\n                }\n            }\n\n            for (let i = 0; i <
parsedArgs.length; i++) {\n                const expected = Array.isArray(params) ? params[i] : params.type;\n
const arg = parsedArgs[i];\n                signatureContext.concat(i + 1).checkSubtype(expected, arg.type);\n
}\n\n            if (signatureContext.errors.length === 0) {\n                return new CompoundExpression(op, type,
evaluate, parsedArgs);\n            }\n        }\n\n        assert(!signatureContext || signatureContext.errors.length > 0);\n\n
      if (overloads.length === 1) {\n            context.errors.push(...signatureContext.errors);\n        } else {\n
const expected = overloads.length ? overloads : availableOverloads;\n            const signatures = expected\n
.map(([params]) => stringifySignature(params))\n                .join(' | ');\n\n            const actualTypes = [];\n            //
For error message, re-parse arguments without trying to\n            // apply any coercions\n            for (let i = 1; i <
args.length; i++) {\n                const parsed = context.parse(args[i], 1 + actualTypes.length);\n                if (!parsed)
return null;\n                actualTypes.push(toString(parsed.type));\n            }\n            context.error(`Expected
arguments of type ${signatures}, but found (${actualTypes.join(', ')}) instead.`);\n        }\n\n        return null;\n
}\n\n    static register(\n        registry: ExpressionRegistry,\n        definitions: {[_: string]: Definition }\n    ) {\n
assert(!CompoundExpression.definitions);\n        CompoundExpression.definitions = definitions;\n        for (const
name in definitions) {\n            registry[name] = CompoundExpression;\n        }\n    }\n}\n\nfunction
stringifySignature(signature: Signature): string {\n    if (Array.isArray(signature)) {\n        return
`(${signature.map(toString).join(', ')})`;\n    } else {\n        return `(${toString(signature.type)}...)`;\n
}\n}\n\nexport default CompoundExpression;\n","// @flow\n\nimport {StringType, BooleanType, CollatorType}
from '../types';\nimport Collator from '../types/collator';\n\nimport type {Expression} from '../expression';\nimport
type EvaluationContext from '../evaluation_context';\nimport type ParsingContext from '../parsing_context';\nimport
type {Type} from '../types';\n\nexport default class CollatorExpression implements Expression {\n    type: Type;\n
caseSensitive: Expression;\n    diacriticSensitive: Expression;\n    locale: Expression | null;\n\n
constructor(caseSensitive: Expression, diacriticSensitive: Expression, locale: Expression | null) {\n        this.type =
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CollatorType;\n   this.locale = locale;\n   this.caseSensitive = caseSensitive;\n   this.diacriticSensitive = diacriticSensitive;\n   }\n\n   static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n   if (args.length !== 2)\n   return context.error(`Expected one argument.`);\n\n   const options = (args[1]: any);\n   if (typeof options !== \"object\" || Array.isArray(options))\n   return context.error(`Collator options argument must be an object.`);\n\n   const caseSensitive = context.parse(\n options['case-sensitive'] === undefined ? false : options['case-sensitive'], 1, BooleanType);\n   if (!caseSensitive) return null;\n\n   const diacriticSensitive = context.parse(\n   options['diacritic-sensitive'] === undefined ? false : options['diacritic-sensitive'], 1, BooleanType);\n   if (!diacriticSensitive) return null;\n\n   let locale = null;\n   if (options['locale']) {\n   locale = context.parse(options['locale'], 1, StringType);\n   if (!locale) return null;\n   }\n\n   return new CollatorExpression(caseSensitive, diacriticSensitive, locale);\n }\n\n   evaluate(ctx: EvaluationContext) {\n   return new Collator(this.caseSensitive.evaluate(ctx), this.diacriticSensitive.evaluate(ctx), this.locale ? this.locale.evaluate(ctx) : null);\n   }\n\n   eachChild(fn: (_: Expression) => void) {\n   fn(this.caseSensitive);\n   fn(this.diacriticSensitive);\n   if (this.locale) {\n fn(this.locale);\n   }\n   }\n\n   outputDefined() {\n   // Technically the set of possible outputs is the combinatoric set of Collators produced\n   // by all possible outputs of locale/caseSensitive/diacriticSensitive\n // But for the primary use of Collators in comparison operators, we ignore the Collator's\n   // possible outputs anyway, so we can get away with leaving this false for now.\n   return false;\n   }\n\n   serialize() {\n   const options = {};\n   options['case-sensitive'] = this.caseSensitive.serialize();\n   options['diacritic-sensitive'] = this.diacriticSensitive.serialize();\n   if (this.locale) {\n   options['locale'] = this.locale.serialize();\n   }\n   return [\"collator\", options];\n   }\n}\n","// @flow\n\nimport {isValue} from '../values';\nimport type {Type} from '../types';\nimport {BooleanType} from '../types';\nimport type {Expression} from '../expression';\nimport type ParsingContext from '../parsing_context';\nimport type EvaluationContext from '../evaluation_context';\nimport type {GeoJSON, GeoJSONPolygon, GeoJSONMultiPolygon} from '@mapbox/geojson-types';\nimport Point from '@mapbox/point-geometry';\nimport type {CanonicalTileID} from '../../../source/tile_id';\n\ntype GeoJSONPolygons =| GeoJSONPolygon | GeoJSONMultiPolygon;\n\n// minX, minY, maxX, maxY\ntype BBox = [number, number, number, number];\nconst EXTENT = 8192;\n\nfunction updateBBox(bbox: BBox, coord: Point) {\n   bbox[0] = Math.min(bbox[0], coord[0]);\n   bbox[1] = Math.min(bbox[1], coord[1]);\n   bbox[2] = Math.max(bbox[2], coord[0]);\n   bbox[3] = Math.max(bbox[3], coord[1]);\n}\n\nfunction mercatorXfromLng(lng: number) {\n return (180 + lng) / 360;\n}\n\nfunction mercatorYfromLat(lat: number) {\n   return (180 - (180 / Math.PI * Math.log(Math.tan(Math.PI / 4 + lat * Math.PI / 360)))) / 360;\n}\n\nfunction boxWithinBox(bbox1: BBox, bbox2: BBox) {\n   if (bbox1[0] <= bbox2[0]) return false;\n   if (bbox1[2] >= bbox2[2]) return false;\n   if (bbox1[1] <= bbox2[1]) return false;\n   if (bbox1[3] >= bbox2[3]) return false;\n   return true;\n}\n\nfunction getTileCoordinates(p, canonical: CanonicalTileID) {\n   const x = mercatorXfromLng(p[0]);\n   const y = mercatorYfromLat(p[1]);\n   const tilesAtZoom = Math.pow(2, canonical.z);\n   return [Math.round(x * tilesAtZoom * EXTENT), Math.round(y * tilesAtZoom * EXTENT)];\n}\n\nfunction onBoundary(p, p1, p2) {\n const x1 = p[0] - p1[0];\n   const y1 = p[1] - p1[1];\n   const x2 = p[0] - p2[0];\n   const y2 = p[1] - p2[1];\n return (x1 * y2 - x2 * y1 === 0) && (x1 * x2 <= 0) && (y1 * y2 <= 0);\n}\n\nfunction rayIntersect(p, p1, p2) {\n return ((p1[1] > p[1]) !== (p2[1] > p[1])) && (p[0] < (p2[0] - p1[0]) * (p[1] - p1[1]) / (p2[1] - p1[1]) + p1[0]);\n}\n\n// ray casting algorithm for detecting if point is in polygon\nfunction pointWithinPolygon(point, rings) {\n   let inside = false;\n   for (let i = 0, len = rings.length; i < len; i++) {\n   const ring = rings[i];\n   for (let j = 0, len2 = ring.length; j < len2 - 1; j++) {\n   if (onBoundary(point, ring[j], ring[j + 1])) return false;\n if (rayIntersect(point, ring[j], ring[j + 1])) inside = !inside;\n   }\n   }\n   return inside;\n}\n\nfunction pointWithinPolygons(point, polygons) {\n   for (let i = 0; i < polygons.length; i++) {\n   if (pointWithinPolygon(point, polygons[i])) return true;\n   }\n   return false;\n}\n\nfunction perp(v1, v2) {\n   return (v1[0] * v2[1] - v1[1] * v2[0]);\n}\n\n// check if p1 and p2 are in different sides of line segment q1->q2\nfunction twoSided(p1, p2, q1, q2) {\n   // q1->p1 (x1, y1), q1->p2 (x2, y2), q1->q2 (x3, y3)\n   const x1 = p1[0] - q1[0];\n const y1 = p1[1] - q1[1];\n   const x2 = p2[0] - q1[0];\n   const y2 = p2[1] - q1[1];\n   const x3 = q2[0] - q1[0];\n const y3 = q2[1] - q1[1];\n   const det1 = (x1 * y3 - x3 * y1);\n   const det2 = (x2 * y3 - x3 * y2);\n   if ((det1 > 0

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

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return false;\n\n        for (const point of tilePoints) {\n            if (!pointWithinPolygons(point, tilePolygons)) return
false;\n        }\n    }\n\n    return true;\n}\n\nfunction linesWithinPolygons(ctx: EvaluationContext,
polygonGeometry: GeoJSONPolygons) {\n    const lineBBox = [Infinity, Infinity, -Infinity, -Infinity];\n    const
polyBBox = [Infinity, Infinity, -Infinity, -Infinity];\n\n    const canonical = ctx.canonicalID();\n\n    if
(polygonGeometry.type === 'Polygon') {\n        const tilePolygon = getTilePolygon(polygonGeometry.coordinates,
polyBBox, canonical);\n        const tileLines = getTileLines(ctx.geometry(), lineBBox, polyBBox, canonical);\n
if (!boxWithinBox(lineBBox, polyBBox)) return false;\n\n        for (const line of tileLines) {\n            if
(!lineStringWithinPolygon(line, tilePolygon)) return false;\n        }\n    }\n    if (polygonGeometry.type ===
'MultiPolygon') {\n        const tilePolygons = getTilePolygons(polygonGeometry.coordinates, polyBBox,
canonical);\n        const tileLines = getTileLines(ctx.geometry(), lineBBox, polyBBox, canonical);\n        if
(!boxWithinBox(lineBBox, polyBBox)) return false;\n\n        for (const line of tileLines) {\n            if
(!lineStringWithinPolygons(line, tilePolygons)) return false;\n        }\n    }\n    return true;\n}\n\nclass Within
implements Expression {\n    type: Type;\n    geojson: GeoJSON\n    geometries: GeoJSONPolygons;\n\n
constructor(geojson: GeoJSON, geometries: GeoJSONPolygons) {\n        this.type = BooleanType;\n
this.geojson = geojson;\n        this.geometries = geometries;\n    }\n\n    static parse(args: $ReadOnlyArray<mixed>,
context: ParsingContext) {\n        if (args.length !== 2)\n            return context.error(`'within' expression requires
exactly one argument, but found ${args.length - 1} instead.`);\n        if (isValue(args[1])) {\n            const geojson =
(args[1]: Object);\n            if (geojson.type === 'FeatureCollection') {\n                for (let i = 0; i <
geojson.features.length; ++i) {\n                    const type = geojson.features[i].geometry.type;\n                    if (type
=== 'Polygon' || type === 'MultiPolygon') {\n                        return new Within(geojson,
geojson.features[i].geometry);\n                    }\n                }\n            } else if (geojson.type === 'Feature') {\n
  const type = geojson.geometry.type;\n                if (type === 'Polygon' || type === 'MultiPolygon') {\n
return new Within(geojson, geojson.geometry);\n                }\n            } else if (geojson.type  === 'Polygon' ||
geojson.type === 'MultiPolygon') {\n                return new Within(geojson, geojson);\n            }\n        }\n        return
context.error(`'within' expression requires valid geojson object that contains polygon geometry type.`);\n    }\n\n
evaluate(ctx: EvaluationContext) {\n        if (ctx.geometry() != null && ctx.canonicalID() != null) {\n            if
(ctx.geometryType() === 'Point') {\n                return pointsWithinPolygons(ctx, this.geometries);\n            } else if
(ctx.geometryType() === 'LineString') {\n                return linesWithinPolygons(ctx, this.geometries);\n            }\n
  }\n        return false;\n    }\n\n    eachChild() {}\n\n    outputDefined(): boolean {\n        return true;\n    }\n\n
serialize(): Array<mixed> {\n        return [\"within\", this.geojson];\n    }\n\n}\n\nexport default Within;\n","//
@flow\n\nimport CompoundExpression from './compound_expression';\nimport Within from
'./definitions/within';\nimport type {Expression} from './expression.js';\n\nfunction isFeatureConstant(e: Expression)
{\n    if (e instanceof CompoundExpression) {\n        if (e.name === 'get' && e.args.length === 1) {\n            return
false;\n        } else if (e.name === 'feature-state') {\n            return false;\n        } else if (e.name === 'has' &&
e.args.length === 1) {\n            return false;\n        } else if (\n            e.name === 'properties' ||\n            e.name ===
'geometry-type' ||\n            e.name === 'id'\n        ) {\n            return false;\n        } else if (/^filter-/.test(e.name)) {\n
      return false;\n        }\n    }\n\n    if (e instanceof Within) {\n        return false;\n    }\n\n    let result = true;\n
e.eachChild(arg => {\n        if (result && !isFeatureConstant(arg)) { result = false; }\n    });\n    return
result;\n}\n\nfunction isStateConstant(e: Expression) {\n    if (e instanceof CompoundExpression) {\n        if (e.name
=== 'feature-state') {\n            return false;\n        }\n    }\n    let result = true;\n    e.eachChild(arg => {\n        if
(result && !isStateConstant(arg)) { result = false; }\n    });\n    return result;\n}\n\nfunction
isGlobalPropertyConstant(e: Expression, properties: Array<string>) {\n    if (e instanceof CompoundExpression &&
properties.indexOf(e.name) >= 0) { return false; }\n    let result = true;\n    e.eachChild((arg) => {\n        if (result
&& !isGlobalPropertyConstant(arg, properties)) { result = false; }\n    });\n    return result;\n}\n\nexport
{isFeatureConstant, isGlobalPropertyConstant, isStateConstant};\n","// @flow\n\nimport type {Type} from
'../types';\nimport type {Expression} from '../expression';\nimport type ParsingContext from
'../parsing_context';\nimport type EvaluationContext  from '../evaluation_context';\n\nclass Var implements
Expression {\n    type: Type;\n    name: string;\n    boundExpression: Expression;\n\n    constructor(name: string,
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boundExpression: Expression) {\n   this.type = boundExpression.type;\n   this.name = name;\n   this.boundExpression = boundExpression;\n   }\n\n   static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n   if (args.length !== 2 || typeof args[1] !== 'string')\n   return context.error(`'var' expression requires exactly one string literal argument.`);\n\n   const name = args[1];\n   if (!context.scope.has(name)) {\n   return context.error(`Unknown variable \"${name}\". Make sure \"${name}\" has been bound in an enclosing \"let\" expression before using it.`, 1);\n   }\n\n   return new Var(name, context.scope.get(name));\n   }\n\n   evaluate(ctx: EvaluationContext) {\n   return this.boundExpression.evaluate(ctx);\n   }\n\n   eachChild() {}\n\n   outputDefined() {\n   return false;\n   }\n\n   serialize() {\n   return [\"var\", this.name];\n   }\n}\n\nexport default Var;\n","// @flow\n\nimport Scope from './scope';\nimport {checkSubtype} from './types';\nimport ParsingError from './parsing_error';\nimport Literal from './definitions/literal';\nimport Assertion from './definitions/assertion';\nimport Coercion from './definitions/coercion';\nimport EvaluationContext from './evaluation_context';\nimport CompoundExpression from './compound_expression';\nimport CollatorExpression from './definitions/collator';\nimport Within from './definitions/within';\nimport {isGlobalPropertyConstant, isFeatureConstant} from './is_constant';\nimport Var from './definitions/var';\n\nimport type {Expression, ExpressionRegistry} from './expression';\nimport type {Type} from './types';\n\n/**\n * State associated parsing at a given point in an expression tree.\n * @private\n */\nclass ParsingContext {\n   registry: ExpressionRegistry;\n   path: Array<number>;\n   key: string;\n   scope: Scope;\n   errors: Array<ParsingError>;\n\n   // The expected type of this expression. Provided only to allow Expression\n   // implementations to infer argument types: Expression#parse() need not\n   // check that the output type of the parsed expression matches\n   // `expectedType`.\n   expectedType: ?Type;\n\n   constructor(\n   registry: ExpressionRegistry,\n   path: Array<number> = [],\n   expectedType: ?Type,\n   scope: Scope = new Scope(),\n   errors: Array<ParsingError> = []\n   ) {\n   this.registry = registry;\n   this.path = path;\n   this.key = path.map(part => `[${part}]`).join('');\n   this.scope = scope;\n   this.errors = errors;\n   this.expectedType = expectedType;\n   }\n\n   /**\n   * @param expr the JSON expression to parse\n   * @param index the optional argument index if this expression is an argument of a parent expression that's being parsed\n   * @param options\n   * @param options.omitTypeAnnotations set true to omit inferred type annotations. Caller beware: with this option set, the parsed expression's type will NOT satisfy `expectedType` if it would normally be wrapped in an inferred annotation.\n   * @private\n   */\n   parse(\n   expr: mixed,\n   index?: number,\n   expectedType?: ?Type,\n   bindings?: Array<[string, Expression]>,\n   options: {typeAnnotation?: 'assert' | 'coerce' | 'omit'} = {}\n   ): ?Expression {\n   if (index) {\n   return this.concat(index, expectedType, bindings)._parse(expr, options);\n   }\n   return this._parse(expr, options);\n   }\n\n   _parse(expr: mixed, options: {typeAnnotation?: 'assert' | 'coerce' | 'omit'}): ?Expression {\n   if (expr === null || typeof expr === 'string' || typeof expr === 'boolean' || typeof expr === 'number') {\n   expr = ['literal', expr];\n   }\n\n   function annotate(parsed, type, typeAnnotation: 'assert' | 'coerce' | 'omit') {\n   if (typeAnnotation === 'assert') {\n   return new Assertion(type, [parsed]);\n   } else if (typeAnnotation === 'coerce') {\n   return new Coercion(type, [parsed]);\n   } else {\n   return parsed;\n   }\n   }\n\n   if (Array.isArray(expr)) {\n   if (expr.length === 0) {\n   return this.error(`Expected an array with at least one element. If you wanted a literal array, use [\"literal\", []].`);\n   }\n\n   const op = expr[0];\n   if (typeof op !== 'string') {\n   this.error(`Expression name must be a string, but found ${typeof op} instead. If you wanted a literal array, use [\"literal\", [...]].`, 0);\n   return null;\n   }\n\n   const Expr = this.registry[op];\n   if (Expr) {\n   let parsed = Expr.parse(expr, this);\n   if (!parsed) return null;\n\n   if (this.expectedType) {\n   const expected = this.expectedType;\n   const actual = parsed.type;\n\n   // When we expect a number, string, boolean, or array but have a value, wrap it in an assertion.\n   // When we expect a color or formatted string, but have a string or value, wrap it in a coercion.\n   // Otherwise, we do static type-checking.\n   //\n   // These behaviors are overridable for:\n   //   * The \"coalesce\" operator, which needs to omit type annotations.\n   //   * String-valued properties (e.g. `text-field`), where coercion is more convenient than assertion.\n   //\n   if ((expected.kind === 'string' || expected.kind === 'number' || expected.kind === 'boolean' || expected.kind

=== 'object' || expected.kind === 'array') && actual.kind === 'value') {\n parsed = annotate(parsed, expected, options.typeAnnotation || 'assert');\n } else if ((expected.kind === 'color' || expected.kind === 'formatted' || expected.kind === 'resolvedImage') && (actual.kind === 'value' || actual.kind === 'string')) {\n parsed = annotate(parsed, expected, options.typeAnnotation || 'coerce');\n } else if (this.checkSubtype(expected, actual)) {\n return null;\n }\n }\n\n // If an expression's arguments are all literals, we can evaluate\n // it immediately and replace it with a literal value in the\n // parsed/compiled result. Expressions that expect an image should\n // not be resolved here so we can later get the available images.\n if (!(parsed instanceof Literal) && (parsed.type.kind !== 'resolvedImage') && isConstant(parsed)) {\n const ec = new EvaluationContext();\n try {\n parsed = new Literal(parsed.type, parsed.evaluate(ec));\n } catch (e) {\n this.error(e.message);\n return null;\n }\n }\n\n return parsed;\n }\n\n return this.error(`Unknown expression \"${op}\". If you wanted a literal array, use [\"literal\", [...]].`, 0);\n } else if (typeof expr === 'undefined') {\n return this.error(`'undefined' value invalid. Use null instead.`);\n } else if (typeof expr === 'object') {\n return this.error(`Bare objects invalid. Use [\"literal\", {...}] instead.`);\n } else {\n return this.error(`Expected an array, but found ${typeof expr} instead.`);\n }\n }\n\n /**\n * Returns a copy of this context suitable for parsing the subexpression at\n * index `index`, optionally appending to 'let' binding map.\n *\n * Note that `errors` property, intended for collecting errors while\n * parsing, is copied by reference rather than cloned.\n * @private\n */\n concat(index: number, expectedType?: ?Type, bindings?: Array<[string, Expression]>) {\n const path = typeof index === 'number' ? this.path.concat(index) : this.path;\n const scope = bindings ? this.scope.concat(bindings) : this.scope;\n return new ParsingContext(\n this.registry,\n path,\n expectedType || null,\n scope,\n this.errors\n);\n }\n\n /**\n * Push a parsing (or type checking) error into the `this.errors`\n * @param error The message\n * @param keys Optionally specify the source of the error at a child\n * of the current expression at `this.key`.\n * @private\n */\n error(error: string, ...keys: Array<number>) {\n const key = `${this.key}${keys.map(k => `[${k}]`).join('')}`;\n this.errors.push(new ParsingError(key, error));\n }\n\n /**\n * Returns null if `t` is a subtype of `expected`; otherwise returns an\n * error message and also pushes it to `this.errors`.\n */\n checkSubtype(expected: Type, t: Type): ?string {\n const error = checkSubtype(expected, t);\n if (error) this.error(error);\n return error;\n }\n}\n\nexport default ParsingContext;\n\nfunction isConstant(expression: Expression) {\n if (expression instanceof Var) {\n return isConstant(expression.boundExpression);\n } else if (expression instanceof CompoundExpression && expression.name === 'error') {\n return false;\n } else if (expression instanceof CollatorExpression) {\n // Although the results of a Collator expression with fixed arguments\n // generally shouldn't change between executions, we can't serialize them\n // as constant expressions because results change based on environment.\n return false;\n } else if (expression instanceof Within) {\n return false;\n }\n\n const isTypeAnnotation = expression instanceof Coercion ||\n expression instanceof Assertion;\n\n let childrenConstant = true;\n expression.eachChild(child => {\n // We can _almost_ assume that if `expressions` children are constant,\n // they would already have been evaluated to Literal values when they\n // were parsed. Type annotations are the exception, because they might\n // have been inferred and added after a child was parsed.\n\n // So we recurse into isConstant() for the children of type annotations,\n // but otherwise simply check whether they are Literals.\n if (isTypeAnnotation) {\n childrenConstant = childrenConstant && isConstant(child);\n } else {\n childrenConstant = childrenConstant && child instanceof Literal;\n }\n });\n if (!childrenConstant) {\n return false;\n }\n\n return isFeatureConstant(expression) &&\n isGlobalPropertyConstant(expression, ['zoom', 'heatmap-density', 'line-progress', 'accumulated', 'is-supported-script']);\n}\n","// @flow\n\nimport RuntimeError from './runtime_error';\n\nimport type {Expression} from './expression';\n\nexport type Stops = Array<[number, Expression]>;\n\n/**\n * Returns the index of the last stop <= input, or 0 if it doesn't exist.\n * @private\n */\nexport function findStopLessThanOrEqualTo(stops: Array<number>, input: number) {\n const lastIndex = stops.length - 1;\n let lowerIndex = 0;\n let upperIndex = lastIndex;\n let currentIndex = 0;\n let currentValue, nextValue;\n\n while (lowerIndex <= upperIndex) {\n currentIndex = Math.floor((lowerIndex + upperIndex) / 2);\n   currentValue = stops[currentIndex];\n   nextValue = stops[currentIndex + 1];\n\n   if (currentValue <= input) {\n   if (currentIndex === lastIndex || input < nextValue) { // Search complete\n   return currentIndex;\n   }\n\n   lowerIndex = currentIndex + 1;\n   } else if (currentValue > input) {\n   upperIndex = currentIndex - 1;\n   } else {\n   throw new RuntimeError('Input is not a number.');\n   }\n   }\n\n   return 0;\n}\n","// @flow\n\nimport {NumberType} from '../types';\n\nimport {findStopLessThanOrEqualTo} from '../stops';\n\nimport type {Stops} from '../stops';\nimport type {Expression} from '../expression';\nimport type ParsingContext from '../parsing_context';\nimport type EvaluationContext from '../evaluation_context';\nimport type {Type} from '../types';\n\nclass Step implements Expression {\n   type: Type;\n\n   input: Expression;\n   labels: Array<number>;\n   outputs: Array<Expression>;\n\n   constructor(type: Type, input: Expression, stops: Stops) {\n   this.type = type;\n   this.input = input;\n\n   this.labels = [];\n   this.outputs = [];\n   for (const [label, expression] of stops) {\n   this.labels.push(label);\n   this.outputs.push(expression);\n   }\n   }\n\n   static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n   if (args.length - 1 < 4) {\n   return context.error(`Expected at least 4 arguments, but found only ${args.length - 1}.`);\n   }\n\n   if ((args.length - 1) % 2 !== 0) {\n   return context.error(`Expected an even number of arguments.`);\n   }\n\n   const input = context.parse(args[1], 1, NumberType);\n   if (!input) return null;\n\n   const stops: Stops = [];\n\n   let outputType: Type = (null: any);\n   if (context.expectedType && context.expectedType.kind !== 'value') {\n   outputType = context.expectedType;\n   }\n\n   for (let i = 1; i < args.length; i += 2) {\n   const label = i === 1 ? -Infinity : args[i];\n   const value = args[i + 1];\n\n   const labelKey = i;\n   const valueKey = i + 1;\n\n   if (typeof label !== 'number') {\n   return context.error('Input/output pairs for \"step\" expressions must be defined using literal numeric values (not computed expressions) for the input values.', labelKey);\n   }\n\n   if (stops.length && stops[stops.length - 1][0] >= label) {\n   return context.error('Input/output pairs for \"step\" expressions must be arranged with input values in strictly ascending order.', labelKey);\n   }\n\n   const parsed = context.parse(value, valueKey, outputType);\n   if (!parsed) return null;\n   outputType = outputType || parsed.type;\n   stops.push([label, parsed]);\n   }\n\n   return new Step(outputType, input, stops);\n   }\n\n   evaluate(ctx: EvaluationContext) {\n   const labels = this.labels;\n   const outputs = this.outputs;\n\n   if (labels.length === 1) {\n   return outputs[0].evaluate(ctx);\n   }\n\n   const value = ((this.input.evaluate(ctx): any): number);\n   if (value <= labels[0]) {\n   return outputs[0].evaluate(ctx);\n   }\n\n   const stopCount = labels.length;\n   if (value >= labels[stopCount - 1]) {\n   return outputs[stopCount - 1].evaluate(ctx);\n   }\n\n   const index = findStopLessThanOrEqualTo(labels, value);\n   return outputs[index].evaluate(ctx);\n   }\n\n   eachChild(fn: (_: Expression) => void) {\n   fn(this.input);\n   for (const expression of this.outputs) {\n   fn(expression);\n   }\n   }\n\n   outputDefined(): boolean {\n   return this.outputs.every(out => out.outputDefined());\n   }\n\n   serialize() {\n   const serialized = [\"step\", this.input.serialize()];\n   for (let i = 0; i < this.labels.length; i++) {\n   if (i > 0) {\n   serialized.push(this.labels[i]);\n   }\n   serialized.push(this.outputs[i].serialize());\n   }\n   return serialized;\n   }\n}\n\nexport default Step;\n","/*\n * Copyright (C) 2008 Apple Inc. All Rights Reserved.\n *\n * Redistribution and use in source and binary forms, with or without\n * modification, are permitted provided that the following conditions\n * are met:\n * 1. Redistributions of source code must retain the above copyright\n *   notice, this list of conditions and the following disclaimer.\n * 2. Redistributions in binary form must reproduce the above copyright\n *   notice, this list of conditions and the following disclaimer in the\n *   documentation and/or other materials provided with the distribution.\n *\n * THIS SOFTWARE IS PROVIDED BY APPLE INC. ``AS IS'' AND ANY\n * EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE\n * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR\n * PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL APPLE INC. OR\n * CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,\n * EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,\n * PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR\n * PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY\n * OF LIABILITY, WHETHER

IN CONTRACT, STRICT LIABILITY, OR TORT\n * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE\n * OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.\n *\n * Ported from Webkit\n * http://svn.webkit.org/repository/webkit/trunk/Source/WebCore/platform/graphics/UnitBezier.h\n */\n\nmodule.exports = UnitBezier;\n\nfunction UnitBezier(p1x, p1y, p2x, p2y) {\n   // Calculate the polynomial coefficients, implicit first and last control points are (0,0) and (1,1).\n   this.cx = 3.0 * p1x;\n   this.bx = 3.0 * (p2x - p1x) - this.cx;\n   this.ax = 1.0 - this.cx - this.bx;\n\n   this.cy = 3.0 * p1y;\n   this.by = 3.0 * (p2y - p1y) - this.cy;\n   this.ay = 1.0 - this.cy - this.by;\n\n   this.p1x = p1x;\n   this.p1y = p2y;\n   this.p2x = p2x;\n   this.p2y = p2y;\n}\n\nUnitBezier.prototype.sampleCurveX = function(t) {\n   // `ax t^3 + bx t^2 + cx t' expanded using Horner's rule.\n   return ((this.ax * t + this.bx) * t + this.cx) * t;\n};\n\nUnitBezier.prototype.sampleCurveY = function(t) {\n   return ((this.ay * t + this.by) * t + this.cy) * t;\n};\n\nUnitBezier.prototype.sampleCurveDerivativeX = function(t) {\n   return (3.0 * this.ax * t + 2.0 * this.bx) * t + this.cx;\n};\n\nUnitBezier.prototype.solveCurveX = function(x, epsilon) {\n   if (typeof epsilon === 'undefined') epsilon = 1e-6;\n\n   var t0, t1, t2, x2, i;\n\n   // First try a few iterations of Newton's method -- normally very fast.\n   for (t2 = x, i = 0; i < 8; i++) {\n\n   x2 = this.sampleCurveX(t2) - x;\n   if (Math.abs(x2) < epsilon) return t2;\n\n   var d2 = this.sampleCurveDerivativeX(t2);\n   if (Math.abs(d2) < 1e-6) break;\n\n   t2 = t2 - x2 / d2;\n   }\n\n   // Fall back to the bisection method for reliability.\n   t0 = 0.0;\n   t1 = 1.0;\n   t2 = x;\n\n   if (t2 < t0) return t0;\n   if (t2 > t1) return t1;\n\n   while (t0 < t1) {\n\n   x2 = this.sampleCurveX(t2);\n   if (Math.abs(x2 - x) < epsilon) return t2;\n\n   if (x > x2) {\n   t0 = t2;\n   } else {\n   t1 = t2;\n   }\n\n   t2 = (t1 - t0) * 0.5 + t0;\n   }\n\n   // Failure.\n   return t2;\n};\n\nUnitBezier.prototype.solve = function(x, epsilon) {\n   return this.sampleCurveY(this.solveCurveX(x, epsilon));\n};\n","// @flow\n\nimport Color from './color';\n\nexport function number(a: number, b: number, t: number) {\n   return (a * (1 - t)) + (b * t);\n}\n\nexport function color(from: Color, to: Color, t: number) {\n   return new Color(\n   number(from.r, to.r, t),\n   number(from.g, to.g, t),\n   number(from.b, to.b, t),\n   number(from.a, to.a, t)\n   );\n}\n\nexport function array(from: Array<number>, to: Array<number>, t: number): Array<number> {\n   return from.map((d, i) => {\n   return number(d, to[i], t);\n   });\n}\n","// @flow\n\nimport Color from './color';\n\nimport {number as interpolateNumber} from './interpolate';\n\ntype LABColor = {\n   l: number,\n   a: number,\n   b: number,\n   alpha: number\n};\n\ntype HCLColor = {\n   h: number,\n   c: number,\n   l: number,\n   alpha: number\n};\n\n// Constants\nconst Xn = 0.950470, // D65 standard referent\n   Yn = 1,\n   Zn = 1.088830,\n   t0 = 4 / 29,\n   t1 = 6 / 29,\n   t2 = 3 * t1 * t1,\n   t3 = t1 * t1 * t1,\n   deg2rad = Math.PI / 180,\n   rad2deg = 180 / Math.PI;\n\n// Utilities\nfunction xyz2lab(t: number) {\n   return t > t3 ? Math.pow(t, 1 / 3) : t / t2 + t0;\n}\n\nfunction lab2xyz(t: number) {\n   return t > t1 ? t * t * t : t2 * (t - t0);\n}\n\nfunction xyz2rgb(x: number) {\n   return 255 * (x <= 0.0031308 ? 12.92 * x : 1.055 * Math.pow(x, 1 / 2.4) - 0.055);\n}\n\nfunction rgb2xyz(x: number) {\n   x /= 255;\n   return x <= 0.04045 ? x / 12.92 : Math.pow((x + 0.055) / 1.055, 2.4);\n}\n\n// LAB\nfunction rgbToLab(rgbColor: Color): LABColor {\n   const b = rgb2xyz(rgbColor.r),\n   a = rgb2xyz(rgbColor.g),\n   l = rgb2xyz(rgbColor.b),\n   x = xyz2lab((0.4124564 * b + 0.3575761 * a + 0.1804375 * l) / Xn),\n   y = xyz2lab((0.2126729 * b + 0.7151522 * a + 0.0721750 * l) / Yn),\n   z = xyz2lab((0.0193339 * b + 0.1191920 * a + 0.9503041 * l) / Zn);\n\n   return {\n   l: 116 * y - 16,\n   a: 500 * (x - y),\n   b: 200 * (y - z),\n   alpha: rgbColor.a\n   };\n}\n\nfunction labToRgb(labColor: LABColor): Color {\n   let y = (labColor.l + 16) / 116,\n   x = isNaN(labColor.a) ? y : y + labColor.a / 500,\n   z = isNaN(labColor.b) ? y : y - labColor.b / 200;\n   y = Yn * lab2xyz(y);\n   x = Xn * lab2xyz(x);\n   z = Zn * lab2xyz(z);\n   return new Color(\n   xyz2rgb(3.2404542 * x - 1.5371385 * y - 0.4985314 * z), // D65 -> sRGB\n   xyz2rgb(-0.9692660 * x + 1.8760108 * y + 0.0415560 * z),\n   xyz2rgb(0.0556434 * x - 0.2040259 * y + 1.0572252 * z),\n   labColor.alpha\n   );\n}\n\nfunction interpolateLab(from: LABColor, to: LABColor, t: number) {\n   return {\n   l: interpolateNumber(from.l, to.l, t),\n   a: interpolateNumber(from.a, to.a, t),\n   b: interpolateNumber(from.b, to.b, t),\n   alpha: interpolateNumber(from.alpha, to.alpha, t)\n   };\n}\n\n// HCL\nfunction rgbToHcl(rgbColor: Color): HCLColor {\n   const {l, a, b} = rgbToLab(rgbColor);\n   const h = Math.atan2(b, a) * rad2deg;\n   return {\n   h: h < 0 ? h + 360 : h,\n   c: Math.sqrt(a * a + b * b),\n   l,\n   alpha: rgbColor.a\n   };\n}\n\nfunction hclToRgb(hclColor: HCLColor): Color {\n   const h = hclColor.h * deg2rad,\n   c = hclColor.c,\n   l = hclColor.l;\n   return labToRgb({\n   l,\n   a: Math.cos(h) * c,\n   b: Math.sin(h) * c,\n   alpha: hclColor.alpha\n   });\n}\n\nfunction interpolateHue(a: number, b: number, t: number) {\n   const d = b - a;\n   return a + t * (d > 180 || d < -180 ? d - 360 * Math.round(d / 360) : d);\n}\n\nfunction interpolateHcl(from: HCLColor, to: HCLColor, t: number) {\n   return {\n   h: interpolateHue(from.h, to.h, t),\n   c: interpolateNumber(from.c, to.c, t),\n   l: interpolateNumber(from.l, to.l, t),\n   alpha: interpolateNumber(from.alpha, to.alpha, t)\n   };\n}\n\nexport const lab = {\n   forward: rgbToLab,\n   reverse: labToRgb,\n   interpolate: interpolateLab\n};\n\nexport const hcl = {\n   forward: rgbToHcl,\n   reverse: hclToRgb,\n   interpolate: interpolateHcl\n};\n","// @flow\n\nimport UnitBezier from '@mapbox/unitbezier';\n\nimport * as interpolate from '../../util/interpolate';\nimport {toString, NumberType, ColorType} from '../types';\nimport {findStopLessThanOrEqualTo} from '../stops';\nimport {hcl, lab} from '../../util/color_spaces';\n\nimport type {Stops} from '../stops';\nimport type {Expression} from '../expression';\nimport type ParsingContext from '../parsing_context';\nimport type EvaluationContext from '../evaluation_context';\nimport type {Type} from '../types';\n\nexport type InterpolationType =\n   { name: 'linear' } |\n   { name: 'exponential', base: number } |\n   { name: 'cubic-bezier', controlPoints: [number, number, number, number] };\n\nclass Interpolate implements Expression {\n   type: Type;\n\n   operator: 'interpolate' | 'interpolate-hcl' | 'interpolate-lab';\n   interpolation: InterpolationType;\n   input: Expression;\n   labels: Array<number>;\n   outputs: Array<Expression>;\n\n   constructor(type: Type, operator: 'interpolate' | 'interpolate-hcl' | 'interpolate-lab', interpolation: InterpolationType, input: Expression, stops: Stops) {\n   this.type = type;\n   this.operator = operator;\n   this.interpolation = interpolation;\n   this.input = input;\n\n   this.labels = [];\n   this.outputs = [];\n   for (const [label, expression] of stops) {\n   this.labels.push(label);\n   this.outputs.push(expression);\n   }\n   }\n\n   static interpolationFactor(interpolation: InterpolationType, input: number, lower: number, upper: number) {\n   let t = 0;\n   if (interpolation.name === 'exponential') {\n   t = exponentialInterpolation(input, interpolation.base, lower, upper);\n   } else if (interpolation.name === 'linear') {\n   t = exponentialInterpolation(input, 1, lower, upper);\n   } else if (interpolation.name === 'cubic-bezier') {\n   const c = interpolation.controlPoints;\n   const ub = new UnitBezier(c[0], c[1], c[2], c[3]);\n   t = ub.solve(exponentialInterpolation(input, 1, lower, upper));\n   }\n   return t;\n   }\n\n   static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n   let [operator, interpolation, input, ...rest] = args;\n\n   if (!Array.isArray(interpolation) || interpolation.length === 0) {\n   return context.error(`Expected an interpolation type expression.`, 1);\n   }\n\n   if (interpolation[0] === 'linear') {\n   interpolation = {name: 'linear'};\n   } else if (interpolation[0] === 'exponential') {\n   const base = interpolation[1];\n   if (typeof base !== 'number')\n   return context.error(`Exponential interpolation requires a numeric base.`, 1, 1);\n   interpolation = {\n   name: 'exponential',\n   base\n   };\n   } else if (interpolation[0] === 'cubic-bezier') {\n   const controlPoints = interpolation.slice(1);\n   if (\n   controlPoints.length !== 4 ||\n   controlPoints.some(t => typeof t !== 'number' || t < 0 || t > 1)\n   ) {\n   return context.error('Cubic bezier interpolation requires four numeric arguments with values between 0 and 1.', 1);\n   }\n\n   interpolation = {\n   name: 'cubic-bezier',\n   controlPoints: (controlPoints: any)\n   };\n   } else {\n   return context.error(`Unknown interpolation type ${String(interpolation[0])}`, 1, 0);\n   }\n\n   if (args.length - 1 < 4) {\n   return context.error(`Expected at least 4 arguments, but found only ${args.length - 1}.`);\n   }\n\n   if ((args.length - 1) % 2 !== 0) {\n   return context.error(`Expected an even number of arguments.`);\n   }\n\n   input = context.parse(input, 2, NumberType);\n   if (!input) return null;\n\n   const stops: Stops = [];\n\n   let outputType: Type = (null: any);\n   if (operator === 'interpolate-hcl' || operator === 'interpolate-lab') {\n   outputType = ColorType;\n   } else if (context.expectedType && context.expectedType.kind !== 'value') {\n   outputType = context.expectedType;\n   }\n\n   for (let i = 0; i < rest.length; i += 2) {\n   const label = rest[i];\n   const value = rest[i + 1];\n\n   const labelKey = i + 3;\n   const valueKey = i + 4;\n\n   if (typeof label !== 'number') {\n   return context.error('Input/output pairs for \"interpolate\" expressions must be defined using literal numeric values (not computed expressions) for the input values.', labelKey);\n

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

Type;\n   args: Array<Expression>;\n\n   constructor(type: Type, args: Array<Expression>) {\n   this.type = type;\n   this.args = args;\n   }\n\n   static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n   if (args.length < 2) {\n   return context.error(\"Expectected at least one argument.\");\n   }\n   let outputType: Type = (null: any);\n   const expectedType = context.expectedType;\n   if (expectedType && expectedType.kind !== 'value') {\n   outputType = expectedType;\n   }\n   const parsedArgs = [];\n\n   for (const arg of args.slice(1)) {\n   const parsed = context.parse(arg, 1 + parsedArgs.length, outputType, undefined, {typeAnnotation: 'omit'});\n   if (!parsed) return null;\n   outputType = outputType || parsed.type;\n   parsedArgs.push(parsed);\n   }\n   assert(outputType);\n\n   // Above, we parse arguments without inferred type annotation so that\n   // they don't produce a runtime error for `null` input, which would\n   // preempt the desired null-coalescing behavior.\n   // Thus, if any of our arguments would have needed an annotation, we\n   // need to wrap the enclosing coalesce expression with it instead.\n   const needsAnnotation = expectedType &&\n   parsedArgs.some(arg => checkSubtype(expectedType, arg.type));\n\n   return needsAnnotation ?\n   new Coalesce(ValueType, parsedArgs) :\n   new Coalesce((outputType: any), parsedArgs);\n   }\n\n   evaluate(ctx: EvaluationContext) {\n   let result = null;\n   let argCount = 0;\n   let requestedImageName;\n   for (const arg of this.args) {\n   argCount++;\n   result = arg.evaluate(ctx);\n   // we need to keep track of the first requested image in a coalesce statement\n   // if coalesce can't find a valid image, we return the first image name so styleimagemissing can fire\n   if (result && result instanceof ResolvedImage && !result.available) {\n   if (!requestedImageName) {\n   requestedImageName = result.name;\n   }\n   result = null;\n   if (argCount === this.args.length) {\n   result = requestedImageName;\n   }\n   }\n\n   if (result !== null) break;\n   }\n   return result;\n   }\n\n   eachChild(fn: (_: Expression) => void) {\n   this.args.forEach(fn);\n   }\n\n   outputDefined(): boolean {\n   return this.args.every(arg => arg.outputDefined());\n   }\n\n   serialize() {\n   const serialized = [\"coalesce\"];\n   this.eachChild(child => { serialized.push(child.serialize()); });\n   return serialized;\n   }\n}\n\nexport default Coalesce;\n","// @flow\n\nimport type {Type} from '../types';\nimport type {Expression} from '../expression';\nimport type ParsingContext from '../parsing_context';\nimport type EvaluationContext from '../evaluation_context';\n\nclass Let implements Expression {\n   type: Type;\n   bindings: Array<[string, Expression]>;\n   result: Expression;\n\n   constructor(bindings: Array<[string, Expression]>, result: Expression) {\n   this.type = result.type;\n   this.bindings = [].concat(bindings);\n   this.result = result;\n   }\n\n   evaluate(ctx: EvaluationContext) {\n   return this.result.evaluate(ctx);\n   }\n\n   eachChild(fn: (_: Expression) => void) {\n   for (const binding of this.bindings) {\n   fn(binding[1]);\n   }\n   fn(this.result);\n   }\n\n   static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n   if (args.length < 4)\n   return context.error(`Expected at least 3 arguments, but found ${args.length - 1} instead.`);\n\n   const bindings: Array<[string, Expression]> = [];\n   for (let i = 1; i < args.length - 1; i += 2) {\n   const name = args[i];\n\n   if (typeof name !== 'string') {\n   return context.error(`Expected string, but found ${typeof name} instead.`, i);\n   }\n\n   if (/[^a-zA-Z0-9_]/.test(name)) {\n   return context.error(`Variable names must contain only alphanumeric characters or '_'.`, i);\n   }\n\n   const value = context.parse(args[i + 1], i + 1);\n   if (!value) return null;\n\n   bindings.push([name, value]);\n   }\n\n   const result = context.parse(args[args.length - 1], args.length - 1, context.expectedType, bindings);\n   if (!result) return null;\n\n   return new Let(bindings, result);\n   }\n\n   outputDefined() {\n   return this.result.outputDefined();\n   }\n\n   serialize() {\n   const serialized = [\"let\"];\n   for (const [name, expr] of this.bindings) {\n   serialized.push(name, expr.serialize());\n   }\n   serialized.push(this.result.serialize());\n   return serialized;\n   }\n}\n\nexport default Let;\n","// @flow\n\nimport {array, ValueType, NumberType} from '../types';\n\nimport RuntimeError from '../runtime_error';\n\nimport type {Expression} from '../expression';\nimport type ParsingContext from '../parsing_context';\nimport type EvaluationContext from '../evaluation_context';\nimport type {Type, ArrayType} from '../types';\nimport type {Value} from '../values';\n\nclass At implements Expression {\n   type: Type;\n   index: Expression;\n   input: Expression;\n\n   constructor(type: Type, index: Expression, input: Expression) {\n   this.type = type;\n this.index = index;\n this.input = input;\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n if (args.length !== 3)\n return context.error(`Expected 2 arguments, but found ${args.length - 1} instead.`);\n\n const index = context.parse(args[1], 1, NumberType);\n const input = context.parse(args[2], 2, array(context.expectedType || ValueType));\n\n if (!index || !input) return null;\n\n const t: ArrayType = (input.type: any);\n return new At(t.itemType, index, input);\n }\n\n evaluate(ctx: EvaluationContext) {\n const index = ((this.index.evaluate(ctx): any): number);\n const array = ((this.input.evaluate(ctx): any): Array<Value>);\n\n if (index < 0) {\n throw new RuntimeError(`Array index out of bounds: ${index} < 0.`);\n }\n\n if (index >= array.length) {\n throw new RuntimeError(`Array index out of bounds: ${index} > ${array.length - 1}.`);\n }\n\n if (index !== Math.floor(index)) {\n throw new RuntimeError(`Array index must be an integer, but found ${index} instead.`);\n }\n\n return array[index];\n }\n\n eachChild(fn: (_: Expression) => void) {\n fn(this.index);\n fn(this.input);\n }\n\n outputDefined() {\n return false;\n }\n\n serialize() {\n return [\"at\", this.index.serialize(), this.input.serialize()];\n }\n}\n\nexport default At;\n","// @flow\n\nimport {BooleanType, StringType, ValueType, NullType, toString, NumberType, isValidType, isValidNativeType} from '../types';\nimport RuntimeError from '../runtime_error';\nimport {typeOf} from '../values';\n\nimport type {Expression} from '../expression';\nimport type ParsingContext from '../parsing_context';\nimport type EvaluationContext from '../evaluation_context';\nimport type {Type} from '../types';\n\nclass In implements Expression {\n type: Type;\n needle: Expression;\n haystack: Expression;\n\n constructor(needle: Expression, haystack: Expression) {\n this.type = BooleanType;\n this.needle = needle;\n this.haystack = haystack;\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n if (args.length !== 3) {\n return context.error(`Expected 2 arguments, but found ${args.length - 1} instead.`);\n }\n\n const needle = context.parse(args[1], 1, ValueType);\n\n const haystack = context.parse(args[2], 2, ValueType);\n\n if (!needle || !haystack) return null;\n\n if (!isValidType(needle.type, [BooleanType, StringType, NumberType, NullType, ValueType])) {\n return context.error(`Expected first argument to be of type boolean, string, number or null, but found ${toString(needle.type)} instead`);\n }\n\n return new In(needle, haystack);\n }\n\n evaluate(ctx: EvaluationContext) {\n const needle = (this.needle.evaluate(ctx): any);\n const haystack = (this.haystack.evaluate(ctx): any);\n\n if (!haystack) return false;\n\n if (!isValidNativeType(needle, ['boolean', 'string', 'number', 'null'])) {\n throw new RuntimeError(`Expected first argument to be of type boolean, string, number or null, but found ${toString(typeOf(needle))} instead.`);\n }\n\n if (!isValidNativeType(haystack, ['string', 'array'])) {\n throw new RuntimeError(`Expected second argument to be of type array or string, but found ${toString(typeOf(haystack))} instead.`);\n }\n\n return haystack.indexOf(needle) >= 0;\n }\n\n eachChild(fn: (_: Expression) => void) {\n fn(this.needle);\n fn(this.haystack);\n }\n\n outputDefined() {\n return true;\n }\n\n serialize() {\n return [\"in\", this.needle.serialize(), this.haystack.serialize()];\n }\n}\n\nexport default In;\n","// @flow\n\nimport {BooleanType, StringType, ValueType, NullType, toString, NumberType, isValidType, isValidNativeType} from '../types';\nimport RuntimeError from '../runtime_error';\nimport {typeOf} from '../values';\n\nimport type {Expression} from '../expression';\nimport type ParsingContext from '../parsing_context';\nimport type EvaluationContext from '../evaluation_context';\nimport type {Type} from '../types';\n\nclass IndexOf implements Expression {\n type: Type;\n needle: Expression;\n haystack: Expression;\n fromIndex: ?Expression;\n\n constructor(needle: Expression, haystack: Expression, fromIndex?: Expression) {\n this.type = NumberType;\n this.needle = needle;\n this.haystack = haystack;\n this.fromIndex = fromIndex;\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n if (args.length <= 2 || args.length >= 5) {\n return context.error(`Expected 3 or 4 arguments, but found ${args.length - 1} instead.`);\n }\n\n const needle = context.parse(args[1], 1, ValueType);\n\n const haystack = context.parse(args[2], 2, ValueType);\n\n if (!needle || !haystack) return null;\n if (!isValidType(needle.type, [BooleanType, StringType, NumberType, NullType, ValueType])) {\n return context.error(`Expected first argument to be of type boolean, string, number or null, but found ${toString(needle.type)} instead`);\n }\n\n if (args.length === 4) {\n const fromIndex = context.parse(args[3], 3, NumberType);\n if (!fromIndex) return null;\n return new

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

```
fn(this.otherwise);\n    }\n\n    outputDefined(): boolean {\n        return this.outputs.every(out =>
out.outputDefined()) && this.otherwise.outputDefined();\n    }\n\n    serialize(): Array<mixed> {\n        const
serialized = [\"match\", this.input.serialize()];\n\n        // Sort so serialization has an arbitrary defined order, even
though\n        // branch order doesn't affect evaluation\n        const sortedLabels = Object.keys(this.cases).sort();\n\n
    // Group branches by unique match expression to support condensed\n        // serializations of the form [case1,
case2, ...] -> matchExpression\n        const groupedByOutput: Array<[number, Array<number | string>]> = [];\n
const outputLookup: {[index: number]: number} = {}; // lookup index into groupedByOutput for a given output
expression\n        for (const label of sortedLabels) {\n            const outputIndex = outputLookup[this.cases[label]];\n
        if (outputIndex === undefined) {\n                // First time seeing this output, add it to the end of the grouped
list\n                outputLookup[this.cases[label]] = groupedByOutput.length;\n
groupedByOutput.push([this.cases[label], [label]]);\n            } else {\n                // We've seen this expression before,
add the label to that output's group\n                groupedByOutput[outputIndex][1].push(label);\n            }\n        }\n\n
      const coerceLabel = (label) => this.inputType.kind === 'number' ? Number(label) : label;\n\n        for (const
[outputIndex, labels] of groupedByOutput) {\n            if (labels.length === 1) {\n                // Only a single label
matches this output expression\n                serialized.push(coerceLabel(labels[0]));\n            } else {\n                //
Array of literal labels pointing to this output expression\n                serialized.push(labels.map(coerceLabel));\n
 }\n            serialized.push(this.outputs[outputIndex].serialize());\n        }\n
serialized.push(this.otherwise.serialize());\n        return serialized;\n    }\n}\n\nexport default Match;\n","//
@flow\n\nimport assert from 'assert';\n\nimport {BooleanType} from '../types';\n\nimport type {Expression} from
'../expression';\nimport type ParsingContext from '../parsing_context';\nimport type EvaluationContext from
'../evaluation_context';\nimport type {Type} from '../types';\n\ntype Branches = Array<[Expression,
Expression]>;\n\nclass Case implements Expression {\n    type: Type;\n\n    branches: Branches;\n    otherwise:
Expression;\n\n    constructor(type: Type, branches: Branches, otherwise: Expression) {\n        this.type = type;\n
this.branches = branches;\n        this.otherwise = otherwise;\n    }\n\n    static parse(args: $ReadOnlyArray<mixed>,
context: ParsingContext) {\n        if (args.length < 4)\n            return context.error(`Expected at least 3 arguments,
but found only ${args.length - 1}.`);\n        if (args.length % 2 !== 0)\n            return context.error(`Expected an odd
number of arguments.`);\n\n        let outputType: ?Type;\n        if (context.expectedType &&
context.expectedType.kind !== 'value') {\n            outputType = context.expectedType;\n        }\n\n        const
branches = [];\n        for (let i = 1; i < args.length - 1; i += 2) {\n            const test = context.parse(args[i], i,
BooleanType);\n            if (!test) return null;\n\n            const result = context.parse(args[i + 1], i + 1, outputType);\n
         if (!result) return null;\n\n            branches.push([test, result]);\n\n            outputType = outputType ||
result.type;\n        }\n\n        const otherwise = context.parse(args[args.length - 1], args.length - 1, outputType);\n
if (!otherwise) return null;\n\n        assert(outputType);\n        return new Case((outputType: any), branches,
otherwise);\n    }\n\n    evaluate(ctx: EvaluationContext) {\n        for (const [test, expression] of this.branches) {\n
     if (test.evaluate(ctx)) {\n                return expression.evaluate(ctx);\n            }\n        }\n        return
this.otherwise.evaluate(ctx);\n    }\n\n    eachChild(fn: (_: Expression) => void) {\n        for (const [test, expression]
of this.branches) {\n            fn(test);\n            fn(expression);\n        }\n        fn(this.otherwise);\n    }\n\n
outputDefined(): boolean {\n        return this.branches.every(([_, out]) => out.outputDefined()) &&
this.otherwise.outputDefined();\n    }\n\n    serialize() {\n        const serialized = [\"case\"];\n
this.eachChild(child => { serialized.push(child.serialize()); });\n        return serialized;\n    }\n}\n\nexport default
Case;\n","// @flow\n\nimport {ValueType, NumberType, StringType, array, toString, isValidType,
isValidNativeType} from '../types';\nimport RuntimeError from '../runtime_error';\nimport {typeOf} from
'../values';\n\nimport type {Expression} from '../expression';\nimport type ParsingContext from
'../parsing_context';\nimport type EvaluationContext from '../evaluation_context';\nimport type {Type} from
'../types';\n\nclass Slice implements Expression {\n    type: Type;\n    input: Expression;\n    beginIndex:
Expression;\n    endIndex: ?Expression;\n\n    constructor(type: Type, input: Expression, beginIndex: Expression,
endIndex?: Expression) {\n        this.type = type;\n        this.input = input;\n        this.beginIndex = beginIndex;\n
this.endIndex = endIndex;\n\n    }\n\n    static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n
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 if (args.length <= 2 ||  args.length >= 5) {\n            return context.error(`Expected 3 or 4 arguments, but found
${args.length - 1} instead.`);\n        }\n\n        const input = context.parse(args[1], 1, ValueType);\n        const
beginIndex = context.parse(args[2], 2, NumberType);\n\n        if (!input || !beginIndex) return null;\n\n        if
(!isValidType(input.type, [array(ValueType), StringType, ValueType])) {\n            return context.error(`Expected
first argument to be of type array or string, but found ${toString(input.type)} instead`);\n        }\n\n        if
(args.length === 4) {\n            const endIndex = context.parse(args[3], 3, NumberType);\n            if (!endIndex)
return null;\n            return new Slice(input.type, input, beginIndex, endIndex);\n        } else {\n            return new
Slice(input.type, input, beginIndex);\n        }\n    }\n\n    evaluate(ctx: EvaluationContext) {\n        const input =
(this.input.evaluate(ctx): any);\n        const beginIndex = (this.beginIndex.evaluate(ctx): number);\n\n        if
(!isValidNativeType(input, ['string', 'array'])) {\n            throw new RuntimeError(`Expected first argument to be of
type array or string, but found ${toString(typeOf(input))} instead.`);\n        }\n\n        if (this.endIndex) {\n
const endIndex = (this.endIndex.evaluate(ctx): number);\n            return input.slice(beginIndex, endIndex);\n
}\n\n        return input.slice(beginIndex);\n    }\n\n    eachChild(fn: (_: Expression) => void) {\n        fn(this.input);\n
    fn(this.beginIndex);\n        if (this.endIndex) {\n            fn(this.endIndex);\n        }\n    }\n\n    outputDefined() {\n
     return false;\n    }\n\n    serialize() {\n        if (this.endIndex != null && this.endIndex !== undefined) {\n
const endIndex = this.endIndex.serialize();\n            return [\"slice\", this.input.serialize(), this.beginIndex.serialize(),
endIndex];\n        }\n        return [\"slice\", this.input.serialize(), this.beginIndex.serialize()];\n    }\n}\n\nexport
default Slice;\n","// @flow\n\nimport {toString, ValueType, BooleanType, CollatorType} from '../types';\nimport
Assertion from './assertion';\nimport {typeOf} from '../values';\nimport RuntimeError from
'../runtime_error';\n\nimport type {Expression} from '../expression';\nimport type EvaluationContext from
'../evaluation_context';\nimport type ParsingContext from '../parsing_context';\nimport type {Type} from
'../types';\n\ntype ComparisonOperator = '==' | '!=' | '<' | '>' | '<=' | '>=' ;\n\nfunction isComparableType(op:
ComparisonOperator, type: Type) {\n    if (op === '==' || op === '!=') {\n        // equality operator\n        return
type.kind === 'boolean' ||\n            type.kind === 'string' ||\n            type.kind === 'number' ||\n            type.kind ===
'null' ||\n            type.kind === 'value';\n    } else {\n        // ordering operator\n        return type.kind === 'string' ||\n
      type.kind === 'number' ||\n            type.kind === 'value';\n    }\n}\n\nfunction eq(ctx, a, b) { return a === b;
}\nfunction neq(ctx, a, b) { return a !== b; }\nfunction lt(ctx, a, b) { return a < b; }\nfunction gt(ctx, a, b) { return a
> b; }\nfunction lteq(ctx, a, b) { return a <= b; }\nfunction gteq(ctx, a, b) { return a >= b; }\n\nfunction
eqCollate(ctx, a, b, c) { return c.compare(a, b) === 0; }\nfunction neqCollate(ctx, a, b, c) { return !eqCollate(ctx, a,
b, c); }\nfunction ltCollate(ctx, a, b, c) { return c.compare(a, b) < 0; }\nfunction gtCollate(ctx, a, b, c) { return
c.compare(a, b) > 0; }\nfunction lteqCollate(ctx, a, b, c) { return c.compare(a, b) <= 0; }\nfunction gteqCollate(ctx,
a, b, c) { return c.compare(a, b) >= 0; }\n\n/**\n * Special form for comparison operators, implementing the
signatures:\n * - (T, T, ?Collator) => boolean\n * - (T, value, ?Collator) => boolean\n * - (value, T, ?Collator) =>
boolean\n *\n * For inequalities, T must be either value, string, or number. For ==/!=, it\n * can also be boolean or
null.\n *\n * Equality semantics are equivalent to Javascript's strict equality (===/!==)\n * -- i.e., when the
arguments' types don't match, == evaluates to false, != to\n * true.\n *\n * When types don't match in an ordering
comparison, a runtime error is thrown.\n *\n * @private\n */\nfunction makeComparison(op: ComparisonOperator,
compareBasic, compareWithCollator) {\n    const isOrderComparison = op !== '==' && op !== '!=';\n\n    return
class Comparison implements Expression {\n        type: Type;\n        lhs: Expression;\n        rhs: Expression;\n
collator: ?Expression;\n        hasUntypedArgument: boolean;\n\n        constructor(lhs: Expression, rhs: Expression,
collator: ?Expression) {\n            this.type = BooleanType;\n            this.lhs = lhs;\n            this.rhs = rhs;\n
this.collator = collator;\n            this.hasUntypedArgument = lhs.type.kind === 'value' || rhs.type.kind === 'value';\n
    }\n\n        static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n            if
(args.length !== 3 && args.length !== 4)\n                return context.error(`Expected two or three arguments.`);\n\n
     const op: ComparisonOperator = (args[0]: any);\n\n            let lhs = context.parse(args[1], 1, ValueType);\n
 if (!lhs) return null;\n            if (!isComparableType(op, lhs.type)) {\n                return
context.concat(1).error(`\"${op}\" comparisons are not supported for type '${toString(lhs.type)}'.`);\n            }\n
  let rhs = context.parse(args[2], 2, ValueType);\n            if (!rhs) return null;\n            if (!isComparableType(op,
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rhs.type)) {\n return context.concat(2).error(`\"${op}\" comparisons are not supported for type '${toString(rhs.type)}'.`);\n }\n\n if (\n lhs.type.kind !== rhs.type.kind &&\n lhs.type.kind !== 'value' &&\n rhs.type.kind !== 'value'\n) {\n return context.error(`Cannot compare types '${toString(lhs.type)}' and '${toString(rhs.type)}'.`);\n }\n\n if (isOrderComparison) {\n // typing rules specific to less/greater than operators\n if (lhs.type.kind === 'value' && rhs.type.kind !== 'value') {\n // (value, T)\n lhs = new Assertion(rhs.type, [lhs]);\n } else if (lhs.type.kind !== 'value' && rhs.type.kind === 'value') {\n // (T, value)\n rhs = new Assertion(lhs.type, [rhs]);\n }\n }\n\n let collator = null;\n if (args.length === 4) {\n if (\n lhs.type.kind !== 'string' &&\n rhs.type.kind !== 'string' &&\n lhs.type.kind !== 'value' &&\n rhs.type.kind !== 'value'\n) {\n return context.error(`Cannot use collator to compare non-string types.`);\n }\n collator = context.parse(args[3], 3, CollatorType);\n if (!collator) return null;\n }\n\n return new Comparison(lhs, rhs, collator);\n }\n\n evaluate(ctx: EvaluationContext) {\n const lhs = this.lhs.evaluate(ctx);\n const rhs = this.rhs.evaluate(ctx);\n\n if (isOrderComparison && this.hasUntypedArgument) {\n const lt = typeOf(lhs);\n const rt = typeOf(rhs);\n // check that type is string or number, and equal\n if (lt.kind !== rt.kind || !(lt.kind === 'string' || lt.kind === 'number')) {\n throw new RuntimeError(`Expected arguments for \"${op}\" to be (string, string) or (number, number), but found (${lt.kind}, ${rt.kind}) instead.`);\n }\n }\n\n if (this.collator && !isOrderComparison && this.hasUntypedArgument) {\n const lt = typeOf(lhs);\n const rt = typeOf(rhs);\n if (lt.kind !== 'string' || rt.kind !== 'string') {\n return compareBasic(ctx, lhs, rhs);\n }\n }\n\n return this.collator ?\n compareWithCollator(ctx, lhs, rhs, this.collator.evaluate(ctx)) :\n compareBasic(ctx, lhs, rhs);\n }\n\n eachChild(fn: (_: Expression) => void) {\n fn(this.lhs);\n fn(this.rhs);\n if (this.collator) {\n fn(this.collator);\n }\n }\n\n outputDefined(): boolean {\n return true;\n }\n\n serialize() {\n const serialized = [op];\n this.eachChild(child => { serialized.push(child.serialize()); });\n return serialized;\n }\n };\n}\n\nexport const Equals = makeComparison('==', eq, eqCollate);\nexport const NotEquals = makeComparison('!=', neq, neqCollate);\nexport const LessThan = makeComparison('<', lt, ltCollate);\nexport const GreaterThan = makeComparison('>', gt, gtCollate);\nexport const LessThanOrEqual = makeComparison('<=', lteq, lteqCollate);\nexport const GreaterThanOrEqual = makeComparison('>=', gteq, gteqCollate);\n","// @flow\n\nimport {StringType, NumberType} from '../types';\n\nimport type {Expression} from '../expression';\nimport type EvaluationContext from '../evaluation_context';\nimport type ParsingContext from '../parsing_context';\nimport type {Type} from '../types';\n\ndeclare var Intl: {\n NumberFormat: Class<Intl$NumberFormat>\n};\n\ndeclare class Intl$NumberFormat {\n constructor (\n locales?: string | string[],\n options?: NumberFormatOptions\n): Intl$NumberFormat;\n\n static (\n locales?: string | string[],\n options?: NumberFormatOptions\n): Intl$NumberFormat;\n\n format(a: number): string;\n\n resolvedOptions(): any;\n}\n\ntype NumberFormatOptions = {\n style?: 'decimal' | 'currency' | 'percent';\n currency?: null | string;\n minimumFractionDigits?: null | string;\n maximumFractionDigits?: null | string;\n};\n\nexport default class NumberFormat implements Expression {\n type: Type;\n number: Expression;\n locale: Expression | null; // BCP 47 language tag\n currency: Expression | null; // ISO 4217 currency code, required if style=currency\n minFractionDigits: Expression | null; // Default 0\n maxFractionDigits: Expression | null; // Default 3\n\n constructor(number: Expression,\n locale: Expression | null,\n currency: Expression | null,\n minFractionDigits: Expression | null,\n maxFractionDigits: Expression | null) {\n this.type = StringType;\n this.number = number;\n this.locale = locale;\n this.currency = currency;\n this.minFractionDigits = minFractionDigits;\n this.maxFractionDigits = maxFractionDigits;\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n if (args.length !== 3)\n return context.error(`Expected two arguments.`);\n\n const number = context.parse(args[1], 1, NumberType);\n if (!number) return null;\n\n const options = (args[2]: any);\n if (typeof options !== \"object\" || Array.isArray(options))\n return context.error(`NumberFormat options argument must be an object.`);\n\n   let locale = null;\n   if (options['locale']) {\n   locale = context.parse(options['locale'], 1, StringType);\n   if (!locale) return null;\n   }\n\n   let currency = null;\n   if (options['currency']) {\n   currency = context.parse(options['currency'], 1, StringType);\n   if (!currency) return null;\n   }\n\n   let minFractionDigits = null;\n   if (options['min-fraction-digits']) {\n   minFractionDigits = context.parse(options['min-fraction-digits'], 1, NumberType);\n   if (!minFractionDigits) return null;\n   }\n\n   let maxFractionDigits = null;\n   if (options['max-fraction-digits']) {\n   maxFractionDigits = context.parse(options['max-fraction-digits'], 1, NumberType);\n   if (!maxFractionDigits) return null;\n   }\n\n   return new NumberFormat(number, locale, currency, minFractionDigits, maxFractionDigits);\n   }\n\n   evaluate(ctx: EvaluationContext) {\n   return new Intl.NumberFormat(this.locale ? this.locale.evaluate(ctx) : [],\n   {\n   style: this.currency ? \"currency\" : \"decimal\",\n   currency: this.currency ? this.currency.evaluate(ctx) : undefined,\n   minimumFractionDigits: this.minFractionDigits ? this.minFractionDigits.evaluate(ctx) : undefined,\n   maximumFractionDigits: this.maxFractionDigits ? this.maxFractionDigits.evaluate(ctx) : undefined,\n   }).format(this.number.evaluate(ctx));\n   }\n\n   eachChild(fn: (_: Expression) => void) {\n   fn(this.number);\n   if (this.locale) {\n   fn(this.locale);\n   }\n   if (this.currency) {\n   fn(this.currency);\n   }\n   if (this.minFractionDigits) {\n   fn(this.minFractionDigits);\n   }\n   if (this.maxFractionDigits) {\n   fn(this.maxFractionDigits);\n   }\n   }\n\n   outputDefined() {\n   return false;\n   }\n\n   serialize() {\n   const options = {};\n   if (this.locale) {\n   options['locale'] = this.locale.serialize();\n   }\n   if (this.currency) {\n   options['currency'] = this.currency.serialize();\n   }\n   if (this.minFractionDigits) {\n   options['min-fraction-digits'] = this.minFractionDigits.serialize();\n   }\n   if (this.maxFractionDigits) {\n   options['max-fraction-digits'] = this.maxFractionDigits.serialize();\n   }\n   return [\"number-format\", this.number.serialize(), options];\n   }\n}\n","// @flow\n\nimport {NumberType, toString} from '../types';\n\nimport {typeOf} from '../values';\nimport RuntimeError from '../runtime_error';\n\nimport type {Expression} from '../expression';\nimport type ParsingContext from '../parsing_context';\nimport type EvaluationContext from '../evaluation_context';\nimport type {Type} from '../types';\n\nclass Length implements Expression {\n   type: Type;\n   input: Expression;\n\n   constructor(input: Expression) {\n   this.type = NumberType;\n   this.input = input;\n   }\n\n   static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n   if (args.length !== 2)\n   return context.error(`Expected 1 argument, but found ${args.length - 1} instead.`);\n\n   const input = context.parse(args[1], 1);\n   if (!input) return null;\n\n   if (input.type.kind !== 'array' && input.type.kind !== 'string' && input.type.kind !== 'value')\n   return context.error(`Expected argument of type string or array, but found ${toString(input.type)} instead.`);\n\n   return new Length(input);\n   }\n\n   evaluate(ctx: EvaluationContext) {\n   const input = this.input.evaluate(ctx);\n   if (typeof input === 'string') {\n   return input.length;\n   } else if (Array.isArray(input)) {\n   return input.length;\n   } else {\n   throw new RuntimeError(`Expected value to be of type string or array, but found ${toString(typeOf(input))} instead.`);\n   }\n   }\n\n   eachChild(fn: (_: Expression) => void) {\n   fn(this.input);\n   }\n\n   outputDefined() {\n   return false;\n   }\n\n   serialize() {\n   const serialized = [\"length\"];\n   this.eachChild(child => { serialized.push(child.serialize()); });\n   return serialized;\n   }\n}\n\nexport default Length;\n","// @flow\n\nimport {\n   type Type,\n   NumberType,\n   StringType,\n   BooleanType,\n   ColorType,\n   ObjectType,\n   ValueType,\n   ErrorType,\n   CollatorType,\n   array,\n   toString as typeToString\n} from '../types';\n\nimport {typeOf, Color, validateRGBA, toString as valueToString} from '../values';\nimport CompoundExpression from '../compound_expression';\nimport RuntimeError from '../runtime_error';\nimport Let from './let';\nimport Var from './var';\nimport Literal from './literal';\nimport Assertion from './assertion';\nimport Coercion from './coercion';\nimport At from './at';\nimport In from './in';\nimport IndexOf from './index_of';\nimport Match from './match';\nimport Case from './case';\nimport Slice from './slice';\nimport Step from './step';\nimport Interpolate from './interpolate';\nimport Coalesce from './coalesce';\nimport {\n   Equals,\n   NotEquals,\n   LessThan,\n   GreaterThan,\n   LessThanOrEqual,\n   GreaterThanOrEqual\n} from './comparison';\nimport CollatorExpression from './collator';\nimport NumberFormat from

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'./number_format';\nimport FormatExpression from './format';\nimport ImageExpression from './image';\nimport
Length from './length';\nimport Within from './within';\n\nimport type {Varargs} from
'../compound_expression';\nimport type {ExpressionRegistry} from '../expression';\n\nconst expressions:
ExpressionRegistry = {\n    // special forms\n    '==': Equals,\n    '!=': NotEquals,\n    '>': GreaterThan,\n    '<':
LessThan,\n    '>=': GreaterThanOrEqual,\n    '<=': LessThanOrEqual,\n    'array': Assertion,\n    'at': At,\n
'boolean': Assertion,\n    'case': Case,\n    'coalesce': Coalesce,\n    'collator': CollatorExpression,\n    'format':
FormatExpression,\n    'image': ImageExpression,\n    'in': In,\n    'index-of': IndexOf,\n    'interpolate': Interpolate,\n
 'interpolate-hcl': Interpolate,\n    'interpolate-lab': Interpolate,\n    'length': Length,\n    'let': Let,\n    'literal':
Literal,\n    'match': Match,\n    'number': Assertion,\n    'number-format': NumberFormat,\n    'object': Assertion,\n
'slice': Slice,\n    'step': Step,\n    'string': Assertion,\n    'to-boolean': Coercion,\n    'to-color': Coercion,\n    'to-
number': Coercion,\n    'to-string': Coercion,\n    'var': Var,\n    'within': Within\n};\n\nfunction rgba(ctx, [r, g, b, a])
{\n    r = r.evaluate(ctx);\n    g = g.evaluate(ctx);\n    b = b.evaluate(ctx);\n    const alpha = a ? a.evaluate(ctx) : 1;\n
const error = validateRGBA(r, g, b, alpha);\n    if (error) throw new RuntimeError(error);\n    return new Color(r /
255 * alpha, g / 255 * alpha, b / 255 * alpha, alpha);\n}\n\nfunction has(key, obj) {\n    return key in
obj;\n}\n\nfunction get(key, obj) {\n    const v = obj[key];\n    return typeof v === 'undefined' ? null :
v;\n}\n\nfunction binarySearch(v, a, i, j) {\n    while (i <= j) {\n        const m = (i + j) >> 1;\n        if (a[m] === v)\n
      return true;\n        if (a[m] > v)\n            j = m - 1;\n        else\n            i = m + 1;\n    }\n    return
false;\n}\n\nfunction varargs(type: Type): Varargs {\n    return
{type};\n}\n\nCompoundExpression.register(expressions, {\n    'error': [\n        ErrorType,\n        [StringType],\n
(ctx, [v]) => { throw new RuntimeError(v.evaluate(ctx)); }\n    ],\n    'typeof': [\n        StringType,\n
[ValueType],\n        (ctx, [v]) => typeToString(typeOf(v.evaluate(ctx)))\n    ],\n    'to-rgba': [\n
array(NumberType, 4),\n        [ColorType],\n        (ctx, [v]) => {\n            return v.evaluate(ctx).toArray();\n        }\n
 ],\n    'rgb': [\n        ColorType,\n        [NumberType, NumberType, NumberType],\n        rgba\n    ],\n    'rgba': [\n
  ColorType,\n        [NumberType, NumberType, NumberType, NumberType],\n        rgba\n    ],\n    'has': {\n
type: BooleanType,\n        overloads: [\n            [\n                [StringType],\n                (ctx, [key]) =>
has(key.evaluate(ctx), ctx.properties())\n            ], [\n                [StringType, ObjectType],\n                (ctx, [key,
obj]) => has(key.evaluate(ctx), obj.evaluate(ctx))\n            ]\n        ]\n    },\n    'get': {\n        type: ValueType,\n
overloads: [\n            [\n                [StringType],\n                (ctx, [key]) => get(key.evaluate(ctx), ctx.properties())\n
        ], [\n                [StringType, ObjectType],\n                (ctx, [key, obj]) => get(key.evaluate(ctx),
obj.evaluate(ctx))\n            ]\n        ]\n    },\n    'feature-state': [\n        ValueType,\n        [StringType],\n        (ctx,
[key]) => get(key.evaluate(ctx), ctx.featureState || {})\n    ],\n    'properties': [\n        ObjectType,\n        [],\n
(ctx) => ctx.properties()\n    ],\n    'geometry-type': [\n        StringType,\n        [],\n        (ctx) =>
ctx.geometryType()\n    ],\n    'id': [\n        ValueType,\n        [],\n        (ctx) => ctx.id()\n    ],\n    'zoom': [\n
NumberType,\n        [],\n        (ctx) => ctx.globals.zoom\n    ],\n    'heatmap-density': [\n        NumberType,\n
[],\n        (ctx) => ctx.globals.heatmapDensity || 0\n    ],\n    'line-progress': [\n        NumberType,\n        [],\n
(ctx) => ctx.globals.lineProgress || 0\n    ],\n    'accumulated': [\n        ValueType,\n        [],\n        (ctx) =>
ctx.globals.accumulated === undefined ? null : ctx.globals.accumulated\n    ],\n    '+': [\n        NumberType,\n
varargs(NumberType),\n        (ctx, args) => {\n            let result = 0;\n            for (const arg of args) {\n
result += arg.evaluate(ctx);\n            }\n            return result;\n        }\n    ],\n    '*': [\n        NumberType,\n
varargs(NumberType),\n        (ctx, args) => {\n            let result = 1;\n            for (const arg of args) {\n
result *= arg.evaluate(ctx);\n            }\n            return result;\n        }\n    ],\n    '-': {\n        type: NumberType,\n
overloads: [\n            [\n                [NumberType, NumberType],\n                (ctx, [a, b]) => a.evaluate(ctx) -
b.evaluate(ctx)\n            ], [\n                [NumberType],\n                (ctx, [a]) => -a.evaluate(ctx)\n            ]\n        ]\n
},\n    '/': [\n        NumberType,\n        [NumberType, NumberType],\n        (ctx, [a, b]) => a.evaluate(ctx) /
b.evaluate(ctx)\n    ],\n    '%': [\n        NumberType,\n        [NumberType, NumberType],\n        (ctx, [a, b]) =>
a.evaluate(ctx) % b.evaluate(ctx)\n    ],\n    'ln2': [\n        NumberType,\n        [],\n        () => Math.LN2\n    ],\n    'pi':
[\n        NumberType,\n        [],\n        () => Math.PI\n    ],\n    'e': [\n        NumberType,\n        [],\n        () =>
Math.E\n    ],\n    '^': [\n        NumberType,\n        [NumberType, NumberType],\n        (ctx, [b, e]) =>
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Math.pow(b.evaluate(ctx), e.evaluate(ctx))\n],\n 'sqrt': [\n NumberType,\n [NumberType],\n (ctx, [x]) => Math.sqrt(x.evaluate(ctx))\n],\n 'log10': [\n NumberType,\n [NumberType],\n (ctx, [n]) => Math.log(n.evaluate(ctx)) / Math.LN10\n],\n 'ln': [\n NumberType,\n [NumberType],\n (ctx, [n]) => Math.log(n.evaluate(ctx))\n],\n 'log2': [\n NumberType,\n [NumberType],\n (ctx, [n]) => Math.log(n.evaluate(ctx)) / Math.LN2\n],\n 'sin': [\n NumberType,\n [NumberType],\n (ctx, [n]) => Math.sin(n.evaluate(ctx))\n],\n 'cos': [\n NumberType,\n [NumberType],\n (ctx, [n]) => Math.cos(n.evaluate(ctx))\n],\n 'tan': [\n NumberType,\n [NumberType],\n (ctx, [n]) => Math.tan(n.evaluate(ctx))\n],\n 'asin': [\n NumberType,\n [NumberType],\n (ctx, [n]) => Math.asin(n.evaluate(ctx))\n],\n 'acos': [\n NumberType,\n [NumberType],\n (ctx, [n]) => Math.acos(n.evaluate(ctx))\n],\n 'atan': [\n NumberType,\n [NumberType],\n (ctx, [n]) => Math.atan(n.evaluate(ctx))\n],\n 'min': [\n NumberType,\n varargs(NumberType),\n (ctx, args) => Math.min(...args.map(arg => arg.evaluate(ctx)))\n],\n 'max': [\n NumberType,\n varargs(NumberType),\n (ctx, args) => Math.max(...args.map(arg => arg.evaluate(ctx)))\n],\n 'abs': [\n NumberType,\n [NumberType],\n (ctx, [n]) => Math.abs(n.evaluate(ctx))\n],\n 'round': [\n NumberType,\n [NumberType],\n (ctx, [n]) => {\n const v = n.evaluate(ctx);\n // Javascript's Math.round() rounds towards +Infinity for halfway\n // values, even when they're negative. It's more common to round\n // away from 0 (e.g., this is what python and C++ do)\n return v < 0 ? -Math.round(-v) : Math.round(v);\n }\n],\n 'floor': [\n NumberType,\n [NumberType],\n (ctx, [n]) => Math.floor(n.evaluate(ctx))\n],\n 'ceil': [\n NumberType,\n [NumberType],\n (ctx, [n]) => Math.ceil(n.evaluate(ctx))\n],\n 'filter-==': [\n BooleanType,\n [StringType, ValueType],\n (ctx, [k, v]) => ctx.properties()[(k: any).value] === (v: any).value\n],\n 'filter-id-==': [\n BooleanType,\n [ValueType],\n (ctx, [v]) => ctx.id() === (v: any).value\n],\n 'filter-type-==': [\n BooleanType,\n [StringType],\n (ctx, [v]) => ctx.geometryType() === (v: any).value\n],\n 'filter-<': [\n BooleanType,\n [StringType, ValueType],\n (ctx, [k, v]) => {\n const a = ctx.properties()[(k: any).value];\n const b = (v: any).value;\n return typeof a === typeof b && a < b;\n }\n],\n 'filter-id-<': [\n BooleanType,\n [ValueType],\n (ctx, [v]) => {\n const a = ctx.id();\n const b = (v: any).value;\n return typeof a === typeof b && a < b;\n }\n],\n 'filter->': [\n BooleanType,\n [StringType, ValueType],\n (ctx, [k, v]) => {\n const a = ctx.properties()[(k: any).value];\n const b = (v: any).value;\n return typeof a === typeof b && a > b;\n }\n],\n 'filter-id->': [\n BooleanType,\n [ValueType],\n (ctx, [v]) => {\n const a = ctx.id();\n const b = (v: any).value;\n return typeof a === typeof b && a > b;\n }\n],\n 'filter-<=': [\n BooleanType,\n [StringType, ValueType],\n (ctx, [k, v]) => {\n const a = ctx.properties()[(k: any).value];\n const b = (v: any).value;\n return typeof a === typeof b && a <= b;\n }\n],\n 'filter-id-<=': [\n BooleanType,\n [ValueType],\n (ctx, [v]) => {\n const a = ctx.id();\n const b = (v: any).value;\n return typeof a === typeof b && a <= b;\n }\n],\n 'filter->=': [\n BooleanType,\n [StringType, ValueType],\n (ctx, [k, v]) => {\n const a = ctx.properties()[(k: any).value];\n const b = (v: any).value;\n return typeof a === typeof b && a >= b;\n }\n],\n 'filter-id->=': [\n BooleanType,\n [ValueType],\n (ctx, [v]) => {\n const a = ctx.id();\n const b = (v: any).value;\n return typeof a === typeof b && a >= b;\n }\n],\n 'filter-has': [\n BooleanType,\n [ValueType],\n (ctx, [k]) => (k: any).value in ctx.properties()\n],\n 'filter-has-id': [\n BooleanType,\n [],\n (ctx) => (ctx.id() !== null && ctx.id() !== undefined)\n],\n 'filter-type-in': [\n BooleanType,\n [array(StringType)],\n (ctx, [v]) => (v: any).value.indexOf(ctx.geometryType()) >= 0\n],\n 'filter-id-in': [\n BooleanType,\n [array(ValueType)],\n (ctx, [v]) => (v: any).value.indexOf(ctx.id()) >= 0\n],\n 'filter-in-small': [\n BooleanType,\n [StringType, array(ValueType)],\n // assumes v is an array literal\n (ctx, [k, v]) => (v: any).value.indexOf(ctx.properties()[(k: any).value]) >= 0\n],\n 'filter-in-large': [\n BooleanType,\n [StringType, array(ValueType)],\n // assumes v is a array literal with values sorted in ascending order and of a single type\n (ctx, [k, v]) => binarySearch(ctx.properties()[(k: any).value], (v: any).value, 0, (v: any).value.length - 1)\n],\n 'all': {\n type: BooleanType,\n overloads: [\n [\n

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    [BooleanType, BooleanType],\n                (ctx, [a, b]) => a.evaluate(ctx) && b.evaluate(ctx)\n            ],\n
[\n                varargs(BooleanType),\n                (ctx, args) => {\n                    for (const arg of args) {\n
 if (!arg.evaluate(ctx))\n                            return false;\n                    }\n                    return true;\n                }\n
]\n        ]\n    },\n    'any': {\n        type: BooleanType,\n        overloads: [\n            [\n                [BooleanType,
BooleanType],\n                (ctx, [a, b]) => a.evaluate(ctx) || b.evaluate(ctx)\n            ],\n            [\n
varargs(BooleanType),\n                (ctx, args) => {\n                    for (const arg of args) {\n                        if
(arg.evaluate(ctx))\n                            return true;\n                    }\n                    return false;\n                }\n            ]\n
      ]\n    },\n    '!': [\n        BooleanType,\n        [BooleanType],\n        (ctx, [b]) => !b.evaluate(ctx)\n    ],\n    'is-
supported-script': [\n        BooleanType,\n        [StringType],\n        // At parse time this will always return true, so
we need to exclude this expression with isGlobalPropertyConstant\n        (ctx, [s]) => {\n            const
isSupportedScript = ctx.globals && ctx.globals.isSupportedScript;\n            if (isSupportedScript) {\n
return isSupportedScript(s.evaluate(ctx));\n            }\n            return true;\n        }\n    ],\n    'upcase': [\n
StringType,\n        [StringType],\n        (ctx, [s]) => s.evaluate(ctx).toUpperCase()\n    ],\n    'downcase': [\n
StringType,\n        [StringType],\n        (ctx, [s]) => s.evaluate(ctx).toLowerCase()\n    ],\n    'concat': [\n
StringType,\n        varargs(ValueType),\n        (ctx, args) => args.map(arg =>
valueToString(arg.evaluate(ctx))).join('')\n    ],\n    'resolved-locale': [\n        StringType,\n        [CollatorType],\n
(ctx, [collator]) => collator.evaluate(ctx).resolvedLocale()\n    ]\n});\n\nexport default expressions;\n","//
@flow\n\n/**\n * A type used for returning and propagating errors. The first element of the union\n * represents
success and contains a value, and the second represents an error and\n * contains an error value.\n * @private\n
*/\nexport type Result<T, E> =\n    | {| result: 'success', value: T |}\n    | {| result: 'error', value: E |};\n\nexport
function success<T, E>(value: T): Result<T, E> {\n    return {result: 'success', value};\n}\n\nexport function
error<T, E>(value: E): Result<T, E> {\n    return {result: 'error', value};\n}\n","// @flow\n\nimport type
{StylePropertySpecification} from '../style-spec';\n\nexport function supportsPropertyExpression(spec:
StylePropertySpecification): boolean {\n    return spec['property-type'] === 'data-driven' || spec['property-type'] ===
'cross-faded-data-driven';\n}\n\nexport function supportsZoomExpression(spec: StylePropertySpecification):
boolean {\n    return !!spec.expression && spec.expression.parameters.indexOf('zoom') > -1;\n}\n\nexport function
supportsInterpolation(spec: StylePropertySpecification): boolean {\n    return !!spec.expression &&
spec.expression.interpolated;\n}\n","// @flow\n\nexport default function getType(val: mixed): string {\n    if (val
instanceof Number) {\n        return 'number';\n    } else if (val instanceof String) {\n        return 'string';\n    } else if
(val instanceof Boolean) {\n        return 'boolean';\n    } else if (Array.isArray(val)) {\n        return 'array';\n    } else
if (val === null) {\n        return 'null';\n    } else {\n        return typeof val;\n    }\n}\n","\nimport * as colorSpaces
from '../util/color_spaces';\nimport Color from '../util/color';\nimport extend from '../util/extend';\nimport getType
from '../util/get_type';\nimport * as interpolate from '../util/interpolate';\nimport Interpolate from
'../expression/definitions/interpolate';\nimport Formatted from '../expression/types/formatted';\nimport
ResolvedImage from '../expression/types/resolved_image';\nimport {supportsInterpolation} from
'../util/properties';\nimport {findStopLessThanOrEqualTo} from '../expression/stops';\n\nexport function
isFunction(value) {\n    return typeof value === 'object' && value !== null &&
!Array.isArray(value);\n}\n\nfunction identityFunction(x) {\n    return x;\n}\n\nexport function
createFunction(parameters, propertySpec) {\n    const isColor = propertySpec.type === 'color';\n    const
zoomAndFeatureDependent = parameters.stops && typeof parameters.stops[0][0] === 'object';\n    const
featureDependent = zoomAndFeatureDependent || parameters.property !== undefined;\n    const zoomDependent =
zoomAndFeatureDependent || !featureDependent;\n    const type = parameters.type ||
(supportsInterpolation(propertySpec) ? 'exponential' : 'interval');\n\n    if (isColor) {\n        parameters = extend({},
parameters);\n\n        if (parameters.stops) {\n            parameters.stops = parameters.stops.map((stop) => {\n
return [stop[0], Color.parse(stop[1])];\n            });\n        }\n\n        if (parameters.default) {\n
parameters.default = Color.parse(parameters.default);\n        } else {\n            parameters.default =
Color.parse(propertySpec.default);\n        }\n    }\n\n    if (parameters.colorSpace && parameters.colorSpace !==
'rgb' && !colorSpaces[parameters.colorSpace]) { // eslint-disable-line import/namespace\n        throw new
```

```
Error(`Unknown color space: ${parameters.colorSpace}`);\n    }\n\n    let innerFun;\n    let hashedStops;\n    let
categoricalKeyType;\n    if (type === 'exponential') {\n        innerFun = evaluateExponentialFunction;\n    } else if
(type === 'interval') {\n        innerFun = evaluateIntervalFunction;\n    } else if (type === 'categorical') {\n
innerFun = evaluateCategoricalFunction;\n\n        // For categorical functions, generate an Object as a hashmap of
the stops for fast searching\n        hashedStops = Object.create(null);\n        for (const stop of parameters.stops) {\n
    hashedStops[stop[0]] = stop[1];\n        }\n\n        // Infer key type based on first stop key-- used to encforce strict
type checking later\n        categoricalKeyType = typeof parameters.stops[0][0];\n\n    } else if (type === 'identity')
{\n        innerFun = evaluateIdentityFunction;\n    } else {\n        throw new Error(`Unknown function type
\"${type}\"`);\n    }\n\n    if (zoomAndFeatureDependent) {\n        const featureFunctions = {};\n        const
zoomStops = [];\n        for (let s = 0; s < parameters.stops.length; s++) {\n            const stop = parameters.stops[s];\n
        const zoom = stop[0].zoom;\n            if (featureFunctions[zoom] === undefined) {\n
featureFunctions[zoom] = {\n                    zoom,\n                    type: parameters.type,\n                    property:
parameters.property,\n                    default: parameters.default,\n                    stops: []\n                };\n
zoomStops.push(zoom);\n            }\n            featureFunctions[zoom].stops.push([stop[0].value, stop[1]]);\n
}\n\n        const featureFunctionStops = [];\n        for (const z of zoomStops) {\n
featureFunctionStops.push([featureFunctions[z].zoom, createFunction(featureFunctions[z], propertySpec)]);\n
}\n\n        const interpolationType = {name: 'linear'};\n        return {\n            kind: 'composite',\n
interpolationType,\n            interpolationFactor: Interpolate.interpolationFactor.bind(undefined,
interpolationType),\n            zoomStops: featureFunctionStops.map(s => s[0]),\n            evaluate({zoom},
properties) {\n                return evaluateExponentialFunction({\n                    stops: featureFunctionStops,\n
   base: parameters.base\n                }, propertySpec, zoom).evaluate(zoom, properties);\n            }\n        };\n    } else
if (zoomDependent) {\n        const interpolationType = type === 'exponential' ?\n            {name: 'exponential', base:
parameters.base !== undefined ? parameters.base : 1} : null;\n        return {\n            kind: 'camera',\n
interpolationType,\n            interpolationFactor: Interpolate.interpolationFactor.bind(undefined,
interpolationType),\n            zoomStops: parameters.stops.map(s => s[0]),\n            evaluate: ({zoom}) =>
innerFun(parameters, propertySpec, zoom, hashedStops, categoricalKeyType)\n        };\n    } else {\n        return {\n
        kind: 'source',\n            evaluate(_, feature) {\n                const value = feature && feature.properties ?
feature.properties[parameters.property] : undefined;\n                if (value === undefined) {\n                    return
coalesce(parameters.default, propertySpec.default);\n                }\n                return innerFun(parameters,
propertySpec, value, hashedStops, categoricalKeyType);\n            }\n        };\n    }\n}\n\nfunction coalesce(a, b, c)
{\n    if (a !== undefined) return a;\n    if (b !== undefined) return b;\n    if (c !== undefined) return c;\n}\n\nfunction
evaluateCategoricalFunction(parameters, propertySpec, input, hashedStops, keyType) {\n    const evaluated = typeof
input === keyType ? hashedStops[input] : undefined; // Enforce strict typing on input\n    return coalesce(evaluated,
parameters.default, propertySpec.default);\n}\n\nfunction evaluateIntervalFunction(parameters, propertySpec, input)
{\n    // Edge cases\n    if (getType(input) !== 'number') return coalesce(parameters.default, propertySpec.default);\n
 const n = parameters.stops.length;\n    if (n === 1) return parameters.stops[0][1];\n    if (input <=
parameters.stops[0][0]) return parameters.stops[0][1];\n    if (input >= parameters.stops[n - 1][0]) return
parameters.stops[n - 1][1];\n\n    const index = findStopLessThanOrEqualTo(parameters.stops.map((stop) =>
stop[0]), input);\n\n    return parameters.stops[index][1];\n}\n\nfunction evaluateExponentialFunction(parameters,
propertySpec, input) {\n    const base = parameters.base !== undefined ? parameters.base : 1;\n\n    // Edge cases\n
if (getType(input) !== 'number') return coalesce(parameters.default, propertySpec.default);\n    const n =
parameters.stops.length;\n    if (n === 1) return parameters.stops[0][1];\n    if (input <= parameters.stops[0][0])
return parameters.stops[0][1];\n    if (input >= parameters.stops[n - 1][0]) return parameters.stops[n - 1][1];\n\n
const index = findStopLessThanOrEqualTo(parameters.stops.map((stop) => stop[0]), input);\n    const t =
interpolationFactor(\n        input, base,\n        parameters.stops[index][0],\n        parameters.stops[index + 1][0]);\n\n
 const outputLower = parameters.stops[index][1];\n    const outputUpper = parameters.stops[index + 1][1];\n    let
interp = interpolate[propertySpec.type] || identityFunction; // eslint-disable-line import/namespace\n\n    if
(parameters.colorSpace && parameters.colorSpace !== 'rgb') {\n        const colorspace =
colorSpaces[parameters.colorSpace]; // eslint-disable-line import/namespace\n        interp = (a, b) =>
colorspace.reverse(colorspace.interpolate(colorspace.forward(a), colorspace.forward(b), t));\n    }\n\n    if (typeof
outputLower.evaluate === 'function') {\n        return {\n            evaluate(...args) {\n                const evaluatedLower
= outputLower.evaluate.apply(undefined, args);\n                const evaluatedUpper =
outputUpper.evaluate.apply(undefined, args);\n                // Special case for fill-outline-color, which has no spec
default.\n                if (evaluatedLower === undefined || evaluatedUpper === undefined) {\n                    return
undefined;\n                }\n                return interp(evaluatedLower, evaluatedUpper, t);\n            }\n        };\n    }\n\n
return interp(outputLower, outputUpper, t);\n}\n\nfunction evaluateIdentityFunction(parameters, propertySpec,
input) {\n    if (propertySpec.type === 'color') {\n        input = Color.parse(input);\n    } else if (propertySpec.type
=== 'formatted') {\n        input = Formatted.fromString(input.toString());\n    } else if (propertySpec.type ===
'resolvedImage') {\n        input = ResolvedImage.fromString(input.toString());\n    } else if (getType(input) !==
propertySpec.type && (propertySpec.type !== 'enum' || !propertySpec.values[input])) {\n        input = undefined;\n
}\n    return coalesce(input, parameters.default, propertySpec.default);\n}\n\n/**\n * Returns a ratio that can be used
to interpolate between exponential function\n * stops.\n *\n * How it works:\n * Two consecutive stop values define
a (scaled and shifted) exponential\n * function `f(x) = a * base^x + b`, where `base` is the user-specified base,\n *
and `a` and `b` are constants affording sufficient degrees of freedom to fit\n * the function to the given stops.\n *\n *
Here's a bit of algebra that lets us compute `f(x)` directly from the stop\n * values without explicitly solving for `a`
and `b`:\n *\n * First stop value: `f(x0) = y0 = a * base^x0 + b`\n * Second stop value: `f(x1) = y1 = a * base^x1 +
b`\n * => `y1 - y0 = a(base^x1 - base^x0)`\n * => `a = (y1 - y0)/(base^x1 - base^x0)`\n *\n * Desired value: `f(x) =
y = a * base^x + b`\n * => `f(x) = y0 + a * (base^x - base^x0)`\n *\n * From the above, we can replace the `a` in `a *
(base^x - base^x0)` and do a\n * little algebra:\n * ```\n * a * (base^x - base^x0) = (y1 - y0)/(base^x1 - base^x0) *
(base^x - base^x0)\n *                     = (y1 - y0) * (base^x - base^x0) / (base^x1 - base^x0)\n * ```\n *\n * If we let
`(base^x - base^x0) / (base^x1 base^x0)`, then we have\n * `f(x) = y0 + (y1 - y0) * ratio`.  In other words, `ratio`
may be treated as\n * an interpolation factor between the two stops' output values.\n *\n * (Note: a slightly different
form for `ratio`,\n * `(base^(x-x0) - 1) / (base^(x1-x0) - 1) `, is equivalent, but requires fewer\n * expensive
`Math.pow()` operations.)\n *\n * @private\n */\nfunction interpolationFactor(input, base, lowerValue, upperValue)
{\n    const difference = upperValue - lowerValue;\n    const progress = input - lowerValue;\n\n    if (difference ===
0) {\n        return 0;\n    } else if (base === 1) {\n        return progress / difference;\n    } else {\n        return
(Math.pow(base, progress) - 1) / (Math.pow(base, difference) - 1);\n    }\n}\n","// @flow\n\nimport assert from
'assert';\n\nimport extend from '../util/extend';\nimport ParsingError from './parsing_error';\nimport ParsingContext
from './parsing_context';\nimport EvaluationContext from './evaluation_context';\nimport CompoundExpression
from './compound_expression';\nimport Step from './definitions/step';\nimport Interpolate from
'./definitions/interpolate';\nimport Coalesce from './definitions/coalesce';\nimport Let from './definitions/let';\nimport
definitions from './definitions';\nimport * as isConstant from './is_constant';\nimport RuntimeError from
'./runtime_error';\nimport {success, error} from '../util/result';\nimport {supportsPropertyExpression,
supportsZoomExpression, supportsInterpolation} from '../util/properties';\n\nimport type {Type, EvaluationKind}
from './types';\nimport type {Value} from './values';\nimport type {Expression} from './expression';\nimport type
{StylePropertySpecification} from '../style-spec';\nimport type {Result} from '../util/result';\nimport type
{InterpolationType} from './definitions/interpolate';\nimport type {PropertyValueSpecification} from
'../types';\nimport type {FormattedSection} from './types/formatted';\nimport type Point from '@mapbox/point-
geometry';\nimport type {CanonicalTileID} from '../../source/tile_id';\n\nexport type Feature = {\n    +type: 1 | 2 | 3 |
'Unknown' | 'Point' | 'MultiPoint' | 'LineString' | 'MultiLineString' | 'Polygon' | 'MultiPolygon',\n    +id?: any,\n
+properties: {[_: string]: any},\n    +patterns?: {[_: string]: {\"min\": string, \"mid\": string, \"max\": string}},\n
+geometry?: Array<Array<Point>>\n};\n\nexport type FeatureState = {[_: string]: any};\n\nexport type
GlobalProperties = $ReadOnly<{\n    zoom: number,\n    heatmapDensity?: number,\n    lineProgress?: number,\n
isSupportedScript?: (_: string) => boolean,\n    accumulated?: Value\n}>;\n\nexport class StyleExpression {\n
expression: Expression;\n\n    _evaluator: EvaluationContext;\n    _defaultValue: Value;\n    _warningHistory:
{[key: string]: boolean};\n    _enumValues: ?{[_: string]: any};\n\n    constructor(expression: Expression,
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propertySpec: ?StylePropertySpecification) {\n        this.expression = expression;\n        this._warningHistory =
{};\n        this._evaluator = new EvaluationContext();\n        this._defaultValue = propertySpec ?
getDefaultValue(propertySpec) : null;\n        this._enumValues = propertySpec && propertySpec.type === 'enum' ?
propertySpec.values : null;\n    }\n\n    evaluateWithoutErrorHandling(globals: GlobalProperties, feature?: Feature,
featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?:
FormattedSection): any {\n        this._evaluator.globals = globals;\n        this._evaluator.feature = feature;\n
this._evaluator.featureState = featureState;\n        this._evaluator.canonical = canonical;\n
this._evaluator.availableImages = availableImages || null;\n        this._evaluator.formattedSection =
formattedSection;\n\n        return this.expression.evaluate(this._evaluator);\n    }\n\n    evaluate(globals:
GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?:
Array<string>, formattedSection?: FormattedSection): any {\n        this._evaluator.globals = globals;\n
this._evaluator.feature = feature || null;\n        this._evaluator.featureState = featureState || null;\n
this._evaluator.canonical = canonical;\n        this._evaluator.availableImages = availableImages || null;\n
this._evaluator.formattedSection = formattedSection || null;\n\n        try {\n            const val =
this.expression.evaluate(this._evaluator);\n            // eslint-disable-next-line no-self-compare\n            if (val ===
null || val === undefined || (typeof val === 'number' && val !== val)) {\n                return this._defaultValue;\n
 }\n            if (this._enumValues && !(val in this._enumValues)) {\n                throw new RuntimeError(`Expected
value to be one of ${Object.keys(this._enumValues).map(v => JSON.stringify(v)).join(', ')}, but found
${JSON.stringify(val)} instead.`);\n            }\n            return val;\n        } catch (e) {\n            if
(!this._warningHistory[e.message]) {\n                this._warningHistory[e.message] = true;\n                if (typeof
console !== 'undefined') {\n                    console.warn(e.message);\n                }\n            }\n            return
this._defaultValue;\n        }\n    }\n}\n\nexport function isExpression(expression: mixed) {\n    return
Array.isArray(expression) && expression.length > 0 &&\n        typeof expression[0] === 'string' && expression[0]
in definitions;\n}\n\n/**\n * Parse and typecheck the given style spec JSON expression.  If\n * options.defaultValue
is provided, then the resulting StyleExpression's\n * `evaluate()` method will handle errors by logging a warning
(once per\n * message) and returning the default value.  Otherwise, it will throw\n * evaluation errors.\n *\n *
@private\n */\nexport function createExpression(expression: mixed, propertySpec: ?StylePropertySpecification):
Result<StyleExpression, Array<ParsingError>> {\n    const parser = new ParsingContext(definitions, [],
propertySpec ? getExpectedType(propertySpec) : undefined);\n\n    // For string-valued properties, coerce to string
at the top level rather than asserting.\n    const parsed = parser.parse(expression, undefined, undefined, undefined,\n
    propertySpec && propertySpec.type === 'string' ? {typeAnnotation: 'coerce'} : undefined);\n\n    if (!parsed) {\n
    assert(parser.errors.length > 0);\n        return error(parser.errors);\n    }\n\n    return success(new
StyleExpression(parsed, propertySpec));\n}\n\nexport class ZoomConstantExpression<Kind: EvaluationKind> {\n
kind: Kind;\n    isStateDependent: boolean;\n    _styleExpression: StyleExpression;\n\n    constructor(kind: Kind,
expression: StyleExpression) {\n        this.kind = kind;\n        this._styleExpression = expression;\n
this.isStateDependent = kind !== ('constant': EvaluationKind) &&
!isConstant.isStateConstant(expression.expression);\n    }\n\n    evaluateWithoutErrorHandling(globals:
GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?:
Array<string>, formattedSection?: FormattedSection): any {\n        return
this._styleExpression.evaluateWithoutErrorHandling(globals, feature, featureState, canonical, availableImages,
formattedSection);\n    }\n\n    evaluate(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState,
canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection): any {\n
return this._styleExpression.evaluate(globals, feature, featureState, canonical, availableImages, formattedSection);\n
  }\n}\n\nexport class ZoomDependentExpression<Kind: EvaluationKind> {\n    kind: Kind;\n    zoomStops:
Array<number>;\n    isStateDependent: boolean;\n\n    _styleExpression: StyleExpression;\n    interpolationType:
?InterpolationType;\n\n    constructor(kind: Kind, expression: StyleExpression, zoomStops: Array<number>,
interpolationType?: InterpolationType) {\n        this.kind = kind;\n        this.zoomStops = zoomStops;\n
this._styleExpression = expression;\n        this.isStateDependent = kind !== ('camera': EvaluationKind) &&
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!isConstant.isStateConstant(expression.expression);\n this.interpolationType = interpolationType;\n }\n\n evaluateWithoutErrorHandling(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection): any {\n return this._styleExpression.evaluateWithoutErrorHandling(globals, feature, featureState, canonical, availableImages, formattedSection);\n }\n\n evaluate(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection): any {\n return this._styleExpression.evaluate(globals, feature, featureState, canonical, availableImages, formattedSection);\n }\n\n interpolationFactor(input: number, lower: number, upper: number): number {\n if (this.interpolationType) {\n return Interpolate.interpolationFactor(this.interpolationType, input, lower, upper);\n } else {\n return 0;\n }\n }\n}\n\nexport type ConstantExpression = {\n kind: 'constant',\n +evaluate: (globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>) => any,\n}\n\nexport type SourceExpression = {\n kind: 'source',\n isStateDependent: boolean,\n +evaluate: (globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection) => any,\n};\n\nexport type CameraExpression = {\n kind: 'camera',\n +evaluate: (globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>) => any,\n +interpolationFactor: (input: number, lower: number, upper: number) => number,\n zoomStops: Array<number>,\n interpolationType: ?InterpolationType\n};\n\nexport type CompositeExpression = {\n kind: 'composite',\n isStateDependent: boolean,\n +evaluate: (globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection) => any,\n +interpolationFactor: (input: number, lower: number, upper: number) => number,\n zoomStops: Array<number>,\n interpolationType: ?InterpolationType\n};\n\nexport type StylePropertyExpression =\n | ConstantExpression\n | SourceExpression\n | CameraExpression\n | CompositeExpression;\n\nexport function createPropertyExpression(expression: mixed, propertySpec: StylePropertySpecification): Result<StylePropertyExpression, Array<ParsingError>> {\n expression = createExpression(expression, propertySpec);\n if (expression.result === 'error') {\n return expression;\n }\n\n const parsed = expression.value.expression;\n\n const isFeatureConstant = isConstant.isFeatureConstant(parsed);\n if (!isFeatureConstant && !supportsPropertyExpression(propertySpec)) {\n return error([new ParsingError('', 'data expressions not supported')]);\n }\n\n const isZoomConstant = isConstant.isGlobalPropertyConstant(parsed, ['zoom']);\n if (!isZoomConstant && !supportsZoomExpression(propertySpec)) {\n return error([new ParsingError('', 'zoom expressions not supported')]);\n }\n\n const zoomCurve = findZoomCurve(parsed);\n if (!zoomCurve && !isZoomConstant) {\n return error([new ParsingError('', '\"zoom\" expression may only be used as input to a top-level \"step\" or \"interpolate\" expression.')]);\n } else if (zoomCurve instanceof ParsingError) {\n return error([zoomCurve]);\n } else if (zoomCurve instanceof Interpolate && !supportsInterpolation(propertySpec)) {\n return error([new ParsingError('', '\"interpolate\" expressions cannot be used with this property')]);\n }\n\n if (!zoomCurve) {\n return success(isFeatureConstant ?\n (new ZoomConstantExpression('constant', expression.value): ConstantExpression) :\n (new ZoomConstantExpression('source', expression.value): SourceExpression));\n }\n\n const interpolationType = zoomCurve instanceof Interpolate ? zoomCurve.interpolation : undefined;\n\n return success(isFeatureConstant ?\n (new ZoomDependentExpression('camera', expression.value, zoomCurve.labels, interpolationType): CameraExpression) :\n (new ZoomDependentExpression('composite', expression.value, zoomCurve.labels, interpolationType): CompositeExpression));\n}\n\nimport {isFunction, createFunction} from '../function';\nimport {Color} from './values';\n\n// serialization wrapper for old-style stop functions normalized to the\n// expression interface\nexport class StylePropertyFunction<T> {\n _parameters: PropertyValueSpecification<T>;\n _specification: StylePropertySpecification;\n\n kind: EvaluationKind;\n evaluate: (globals: GlobalProperties, feature?: Feature) => any;\n interpolationFactor: ?(input: number, lower: number, upper: number) => number;\n zoomStops: ?Array<number>;\n\n constructor(parameters: PropertyValueSpecification<T>, specification: StylePropertySpecification) {\n this._parameters = parameters;\n this._specification = specification;\n extend(this, createFunction(this._parameters, this._specification));\n   }\n\n   static deserialize(serialized: {_parameters: PropertyValueSpecification<T>, _specification: StylePropertySpecification}) {\n   return ((new StylePropertyFunction(serialized._parameters, serialized._specification)): StylePropertyFunction<T>);\n   }\n\n   static serialize(input: StylePropertyFunction<T>) {\n   return {\n   _parameters: input._parameters,\n   _specification: input._specification\n   };\n   }\n}\n\nexport function normalizePropertyExpression<T>(value: PropertyValueSpecification<T>, specification: StylePropertySpecification): StylePropertyExpression {\n   if (isFunction(value)) {\n   return (new StylePropertyFunction(value, specification): any);\n\n   } else if (isExpression(value)) {\n   const expression = createPropertyExpression(value, specification);\n   if (expression.result === 'error') {\n   // this should have been caught in validation\n   throw new Error(expression.value.map(err => `${err.key}: ${err.message}`).join(', '));\n   }\n   return expression.value;\n\n   } else {\n   let constant: any = value;\n   if (typeof value === 'string' && specification.type === 'color') {\n   constant = Color.parse(value);\n   }\n   return {\n   kind: 'constant',\n   evaluate: () => constant\n   };\n   }\n}\n\n// Zoom-dependent expressions may only use [\"zoom\"] as the input to a top-level \"step\" or \"interpolate\"\n// expression (collectively referred to as a \"curve\"). The curve may be wrapped in one or more \"let\" or\n// \"coalesce\" expressions.\nfunction findZoomCurve(expression: Expression): Step | Interpolate | ParsingError | null {\n   let result = null;\n   if (expression instanceof Let) {\n   result = findZoomCurve(expression.result);\n\n   } else if (expression instanceof Coalesce) {\n   for (const arg of expression.args) {\n   result = findZoomCurve(arg);\n   if (result) {\n   break;\n   }\n   }\n\n   } else if ((expression instanceof Step || expression instanceof Interpolate) &&\n   expression.input instanceof CompoundExpression &&\n   expression.input.name === 'zoom') {\n\n   result = expression;\n   }\n\n   if (result instanceof ParsingError) {\n   return result;\n   }\n\n   expression.eachChild((child) => {\n   const childResult = findZoomCurve(child);\n   if (childResult instanceof ParsingError) {\n   result = childResult;\n   } else if (!result && childResult) {\n   result = new ParsingError('', '\"zoom\" expression may only be used as input to a top-level \"step\" or \"interpolate\" expression.');\n   } else if (result && childResult && result !== childResult) {\n   result = new ParsingError('', 'Only one zoom-based \"step\" or \"interpolate\" subexpression may be used in an expression.');\n   }\n   });\n\n   return result;\n}\n\nimport {ColorType, StringType, NumberType, BooleanType, ValueType, FormattedType, ResolvedImageType, array} from './types';\n\nfunction getExpectedType(spec: StylePropertySpecification): Type {\n   const types = {\n   color: ColorType,\n   string: StringType,\n   number: NumberType,\n   enum: StringType,\n   boolean: BooleanType,\n   formatted: FormattedType,\n   resolvedImage: ResolvedImageType\n   };\n\n   if (spec.type === 'array') {\n   return array(types[spec.value] || ValueType, spec.length);\n   }\n\n   return types[spec.type];\n}\n\nfunction getDefaultValue(spec: StylePropertySpecification): Value {\n   if (spec.type === 'color' && isFunction(spec.default)) {\n   // Special case for heatmap-color: it uses the 'default:' to define a\n   // default color ramp, but createExpression expects a simple value to fall\n   // back to in case of runtime errors\n   return new Color(0, 0, 0, 0);\n   } else if (spec.type === 'color') {\n   return Color.parse(spec.default) || null;\n   } else if (spec.default === undefined) {\n   return null;\n   } else {\n   return spec.default;\n   }\n}\n","// @flow\n\nimport assert from 'assert';\nimport type {StylePropertySpecification} from '../style-spec';\n\nexport default convertFunction;\n\nfunction convertLiteral(value) {\n   return typeof value === 'object' ? ['literal', value] : value;\n}\n\nfunction convertFunction(parameters: any, propertySpec: StylePropertySpecification) {\n   let stops = parameters.stops;\n   if (!stops) {\n   // identity function\n   return convertIdentityFunction(parameters, propertySpec);\n   }\n\n   const zoomAndFeatureDependent = stops && typeof stops[0][0] === 'object';\n   const featureDependent = zoomAndFeatureDependent || parameters.property !== undefined;\n   const zoomDependent = zoomAndFeatureDependent || !featureDependent;\n\n   stops = stops.map((stop) => {\n   if (!featureDependent && propertySpec.tokens && typeof stop[1] === 'string') {\n   return [stop[0], convertTokenString(stop[1])];\n   }\n   return [stop[0], convertLiteral(stop[1])];\n   });\n\n   if (zoomAndFeatureDependent) {\n   return convertZoomAndPropertyFunction(parameters, propertySpec, stops);\n   } else if (zoomDependent) {\n   return convertZoomFunction(parameters, propertySpec, stops);\n   } else {\n   return

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convertPropertyFunction(parameters, propertySpec, stops);\n    }\n}\n\nfunction
convertIdentityFunction(parameters, propertySpec): Array<mixed> {\n    const get = ['get',
parameters.property];\n\n    if (parameters.default === undefined) {\n        // By default, expressions for string-
valued properties get coerced. To preserve\n        // legacy function semantics, insert an explicit assertion instead.\n
    return propertySpec.type === 'string' ? ['string', get] : get;\n    } else if (propertySpec.type === 'enum') {\n
return [\n            'match',\n            get,\n            Object.keys(propertySpec.values),\n            get,\n
parameters.default\n        ];\n    } else {\n        const expression = [propertySpec.type === 'color' ? 'to-color' :
propertySpec.type, get, convertLiteral(parameters.default)];\n        if (propertySpec.type === 'array') {\n
expression.splice(1, 0, propertySpec.value, propertySpec.length || null);\n        }\n        return expression;\n
}\n}\n\nfunction getInterpolateOperator(parameters) {\n    switch (parameters.colorSpace) {\n    case 'hcl': return
'interpolate-hcl';\n    case 'lab': return 'interpolate-lab';\n    default: return 'interpolate';\n    }\n}\n\nfunction
convertZoomAndPropertyFunction(parameters, propertySpec, stops) {\n    const featureFunctionParameters = {};\n
const featureFunctionStops = {};\n    const zoomStops = [];\n    for (let s = 0; s < stops.length; s++) {\n        const
stop = stops[s];\n        const zoom = stop[0].zoom;\n        if (featureFunctionParameters[zoom] === undefined) {\n
        featureFunctionParameters[zoom] = {\n                zoom,\n                type: parameters.type,\n                property:
parameters.property,\n                default: parameters.default,\n            };\n            featureFunctionStops[zoom] = [];\n
            zoomStops.push(zoom);\n        }\n        featureFunctionStops[zoom].push([stop[0].value, stop[1]]);\n    }\n\n
// the interpolation type for the zoom dimension of a zoom-and-property\n    // function is determined directly from
the style property specification\n    // for which it's being used: linear for interpolatable properties, step\n    //
otherwise.\n    const functionType = getFunctionType({}, propertySpec);\n    if (functionType === 'exponential') {\n
        const expression = [getInterpolateOperator(parameters), ['linear'], ['zoom']];\n\n        for (const z of zoomStops)
{\n            const output = convertPropertyFunction(featureFunctionParameters[z], propertySpec,
featureFunctionStops[z]);\n            appendStopPair(expression, z, output, false);\n        }\n\n        return expression;\n
  } else {\n        const expression = ['step', ['zoom']];\n\n        for (const z of zoomStops) {\n            const output =
convertPropertyFunction(featureFunctionParameters[z], propertySpec, featureFunctionStops[z]);\n
appendStopPair(expression, z, output, true);\n        }\n\n        fixupDegenerateStepCurve(expression);\n\n        return
expression;\n    }\n}\n\nfunction coalesce(a, b) {\n    if (a !== undefined) return a;\n    if (b !== undefined) return
b;\n}\n\nfunction convertPropertyFunction(parameters, propertySpec, stops) {\n    const type =
getFunctionType(parameters, propertySpec);\n    const get = ['get', parameters.property];\n    if (type ===
'categorical' && typeof stops[0][0] === 'boolean') {\n        assert(parameters.stops.length > 0 &&
parameters.stops.length <= 2);\n        const expression = ['case'];\n        for (const stop of stops) {\n
expression.push(['==', get, stop[0]], stop[1]);\n        }\n
expression.push(convertLiteral(coalesce(parameters.default, propertySpec.default)));\n        return expression;\n    }
else if (type === 'categorical') {\n        const expression = ['match', get];\n        for (const stop of stops) {\n
appendStopPair(expression, stop[0], stop[1], false);\n        }\n
expression.push(convertLiteral(coalesce(parameters.default, propertySpec.default)));\n        return expression;\n    }
else if (type === 'interval') {\n        const expression = ['step', ['number', get]];\n        for (const stop of stops) {\n
    appendStopPair(expression, stop[0], stop[1], true);\n        }\n        fixupDegenerateStepCurve(expression);\n
return parameters.default === undefined ? expression : [\n            'case',\n            ['==', ['typeof', get], 'number'],\n
     expression,\n            convertLiteral(parameters.default)\n        ];\n    } else if (type === 'exponential') {\n
const base = parameters.base !== undefined ? parameters.base : 1;\n        const expression = [\n
getInterpolateOperator(parameters),\n            base === 1 ? [\"linear\"] : [\"exponential\", base],\n            [\"number\",
get]\n        ];\n\n        for (const stop of stops) {\n            appendStopPair(expression, stop[0], stop[1], false);\n
}\n        return parameters.default === undefined ? expression : [\n            'case',\n            ['==', ['typeof', get],
'number'],\n            expression,\n            convertLiteral(parameters.default)\n        ];\n    } else {\n        throw new
Error(`Unknown property function type ${type}`);\n    }\n}\n\nfunction convertZoomFunction(parameters,
propertySpec, stops, input = ['zoom']) {\n    const type = getFunctionType(parameters, propertySpec);\n    let
expression;\n    let isStep = false;\n    if (type === 'interval') {\n        expression = ['step', input];\n        isStep =
true;\n    } else if (type === 'exponential') {\n        const base = parameters.base !== undefined ? parameters.base :
1;\n        expression = [getInterpolateOperator(parameters), base === 1 ? [\"linear\"] : [\"exponential\", base],
input];\n\n    } else {\n        throw new Error(`Unknown zoom function type \"${type}\"`);\n    }\n\n    for (const stop
of stops) {\n        appendStopPair(expression, stop[0], stop[1], isStep);\n    }\n\n
fixupDegenerateStepCurve(expression);\n\n    return expression;\n}\n\nfunction
fixupDegenerateStepCurve(expression) {\n    // degenerate step curve (i.e. a constant function): add a noop stop\n
if (expression[0] === 'step' && expression.length === 3) {\n        expression.push(0);\n
expression.push(expression[3]);\n    }\n}\n\nfunction appendStopPair(curve, input, output, isStep) {\n    // Skip
duplicate stop values. They were not validated for functions, but they are for expressions.\n    //
https://github.com/mapbox/mapbox-gl-js/issues/4107\n    if (curve.length > 3 && input === curve[curve.length - 2])
{\n        return;\n    }\n    // step curves don't get the first input value, as it is redundant.\n    if (!(isStep &&
curve.length === 2)) {\n        curve.push(input);\n    }\n    curve.push(output);\n}\n\nfunction
getFunctionType(parameters, propertySpec) {\n    if (parameters.type) {\n        return parameters.type;\n    } else {\n
     assert(propertySpec.expression);\n        return (propertySpec.expression: any).interpolated ? 'exponential' :
'interval';\n    }\n}\n\n// \"String with {name} token\" => [\"concat\", \"String with \", [\"get\", \"name\"], \"
token\"]\nexport function convertTokenString(s: string) {\n    const result = ['concat'];\n    const re = /{([^{}]+)}/g;\n
  let pos = 0;\n    for (let match = re.exec(s); match !== null; match = re.exec(s)) {\n        const literal = s.slice(pos,
re.lastIndex - match[0].length);\n        pos = re.lastIndex;\n        if (literal.length > 0) result.push(literal);\n
result.push(['get', match[1]]);\n    }\n\n    if (result.length === 1) {\n        return s;\n    }\n\n    if (pos < s.length) {\n
   result.push(s.slice(pos));\n    } else if (result.length === 2) {\n        return ['to-string', result[1]];\n    }\n\n    return
result;\n}\n\n","// @flow\n\nimport {createExpression} from '../expression';\nimport type {GlobalProperties,
Feature} from '../expression';\nimport type {CanonicalTileID} from '../../source/tile_id';\n\ntype FilterExpression =
(globalProperties: GlobalProperties, feature: Feature, canonical?: CanonicalTileID) => boolean;\nexport type
FeatureFilter ={filter: FilterExpression, needGeometry: boolean};\n\nexport default createFilter;\nexport
{isExpressionFilter};\n\nfunction isExpressionFilter(filter: any) {\n    if (filter === true || filter === false) {\n
return true;\n    }\n\n    if (!Array.isArray(filter) || filter.length === 0) {\n        return false;\n    }\n    switch (filter[0])
{\n    case 'has':\n        return filter.length >= 2 && filter[1] !== '$id' && filter[1] !== '$type';\n\n    case 'in':\n
return filter.length >= 3 && (typeof filter[1] !== 'string' || Array.isArray(filter[2]));\n\n    case '!in':\n    case '!has':\n
 case 'none':\n        return false;\n\n    case '==':\n    case '!=':\n    case '>':\n    case '>=':\n    case '<':\n    case '<=':\n
  return filter.length !== 3 || (Array.isArray(filter[1]) || Array.isArray(filter[2]));\n\n    case 'any':\n    case 'all':\n
for (const f of filter.slice(1)) {\n            if (!isExpressionFilter(f) && typeof f !== 'boolean') {\n                return
false;\n            }\n        }\n        return true;\n\n    default:\n        return true;\n    }\n}\n\nconst filterSpec = {\n    'type':
'boolean',\n    'default': false,\n    'transition': false,\n    'property-type': 'data-driven',\n    'expression': {\n
'interpolated': false,\n        'parameters': ['zoom', 'feature']\n    }\n};\n\n/**\n * Given a filter expressed as nested
arrays, return a new function\n * that evaluates whether a given feature (with a .properties or .tags property)\n *
passes its test.\n *\n * @private\n * @param {Array} filter mapbox gl filter\n * @returns {Function} filter-
evaluating function\n */\nfunction createFilter(filter: any): FeatureFilter {\n    if (filter === null || filter ===
undefined) {\n        return {filter: () => true, needGeometry: false};\n    }\n\n    if (!isExpressionFilter(filter)) {\n
filter = convertFilter(filter);\n    }\n\n    const compiled = createExpression(filter, filterSpec);\n    if (compiled.result
=== 'error') {\n        throw new Error(compiled.value.map(err => `${err.key}: ${err.message}`).join(', '));\n    } else
{\n        const needGeometry = Array.isArray(filter) && filter.length !== 0 && filter[0] === 'within';\n        return
{filter: (globalProperties: GlobalProperties, feature: Feature, canonical?: CanonicalTileID) =>
compiled.value.evaluate(globalProperties, feature, {}, canonical),\n            needGeometry};\n    }\n}\n\n//
Comparison function to sort numbers and strings\nfunction compare(a, b) {\n    return a < b ? -1 : a > b ? 1 :
0;\n}\n\nfunction convertFilter(filter: ?Array<any>): mixed {\n    if (!filter) return true;\n    const op = filter[0];\n
if (filter.length <= 1) return (op !== 'any');\n    const converted =\n        op === '==' ?
convertComparisonOp(filter[1], filter[2], '==') :\n        op === '!=' ?
convertNegation(convertComparisonOp(filter[1], filter[2], '==')) :\n        op === '<' ||\n        op === '>' ||\n        op
```

=== '<=' ||\n   op === '>=' ? convertComparisonOp(filter[1], filter[2], op) :\n   op === 'any' ? convertDisjunctionOp(filter.slice(1)) :\n   op === 'all' ? ['all'].concat(filter.slice(1).map(convertFilter)) :\n   op === 'none' ? ['all'].concat(filter.slice(1).map(convertFilter).map(convertNegation)) :\n   op === 'in' ? convertInOp(filter[1], filter.slice(2)) :\n   op === '!in' ? convertNegation(convertInOp(filter[1], filter.slice(2))) :\n   op === 'has' ? convertHasOp(filter[1]) :\n   op === '!has' ? convertNegation(convertHasOp(filter[1])) :\n   true;\n   return converted;\n}\n\nfunction convertComparisonOp(property: string, value: any, op: string) {\n   switch (property) {\n   case '$type':\n   return [`filter-type-${op}`, value];\n   case '$id':\n   return [`filter-id-${op}`, value];\n   default:\n   return [`filter-${op}`, property, value];\n   }\n}\n\nfunction convertDisjunctionOp(filters: Array<Array<any>>) {\n   return ['any'].concat(filters.map(convertFilter));\n}\n\nfunction convertInOp(property: string, values: Array<any>) {\n   if (values.length === 0) { return false; }\n   switch (property) {\n   case '$type':\n   return [`filter-type-in`, ['literal', values]];\n   case '$id':\n   return [`filter-id-in`, ['literal', values]];\n   default:\n   if (values.length > 200 && !values.some(v => typeof v !== typeof values[0])) {\n   return ['filter-in-large', property, ['literal', values.sort(compare)]];\n   } else {\n   return ['filter-in-small', property, ['literal', values]];\n   }\n   }\n}\n\nfunction convertHasOp(property: string) {\n   switch (property) {\n   case '$type':\n   return true;\n   case '$id':\n   return [`filter-has-id`];\n   default:\n   return [`filter-has`, property];\n   }\n}\n\nfunction convertNegation(filter: mixed) {\n   return ['!', filter];\n}\n","// @flow\n\nimport {isExpressionFilter} from './index';\n\nimport type {FilterSpecification} from '../types';\n\ntype ExpectedTypes = {[_: string]: 'string' | 'number' | 'boolean'};\n\n/**\n * Convert the given legacy filter to (the JSON representation of) an\n * equivalent expression\n * @private\n */\nexport default function convertFilter(filter: FilterSpecification): mixed {\n   return _convertFilter(filter, {});\n}\n\n/*\n * Convert the given filter to an expression, storing the expected types for\n * any feature properties referenced in expectedTypes.\n *\n * These expected types are needed in order to construct preflight type checks\n * needed for handling 'any' filters. A preflight type check is necessary in\n * order to mimic legacy filters' semantics around expected type mismatches.\n * For example, consider the legacy filter:\n *\n * [\"any\", [\"all\", [\">\", \"y\", 0], [\">\", \"y\", 0]], [\">\", \"x\", 0]]\n *\n * Naively, we might convert this to the expression:\n *\n *   [\"any\", [\"all\", [\">\", [\"get\", \"y\"], 0], [\">\", [\"get\", \"z\"], 0]], [\">\", [\"get\", \"x\"], 0]]\n *\n * But if we tried to evaluate this against, say `{x: 1, y: null, z: 0}`, the\n * [\">\", [\"get\", \"y\"], 0] would cause an evaluation error, leading to the\n * entire filter returning false. Legacy filter semantics, though, ask for\n * [\">\", \"y\", 0] to simply return `false` when `y` is of the wrong type,\n * allowing the subsequent terms of the outer \"any\" expression to be evaluated\n * (resulting, in this case, in a `true` value, because x > 0).\n *\n * We account for this by inserting a preflight type-checking expression before\n * each \"any\" term, allowing us to avoid evaluating the actual converted filter\n * if any type mismatches would cause it to produce an evalaution error:\n *\n *   [\"any\",\n *   [\"case\",\n *   [\"all\", [\"==\", [\"typeof\", [\"get\", \"y\"]], \"number\"], [\"==\", [\"typeof\", [\"get\", \"z\"], \"number]],\n *   [\"all\", [\">\", [\"get\", \"y\"], 0], [\">\", [\"get\", \"z\"], 0]],\n *   false\n *   ],\n *   [\"case\",\n *   [\"==\", [\"typeof\", [\"get\", \"x\"], \"number\"]],\n *   [\">\", [\"get\", \"x\"], 0],\n *   false\n *   ]\n *   ]\n *\n * An alternative, possibly more direct approach would be to use type checks\n * in the conversion of each comparison operator, so that the converted version\n * of each individual ==, >=, etc. would mimic the legacy filter semantics. The\n * downside of this approach is that it can lead to many more type checks than\n * would otherwise be necessary: outside the context of an \"any\" expression,\n * bailing out due to a runtime type error (expression semantics) and returning\n * false (legacy filter semantics) are equivalent: they cause the filter to\n * produce a `false` result.\n */\nfunction _convertFilter(filter: FilterSpecification, expectedTypes: ExpectedTypes): mixed {\n   if (isExpressionFilter(filter)) { return filter; }\n\n   if (!filter) return true;\n   const op = filter[0];\n   if (filter.length <= 1) return (op !== 'any');\n\n   let converted;\n\n   if (\n   op === '==' ||\n   op === '!=' ||\n   op === '<' ||\n   op === '>' ||\n   op === '<=' ||\n   op === '>='\n   ) {\n   const [, property, value] = (filter: any);\n   converted = convertComparisonOp(property, value, op, expectedTypes);\n   } else if (op === 'any') {\n   const children = (filter: any).slice(1).map(f => {\n   const types = {};\n   const child = _convertFilter(f, types);\n   const typechecks = runtimeTypeChecks(types);\n   return typechecks === true ? child : ['case', typechecks, child, false];\n   });\n   return ['any'].concat(children);\n   } else if (op === 'all') {\n   const children = (filter: any).slice(1).map(f => _convertFilter(f, expectedTypes));\n   return children.length > 1 ? ['all'].concat(children) : [].concat(...children);\n   } else if (op === 'none') {\n   return ['!', _convertFilter(['any'].concat(filter.slice(1)), {})];\n   } else if (op === 'in') {\n   converted = convertInOp((filter[1]: any), filter.slice(2));\n   } else if (op === '!in') {\n   converted = convertInOp((filter[1]: any), filter.slice(2), true);\n   } else if (op === 'has') {\n   converted = convertHasOp((filter[1]: any));\n   } else if (op === '!has') {\n   converted = ['!', convertHasOp((filter[1]: any))];\n   } else {\n   converted = true;\n   }\n\n   return converted;\n}\n\n// Given a set of feature properties and an expected type for each one,\n// construct an boolean expression that tests whether each property has the\n// right type.\n// E.g.: for {name: 'string', population: 'number'}, return\n// ['all',\n//   ['==', ['typeof', ['get', 'name'], 'string']],\n//   ['==', ['typeof', ['get', 'population'], 'number]]\n//]\nfunction runtimeTypeChecks(expectedTypes: ExpectedTypes) {\n   const conditions = [];\n   for (const property in expectedTypes) {\n   const get = property === '$id' ? ['id'] : ['get', property];\n   conditions.push(['==', ['typeof', get], expectedTypes[property]]);\n   }\n   if (conditions.length === 0) return true;\n   if (conditions.length === 1) return conditions[0];\n   return ['all'].concat(conditions);\n}\n\nfunction convertComparisonOp(property: string, value: any, op: string, expectedTypes: ?ExpectedTypes) {\n   let get;\n   if (property === '$type') {\n   return [op, ['geometry-type'], value];\n   } else if (property === '$id') {\n   get = ['id'];\n   } else {\n   get = ['get', property];\n   }\n\n   if (expectedTypes && value !== null) {\n   const type = ((typeof value): any);\n   expectedTypes[property] = type;\n   }\n\n   if (op === '==' && property !== '$id' && value === null) {\n   return [\n   'all',\n   ['has', property], // missing property != null for legacy filters\n   ['==', get, null]\n   ];\n   } else if (op === '!=' && property !== '$id' && value === null) {\n   return [\n   'any',\n   ['!', ['has', property]], // missing property != null for legacy filters\n   ['!=', get, null]\n   ];\n   }\n\n   return [op, get, value];\n}\n\nfunction convertInOp(property: string, values: Array<any>, negate = false) {\n   if (values.length === 0) return negate;\n\n   let get;\n   if (property === '$type') {\n   get = ['geometry-type'];\n   } else if (property === '$id') {\n   get = ['id'];\n   } else {\n   get = ['get', property];\n   }\n\n   // Determine if the list of values to be searched is homogenously typed.\n   // If so (and if the type is string or number), then we can use a\n   // [match, input, [...values], true, false] construction rather than a\n   // bunch of `==` tests.\n   let uniformTypes = true;\n   const type = typeof values[0];\n   for (const value of values) {\n   if (typeof value !== type) {\n   uniformTypes = false;\n   break;\n   }\n   }\n\n   if (uniformTypes && (type === 'string' || type === 'number')) {\n   // Match expressions must have unique values.\n   const uniqueValues = values.sort().filter((v, i) => i === 0 || values[i - 1] !== v);\n   return ['match', get, uniqueValues, !negate, negate];\n   }\n\n   return [negate ? 'all' : 'any'].concat(\n   values.map(v => [negate ? '!=' : '==', get, v])\n   );\n}\n\nfunction convertHasOp(property: string) {\n   if (property === '$type') {\n   return true;\n   } else if (property === '$id') {\n   return ['!=', ['id'], null];\n   } else {\n   return ['has', property];\n   }\n}\n","// @flow\n\nimport {\n   eachLayer,\n   eachProperty\n} from '../visit';\nimport {isExpression} from '../expression';\nimport convertFunction, {convertTokenString} from '../function/convert';\nimport convertFilter from '../feature_filter/convert';\n\nimport type {StyleSpecification} from '../types';\n\n/**\n * Migrate the given style object in place to use expressions. Specifically,\n * this will convert (a) \"stop\" functions, and (b) legacy filters to their\n * expression equivalents.\n */\nexport default function(style: StyleSpecification) {\n   const converted = [];\n\n   eachLayer(style, (layer) => {\n   if (layer.filter) {\n   layer.filter = (convertFilter(layer.filter): any);\n   }\n   });\n\n   eachProperty(style, {paint: true, layout: true}, ({path, value, reference, set}) => {\n   if (isExpression(value)) return;\n   if (typeof value === 'object' && !Array.isArray(value)) {\n   set(convertFunction(value, reference));\n   converted.push(path.join('.'));\n   } else if (reference.tokens && typeof value === 'string') {\n   set(convertTokenString(value));\n   }\n   });\n\n   return style;\n}\n\n","\nimport migrateToV8 from './migrate/v8';\nimport migrateToExpressions from './migrate/expressions';\n\n/**\n * Migrate a Mapbox GL Style to the latest version.\n *\n * @private\n * @alias migrate\n * @param {object} style a Mapbox GL Style\n * @returns {Object} a migrated style\n * @example\n * var fs = require('fs');\n * var migrate = require('mapbox-gl-style-spec').migrate;\n * var style = fs.readFileSync('./style.json', 'utf8');\n * fs.writeFileSync('./style.json', JSON.stringify(migrate(style)));\n */\nexport default function(style) {\n   let migrated = false;\n\n   if (style.version === 7) {\n   style = migrateToV8(style);\n migrated = true;\n }\n\n if (style.version === 8) {\n migrated = migrateToExpressions(style);\n migrated = true;\n }\n\n if (!migrated) {\n throw new Error('cannot migrate from', style.version);\n }\n\n return style;\n}\n","\nexport default function (style) {\n const styleIDs = [];\n const sourceIDs = [];\n const compositedSourceLayers = [];\n\n for (const id in style.sources) {\n const source = style.sources[id];\n\n if (source.type !== \"vector\")\n continue;\n\n const match = /^mapbox:\\/\\/(.*)/.exec(source.url);\n if (!match)\n continue;\n\n styleIDs.push(id);\n sourceIDs.push(match[1]);\n }\n\n if (styleIDs.length < 2)\n return style;\n\n styleIDs.forEach((id) => {\n delete style.sources[id];\n });\n\n const compositeID = sourceIDs.join(\",\");\n\n style.sources[compositeID] = {\n \"type\": \"vector\",\n \"url\": `mapbox://${compositeID}`\n };\n\n style.layers.forEach((layer) => {\n if (styleIDs.indexOf(layer.source) >= 0) {\n layer.source = compositeID;\n\n if ('source-layer' in layer) {\n if (compositedSourceLayers.indexOf(layer['source-layer']) >= 0) {\n throw new Error('Conflicting source layer names');\n } else {\n compositedSourceLayers.push(layer['source-layer']);\n }\n }\n }\n });\n\n return style;\n}\n","\nexport default ['type', 'source', 'source-layer', 'minzoom', 'maxzoom', 'filter', 'layout'];\n","\nimport refProperties from './util/ref_properties';\n\nfunction deref(layer, parent) {\n const result = {};\n\n for (const k in layer) {\n if (k !== 'ref') {\n result[k] = layer[k];\n }\n }\n\n refProperties.forEach((k) => {\n if (k in parent) {\n result[k] = parent[k];\n }\n });\n\n return result;\n}\n\nexport default derefLayers;\n\n/**\n * Given an array of layers, some of which may contain `ref` properties\n * whose value is the `id` of another property, return a new array where\n * such layers have been augmented with the 'type', 'source', etc. properties\n * from the parent layer, and the `ref` property has been removed.\n *\n * The input is not modified. The output may contain references to portions\n * of the input.\n *\n * @private\n * @param {Array<Layer>} layers\n * @returns {Array<Layer>}\n */\nfunction derefLayers(layers) {\n layers = layers.slice();\n\n const map = Object.create(null);\n for (let i = 0; i < layers.length; i++) {\n map[layers[i].id] = layers[i];\n }\n\n for (let i = 0; i < layers.length; i++) {\n if ('ref' in layers[i]) {\n layers[i] = deref(layers[i], map[layers[i].ref]);\n }\n }\n\n return layers;\n}\n","// @flow\n\n/**\n * Deeply compares two object literals.\n *\n * @private\n */\nfunction deepEqual(a: ?mixed, b: ?mixed): boolean {\n if (Array.isArray(a)) {\n if (!Array.isArray(b) || a.length !== b.length) return false;\n for (let i = 0; i < a.length; i++) {\n if (!deepEqual(a[i], b[i])) return false;\n }\n return true;\n }\n if (typeof a === 'object' && a !== null && b !== null) {\n if (!(typeof b === 'object')) return false;\n const keys = Object.keys(a);\n if (keys.length !== Object.keys(b).length) return false;\n for (const key in a) {\n if (!deepEqual(a[key], b[key])) return false;\n }\n return true;\n }\n return a === b;\n}\n\nexport default deepEqual;\n","\nimport isEqual from './util/deep_equal';\n\nconst operations = {\n\n /*\n * { command: 'setStyle', args: [stylesheet] }\n */\n setStyle: 'setStyle',\n\n /*\n * { command: 'addLayer', args: [layer, 'beforeLayerId'] }\n */\n addLayer: 'addLayer',\n\n /*\n * { command: 'removeLayer', args: ['layerId'] }\n */\n removeLayer: 'removeLayer',\n\n /*\n * { command: 'setPaintProperty', args: ['layerId', 'prop', value] }\n */\n setPaintProperty: 'setPaintProperty',\n\n /*\n * { command: 'setLayoutProperty', args: ['layerId', 'prop', value] }\n */\n setLayoutProperty: 'setLayoutProperty',\n\n /*\n * { command: 'setFilter', args: ['layerId', filter] }\n */\n setFilter: 'setFilter',\n\n /*\n * { command: 'addSource', args: ['sourceId', source] }\n */\n addSource: 'addSource',\n\n /*\n * { command: 'removeSource', args: ['sourceId'] }\n */\n removeSource: 'removeSource',\n\n /*\n * { command: 'setGeoJSONSourceData', args: ['sourceId', data] }\n */\n setGeoJSONSourceData: 'setGeoJSONSourceData',\n\n /*\n * { command: 'setLayerZoomRange', args: ['layerId', 0, 22] }\n */\n setLayerZoomRange: 'setLayerZoomRange',\n\n /*\n * { command: 'setLayerProperty', args: ['layerId', 'prop', value] }\n */\n setLayerProperty: 'setLayerProperty',\n\n /*\n * { command: 'setCenter', args: [[lon, lat]] }\n */\n setCenter: 'setCenter',\n\n /*\n * { command: 'setZoom', args: [zoom] }\n */\n setZoom: 'setZoom',\n\n /*\n * { command: 'setBearing', args: [bearing] }\n */\n setBearing: 'setBearing',\n\n /*\n * { command: 'setPitch', args: [pitch] }\n */\n setPitch: 'setPitch',\n\n /*\n * { command: 'setSprite', args: ['spriteUrl'] }\n */\n setSprite: 'setSprite',\n\n /*\n * { command: 'setGlyphs', args: ['glyphsUrl'] }\n */\n setGlyphs: 'setGlyphs',\n\n /*\n * { command: 'setTransition', args:

[transition] }\n   */\n   setTransition: 'setTransition',\n\n   /*\n   * { command: 'setLighting', args: [lightProperties] }\n   */\n   setLight: 'setLight'\n\n};\n\nfunction addSource(sourceId, after, commands) {\n   commands.push({command: operations.addSource, args: [sourceId, after[sourceId]]});\n}\n\nfunction removeSource(sourceId, commands, sourcesRemoved) {\n   commands.push({command: operations.removeSource, args: [sourceId]});\n   sourcesRemoved[sourceId] = true;\n}\n\nfunction updateSource(sourceId, after, commands, sourcesRemoved) {\n   removeSource(sourceId, commands, sourcesRemoved);\n   addSource(sourceId, after, commands);\n}\n\nfunction canUpdateGeoJSON(before, after, sourceId) {\n   let prop;\n   for (prop in before[sourceId]) {\n   if (!before[sourceId].hasOwnProperty(prop)) continue;\n   if (prop !== 'data' && !isEqual(before[sourceId][prop], after[sourceId][prop])) {\n   return false;\n   }\n   }\n   for (prop in after[sourceId]) {\n   if (!after[sourceId].hasOwnProperty(prop)) continue;\n   if (prop !== 'data' && !isEqual(before[sourceId][prop], after[sourceId][prop])) {\n   return false;\n   }\n   }\n   return true;\n}\n\nfunction diffSources(before, after, commands, sourcesRemoved) {\n   before = before || {};\n   after = after || {};\n\n   let sourceId;\n\n   // look for sources to remove\n   for (sourceId in before) {\n   if (!before.hasOwnProperty(sourceId)) continue;\n   if (!after.hasOwnProperty(sourceId)) {\n   removeSource(sourceId, commands, sourcesRemoved);\n   }\n   }\n\n   // look for sources to add/update\n   for (sourceId in after) {\n   if (!after.hasOwnProperty(sourceId)) continue;\n   if (!before.hasOwnProperty(sourceId)) {\n   addSource(sourceId, after, commands);\n   } else if (!isEqual(before[sourceId], after[sourceId])) {\n   if (before[sourceId].type === 'geojson' && after[sourceId].type === 'geojson' && canUpdateGeoJSON(before, after, sourceId)) {\n   commands.push({command: operations.setGeoJSONSourceData, args: [sourceId, after[sourceId].data]});\n   } else {\n   // no update command, must remove then add\n   updateSource(sourceId, after, commands, sourcesRemoved);\n   }\n   }\n   }\n}\n\nfunction diffLayerPropertyChanges(before, after, commands, layerId, klass, command) {\n   before = before || {};\n   after = after || {};\n\n   let prop;\n\n   for (prop in before) {\n   if (!before.hasOwnProperty(prop)) continue;\n   if (!isEqual(before[prop], after[prop])) {\n   commands.push({command, args: [layerId, prop, after[prop], klass]});\n   }\n   }\n   for (prop in after) {\n   if (!after.hasOwnProperty(prop) || before.hasOwnProperty(prop)) continue;\n   if (!isEqual(before[prop], after[prop])) {\n   commands.push({command, args: [layerId, prop, after[prop], klass]});\n   }\n   }\n}\n\nfunction pluckId(layer) {\n   return layer.id;\n}\nfunction indexById(group, layer) {\n   group[layer.id] = layer;\n   return group;\n}\n\nfunction diffLayers(before, after, commands) {\n   before = before || [];\n   after = after || [];\n\n   // order of layers by id\n   const beforeOrder = before.map(pluckId);\n   const afterOrder = after.map(pluckId);\n\n   // index of layer by id\n   const beforeIndex = before.reduce(indexById, {});\n   const afterIndex = after.reduce(indexById, {});\n\n   // track order of layers as if they have been mutated\n   const tracker = beforeOrder.slice();\n\n   // layers that have been added do not need to be diffed\n   const clean = Object.create(null);\n\n   let i, d, layerId, beforeLayer, afterLayer, insertBeforeLayerId, prop;\n\n   // remove layers\n   for (i = 0, d = 0; i < beforeOrder.length; i++) {\n   layerId = beforeOrder[i];\n   if (!afterIndex.hasOwnProperty(layerId)) {\n   commands.push({command: operations.removeLayer, args: [layerId]});\n   tracker.splice(tracker.indexOf(layerId, d), 1);\n   } else {\n   // limit where in tracker we need to look for a match\n   d++;\n   }\n   }\n\n   // add/reorder layers\n   for (i = 0, d = 0; i < afterOrder.length; i++) {\n   // work backwards as insert is before an existing layer\n   layerId = afterOrder[afterOrder.length - 1 - i];\n\n   if (tracker[tracker.length - 1 - i] === layerId) continue;\n\n   if (beforeIndex.hasOwnProperty(layerId)) {\n   // remove the layer before we insert at the correct position\n   commands.push({command: operations.removeLayer, args: [layerId]});\n   tracker.splice(tracker.lastIndexOf(layerId, tracker.length - d), 1);\n   } else {\n   // limit where in tracker we need to look for a match\n   d++;\n   }\n\n   // add layer at correct position\n   insertBeforeLayerId = tracker[tracker.length - i];\n   commands.push({command: operations.addLayer, args: [afterIndex[layerId], insertBeforeLayerId]});\n   tracker.splice(tracker.length - i, 0, layerId);\n   clean[layerId] = true;\n   }\n\n   // update layers\n   for (i = 0; i < afterOrder.length; i++) {\n   layerId = afterOrder[i];\n   beforeLayer = beforeIndex[layerId];\n   afterLayer = afterIndex[layerId];\n\n   // no need to update if previously added (new or moved)\n if (clean[layerId] || isEqual(beforeLayer, afterLayer)) continue;\n\n // If source, source-layer, or type have changes, then remove the layer\n // and add it back 'from scratch'.\n if (!isEqual(beforeLayer.source, afterLayer.source) || !isEqual(beforeLayer['source-layer'], afterLayer['source-layer']) || !isEqual(beforeLayer.type, afterLayer.type)) {\n commands.push({command: operations.removeLayer, args: [layerId]});\n // we add the layer back at the same position it was already in, so\n // there's no need to update the `tracker`\n insertBeforeLayerId = tracker[tracker.lastIndexOf(layerId) + 1];\n commands.push({command: operations.addLayer, args: [afterLayer, insertBeforeLayerId]});\n continue;\n }\n\n // layout, paint, filter, minzoom, maxzoom\n diffLayerPropertyChanges(beforeLayer.layout, afterLayer.layout, commands, layerId, null, operations.setLayoutProperty);\n diffLayerPropertyChanges(beforeLayer.paint, afterLayer.paint, commands, layerId, null, operations.setPaintProperty);\n if (!isEqual(beforeLayer.filter, afterLayer.filter)) {\n commands.push({command: operations.setFilter, args: [layerId, afterLayer.filter]});\n }\n if (!isEqual(beforeLayer.minzoom, afterLayer.minzoom) || !isEqual(beforeLayer.maxzoom, afterLayer.maxzoom)) {\n commands.push({command: operations.setLayerZoomRange, args: [layerId, afterLayer.minzoom, afterLayer.maxzoom]});\n }\n\n // handle all other layer props, including paint.*\n for (prop in beforeLayer) {\n if (!beforeLayer.hasOwnProperty(prop)) continue;\n if (prop === 'layout' || prop === 'paint' || prop === 'filter' ||\n prop === 'metadata' || prop === 'minzoom' || prop === 'maxzoom') continue;\n if (prop.indexOf('paint.') === 0) {\n diffLayerPropertyChanges(beforeLayer[prop], afterLayer[prop], commands, layerId, prop.slice(6), operations.setPaintProperty);\n } else if (!isEqual(beforeLayer[prop], afterLayer[prop])) {\n commands.push({command: operations.setLayerProperty, args: [layerId, prop, afterLayer[prop]]});\n }\n }\n for (prop in afterLayer) {\n if (!afterLayer.hasOwnProperty(prop) || beforeLayer.hasOwnProperty(prop)) continue;\n if (prop === 'layout' || prop === 'paint' || prop === 'filter' ||\n prop === 'metadata' || prop === 'minzoom' || prop === 'maxzoom') continue;\n if (prop.indexOf('paint.') === 0) {\n diffLayerPropertyChanges(beforeLayer[prop], afterLayer[prop], commands, layerId, prop.slice(6), operations.setPaintProperty);\n } else if (!isEqual(beforeLayer[prop], afterLayer[prop])) {\n commands.push({command: operations.setLayerProperty, args: [layerId, prop, afterLayer[prop]]});\n }\n }\n }\n}\n\n/**\n * Diff two stylesheet\n *\n * Creates semanticly aware diffs that can easily be applied at runtime.\n * Operations produced by the diff closely resemble the mapbox-gl-js API. Any\n * error creating the diff will fall back to the 'setStyle' operation.\n *\n * Example diff:\n * [\n * { command: 'setConstant', args: ['@water', '#0000FF'] },\n * { command: 'setPaintProperty', args: ['background', 'background-color', 'black'] }\n *]\n *\n * @private\n * @param {*} [before] stylesheet to compare from\n * @param {*} after stylesheet to compare to\n * @returns Array list of changes\n */\nfunction diffStyles(before, after) {\n if (!before) return [{command: operations.setStyle, args: [after]}];\n\n let commands = [];\n\n try {\n // Handle changes to top-level properties\n if (!isEqual(before.version, after.version)) {\n return [{command: operations.setStyle, args: [after]}];\n }\n if (!isEqual(before.center, after.center)) {\n commands.push({command: operations.setCenter, args: [after.center]});\n }\n if (!isEqual(before.zoom, after.zoom)) {\n commands.push({command: operations.setZoom, args: [after.zoom]});\n }\n if (!isEqual(before.bearing, after.bearing)) {\n commands.push({command: operations.setBearing, args: [after.bearing]});\n }\n if (!isEqual(before.pitch, after.pitch)) {\n commands.push({command: operations.setPitch, args: [after.pitch]});\n }\n if (!isEqual(before.sprite, after.sprite)) {\n commands.push({command: operations.setSprite, args: [after.sprite]});\n }\n if (!isEqual(before.glyphs, after.glyphs)) {\n commands.push({command: operations.setGlyphs, args: [after.glyphs]});\n }\n if (!isEqual(before.transition, after.transition)) {\n commands.push({command: operations.setTransition, args: [after.transition]});\n }\n if (!isEqual(before.light, after.light)) {\n commands.push({command: operations.setLight, args: [after.light]});\n }\n\n // Handle changes to `sources`\n // If a source is to be removed, we also--before the removeSource\n // command--need to remove all the style layers that depend on it.\n const sourcesRemoved = {};\n\n // First collect the {add,remove}Source commands\n const removeOrAddSourceCommands = [];\n diffSources(before.sources, after.sources, removeOrAddSourceCommands, sourcesRemoved);\n\n // Push a removeLayer command for each style layer that depends on a\n // source that's being removed.\n // Also, exclude any such layers them from the input to `diffLayers`\n // below, so that diffLayers produces the appropriate `addLayers`\n // command\n const beforeLayers = [];\n if (before.layers) {\n before.layers.forEach((layer) => {\n if (sourcesRemoved[layer.source]) {\n commands.push({command: operations.removeLayer, args: [layer.id]});\n } else {\n beforeLayers.push(layer);\n }\n });\n }\n commands = commands.concat(removeOrAddSourceCommands);\n\n // Handle changes to `layers`\n diffLayers(beforeLayers, after.layers, commands);\n\n } catch (e) {\n // fall back to setStyle\n console.warn('Unable to compute style diff:', e);\n commands = [{command: operations.setStyle, args: [after]}];\n }\n\n return commands;\n}\n\nexport default diffStyles;\nexport {operations};\n","// @flow\n\n// Note: Do not inherit from Error. It breaks when transpiling to ES5.\n\nexport default class ValidationError {\n message: string;\n identifier: ?string;\n line: ?number;\n\n constructor(key: ?string, value: ?{ __line__: number }, message: string, identifier: ?string) {\n this.message = (key ? `${key}: ` : '') + message;\n if (identifier) this.identifier = identifier;\n\n if (value !== null && value !== undefined && value.__line__) {\n this.line = value.__line__;\n }\n }\n}\n","// @flow\n\n// Note: Do not inherit from Error. It breaks when transpiling to ES5.\n\nexport default class ParsingError {\n message: string;\n error: Error;\n line: number;\n\n constructor(error: Error) {\n this.error = error;\n this.message = error.message;\n const match = error.message.match(/line (\\d+)/);\n this.line = match ? parseInt(match[1], 10) : 0;\n }\n}\n","\nimport ValidationError from '../error/validation_error';\n\nexport default function validateConstants(options) {\n const key = options.key;\n const constants = options.value;\n\n if (constants) {\n return [new ValidationError(key, constants, 'constants have been deprecated as of v8')];\n } else {\n return [];\n }\n}\n","// @flow\n\n// Turn jsonlint-lines-primitives objects into primitive objects\nexport function unbundle(value: mixed) {\n if (value instanceof Number || value instanceof String || value instanceof Boolean) {\n return value.valueOf();\n } else {\n return value;\n }\n}\n\nexport function deepUnbundle(value: mixed): mixed {\n if (Array.isArray(value)) {\n return value.map(deepUnbundle);\n } else if (value instanceof Object && !(value instanceof Number || value instanceof String || value instanceof Boolean)) {\n const unbundledValue: { [key: string]: mixed } = {};\n for (const key in value) {\n unbundledValue[key] = deepUnbundle(value[key]);\n }\n return unbundledValue;\n }\n\n return unbundle(value);\n}\n","\nimport ValidationError from '../error/validation_error';\nimport getType from '../util/get_type';\nimport validateSpec from './validate';\n\nexport default function validateObject(options) {\n const key = options.key;\n const object = options.value;\n const elementSpecs = options.valueSpec || {};\n const elementValidators = options.objectElementValidators || {};\n const style = options.style;\n const styleSpec = options.styleSpec;\n let errors = [];\n\n const type = getType(object);\n if (type !== 'object') {\n return [new ValidationError(key, object, `object expected, ${type} found`)];\n }\n\n for (const objectKey in object) {\n const elementSpecKey = objectKey.split('.')[0]; // treat 'paint.*' as 'paint'\n const elementSpec = elementSpecs[elementSpecKey] || elementSpecs['*'];\n\n let validateElement;\n if (elementValidators[elementSpecKey]) {\n validateElement = elementValidators[elementSpecKey];\n } else if (elementSpecs[elementSpecKey]) {\n validateElement = validateSpec;\n } else if (elementValidators['*']) {\n validateElement = elementValidators['*'];\n } else if (elementSpecs['*']) {\n validateElement = validateSpec;\n } else {\n errors.push(new ValidationError(key, object[objectKey], `unknown property \"${objectKey}\"`));\n continue;\n }\n\n errors = errors.concat(validateElement({\n key: (key ? `${key}.` : key) + objectKey,\n value: object[objectKey],\n valueSpec: elementSpec,\n style,\n styleSpec,\n object,\n objectKey\n }, object));\n }\n\n for (const elementSpecKey in elementSpecs) {\n // Don't check `required` when there's a custom validator for that property.\n if (elementValidators[elementSpecKey]) {\n continue;\n }\n\n if (elementSpecs[elementSpecKey].required && elementSpecs[elementSpecKey]['default'] === undefined && object[elementSpecKey] === undefined) {\n

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errors.push(new ValidationError(key, object, `missing required property \"${elementSpecKey}\"`));\n        }\n
}\n\n    return errors;\n}\n","\nimport getType from '../util/get_type';\nimport validate from './validate';\nimport
ValidationError from '../error/validation_error';\n\nexport default function validateArray(options) {\n    const array =
options.value;\n    const arraySpec = options.valueSpec;\n    const style = options.style;\n    const styleSpec =
options.styleSpec;\n    const key = options.key;\n    const validateArrayElement = options.arrayElementValidator ||
validate;\n\n    if (getType(array) !== 'array') {\n        return [new ValidationError(key, array, `array expected,
${getType(array)} found`)];\n    }\n\n    if (arraySpec.length && array.length !== arraySpec.length) {\n        return
[new ValidationError(key, array, `array length ${arraySpec.length} expected, length ${array.length} found`)];\n
}\n\n    if (arraySpec['min-length'] && array.length < arraySpec['min-length']) {\n        return [new
ValidationError(key, array, `array length at least ${arraySpec['min-length']} expected, length ${array.length}
found`)];\n    }\n\n    let arrayElementSpec = {\n        \"type\": arraySpec.value,\n        \"values\": arraySpec.values\n
 };\n\n    if (styleSpec.$version < 7) {\n        arrayElementSpec.function = arraySpec.function;\n    }\n\n    if
(getType(arraySpec.value) === 'object') {\n        arrayElementSpec = arraySpec.value;\n    }\n\n    let errors = [];\n
for (let i = 0; i < array.length; i++) {\n        errors = errors.concat(validateArrayElement({\n            array,\n
arrayIndex: i,\n            value: array[i],\n            valueSpec: arrayElementSpec,\n            style,\n            styleSpec,\n
      key: `${key}[${i}]`\n        }));\n    }\n    return errors;\n}\n","\nimport getType from '../util/get_type';\nimport
ValidationError from '../error/validation_error';\n\nexport default function validateNumber(options) {\n    const key
= options.key;\n    const value = options.value;\n    const valueSpec = options.valueSpec;\n    let type =
getType(value);\n\n    // eslint-disable-next-line no-self-compare\n    if (type === 'number' && value !== value) {\n
    type = 'NaN';\n    }\n\n    if (type !== 'number') {\n        return [new ValidationError(key, value, `number
expected, ${type} found`)];\n    }\n\n    if ('minimum' in valueSpec && value < valueSpec.minimum) {\n        return
[new ValidationError(key, value, `${value} is less than the minimum value ${valueSpec.minimum}`)];\n    }\n\n
if ('maximum' in valueSpec && value > valueSpec.maximum) {\n        return [new ValidationError(key, value,
`${value} is greater than the maximum value ${valueSpec.maximum}`)];\n    }\n\n    return [];\n}\n","\nimport
ValidationError from '../error/validation_error';\nimport getType from '../util/get_type';\nimport validate from
'./validate';\nimport validateObject from './validate_object';\nimport validateArray from './validate_array';\nimport
validateNumber from './validate_number';\nimport {isExpression} from '../expression';\nimport {unbundle,
deepUnbundle} from '../util/unbundle_jsonlint';\nimport {\n    supportsPropertyExpression,\n
supportsZoomExpression,\n    supportsInterpolation\n} from '../util/properties';\n\nexport default function
validateFunction(options) {\n    const functionValueSpec = options.valueSpec;\n    const functionType =
unbundle(options.value.type);\n    let stopKeyType;\n    let stopDomainValues = {};\n    let
previousStopDomainValue;\n    let previousStopDomainZoom;\n\n    const isZoomFunction = functionType !==
'categorical' && options.value.property === undefined;\n    const isPropertyFunction = !isZoomFunction;\n    const
isZoomAndPropertyFunction =\n        getType(options.value.stops) === 'array' &&\n
getType(options.value.stops[0]) === 'array' &&\n        getType(options.value.stops[0][0]) === 'object';\n\n    const
errors = validateObject({\n        key: options.key,\n        value: options.value,\n        valueSpec:
options.styleSpec.function,\n        style: options.style,\n        styleSpec: options.styleSpec,\n
objectElementValidators: {\n            stops: validateFunctionStops,\n            default: validateFunctionDefault\n
}\n    });\n\n    if (functionType === 'identity' && isZoomFunction) {\n        errors.push(new
ValidationError(options.key, options.value, 'missing required property \"property\"'));\n    }\n\n    if (functionType
!== 'identity' && !options.value.stops) {\n        errors.push(new ValidationError(options.key, options.value, 'missing
required property \"stops\"'));\n    }\n\n    if (functionType === 'exponential' && options.valueSpec.expression &&
!supportsInterpolation(options.valueSpec)) {\n        errors.push(new ValidationError(options.key, options.value,
'exponential functions not supported'));\n    }\n\n    if (options.styleSpec.$version >= 8) {\n        if
(isPropertyFunction && !supportsPropertyExpression(options.valueSpec)) {\n            errors.push(new
ValidationError(options.key, options.value, 'property functions not supported'));\n        } else if (isZoomFunction
&& !supportsZoomExpression(options.valueSpec)) {\n            errors.push(new ValidationError(options.key,
options.value, 'zoom functions not supported'));\n        }\n    }\n\n    if ((functionType === 'categorical' ||
isZoomAndPropertyFunction) && options.value.property === undefined) {\n        errors.push(new
ValidationError(options.key, options.value, '\"property\" property is required'));\n    }\n\n    return errors;\n\n
function validateFunctionStops(options) {\n        if (functionType === 'identity') {\n            return [new
ValidationError(options.key, options.value, 'identity function may not have a \"stops\" property')];\n        }\n\n
let errors = [];\n        const value = options.value;\n\n        errors = errors.concat(validateArray({\n            key:
options.key,\n            value,\n            valueSpec: options.valueSpec,\n            style: options.style,\n            styleSpec:
options.styleSpec,\n            arrayElementValidator: validateFunctionStop\n        }));\n\n        if (getType(value) ===
'array' && value.length === 0) {\n            errors.push(new ValidationError(options.key, value, 'array must have at
least one stop'));\n        }\n\n        return errors;\n    }\n\n    function validateFunctionStop(options) {\n        let errors
= [];\n        const value = options.value;\n        const key = options.key;\n\n        if (getType(value) !== 'array') {\n
    return [new ValidationError(key, value, `array expected, ${getType(value)} found`)];\n        }\n\n        if
(value.length !== 2) {\n            return [new ValidationError(key, value, `array length 2 expected, length
${value.length} found`)];\n        }\n\n        if (isZoomAndPropertyFunction) {\n            if (getType(value[0]) !==
'object') {\n                return [new ValidationError(key, value, `object expected, ${getType(value[0])} found`)];\n
   }\n            if (value[0].zoom === undefined) {\n                return [new ValidationError(key, value, 'object stop key
must have zoom')];\n            }\n            if (value[0].value === undefined) {\n                return [new
ValidationError(key, value, 'object stop key must have value')];\n            }\n            if (previousStopDomainZoom
&& previousStopDomainZoom > unbundle(value[0].zoom)) {\n                return [new ValidationError(key,
value[0].zoom, 'stop zoom values must appear in ascending order')];\n            }\n            if (unbundle(value[0].zoom)
!== previousStopDomainZoom) {\n                previousStopDomainZoom = unbundle(value[0].zoom);\n
previousStopDomainValue = undefined;\n                stopDomainValues = {};\n            }\n            errors =
errors.concat(validateObject({\n                key: `${key}[0]`,\n                value: value[0],\n                valueSpec:
{zoom: {}},\n                style: options.style,\n                styleSpec: options.styleSpec,\n
objectElementValidators: {zoom: validateNumber, value: validateStopDomainValue}\n            }));\n        } else {\n
      errors = errors.concat(validateStopDomainValue({\n                key: `${key}[0]`,\n                value: value[0],\n
         valueSpec: {},\n                style: options.style,\n                styleSpec: options.styleSpec\n            }, value));\n
  }\n\n        if (isExpression(deepUnbundle(value[1]))) {\n            return errors.concat([new
ValidationError(`${key}[1]`, value[1], 'expressions are not allowed in function stops.')]);\n        }\n\n        return
errors.concat(validate({\n            key: `${key}[1]`,\n            value: value[1],\n            valueSpec:
functionValueSpec,\n            style: options.style,\n            styleSpec: options.styleSpec\n        }));\n    }\n\n
function validateStopDomainValue(options, stop) {\n        const type = getType(options.value);\n        const value =
unbundle(options.value);\n\n        const reportValue = options.value !== null ? options.value : stop;\n\n        if
(!stopKeyType) {\n            stopKeyType = type;\n        } else if (type !== stopKeyType) {\n            return [new
ValidationError(options.key, reportValue, `${type} stop domain type must match previous stop domain type
${stopKeyType}`)];\n        }\n\n        if (type !== 'number' && type !== 'string' && type !== 'boolean') {\n
return [new ValidationError(options.key, reportValue, 'stop domain value must be a number, string, or boolean')];\n
   }\n\n        if (type !== 'number' && functionType !== 'categorical') {\n            let message = `number expected,
${type} found`;\n            if (supportsPropertyExpression(functionValueSpec) && functionType === undefined) {\n
         message += '\\nIf you intended to use a categorical function, specify `\"type\": \"categorical\"`.';\n            }\n
        return [new ValidationError(options.key, reportValue, message)];\n        }\n\n        if (functionType ===
'categorical' && type === 'number' && (!isFinite(value) || Math.floor(value) !== value)) {\n            return [new
ValidationError(options.key, reportValue, `integer expected, found ${value}`)];\n        }\n\n        if (functionType
!== 'categorical' && type === 'number' && previousStopDomainValue !== undefined && value <
previousStopDomainValue) {\n            return [new ValidationError(options.key, reportValue, 'stop domain values
must appear in ascending order')];\n        } else {\n            previousStopDomainValue = value;\n        }\n\n        if
(functionType === 'categorical' && value in stopDomainValues) {\n            return [new
ValidationError(options.key, reportValue, 'stop domain values must be unique')];\n        } else {\n
stopDomainValues[value] = true;\n        }\n\n        return [];\n    }\n\n    function validateFunctionDefault(options)
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{\n   return validate({\n   key: options.key,\n   value: options.value,\n   valueSpec: functionValueSpec,\n   style: options.style,\n   styleSpec: options.styleSpec\n   });\n }\n}\n","// @flow\n\nimport ValidationError from '../error/validation_error';\n\nimport {createExpression, createPropertyExpression} from '../expression';\nimport {deepUnbundle} from '../util/unbundle_jsonlint';\nimport {isStateConstant, isGlobalPropertyConstant, isFeatureConstant} from '../expression/is_constant';\n\nexport default function validateExpression(options: any): Array<ValidationError> {\n const expression = (options.expressionContext === 'property' ? createPropertyExpression : createExpression)(deepUnbundle(options.value), options.valueSpec);\n if (expression.result === 'error') {\n   return expression.value.map((error) => {\n   return new ValidationError(`${options.key}${error.key}`, options.value, error.message);\n   });\n }\n\n const expressionObj = (expression.value: any).expression || (expression.value: any)._styleExpression.expression;\n\n if (options.expressionContext === 'property' && (options.propertyKey === 'text-font') &&\n   !expressionObj.outputDefined()) {\n   return [new ValidationError(options.key, options.value, `Invalid data expression for \"${options.propertyKey}\". Output values must be contained as literals within the expression.`)];\n }\n\n if (options.expressionContext === 'property' && options.propertyType === 'layout' &&\n   (!isStateConstant(expressionObj))) {\n   return [new ValidationError(options.key, options.value, '\"feature-state\" data expressions are not supported with layout properties.')];\n }\n\n if (options.expressionContext === 'filter' && !isStateConstant(expressionObj)) {\n   return [new ValidationError(options.key, options.value, '\"feature-state\" data expressions are not supported with filters.')];\n }\n\n if (options.expressionContext && options.expressionContext.indexOf('cluster') === 0) {\n   if (!isGlobalPropertyConstant(expressionObj, ['zoom', 'feature-state'])) {\n   return [new ValidationError(options.key, options.value, '\"zoom\" and \"feature-state\" expressions are not supported with cluster properties.')];\n   }\n   if (options.expressionContext === 'cluster-initial' && !isFeatureConstant(expressionObj)) {\n   return [new ValidationError(options.key, options.value, 'Feature data expressions are not supported with initial expression part of cluster properties.')];\n   }\n }\n\n return [];\n}\n","\nimport getType from '../util/get_type';\nimport ValidationError from '../error/validation_error';\n\nexport default function validateBoolean(options) {\n const value = options.value;\n const key = options.key;\n const type = getType(value);\n\n if (type !== 'boolean') {\n   return [new ValidationError(key, value, `boolean expected, ${type} found`)];\n }\n\n return [];\n}\n","\nimport ValidationError from '../error/validation_error';\nimport getType from '../util/get_type';\nimport {parseCSSColor} from 'csscolorparser';\n\nexport default function validateColor(options) {\n const key = options.key;\n const value = options.value;\n const type = getType(value);\n\n if (type !== 'string') {\n   return [new ValidationError(key, value, `color expected, ${type} found`)];\n }\n\n if (parseCSSColor(value) === null) {\n   return [new ValidationError(key, value, `color expected, \"${value}\" found`)];\n }\n\n return [];\n}\n","\nimport ValidationError from '../error/validation_error';\nimport {unbundle} from '../util/unbundle_jsonlint';\n\nexport default function validateEnum(options) {\n const key = options.key;\n const value = options.value;\n const valueSpec = options.valueSpec;\n const errors = [];\n\n if (Array.isArray(valueSpec.values)) { // <=v7\n   if (valueSpec.values.indexOf(unbundle(value)) === -1) {\n   errors.push(new ValidationError(key, value, `expected one of [${valueSpec.values.join(', ')}], ${JSON.stringify(value)} found`));\n   }\n } else { // >=v8\n   if (Object.keys(valueSpec.values).indexOf(unbundle(value)) === -1) {\n   errors.push(new ValidationError(key, value, `expected one of [${Object.keys(valueSpec.values).join(', ')}], ${JSON.stringify(value)} found`));\n   }\n }\n return errors;\n}\n","\nimport ValidationError from '../error/validation_error';\nimport validateExpression from './validate_expression';\nimport validateEnum from './validate_enum';\nimport getType from '../util/get_type';\nimport {unbundle, deepUnbundle} from '../util/unbundle_jsonlint';\nimport extend from '../util/extend';\nimport {isExpressionFilter} from '../feature_filter';\n\nexport default function validateFilter(options) {\n if (isExpressionFilter(deepUnbundle(options.value))) {\n   return validateExpression(extend({}, options, {\n   expressionContext: 'filter',\n   valueSpec: {value: 'boolean'}\n   }));\n } else {\n   return validateNonExpressionFilter(options);\n }\n}\n\nfunction validateNonExpressionFilter(options) {\n const value = options.value;\n const key = options.key;\n\n if (getType(value) !== 'array') {\n   return [new

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

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

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ValidationError(key, value, `string expected, ${type} found`)];\n    }\n\n    return [];\n}\n","\nimport ValidationError
from '../error/validation_error';\nimport {unbundle} from '../util/unbundle_jsonlint';\nimport validateObject from
'./validate_object';\nimport validateEnum from './validate_enum';\nimport validateExpression from
'./validate_expression';\nimport validateString from './validate_string';\nimport getType from
'../util/get_type';\n\nconst objectElementValidators = {\n    promoteId: validatePromoteId\n};\n\nexport default
function validateSource(options) {\n    const value = options.value;\n    const key = options.key;\n    const styleSpec
= options.styleSpec;\n    const style = options.style;\n\n    if (!value.type) {\n        return [new ValidationError(key,
value, '\"type\" is required')];\n    }\n\n    const type = unbundle(value.type);\n    let errors;\n\n    switch (type) {\n
case 'vector':\n    case 'raster':\n    case 'raster-dem':\n        errors = validateObject({\n            key,\n            value,\n
      valueSpec: styleSpec[`source_${type.replace('-', '_')}`],\n            style: options.style,\n            styleSpec,\n
objectElementValidators\n        });\n        return errors;\n\n    case 'geojson':\n        errors = validateObject({\n
key,\n            value,\n            valueSpec: styleSpec.source_geojson,\n            style,\n            styleSpec,\n
objectElementValidators\n        });\n        if (value.cluster) {\n            for (const prop in value.clusterProperties) {\n
          const [operator, mapExpr] = value.clusterProperties[prop];\n                const reduceExpr = typeof operator
=== 'string' ? [operator, ['accumulated'], ['get', prop]] : operator;\n\n                errors.push(...validateExpression({\n
              key: `${key}.${prop}.map`,\n                    value: mapExpr,\n                    expressionContext: 'cluster-
map'\n                }));\n                errors.push(...validateExpression({\n                    key: `${key}.${prop}.reduce`,\n
             value: reduceExpr,\n                    expressionContext: 'cluster-reduce'\n                }));\n            }\n        }\n
 return errors;\n\n    case 'video':\n        return validateObject({\n            key,\n            value,\n            valueSpec:
styleSpec.source_video,\n            style,\n            styleSpec\n        });\n\n    case 'image':\n        return
validateObject({\n            key,\n            value,\n            valueSpec: styleSpec.source_image,\n            style,\n
styleSpec\n        });\n\n    case 'canvas':\n        return [new ValidationError(key, null, `Please use runtime APIs to add
canvas sources, rather than including them in stylesheets.`, 'source.canvas')];\n\n    default:\n        return
validateEnum({\n            key: `${key}.type`,\n            value: value.type,\n            valueSpec: {values: ['vector',
'raster', 'raster-dem', 'geojson', 'video', 'image']},\n            style,\n            styleSpec\n        });\n    }\n}\n\nfunction
validatePromoteId({key, value}) {\n    if (getType(value) === 'string') {\n        return validateString({key, value});\n
  } else {\n        const errors = [];\n        for (const prop in value) {\n            errors.push(...validateString({key:
`${key}.${prop}`, value: value[prop]}));\n        }\n        return errors;\n    }\n}\n","\nimport ValidationError from
'../error/validation_error';\nimport getType from '../util/get_type';\nimport validate from './validate';\n\nexport default
function validateLight(options) {\n    const light = options.value;\n    const styleSpec = options.styleSpec;\n    const
lightSpec = styleSpec.light;\n    const style = options.style;\n\n    let errors = [];\n\n    const rootType =
getType(light);\n    if (light === undefined) {\n        return errors;\n    } else if (rootType !== 'object') {\n        errors
= errors.concat([new ValidationError('light', light, `object expected, ${rootType} found`)]);\n        return errors;\n
}\n\n    for (const key in light) {\n        const transitionMatch = key.match(/^(.*)-transition$/);\n\n        if
(transitionMatch && lightSpec[transitionMatch[1]] && lightSpec[transitionMatch[1]].transition) {\n            errors =
errors.concat(validate({\n                key,\n                value: light[key],\n                valueSpec: styleSpec.transition,\n
          style,\n                styleSpec\n            }));\n        } else if (lightSpec[key]) {\n            errors =
errors.concat(validate({\n                key,\n                value: light[key],\n                valueSpec: lightSpec[key],\n
   style,\n                styleSpec\n            }));\n        } else {\n            errors = errors.concat([new ValidationError(key,
light[key], `unknown property \"${key}\"`)]);\n        }\n    }\n\n    return errors;\n}\n","// @flow\nimport
validateExpression from './validate_expression';\nimport validateString from './validate_string';\n\nexport default
function validateFormatted(options: any) {\n    if (validateString(options).length === 0) {\n        return [];\n    }\n\n
return validateExpression(options);\n}\n","// @flow\nimport validateExpression from
'./validate_expression';\nimport validateString from './validate_string';\n\nexport default function
validateImage(options: any) {\n    if (validateString(options).length === 0) {\n        return [];\n    }\n\n    return
validateExpression(options);\n}\n","\nimport extend from '../util/extend';\nimport {unbundle, deepUnbundle} from
'../util/unbundle_jsonlint';\nimport {isExpression} from '../expression';\nimport {isFunction} from
'../function';\n\nimport validateFunction from './validate_function';\nimport validateExpression from
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'./validate_expression';\nimport validateObject from './validate_object';\nimport validateArray from './validate_array';\nimport validateBoolean from './validate_boolean';\nimport validateNumber from './validate_number';\nimport validateColor from './validate_color';\nimport validateConstants from './validate_constants';\nimport validateEnum from './validate_enum';\nimport validateFilter from './validate_filter';\nimport validateLayer from './validate_layer';\nimport validateSource from './validate_source';\nimport validateLight from './validate_light';\nimport validateString from './validate_string';\nimport validateFormatted from './validate_formatted';\nimport validateImage from './validate_image';\n\nconst VALIDATORS = {\n '*'() {\n return [];\n },\n 'array': validateArray,\n 'boolean': validateBoolean,\n 'number': validateNumber,\n 'color': validateColor,\n 'constants': validateConstants,\n 'enum': validateEnum,\n 'filter': validateFilter,\n 'function': validateFunction,\n 'layer': validateLayer,\n 'object': validateObject,\n 'source': validateSource,\n 'light': validateLight,\n 'string': validateString,\n 'formatted': validateFormatted,\n 'resolvedImage': validateImage\n};\n\n// Main recursive validation function. Tracks:\n//\n// - key: string representing location of validation in style tree. Used only\n// for more informative error reporting.\n// - value: current value from style being evaluated. May be anything from a\n// high level object that needs to be descended into deeper or a simple\n// scalar value.\n// - valueSpec: current spec being evaluated. Tracks value.\n// - styleSpec: current full spec being evaluated.\n\nexport default function validate(options) {\n const value = options.value;\n const valueSpec = options.valueSpec;\n const styleSpec = options.styleSpec;\n\n if (valueSpec.expression && isFunction(unbundle(value))) {\n return validateFunction(options);\n\n } else if (valueSpec.expression && isExpression(deepUnbundle(value))) {\n return validateExpression(options);\n\n } else if (valueSpec.type && VALIDATORS[valueSpec.type]) {\n return VALIDATORS[valueSpec.type](options);\n\n } else {\n const valid = validateObject(extend({}, options, {\n valueSpec: valueSpec.type ? styleSpec[valueSpec.type] : valueSpec\n }));\n return valid;\n }\n}\n","\nimport ValidationError from '../error/validation_error';\nimport validateString from './validate_string';\n\nexport default function(options) {\n const value = options.value;\n const key = options.key;\n\n const errors = validateString(options);\n if (errors.length) return errors;\n\n if (value.indexOf('{fontstack}') === -1) {\n errors.push(new ValidationError(key, value, '\"glyphs\" url must include a \"{fontstack}\" token'));\n }\n\n if (value.indexOf('{range}') === -1) {\n errors.push(new ValidationError(key, value, '\"glyphs\" url must include a \"{range}\" token'));\n }\n\n return errors;\n}\n","\nimport validateConstants from './validate/validate_constants';\nimport validate from './validate/validate';\nimport latestStyleSpec from './reference/latest';\nimport validateGlyphsURL from './validate/validate_glyphs_url';\n\nimport validateSource from './validate/validate_source';\nimport validateLight from './validate/validate_light';\nimport validateLayer from './validate/validate_layer';\nimport validateFilter from './validate/validate_filter';\nimport validatePaintProperty from './validate/validate_paint_property';\nimport validateLayoutProperty from './validate/validate_layout_property';\n\n/**\n * Validate a Mapbox GL style against the style specification. This entrypoint,\n * `mapbox-gl-style-spec/lib/validate_style.min`, is designed to produce as\n * small a browserify bundle as possible by omitting unnecessary functionality\n * and legacy style specifications.\n *\n * @private\n * @param {Object} style The style to be validated.\n * @param {Object} [styleSpec] The style specification to validate against.\n * If omitted, the latest style spec is used.\n * @returns {Array<ValidationError>}\n * @example\n * var validate = require('mapbox-gl-style-spec/lib/validate_style.min');\n * var errors = validate(style);\n */\nfunction validateStyleMin(style, styleSpec = latestStyleSpec) {\n\n let errors = [];\n\n errors = errors.concat(validate({\n key: '',\n value: style,\n valueSpec: styleSpec.$root,\n styleSpec,\n style,\n objectElementValidators: {\n glyphs: validateGlyphsURL,\n '*'() {\n return [];\n }\n }\n }));\n\n if (style.constants) {\n errors = errors.concat(validateConstants({\n key: 'constants',\n value: style.constants,\n style,\n styleSpec\n }));\n }\n\n return sortErrors(errors);\n}\n\nvalidateStyleMin.source = wrapCleanErrors(validateSource);\nvalidateStyleMin.light = wrapCleanErrors(validateLight);\nvalidateStyleMin.layer = wrapCleanErrors(validateLayer);\nvalidateStyleMin.filter =

wrapCleanErrors(validateFilter);\nvalidateStyleMin.paintProperty = wrapCleanErrors(validatePaintProperty);\nvalidateStyleMin.layoutProperty = wrapCleanErrors(validateLayoutProperty);\n\nfunction sortErrors(errors) {\n   return [].concat(errors).sort((a, b) => {\n   return a.line - b.line;\n   });\n}\n\nfunction wrapCleanErrors(inner) {\n   return function(...args) {\n   return sortErrors(inner.apply(this, args));\n   };\n}\n\nexport default validateStyleMin;\n","/* parser generated by jison 0.4.15 */\n/*\n Returns a Parser object of the following structure:\n\n Parser: {\n   yy: {}\n }\n\n Parser.prototype: {\n   yy: {},\n   trace: function(),\n   symbols_: {associative list: name ==> number},\n   terminals_: {associative list: number ==> name},\n   productions_: [...],\n   performAction: function anonymous(yytext, yyleng, yylineno, yy, yystate, $$, _$),\n   table: [...],\n   defaultActions: {...},\n   parseError: function(str, hash),\n   parse: function(input),\n\n   lexer: {\n   EOF: 1,\n   parseError: function(str, hash),\n   setInput: function(input),\n   input: function(),\n   unput: function(str),\n   more: function(),\n   less: function(n),\n   pastInput: function(),\n   upcomingInput: function(),\n   showPosition: function(),\n   test_match: function(regex_match_array, rule_index),\n   next: function(),\n   lex: function(),\n   begin: function(condition),\n   popState: function(),\n   _currentRules: function(),\n   topState: function(),\n   pushState: function(condition),\n\n   options: {\n   ranges: boolean   (optional: true ==> token location info will include a .range[] member)\n   flex: boolean   (optional: true ==> flex-like lexing behaviour where the rules are tested exhaustively to find the longest match)\n   backtrack_lexer: boolean (optional: true ==> lexer regexes are tested in order and for each matching regex the action code is invoked; the lexer terminates the scan when a token is returned by the action code)\n   },\n\n   performAction: function(yy, yy_, $avoiding_name_collisions, YY_START),\n   rules: [...],\n   conditions: {associative list: name ==> set},\n   }\n }\n\n\n token location info (@$, _$, etc.): {\n   first_line: n,\n   last_line: n,\n   first_column: n,\n   last_column: n,\n   range: [start_number, end_number]   (where the numbers are indexes into the input string, regular zero-based)\n }\n\n\n the parseError function receives a 'hash' object with these members for lexer and parser errors: {\n   text: (matched text)\n   token: (the produced terminal token, if any)\n   line: (yylineno)\n }\n while parser (grammar) errors will also provide these members, i.e. parser errors deliver a superset of attributes: {\n   loc: (yylloc)\n   expected: (string describing the set of expected tokens)\n   recoverable: (boolean: TRUE when the parser has a error recovery rule available for this particular error)\n }\n*/\nvar parser = (function(){\nvar o=function(k,v,o,l){for(o=o||{},l=k.length;l--;o[k[l]]=v);return o},$V0=[1,12],$V1=[1,13],$V2=[1,9],$V3=[1,10],$V4=[1,11],$V5=[1,14],$V6=[1,15],$V7=[14,18,22,24],$V8=[18,22],$V9=[22,24];\nvar parser = {trace: function trace() { },\nyy: {},\nsymbols_: {\"error\":2,\"JSONString\":3,\"STRING\":4,\"JSONNumber\":5,\"NUMBER\":6,\"JSONNullLiteral\":7,\"NULL\":8,\"JSONBooleanLiteral\":9,\"TRUE\":10,\"FALSE\":11,\"JSONText\":12,\"JSONValue\":13,\"EOF\":14,\"JSONObject\":15,\"JSONArray\":16,\"{\":17,\"}\":18,\"JSONMemberList\":19,\"JSONMember\":20,\":\":21,\",\":22,\"[\":23,\"]\":24,\"JSONElementList\":25,\"$accept\":0,\"$end\":1},\nterminals_: {2:\"error\",4:\"STRING\",6:\"NUMBER\",8:\"NULL\",10:\"TRUE\",11:\"FALSE\",14:\"EOF\",17:\"{\",18:\"}\",21:\":\",22:\",\",23:\"[\",24:\"]\"},\nproductions_: [0,[3,1],[5,1],[7,1],[9,1],[9,1],[12,2],[13,1],[13,1],[13,1],[13,1],[13,1],[13,1],[15,2],[15,3],[20,3],[19,1],[19,3],[16,2],[16,3],[25,1],[25,3]],\nperformAction: function anonymous(yytext, yyleng, yylineno, yy, yystate /* action[1] */, $$ /* vstack */, _$ /* lstack */) {\n/* this == yyval */\n\nvar $0 = $$.length - 1;\nswitch (yystate) {\ncase 1:\n // replace escaped characters with actual character\n   this.$ = new String(yytext.replace(/\\\\(\\\\|\")/g, \"$\"+\"1\")\n   .replace(/\\\\n/g,'\\n')\n   .replace(/\\\\r/g,'\\r')\n   .replace(/\\\\t/g,'\\t')\n   .replace(/\\\\v/g,'\\v')\n   .replace(/\\\\f/g,'\\f')\n   .replace(/\\\\b/g,'\\b'));\n   this.$.__line__ = this._$.first_line;\n   \nbreak;\ncase 2:\n\n   this.$ = new Number(yytext);\n   this.$.__line__ = this._$.first_line;\n   \nbreak;\ncase 3:\n\n   this.$ = null;\n   \nbreak;\ncase 4:\n\n   this.$ = new Boolean(true);\n   this.$.__line__ = this._$.first_line;\n   \nbreak;\ncase 5:\n\n   this.$ = new Boolean(false);\n   this.$.__line__ = this._$.first_line;\n   \nbreak;\ncase 6:\nreturn this.$ = $$[$0-1];\nbreak;\ncase 13:\nthis.$ = {}; Object.defineProperty(this.$, '__line__', {\n   value: this._$.first_line,\n   enumerable: false\n   })\nbreak;\ncase 14: case 19:\nthis.$ = $$[$0-1]; Object.defineProperty(this.$, '__line__',

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{\n            value: this._$.first_line,\n            enumerable: false\n        })\nbreak;\ncase 15:\nthis.$ = [$$[$0-2],
$$[$0]];\nbreak;\ncase 16:\nthis.$ = {}; this.$[$$[$0][0]] = $$[$0][1];\nbreak;\ncase 17:\nthis.$ = $$[$0-2]; $$[$0-
2][$$[$0][0]] = $$[$0][1];\nbreak;\ncase 18:\nthis.$ = []; Object.defineProperty(this.$, '__line__', {\n            value:
this._$.first_line,\n            enumerable: false\n        })\nbreak;\ncase 20:\nthis.$ = [$$[$0]];\nbreak;\ncase 21:\nthis.$
= $$[$0-2]; $$[$0-2].push($$[$0]);\nbreak;\n}\n},\ntable:
[{3:5,4:$V0,5:6,6:$V1,7:3,8:$V2,9:4,10:$V3,11:$V4,12:1,13:2,15:7,16:8,17:$V5,23:$V6},{1:[3]},{14:[1,16]},o($
V7,[2,7]),o($V7,[2,8]),o($V7,[2,9]),o($V7,[2,10]),o($V7,[2,11]),o($V7,[2,12]),o($V7,[2,3]),o($V7,[2,4]),o($V7,[2,
5]),o([14,18,21,22,24],[2,1]),o($V7,[2,2]),{3:20,4:$V0,18:[1,17],19:18,20:19},{3:5,4:$V0,5:6,6:$V1,7:3,8:$V2,9:4,
10:$V3,11:$V4,13:23,15:7,16:8,17:$V5,23:$V6,24:[1,21],25:22},{1:[2,6]},o($V7,[2,13]),{18:[1,24],22:[1,25]},o($
V8,[2,16]),{21:[1,26]},o($V7,[2,18]),{22:[1,28],24:[1,27]},o($V9,[2,20]),o($V7,[2,14]),{3:20,4:$V0,20:29},{3:5,4:
$V0,5:6,6:$V1,7:3,8:$V2,9:4,10:$V3,11:$V4,13:30,15:7,16:8,17:$V5,23:$V6},o($V7,[2,19]),{3:5,4:$V0,5:6,6:$V1
,7:3,8:$V2,9:4,10:$V3,11:$V4,13:31,15:7,16:8,17:$V5,23:$V6},o($V8,[2,17]),o($V8,[2,15]),o($V9,[2,21])],\ndefa
ultActions: {16:[2,6]},\nparseError: function parseError(str, hash) {\n    if (hash.recoverable) {\n
this.trace(str);\n    } else {\n        throw new Error(str);\n    }\n},\nparse: function parse(input) {\n    var self = this,
stack = [0], tstack = [], vstack = [null], lstack = [], table = this.table, yytext = '', yylineno = 0, yyleng = 0, recovering
= 0, TERROR = 2, EOF = 1;\n    var args = lstack.slice.call(arguments, 1);\n    var lexer =
Object.create(this.lexer);\n    var sharedState = { yy: {} };\n    for (var k in this.yy) {\n        if
(Object.prototype.hasOwnProperty.call(this.yy, k)) {\n            sharedState.yy[k] = this.yy[k];\n        }\n    }\n
lexer.setInput(input, sharedState.yy);\n    sharedState.yy.lexer = lexer;\n    sharedState.yy.parser = this;\n    if (typeof
lexer.yylloc == 'undefined') {\n        lexer.yylloc = {};\n    }\n    var yyloc = lexer.yylloc;\n    lstack.push(yyloc);\n
var ranges = lexer.options && lexer.options.ranges;\n    if (typeof sharedState.yy.parseError === 'function') {\n
this.parseError = sharedState.yy.parseError;\n    } else {\n        this.parseError =
Object.getPrototypeOf(this).parseError;\n    }\n    function popStack(n) {\n        stack.length = stack.length - 2 * n;\n
    vstack.length = vstack.length - n;\n        lstack.length = lstack.length - n;\n    }\n    _token_stack:\n        function
lex() {\n            var token;\n            token = lexer.lex() || EOF;\n            if (typeof token !== 'number') {\n
token = self.symbols_[token] || token;\n            }\n            return token;\n        }\n    var symbol, preErrorSymbol,
state, action, a, r, yyval = {}, p, len, newState, expected;\n    while (true) {\n        state = stack[stack.length - 1];\n
 if (this.defaultActions[state]) {\n            action = this.defaultActions[state];\n        } else {\n            if (symbol ===
null || typeof symbol == 'undefined') {\n                symbol = lex();\n            }\n            action = table[state] &&
table[state][symbol];\n        }\n                    if (typeof action === 'undefined' || !action.length || !action[0]) {\n
 var errStr = '';\n                expected = [];\n                for (p in table[state]) {\n                    if (this.terminals_[p] && p
> TERROR) {\n                        expected.push('\\'' + this.terminals_[p] + '\\'');\n                    }\n                }\n
if (lexer.showPosition) {\n                    errStr = 'Parse error on line ' + (yylineno + 1) + ':\\n' + lexer.showPosition() +
'\\nExpecting ' + expected.join(', ') + ', got \\'' + (this.terminals_[symbol] || symbol) + '\\'';\n                } else {\n
        errStr = 'Parse error on line ' + (yylineno + 1) + ': Unexpected ' + (symbol == EOF ? 'end of input' : '\\'' +
(this.terminals_[symbol] || symbol) + '\\'');\n                }\n                this.parseError(errStr, {\n                    text:
lexer.match,\n                    token: this.terminals_[symbol] || symbol,\n                    line: lexer.yylineno,\n
loc: yyloc,\n                    expected: expected\n                });\n            }\n        if (action[0] instanceof Array &&
action.length > 1) {\n            throw new Error('Parse Error: multiple actions possible at state: ' + state + ', token: ' +
symbol);\n        }\n        switch (action[0]) {\n        case 1:\n            stack.push(symbol);\n
vstack.push(lexer.yytext);\n            lstack.push(lexer.yylloc);\n            stack.push(action[1]);\n            symbol =
null;\n            if (!preErrorSymbol) {\n                yyleng = lexer.yyleng;\n                yytext = lexer.yytext;\n
yylineno = lexer.yylineno;\n                yyloc = lexer.yylloc;\n                if (recovering > 0) {\n
recovering--;\n                }\n            } else {\n                symbol = preErrorSymbol;\n                preErrorSymbol =
null;\n            }\n            break;\n        case 2:\n            len = this.productions_[action[1]][1];\n            yyval.$ =
vstack[vstack.length - len];\n            yyval._$ = {\n                first_line: lstack[lstack.length - (len || 1)].first_line,\n
         last_line: lstack[lstack.length - 1].last_line,\n                first_column: lstack[lstack.length - (len ||
1)].first_column,\n                last_column: lstack[lstack.length - 1].last_column\n            };\n            if (ranges) {\n
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yyval._$.range = [\n lstack[lstack.length - (len || 1)].range[0],\n lstack[lstack.length - 1].range[1]\n];\n }\n r = this.performAction.apply(yyval, [\n yytext,\n yyleng,\n yylineno,\n sharedState.yy,\n action[1],\n vstack,\n lstack\n].concat(args));\n if (typeof r !== 'undefined') {\n return r;\n }\n if (len) {\n stack = stack.slice(0, -1 * len * 2);\n vstack = vstack.slice(0, -1 * len);\n lstack = lstack.slice(0, -1 * len);\n }\n stack.push(this.productions_[action[1]][0]);\n vstack.push(yyval.$);\n lstack.push(yyval._$);\n newState = table[stack[stack.length - 2]][stack[stack.length - 1]];\n stack.push(newState);\n break;\n case 3:\n return true;\n }\n }\n return true;\n}};\n/* generated by jison-lex 0.3.4 */\nvar lexer = (function(){\nvar lexer = ({\n\nEOF:1,\n\nparseError:function parseError(str, hash) {\n if (this.yy.parser) {\n this.yy.parser.parseError(str, hash);\n } else {\n throw new Error(str);\n }\n },\n\n// resets the lexer, sets new input\nsetInput:function (input, yy) {\n this.yy = yy || this.yy || {};\n this._input = input;\n this._more = this._backtrack = this.done = false;\n this.yylineno = this.yyleng = 0;\n this.yytext = this.matched = this.match = '';\n this.conditionStack = ['INITIAL'];\n this.yylloc = {\n first_line: 1,\n first_column: 0,\n last_line: 1,\n last_column: 0\n };\n if (this.options.ranges) {\n this.yylloc.range = [0,0];\n }\n this.offset = 0;\n return this;\n },\n\n// consumes and returns one char from the input\ninput:function () {\n var ch = this._input[0];\n this.yytext += ch;\n this.yyleng++;\n this.offset++;\n this.match += ch;\n this.matched += ch;\n var lines = ch.match(/(?:\\r\\n?|\\n).*/g);\n if (lines) {\n this.yylineno++;\n this.yylloc.last_line++;\n } else {\n this.yylloc.last_column++;\n }\n if (this.options.ranges) {\n this.yylloc.range[1]++;\n }\n\n this._input = this._input.slice(1);\n return ch;\n },\n\n// unshifts one char (or a string) into the input\nunput:function (ch) {\n var len = ch.length;\n var lines = ch.split(/(?:\\r\\n?|\\n)/g);\n\n this._input = ch + this._input;\n this.yytext = this.yytext.substr(0, this.yytext.length - len);\n //this.yyleng -= len;\n this.offset -= len;\n var oldLines = this.match.split(/(?:\\r\\n?|\\n)/g);\n this.match = this.match.substr(0, this.match.length - 1);\n this.matched = this.matched.substr(0, this.matched.length - 1);\n\n if (lines.length - 1) {\n this.yylineno -= lines.length - 1;\n }\n var r = this.yylloc.range;\n\n this.yylloc = {\n first_line: this.yylloc.first_line,\n last_line: this.yylineno + 1,\n first_column: this.yylloc.first_column,\n last_column: lines ?\n (lines.length === oldLines.length ? this.yylloc.first_column : 0)\n + oldLines[oldLines.length - lines.length].length - lines[0].length :\n this.yylloc.first_column - len\n };\n\n if (this.options.ranges) {\n this.yylloc.range = [r[0], r[0] + this.yyleng - len];\n }\n this.yyleng = this.yytext.length;\n return this;\n },\n\n// When called from action, caches matched text and appends it on next action\nmore:function () {\n this._more = true;\n return this;\n },\n\n// When called from action, signals the lexer that this rule fails to match the input, so the next matching rule (regex) should be tested instead.\nreject:function () {\n if (this.options.backtrack_lexer) {\n this._backtrack = true;\n } else {\n return this.parseError('Lexical error on line ' + (this.yylineno + 1) + '. You can only invoke reject() in the lexer when the lexer is of the backtracking persuasion (options.backtrack_lexer = true).\\n' + this.showPosition(), {\n text: \"\",\n token: null,\n line: this.yylineno\n });\n\n }\n return this;\n },\n\n// retain first n characters of the match\nless:function (n) {\n this.unput(this.match.slice(n));\n },\n\n// displays already matched input, i.e. for error messages\npastInput:function () {\n var past = this.matched.substr(0, this.matched.length - this.match.length);\n return (past.length > 20 ? '...':'') + past.substr(-20).replace(/\\n/g, \"\");\n },\n\n// displays upcoming input, i.e. for error messages\nupcomingInput:function () {\n var next = this.match;\n if (next.length < 20) {\n next += this._input.substr(0, 20-next.length);\n }\n return (next.substr(0,20) + (next.length > 20 ? '...' : '')).replace(/\\n/g, \"\");\n },\n\n// displays the character position where the lexing error occurred, i.e. for error messages\nshowPosition:function () {\n var pre = this.pastInput();\n var c = new Array(pre.length + 1).join(\"-\");\n return pre + this.upcomingInput() + \"\\n\" + c + \"^\";\n },\n\n// test the lexed token: return FALSE when not a match, otherwise return token\ntest_match:function (match, indexed_rule) {\n var token,\n lines,\n backup;\n\n if (this.options.backtrack_lexer) {\n // save context\n backup = {\n yylineno: this.yylineno,\n

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

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number of states currently on the stack\nstateStackSize:function stateStackSize() {\n        return
this.conditionStack.length;\n    },\noptions: {},\nperformAction: function
anonymous(yy,yy_,$avoiding_name_collisions,YY_START) {\nvar
YYSTATE=YY_START;\nswitch($avoiding_name_collisions) {\ncase 0:/* skip whitespace */\nbreak;\ncase
1:return 6\nbreak;\ncase 2:yy_.yytext = yy_.yytext.substr(1,yy_.yyleng-2); return 4\nbreak;\ncase 3:return
17\nbreak;\ncase 4:return 18\nbreak;\ncase 5:return 23\nbreak;\ncase 6:return 24\nbreak;\ncase 7:return
22\nbreak;\ncase 8:return 21\nbreak;\ncase 9:return 10\nbreak;\ncase 10:return 11\nbreak;\ncase 11:return
8\nbreak;\ncase 12:return 14\nbreak;\ncase 13:return 'INVALID'\nbreak;\n}\n},\nrules: [/^(?:\\s+)/,/^(?:(-?([0-9]|[1-
9][0-9]+))(\\.[0-9]+)?([eE][-+]?[0-9]+)?\\b)/,/^(?:\"(?:\\\\[\\\\\"bfnrt/]|\\\\u[a-fA-F0-9]{4}|[^\\\\\\0-\\x09\\x0a-
\\x1f\"])*\")/,/^(?:\\{)/,/^(?:\\})/,/^(?:\\[)/,/^(?:\\])/,/^(?:,)/,/^(?::)/,/^(?:true\\b)/,/^(?:false\\b)/,/^(?:null\\b)/,/^(?:$)/,/^(?:
.)/],\nconditions: {\"INITIAL\":{\"rules\":[0,1,2,3,4,5,6,7,8,9,10,11,12,13],\"inclusive\":true}}\n});\nreturn
lexer;\n})();\nparser.lexer = lexer;\nfunction Parser () {\n  this.yy = {};\n}\nParser.prototype = parser;parser.Parser
= Parser;\nreturn new Parser;\n})();\n\n\nif (typeof require !== 'undefined' && typeof exports !== 'undefined')
{\nexports.parser = parser;\nexports.Parser = parser.Parser;\nexports.parse = function () { return
parser.parse.apply(parser, arguments); };\n}\n","import ParsingError from './error/parsing_error';\nimport jsonlint
from '@mapbox/jsonlint-lines-primitives';\n\nexport default function readStyle(style) {\n    if (style instanceof
String || typeof style === 'string' || style instanceof Buffer) {\n        try {\n            return
jsonlint.parse(style.toString());\n        } catch (e) {\n            throw new ParsingError(e);\n        }\n    }\n\n    return
style;\n}\n","\nimport validateStyleMin from './validate_style.min';\nimport {v8} from './style-spec';\nimport
readStyle from './read_style';\n\n/**\n * Validate a Mapbox GL style against the style specification.\n *\n *
@private\n * @alias validate\n * @param {Object|String|Buffer} style The style to be validated. If a `String`\n *
or `Buffer` is provided, the returned errors will contain line numbers.\n * @param {Object} [styleSpec] The style
specification to validate against.\n *     If omitted, the spec version is inferred from the stylesheet.\n * @returns
{Array<ValidationError|ParsingError>}\n * @example\n *   var validate = require('mapbox-gl-style-
spec').validate;\n *   var style = fs.readFileSync('./style.json', 'utf8');\n *   var errors = validate(style);\n */\n\nexport
default function validateStyle(style, styleSpec = v8) {\n    let s = style;\n\n    try {\n        s = readStyle(s);\n    } catch
(e) {\n        return [e];\n    }\n\n    return validateStyleMin(s, styleSpec);\n}\n\nexport const source =
validateStyleMin.source;\nexport const light = validateStyleMin.light;\nexport const layer =
validateStyleMin.layer;\nexport const filter = validateStyleMin.filter;\nexport const paintProperty =
validateStyleMin.paintProperty;\nexport const layoutProperty = validateStyleMin.layoutProperty;\n","//
@flow\n\nimport validateStyle from './validate_style.min';\nimport {v8} from './style-spec';\nimport readStyle from
'./read_style';\nimport ValidationError from './error/validation_error';\nimport getType from
'./util/get_type';\n\nconst SUPPORTED_SPEC_VERSION = 8;\nconst MAX_SOURCES_IN_STYLE =
15;\n\nfunction isValid(value: ?string, regex: RegExp): boolean {\n    if (!value || getType(value) !== 'string') return
true;\n    return !!value.match(regex);\n}\n\nfunction getSourceCount(source: Object): number {\n    if (source.url)
{\n        return source.url.split(',').length;\n    } else {\n        return 0;\n    }\n}\n\nfunction getAllowedKeyErrors(obj:
Object, keys: Array<*>, path: ?string): Array<?ValidationError> {\n    const allowed = new Set(keys);\n    const
errors = [];\n    Object.keys(obj).forEach(k => {\n        if (!allowed.has(k)) {\n            const prop = path ?
`${path}.${k}` : null;\n            errors.push(new ValidationError(prop, obj[k], `Unsupported property \"${k}\"`));\n
   }\n    });\n    return errors;\n}\n\nfunction getSourceErrors(source: Object, i: number): Array<?ValidationError>
{\n    const errors = [];\n\n    /*\n     * Inlined sources are not supported by the Mapbox Styles API, so only\n     *
\"type\", \"url\", and \"tileSize\" properties are valid\n     */\n    const sourceKeys = ['type', 'url', 'tileSize'];\n
errors.push(...getAllowedKeyErrors(source, sourceKeys, 'source'));\n\n    /*\n     * \"source\" is required. Valid
examples:\n     * mapbox://mapbox.abcd1234\n     * mapbox://penny.abcd1234\n     *
mapbox://mapbox.abcd1234,penny.abcd1234\n     */\n    const sourceUrlPattern = /^mapbox:\\/\\/([^/]*)$/;\n    if
(!isValid(source.url, sourceUrlPattern)) {\n        errors.push(new ValidationError(`sources[${i}]`, source.url, 'Source
url must be a valid Mapbox tileset url'));\n    }\n\n    return errors;\n}\n\nfunction getSourcesErrors(sources: Object):
Array<?ValidationError> {\n    const errors = [];\n    let count = 0;\n\n    Object.keys(sources).forEach((s: string, i:
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number) => {\n   const sourceErrors = getSourceErrors(sources[s], i);\n\n   // If source has errors, skip
counting\n   if (!sourceErrors.length) {\n   count = count + getSourceCount(sources[s]);\n   }\n\n
errors.push(...sourceErrors);\n   });\n\n   if (count > MAX_SOURCES_IN_STYLE) {\n   errors.push(new
ValidationError('sources', null, `Styles must contain ${MAX_SOURCES_IN_STYLE} or fewer sources`));\n
}\n\n   return errors;\n}\n\nfunction getRootErrors(style: Object, specKeys: Array<any>): Array<?ValidationError>
{\n   const errors = [];\n\n   /*\n   * The following keys are optional but fully managed by the Mapbox Styles\n
* API. Values on stylesheet on POST or PATCH will be ignored: \"owner\",\n   * \"id\", \"cacheControl\", \"draft\",
\"created\", \"modified\"\n   *\n   * The following keys are optional. The Mapbox Styles API respects value on\n
* stylesheet on PATCH, but ignores the value on POST: \"visibility\"\n   */\n   const optionalRootProperties = [\n
    'owner',\n   'id',\n   'cacheControl',\n   'draft',\n   'created',\n   'modified',\n   'visibility'\n   ];\n\n
const allowedKeyErrors = getAllowedKeyErrors(style, [...specKeys, ...optionalRootProperties]);\n
errors.push(...allowedKeyErrors);\n\n   if (style.version > SUPPORTED_SPEC_VERSION || style.version <
SUPPORTED_SPEC_VERSION) {\n   errors.push(new ValidationError('version', style.version, `Style version
must be ${SUPPORTED_SPEC_VERSION}`));\n   }\n\n   /*\n   * \"glyphs\" is optional. If present, valid
examples:\n   * mapbox://fonts/penny/{fontstack}/{range}.pbf\n   *
mapbox://fonts/mapbox/{fontstack}/{range}.pbf\n   */\n   const glyphUrlPattern =
/^mapbox:\\/\\/fonts\\/([^/]*)\\/{fontstack}\\/{range}.pbf$/;\n   if (!isValid(style.glyphs, glyphUrlPattern)) {\n
errors.push(new ValidationError('glyphs', style.glyphs, 'Styles must reference glyphs hosted by Mapbox'));\n   }\n\n
  /*\n   * \"sprite\" is optional. If present, valid examples:\n   * mapbox://sprites/penny/abcd1234\n   *
mapbox://sprites/mapbox/abcd1234/draft\n   * mapbox://sprites/cyrus/abcd1234/abcd1234\n   */\n   const
spriteUrlPattern = /^mapbox:\\/\\/sprites\\/([^/]*)\\/([^/]*)\\/?([^/]*)?$/;\n   if (!isValid(style.sprite, spriteUrlPattern))
{\n   errors.push(new ValidationError('sprite', style.sprite, 'Styles must reference sprites hosted by Mapbox'));\n
}\n\n   /*\n   * \"visibility\" is optional. If present, valid examples:\n   * \"private\"\n   * \"public\"\n   */\n
const visibilityPattern = /^(public|private)$/;\n   if (!isValid(style.visibility, visibilityPattern)) {\n
errors.push(new ValidationError('visibility', style.visibility, 'Style visibility must be public or private'));\n   }\n\n
return errors;\n}\n\n/**\n * Validate a Mapbox GL style against the style specification and check for\n *
compatibility with the Mapbox Styles API.\n *\n * @param {Object} style The style to be validated.\n * @returns
{Array<ValidationError>}\n * @example\n *   var validateMapboxApiSupported = require('mapbox-gl-style-
spec/lib/validate_style_mapbox_api_supported.js');\n *   var errors = validateMapboxApiSupported(style);\n
*/\nexport default function validateMapboxApiSupported(style: Object): Array<?ValidationError> {\n   let s =
style;\n   try {\n   s = readStyle(s);\n   } catch (e) {\n   return [e];\n   }\n\n   let errors = validateStyle(s, v8)\n
      .concat(getRootErrors(s, Object.keys(v8.$root)));\n\n   if (s.sources) {\n   errors =
errors.concat(getSourcesErrors(s.sources));\n   }\n\n   return errors;\n}\n","// @flow\n\ntype ExpressionType =
'data-driven' | 'cross-faded' | 'cross-faded-data-driven' | 'color-ramp' | 'data-constant' | 'constant';\ntype
ExpressionParameters = Array<'zoom' | 'feature' | 'feature-state' | 'heatmap-density' | 'line-progress'>;\n\ntype
ExpressionSpecification = {\n   interpolated: boolean,\n   parameters: ExpressionParameters\n}\n\nexport type
StylePropertySpecification = {\n   type: 'number',\n   'property-type': ExpressionType,\n   expression?:
ExpressionSpecification,\n   transition: boolean,\n   default?: number\n} | {\n   type: 'string',\n   'property-type':
ExpressionType,\n   expression?: ExpressionSpecification,\n   transition: boolean,\n   default?: string,\n   tokens?:
boolean\n} | {\n   type: 'boolean',\n   'property-type': ExpressionType,\n   expression?: ExpressionSpecification,\n
transition: boolean,\n   default?: boolean\n} | {\n   type: 'enum',\n   'property-type': ExpressionType,\n
expression?: ExpressionSpecification,\n   values: {[_: string]: {}},\n   transition: boolean,\n   default?: string\n} |
{\n   type: 'color',\n   'property-type': ExpressionType,\n   expression?: ExpressionSpecification,\n   transition:
boolean,\n   default?: string,\n   overridable: boolean\n} | {\n   type: 'array',\n   value: 'number',\n   'property-type':
ExpressionType,\n   expression?: ExpressionSpecification,\n   length?: number,\n   transition: boolean,\n
default?: Array<number>\n} | {\n   type: 'array',\n   value: 'string',\n   'property-type': ExpressionType,\n
expression?: ExpressionSpecification,\n   length?: number,\n   transition: boolean,\n   default?:
Array<string>\n};\n\nimport v8 from './reference/v8.json';\nimport latest from './reference/latest';\nimport format

from './format';\nimport migrate from './migrate';\nimport composite from './composite';\nimport derefLayers from './deref';\nimport diff from './diff';\nimport ValidationError from './error/validation_error';\nimport ParsingError from './error/parsing_error';\nimport {StyleExpression, isExpression, createExpression, createPropertyExpression, normalizePropertyExpression, ZoomConstantExpression, ZoomDependentExpression, StylePropertyFunction} from './expression';\nimport featureFilter, {isExpressionFilter} from './feature_filter';\n\nimport convertFilter from './feature_filter/convert';\nimport Color from './util/color';\nimport {createFunction, isFunction} from './function';\nimport convertFunction from './function/convert';\nimport {eachSource, eachLayer, eachProperty} from './visit';\n\nimport validate from './validate_style';\nimport validateMapboxApiSupported from './validate_mapbox_api_supported';\n\nconst expression = {\n   StyleExpression,\n   isExpression,\n   isExpressionFilter,\n   createExpression,\n   createPropertyExpression,\n   normalizePropertyExpression,\n   ZoomConstantExpression,\n   ZoomDependentExpression,\n   StylePropertyFunction\n};\n\nconst styleFunction = {\n   convertFunction,\n   createFunction,\n   isFunction\n};\n\nconst visit = {eachSource, eachLayer, eachProperty};\n\nexport {\n   v8,\n   latest,\n   format,\n   migrate,\n   composite,\n   derefLayers,\n   diff,\n   ValidationError,\n   ParsingError,\n   expression,\n   featureFilter,\n   convertFilter,\n   Color,\n   styleFunction as function,\n   validate,\n   validateMapboxApiSupported,\n   visit\n};\n\nvalidate.parsed = validate;\nvalidate.latest = validate;\n"],"names":["sortKeysBy","obj","reference","const","result","key","undefined","format","style","space","$root","layers","map","layer","stringifyPretty","indent","global","this","require$$0","require$$1","getPropertyReference","propertyName","let","i","Reference","layout","length","paint","eachSource","callback","k","sources","eachLayer","eachProperty","options","inner","propertyType","properties","Object","keys","forEach","path","id","value","set","x","eachLayout","indexOf","eachPaint","resolveConstant","constants","isFunction","Array","isArray","stops","renameProperty","from","to","version","source","type","url","coordinates","coord","reverse","property","stop","migrateFontstackURL","input","inputParsed","URL","parse","inputPathnameParts","pathname","split","protocol","hostname","glyphs","migrateFontStack","font","splitAndTrim","string","s","trim","Error","firstSymbolLayer","symbolLayers","splice","concat","output","inputs","ParsingError","message","super","Scope","parent","bindings","name","expression","get","has","NullType","kind","NumberType","StringType","BooleanType","ColorType","ObjectType","ValueType","ErrorType","CollatorType","FormattedType","ResolvedImageType","array","itemType","N","toString","valueMemberTypes","checkSubtype","expected","t","memberType","isValidType","provided","allowedTypes","some","isValidNativeType","Color","r","g","b","a","rgba","parseCSSColor","toArray","Math","round","black","white","transparent","red","Collator","caseSensitive","diacriticSensitive","locale","sensitivity","collator","Intl","usage","compare","lhs","rhs","resolvedLocale","resolvedOptions","FormattedSection","text","image","scale","fontStack","textColor","Formatted","sections","fromString","unformatted","isEmpty","section","factory","join","serialize","serialized","push","ResolvedImage","available","validateRGBA","isValue","mixed","item","typeOf","String","JSON","stringify","Literal","args","context","error","expectedType","evaluate","eachChild","outputDefined","RuntimeError","toJSON","types","number","boolean","object","Assertion","floor","parsed","ctx","fn","every","arg","FormatExpression","firstArg","nextTokenMayBeObject","lastExpression","content","evaluateSection","evaluatedContent","ImageExpression","evaluatedImageName","availableImages","Coercion","Boolean","c","parseColor","num","Number","isNaN","valueToString","child","geometryTypes","EvaluationContext","globals","feature","featureState","formattedSection","_parseColorCache","canonical","geometryType","geometry","canonicalID","cached","CompoundExpression","_evaluate","op","definition","definitions","availableOverloads","overloads","filter","signature","signatureContext","ParsingContext","registry","scope","parsedArgs","argParseFailed","params","errors","signatures","stringifySignature","actualTypes","register","CollatorExpression","EXTENT","updateBBox","bbox","min","max","mercatorXfromLng","lng","mercatorYfromLat","lat","PI","log","tan","boxWithinBox","bbox1","bbox2","getTileCoordinates","p","y","tilesAtZoom","pow","z","onBoundary","p1","p2","x1","y1","x2","y2","rayIntersect","pointWithinPolygon","point","rings","inside","len","ring","j","len2","pointWithinPolygons","polygons","perp","v1","v2","twoSided","q1","q2","x3","y3","det1","det2","lineIntersectLine","d","vectorP","vectorQ","lineIntersectPolygon","polygon","lineStringWithinPolygon","line","lineStringWithinPolygons","getTilePolygon","getTilePolygons","updatePoint","polyBBox","worldSize","halfWorldSize","shift","resetBBox","Infinity","getTilePoints","pointBBox","shifts","tileP

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oints","points","getTileLines","lineBBox","tileLines","tileLine","pointsWithinPolygons","polygonGeometry","tileP
olygon","tilePolygons","linesWithinPolygons","Within","geojson","geometries","features","isFeatureConstant","e",
"test","isStateConstant","isGlobalPropertyConstant","Var","boundExpression","part","expr","index","_parse","anno
tate","typeAnnotation","Expr","actual","isConstant","ec","isTypeAnnotation","childrenConstant","findStopLessTha
nOrEqualTo","lastIndex","lowerIndex","upperIndex","currentIndex","currentValue","nextValue","Step","labels","o
utputs","label","outputType","labelKey","valueKey","stopCount","out","color","Xn","Yn","Zn","t0","t1","t2","t3","
deg2rad","rad2deg","xyz2lab","lab2xyz","xyz2rgb","rgb2xyz","rgbToLab","rgbColor","l","alpha","labToRgb","lab
Color","interpolateLab","interpolateNumber","rgbToHcl","h","atan2","sqrt","hclToRgb","hclColor","cos","sin","int
erpolateHue","interpolateHcl","lab","forward","interpolate","hcl","Interpolate","operator","interpolation","interpolat
ionFactor","lower","upper","exponentialInterpolation","base","controlPoints","ub","UnitBezier","solve","slice","rest
","outputLower","outputUpper","toLowerCase","lowerValue","upperValue","difference","progress","Coalesce","ne
edsAnnotation","argCount","requestedImageName","Let","binding","At","In","needle","haystack","IndexOf","from
Index","Match","inputType","cases","otherwise","labelContext","abs","MAX_SAFE_INTEGER","sortedLabels","s
ort","groupedByOutput","outputLookup","outputIndex","coerceLabel","Case","branches","Slice","beginIndex","end
Index","isComparableType","eq","neq","lt","gt","lteq","gteq","eqCollate","neqCollate","ltCollate","gtCollate","lteq
Collate","gteqCollate","makeComparison","compareBasic","compareWithCollator","isOrderComparison","hasUnty
pedArgument","Comparison","rt","Equals","NotEquals","LessThan","GreaterThan","LessThanOrEqual","GreaterTh
anOrEqual","NumberFormat","currency","minFractionDigits","maxFractionDigits","minimumFractionDigits","max
imumFractionDigits","Length","expressions","v","binarySearch","m","varargs","typeToString","zoom","heatmapDe
nsity","lineProgress","accumulated","LN2","E","n","LN10","asin","acos","atan","ceil","isSupportedScript","toUppe
rCase","success","supportsPropertyExpression","spec","supportsZoomExpression","parameters","supportsInterpolat
ion","interpolated","getType","val","identityFunction","createFunction","propertySpec","isColor","zoomAndFeatur
eDependent","featureDependent","zoomDependent","extend","default","colorSpace","colorSpaces","innerFun","has
hedStops","categoricalKeyType","evaluateExponentialFunction","evaluateIntervalFunction","evaluateCategoricalFu
nction","create","evaluateIdentityFunction","featureFunctions","zoomStops","featureFunctionStops","interpolationT
ype","bind","_","coalesce","keyType","evaluated","interp","colorspace","evaluatedLower","apply","evaluatedUpper
","values","StyleExpression","_warningHistory","_evaluator","_defaultValue","getDefaultValue","_enumValues","e
valuateWithoutErrorHandling","console","warn","isExpression","createExpression","parser","getExpectedType","Z
oomConstantExpression","_styleExpression","isStateDependent","ZoomDependentExpression","createPropertyExp
ression","isZoomConstant","zoomCurve","findZoomCurve","StylePropertyFunction","specification","_parameters",
"_specification","deserialize","normalizePropertyExpression","err","constant","childResult","enum","formatted","re
solvedImage","convertLiteral","convertFunction","convertIdentityFunction","tokens","convertTokenString","conver
tZoomAndPropertyFunction","convertZoomFunction","convertPropertyFunction","getInterpolateOperator","feature
FunctionParameters","functionType","getFunctionType","appendStopPair","fixupDegenerateStepCurve","isStep","c
urve","re","pos","match","exec","literal","isExpressionFilter","f","filterSpec","createFilter","needGeometry","conve
rtFilter","compiled","globalProperties","converted","convertComparisonOp","convertNegation","convertDisjunctio
nOp","convertInOp","convertHasOp","filters","_convertFilter","expectedTypes","children","typechecks","runtimeT
ypeChecks","conditions","negate","uniformTypes","uniqueValues","migrated","migrateToV8","migrateToExpressi
ons","styleIDs","sourceIDs","compositedSourceLayers","compositeID","deref","refProperties","derefLayers","ref","
deepEqual","operations","setStyle","addLayer","removeLayer","setPaintProperty","setLayoutProperty","setFilter","
addSource","removeSource","setGeoJSONSourceData","setLayerZoomRange","setLayerProperty","setCenter","set
Zoom","setBearing","setPitch","setSprite","setGlyphs","setTransition","setLight","sourceId","after","commands","c
ommand","sourcesRemoved","updateSource","canUpdateGeoJSON","before","prop","hasOwnProperty","isEqual","
diffSources","data","diffLayerPropertyChanges","layerId","klass","pluckId","indexById","group","diffLayers","bef
oreOrder","afterOrder","beforeIndex","reduce","afterIndex","tracker","clean","beforeLayer","afterLayer","insertBef
oreLayerId","lastIndexOf","minzoom","maxzoom","diffStyles","center","bearing","pitch","sprite","transition","light
","removeOrAddSourceCommands","beforeLayers","ValidationError","identifier","__line__","parseInt","validateC
onstants","unbundle","valueOf","deepUnbundle","unbundledValue","validateObject","elementSpecs","valueSpec","
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elementValidators","objectElementValidators","styleSpec","objectKey","elementSpecKey","elementSpec","validateElement","validateSpec","required","validateArray","arraySpec","validateArrayElement","arrayElementValidator","validate","arrayElementSpec","$version","function","arrayIndex","validateNumber","minimum","maximum","validateFunction","functionValueSpec","stopKeyType","stopDomainValues","previousStopDomainValue","previousStopDomainZoom","isZoomFunction","isPropertyFunction","isZoomAndPropertyFunction","validateFunctionStops","validateFunctionDefault","validateFunctionStop","validateStopDomainValue","reportValue","isFinite","validateExpression","expressionContext","expressionObj","propertyKey","validateBoolean","validateColor","validateEnum","validateFilter","validateNonExpressionFilter","filter_operator","geometry_type","validateProperty","layerSpec","layerType","transitionMatch","tokenMatch","validatePaintProperty","validateLayoutProperty","validateLayer","otherLayer","sourceType","lineMetrics","validateString","promoteId","validatePromoteId","validateSource","replace","source_geojson","cluster","clusterProperties","reduceExpr","mapExpr","source_video","source_image","validateLight","lightSpec","rootType","validateFormatted","validateImage","VALIDATORS","valid","validateStyleMin","latestStyleSpec","validateGlyphsURL","sortErrors","wrapCleanErrors","paintProperty","layoutProperty","require","readStyle","Buffer","jsonlint","validateStyle","v8","SUPPORTED_SPEC_VERSION","MAX_SOURCES_IN_STYLE","isValid","regex","getSourceCount","getAllowedKeyErrors","allowed","Set","getSourceErrors","sourceKeys","sourceUrlPattern","getSourcesErrors","count","sourceErrors","getRootErrors","specKeys","optionalRootProperties","allowedKeyErrors","glyphUrlPattern","spriteUrlPattern","visibilityPattern","visibility","validateMapboxApiSupported","styleFunction","visit","latest"],"mappings":";;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
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AAC/C;AACA,8BAAc,GAAG,SAAS,SAAS,CAAC,SAAS,EAAE,OAAO,EAAE;AACxD,EAAE,IAAI,MAAM,E
AAE,SAAS,EAAE,QAAQ,CAAC;AAClC;AACA,EAAE,OAAO,GAAG,OAAO,IAAI,EAAE,CAAC;AAC1B,EA
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ADyC;AAAA,KAlCoC;AAAA,IA4CjF1E,IAAAM4zB,gBAAA,GAAAmB,mDAAAzB5zB,CA5CiF;AAAA,IA6CjF,IA
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B,MAAA,CAAAO/E,IAAP,CAAAY,IAAAI4hB,eAAJ,CAAAoB,QAAApB,EAAA8B9rB,KAAAA,CAAAMyrB,MAAApC,EAA4

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1050204622_1591696269.32/0/mapbox-mapbox-gl-style-spec-13-14-0-tgz/package/dist/index.es.js.map
No license file was found, but licenses were detected in source scan.

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{
 "$version": 8,
 "$root": {
   "version": {
     "required": true,
     "type": "enum",
     "values": [
       8
     ],
     "doc": "Style specification version number. Must be 8.",
     "example": 8
   },
   "name": {
     "type": "string",
     "doc": "A human-readable name for the style.",
     "example": "Bright"
   },
   "metadata": {
     "type": "*",
     "doc": "Arbitrary properties useful to track with the stylesheet, but do not influence rendering. Properties should be prefixed to avoid collisions, like 'mapbox:'."
   },
   "center": {
     "type": "array",
    "value": "number",
    "doc": "Default map center in longitude and latitude.  The style center will be used only if the map has not been positioned by other means (e.g. map options or user interaction).",
    "example": [
      -73.9749,
      40.7736
    ]
  },
  "zoom": {
    "type": "number",
    "doc": "Default zoom level.  The style zoom will be used only if the map has not been positioned by other means (e.g. map options or user interaction).",
    "example": 12.5
  },
  "bearing": {
    "type": "number",
    "default": 0,
    "period": 360,
    "units": "degrees",
    "doc": "Default bearing, in degrees. The bearing is the compass direction that is \"up\"; for example, a bearing of 90 orients the map so that east is up. This value will be used only if the map has not been positioned by other means (e.g. map options or user interaction).",
    "example": 29
  },
  "pitch": {
    "type": "number",
    "default": 0,
    "units": "degrees",
    "doc": "Default pitch, in degrees. Zero is perpendicular to the surface, for a look straight down at the map, while a greater value like 60 looks ahead towards the horizon. The style pitch will be used only if the map has not been positioned by other means (e.g. map options or user interaction).",
    "example": 50
  },
  "light": {
    "type": "light",
    "doc": "The global light source.",
    "example": {
      "anchor": "viewport",
      "color": "white",
      "intensity": 0.4
    }
  },
  "sources": {
    "required": true,
    "type": "sources",
    "doc": "Data source specifications.",
    "example": {
      "mapbox-streets": {
        "type": "vector",
        "url": "mapbox://mapbox.mapbox-streets-v6"
      }
    }
  },
  "sprite": {
    "type": "string",
    "doc": "A base URL for retrieving the sprite image and metadata. The extensions `.png`, `.json` and scale factor `@2x.png` will be automatically appended. This property is required if any layer uses the `background-pattern`, `fill-pattern`, `line-pattern`, `fill-extrusion-pattern`, or `icon-image` properties. The URL must be absolute, containing the [scheme, authority and path components](https://en.wikipedia.org/wiki/URL#Syntax).",
    "example": "mapbox://sprites/mapbox/bright-v8"
  },
  "glyphs": {
    "type": "string",
    "doc": "A URL template for loading signed-distance-field glyph sets in PBF format. The URL must include `{fontstack}` and `{range}` tokens. This property is required if any layer uses the `text-field` layout property. The URL must be absolute, containing the [scheme, authority and path components](https://en.wikipedia.org/wiki/URL#Syntax).",
    "example": "mapbox://fonts/mapbox/{fontstack}/{range}.pbf"
  },
  "transition": {
    "type": "transition",
    "doc": "A global transition definition to use as a default across properties, to be used for timing transitions between one value and the next when no property-specific transition is set. Collision-based symbol fading is controlled independently of the style's `transition` property.",
    "example": {
      "duration": 300,
      "delay": 0
    }
  },
  "layers": {
    "required": true,
    "type": "array",
    "value": "layer",
    "doc": "Layers will be drawn in the order of this array.",
    "example": [
      {
        "id": "water",
        "source": "mapbox-streets",
        "source-layer": "water",
        "type": "fill",
        "paint": {
          "fill-color": "#00ffff"
        }
      }
    ]
  }
  },
  "sources": {
    "*": {
      "type": "source",
      "doc": "Specification of a data source. For vector and raster sources, either TileJSON or a URL to a TileJSON must be provided. For image and video sources, a URL must be provided. For GeoJSON sources, a URL or inline GeoJSON must be provided."
    }
  },
  "source": [
    "source_vector",
    "source_raster",
    "source_raster_dem",
    "source_geojson",
    "source_video",
    "source_image"
  ],
  "source_vector": {
    "type": {
      "required": true,
      "type": "enum",
      "values": {
        "vector": {
          "doc": "A vector tile source."
        }
      },
      "doc": "The type of the source."
    },
    "url": {
      "type": "string",
      "doc": "A URL to a TileJSON resource. Supported protocols are `http:`, `https:`, and `mapbox://<Tileset ID>`."
    },
    "tiles": {
      "type": "array",
      "value": "string",
      "doc": "An array of one or more tile source URLs, as in the TileJSON spec."
    },
    "bounds": {
      "type": "array",
      "value": "number",
      "length": 4,
      "default": [
        -180,
        -85.051129,
        180,
        85.051129
      ],
      "doc": "An array containing the longitude and latitude of the southwest and northeast corners of the source's
```

```
bounding box in the following order: `[sw.lng, sw.lat, ne.lng, ne.lat]`. When this property is included in a source, no tiles outside of the given bounds are requested by Mapbox GL."
  },
  "scheme": {
    "type": "enum",
    "values": {
      "xyz": {
        "doc": "Slippy map tilenames scheme."
      },
      "tms": {
        "doc": "OSGeo spec scheme."
      }
    },
    "default": "xyz",
    "doc": "Influences the y direction of the tile coordinates. The global-mercator (aka Spherical Mercator) profile is assumed."
  },
  "minzoom": {
    "type": "number",
    "default": 0,
    "doc": "Minimum zoom level for which tiles are available, as in the TileJSON spec."
  },
  "maxzoom": {
    "type": "number",
    "default": 22,
    "doc": "Maximum zoom level for which tiles are available, as in the TileJSON spec. Data from tiles at the maxzoom are used when displaying the map at higher zoom levels."
  },
  "attribution": {
    "type": "string",
    "doc": "Contains an attribution to be displayed when the map is shown to a user."
  },
  "promoteId": {
    "type": "promoteId",
    "doc": "A property to use as a feature id (for feature state). Either a property name, or an object of the form `{<sourceLayer>: <propertyName>}`. If specified as a string for a vector tile source, the same property is used across all its source layers."
  },
  "*": {
    "type": "*",
    "doc": "Other keys to configure the data source."
  }
 },
 "source_raster": {
  "type": {
    "required": true,
    "type": "enum",
    "values": {
        "raster": {
          "doc": "A raster tile source."
        }
      },
      "doc": "The type of the source."
    },
    "url": {
      "type": "string",
      "doc": "A URL to a TileJSON resource. Supported protocols are `http:`, `https:`, and `mapbox://<Tileset ID>`."
    },
    "tiles": {
      "type": "array",
      "value": "string",
      "doc": "An array of one or more tile source URLs, as in the TileJSON spec."
    },
    "bounds": {
      "type": "array",
      "value": "number",
      "length": 4,
      "default": [
        -180,
        -85.051129,
        180,
        85.051129
      ],
      "doc": "An array containing the longitude and latitude of the southwest and northeast corners of the source's bounding box in the following order: `[sw.lng, sw.lat, ne.lng, ne.lat]`. When this property is included in a source, no tiles outside of the given bounds are requested by Mapbox GL."
    },
    "minzoom": {
      "type": "number",
      "default": 0,
      "doc": "Minimum zoom level for which tiles are available, as in the TileJSON spec."
    },
    "maxzoom": {
      "type": "number",
      "default": 22,
      "doc": "Maximum zoom level for which tiles are available, as in the TileJSON spec. Data from tiles at the maxzoom are used when displaying the map at higher zoom levels."
    },
    "tileSize": {
      "type": "number",
      "default": 512,
      "units": "pixels",
      "doc": "The minimum visual size to display tiles for this layer. Only configurable for raster layers."
    },
    "scheme": {
      "type": "enum",
      "values": {
        "xyz": {
          "doc": "Slippy map tilenames scheme."
        },
        "tms": {
          "doc": "OSGeo spec scheme."
        }
      },
      "default": "xyz",
      "doc": "Influences the y direction of the tile coordinates. The global-mercator (aka Spherical Mercator) profile is assumed."
    },
    "attribution": {
      "type": "string",
      "doc": "Contains an attribution to be displayed when the map is shown to a user."
    },
    "*": {
      "type": "*",
      "doc": "Other keys to configure the data source."
    }
  },
  "source_raster_dem": {
    "type": {
      "required": true,
      "type": "enum",
      "values": {
        "raster-dem": {
          "doc": "A RGB-encoded raster DEM source"
        }
      },
      "doc": "The type of the source."
    },
    "url": {
      "type": "string",
      "doc": "A URL to a TileJSON resource. Supported protocols are `http:`, `https:`, and `mapbox://<Tileset ID>`."
    },
    "tiles": {
      "type": "array",
      "value": "string",
      "doc": "An array of one or more tile source URLs, as in the TileJSON spec."
    },
    "bounds": {
      "type": "array",
      "value": "number",
      "length": 4,
      "default": [
        -180,
        -85.051129,
        180,
        85.051129
      ],
      "doc": "An array containing the longitude and latitude of the southwest and northeast corners of the source's bounding box in the following order: `[sw.lng, sw.lat, ne.lng, ne.lat]`. When this property is included in a source, no tiles outside of the given bounds are requested by Mapbox GL."
    },
    "minzoom": {
      "type": "number",
      "default": 0,
      "doc": "Minimum zoom level for which tiles are available, as in the TileJSON spec."
    },
    "maxzoom": {
      "type": "number",
      "default": 22,
      "doc": "Maximum zoom level for which tiles are available, as in the TileJSON spec. Data from tiles at the maxzoom are used when displaying the map at higher zoom levels."
    },
    "tileSize": {
      "type": "number",
      "default": 512,
      "units": "pixels",
      "doc": "The minimum visual size to display tiles for this layer. Only configurable for raster layers."
    },
    "attribution": {
      "type": "string",
      "doc": "Contains an attribution to be displayed when the map is shown to a user."
    },
    "encoding": {
      "type": "enum",
      "values": {
        "terrarium": {
          "doc": "Terrarium format PNG tiles. See https://aws.amazon.com/es/public-datasets/terrain/ for more info."
        },
        "mapbox": {
          "doc": "Mapbox Terrain RGB tiles. See https://www.mapbox.com/help/access-elevation-data/#mapbox-terrain-rgb for more info."
        }
      },
      "default": "mapbox",
      "doc": "The encoding used by this source. Mapbox Terrain RGB is used by default"
    },
    "*": {
      "type": "*",
      "doc": "Other keys to configure the data source."
    }
  },
  "source_geojson": {
```

```
  "type": {
    "required": true,
    "type": "enum",
    "values": {
      "geojson": {
        "doc": "A GeoJSON data source."
      }
    },
    "doc": "The data type of the GeoJSON source."
  },
  "data": {
    "type": "*",
    "doc": "A URL to a GeoJSON file, or inline GeoJSON."
  },
  "maxzoom": {
    "type": "number",
    "default": 18,
    "doc": "Maximum zoom level at which to create vector tiles (higher means greater detail at high zoom levels)."
  },
  "attribution": {
    "type": "string",
    "doc": "Contains an attribution to be displayed when the map is shown to a user."
  },
  "buffer": {
    "type": "number",
    "default": 128,
    "maximum": 512,
    "minimum": 0,
    "doc": "Size of the tile buffer on each side. A value of 0 produces no buffer. A value of 512 produces a buffer as wide as the tile itself. Larger values produce fewer rendering artifacts near tile edges and slower performance."
  },
  "tolerance": {
    "type": "number",
    "default": 0.375,
    "doc": "Douglas-Peucker simplification tolerance (higher means simpler geometries and faster performance)."
  },
  "cluster": {
    "type": "boolean",
    "default": false,
    "doc": "If the data is a collection of point features, setting this to true clusters the points by radius into groups. Cluster groups become new `Point` features in the source with additional properties:\n * `cluster` Is `true` if the point is a cluster \n * `cluster_id` A unqiue id for the cluster to be used in conjunction with the [cluster inspection methods](https://www.mapbox.com/mapbox-gl-js/api/#geojsonsource#getclusterexpansionzoom)\n * `point_count` Number of original points grouped into this cluster\n * `point_count_abbreviated` An abbreviated point count"
  },
  "clusterRadius": {
    "type": "number",
    "default": 50,
      "minimum": 0,
      "doc": "Radius of each cluster if clustering is enabled. A value of 512 indicates a radius equal to the width of a tile."
    },
    "clusterMaxZoom": {
      "type": "number",
      "doc": "Max zoom on which to cluster points if clustering is enabled. Defaults to one zoom less than maxzoom (so that last zoom features are not clustered)."
    },
    "clusterProperties": {
      "type": "*",
      "doc": "An object defining custom properties on the generated clusters if clustering is enabled, aggregating values from clustered points. Has the form `{\"property_name\": [operator, map_expression]}`. `operator` is any expression function that accepts at least 2 operands (e.g. `\"+\"` or `\"max\"`)  it accumulates the property value from clusters/points the cluster contains; `map_expression` produces the value of a single point.\n\nExample: `{\"sum\": [\"+\", [\"get\", \"scalerank\"]]}`.\n\nFor more advanced use cases, in place of `operator`, you can use a custom reduce expression that references a special `[\"accumulated\"]` value, e.g.:\n`{\"sum\": [[\"+\", [\"accumulated\"], [\"get\", \"sum\"]], [\"get\", \"scalerank\"]]}`"
    },
    "lineMetrics": {
      "type": "boolean",
      "default": false,
      "doc": "Whether to calculate line distance metrics. This is required for line layers that specify `line-gradient` values."
    },
    "generateId": {
      "type": "boolean",
      "default": false,
      "doc": "Whether to generate ids for the geojson features. When enabled, the `feature.id` property will be auto assigned based on its index in the `features` array, over-writing any previous values."
    },
    "promoteId": {
      "type": "promoteId",
      "doc": "A property to use as a feature id (for feature state). Either a property name, or an object of the form `{<sourceLayer>: <propertyName>}`."
    }
  },
  "source_video": {
    "type": {
      "required": true,
      "type": "enum",
      "values": {
        "video": {
          "doc": "A video data source."
        }
      },
      "doc": "The data type of the video source."
    },
    "urls": {
      "required": true,
      "type": "array",
      "value": "string",
      "doc": "URLs to video content in order of preferred format."
    },
    "coordinates": {
      "required": true,
      "doc": "Corners of video specified in longitude, latitude pairs.",
      "type": "array",
      "length": 4,
      "value": {
        "type": "array",
        "length": 2,
        "value": "number",
        "doc": "A single longitude, latitude pair."
      }
    }
  },
  "source_image": {
    "type": {
      "required": true,
      "type": "enum",
      "values": {
        "image": {
          "doc": "An image data source."
        }
      },
      "doc": "The data type of the image source."
    },
    "url": {
      "required": true,
      "type": "string",
      "doc": "URL that points to an image."
    },
    "coordinates": {
      "required": true,
      "doc": "Corners of image specified in longitude, latitude pairs.",
      "type": "array",
      "length": 4,
      "value": {
        "type": "array",
        "length": 2,
        "value": "number",
        "doc": "A single longitude, latitude pair."
      }
    }
  },
  "layer": {
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      "doc": "Unique layer name.",
      "required": true
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    "type": {
      "type": "enum",
      "values": {
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          "doc": "A filled polygon with an optional stroked border.",
          "sdk-support": {
            "basic functionality": {
              "js": "0.10.0",
              "android": "2.0.1",
              "ios": "2.0.0",
              "macos": "0.1.0"
            }
          }
        },
        "line": {
          "doc": "A stroked line.",
          "sdk-support": {
            "basic functionality": {
              "js": "0.10.0",
              "android": "2.0.1",
              "ios": "2.0.0",
              "macos": "0.1.0"
            }
          }
        },
        "symbol": {
          "doc": "An icon or a text label.",
          "sdk-support": {
            "basic functionality": {
              "js": "0.10.0",
              "android": "2.0.1",
              "ios": "2.0.0",
              "macos": "0.1.0"
            }
          }
        },
        "circle": {
          "doc": "A filled circle.",
          "sdk-support": {
            "basic functionality": {
              "js": "0.10.0",
              "android": "2.0.1",
            "ios": "2.0.0",
            "macos": "0.1.0"
          }
        }
      },
      "heatmap": {
        "doc": "A heatmap.",
        "sdk-support": {
          "basic functionality": {
            "js": "0.41.0",
            "android": "6.0.0",
            "ios": "4.0.0",
            "macos": "0.7.0"
          }
        }
      },
      "fill-extrusion": {
        "doc": "An extruded (3D) polygon.",
        "sdk-support": {
          "basic functionality": {
            "js": "0.27.0",
            "android": "5.1.0",
            "ios": "3.6.0",
            "macos": "0.5.0"
          }
        }
      },
      "raster": {
        "doc": "Raster map textures such as satellite imagery.",
        "sdk-support": {
          "basic functionality": {
            "js": "0.10.0",
            "android": "2.0.1",
            "ios": "2.0.0",
            "macos": "0.1.0"
          }
        }
      },
      "hillshade": {
        "doc": "Client-side hillshading visualization based on DEM data. Currently, the implementation only supports Mapbox Terrain RGB and Mapzen Terrarium tiles.",
        "sdk-support": {
          "basic functionality": {
            "js": "0.43.0",
            "android": "6.0.0",
            "ios": "4.0.0",
            "macos": "0.7.0"
          }
        }
      },
      "background": {
        "doc": "The background color or pattern of the map.",
        "sdk-support": {
          "basic functionality": {
            "js": "0.10.0",
            "android": "2.0.1",
            "ios": "2.0.0",
            "macos": "0.1.0"
          }
        }
      }
    },
    "doc": "Rendering type of this layer.",
    "required": true
  },
  "metadata": {
    "type": "*",
    "doc": "Arbitrary properties useful to track with the layer, but do not influence rendering. Properties should be prefixed to avoid collisions, like 'mapbox:'."
  },
  "source": {
    "type": "string",
    "doc": "Name of a source description to be used for this layer. Required for all layer types except `background`."
  },
  "source-layer": {
    "type": "string",
    "doc": "Layer to use from a vector tile source. Required for vector tile sources; prohibited for all other source types, including GeoJSON sources."
  },
  "minzoom": {
    "type": "number",
    "minimum": 0,
    "maximum": 24,
    "doc": "The minimum zoom level for the layer. At zoom levels less than the minzoom, the layer will be hidden."
  },
  "maxzoom": {
    "type": "number",
    "minimum": 0,
    "maximum": 24,
    "doc": "The maximum zoom level for the layer. At zoom levels equal to or greater than the maxzoom, the layer will be hidden."
  },
  "filter": {
    "type": "filter",
    "doc": "A expression specifying conditions on source features. Only features that match the filter are displayed. Zoom expressions in filters are only evaluated at integer zoom levels. The `feature-state` expression is not supported
```

```
in filter expressions."
  },
  "layout": {
    "type": "layout",
    "doc": "Layout properties for the layer."
  },
  "paint": {
    "type": "paint",
    "doc": "Default paint properties for this layer."
  }
},
"layout": [
  "layout_fill",
  "layout_line",
  "layout_circle",
  "layout_heatmap",
  "layout_fill-extrusion",
  "layout_symbol",
  "layout_raster",
  "layout_hillshade",
  "layout_background"
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"layout_background": {
  "visibility": {
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    "values": {
      "visible": {
        "doc": "The layer is shown."
      },
      "none": {
        "doc": "The layer is not shown."
      }
    },
    "default": "visible",
    "doc": "Whether this layer is displayed.",
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        "js": "0.10.0",
        "android": "2.0.1",
        "ios": "2.0.0",
        "macos": "0.1.0"
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  }
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"layout_fill": {
  "fill-sort-key": {
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      "doc": "Sorts features in ascending order based on this value. Features with a higher sort key will appear above features with a lower sort key.",
      "sdk-support": {
        "basic functionality": {
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        "data-driven styling": {
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        }
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          "feature"
        ]
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      "values": {
        "visible": {
          "doc": "The layer is shown."
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        "none": {
          "doc": "The layer is not shown."
        }
      },
      "default": "visible",
      "doc": "Whether this layer is displayed.",
      "sdk-support": {
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          "android": "2.0.1",
          "ios": "2.0.0",
          "macos": "0.1.0"
        }
      },
      "property-type": "constant"
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  },
  "layout_circle": {
    "circle-sort-key": {
      "type": "number",
      "doc": "Sorts features in ascending order based on this value. Features with a higher sort key will appear above features with a lower sort key.",
    "sdk-support": {
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      "data-driven styling": {
        "js": "1.2.0"
      }
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      "parameters": [
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        "feature"
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      "none": {
        "doc": "The layer is not shown."
      }
    },
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    "doc": "Whether this layer is displayed.",
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        "ios": "2.0.0",
        "macos": "0.1.0"
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    },
    "property-type": "constant"
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"layout_heatmap": {
  "visibility": {
    "type": "enum",
    "values": {
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        "doc": "The layer is shown."
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      "none": {
        "doc": "The layer is not shown."
      }
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    "default": "visible",
    "doc": "Whether this layer is displayed.",
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        "android": "6.0.0",
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        "macos": "0.7.0"
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"layout_fill-extrusion": {
  "visibility": {
    "type": "enum",
    "values": {
      "visible": {
        "doc": "The layer is shown."
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      "none": {
        "doc": "The layer is not shown."
      }
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    "doc": "Whether this layer is displayed.",
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"layout_line": {
  "line-cap": {
    "type": "enum",
    "values": {
      "butt": {
        "doc": "A cap with a squared-off end which is drawn to the exact endpoint of the line."
      },
      "round": {
        "doc": "A cap with a rounded end which is drawn beyond the endpoint of the line at a radius of one-half of the line's width and centered on the endpoint of the line."
      },
      "square": {
        "doc": "A cap with a squared-off end which is drawn beyond the endpoint of the line at a distance of one-half of the line's width."
      }
    },
    "default": "butt",
    "doc": "The display of line endings.",
    "sdk-support": {
      "basic functionality": {
        "js": "0.10.0",
        "android": "2.0.1",
        "ios": "2.0.0",
        "macos": "0.1.0"
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  },
  "line-join": {
    "type": "enum",
    "values": {
      "bevel": {
        "doc": "A join with a squared-off end which is drawn beyond the endpoint of the line at a distance of one-half of the line's width."
      },
      "round": {
        "doc": "A join with a rounded end which is drawn beyond the endpoint of the line at a radius of one-half of the line's width and centered on the endpoint of the line."
      },
      "miter": {
        "doc": "A join with a sharp, angled corner which is drawn with the outer sides beyond the endpoint of the path until they meet."
      }
    },
    "default": "miter",
    "doc": "The display of lines when joining.",
    "sdk-support": {
      "basic functionality": {
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        "android": "2.0.1",
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      "macos": "0.1.0"
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    "data-driven styling": {
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      "feature"
    ]
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"line-miter-limit": {
  "type": "number",
  "default": 2,
  "doc": "Used to automatically convert miter joins to bevel joins for sharp angles.",
  "requires": [
    {
      "line-join": "miter"
    }
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    }
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    ]
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  "property-type": "data-constant"
},
"line-round-limit": {
  "type": "number",
  "default": 1.05,
  "doc": "Used to automatically convert round joins to miter joins for shallow angles.",
      "requires": [
        {
          "line-join": "round"
        }
      ],
      "sdk-support": {
        "basic functionality": {
          "js": "0.10.0",
          "android": "2.0.1",
          "ios": "2.0.0",
          "macos": "0.1.0"
        }
      },
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        "parameters": [
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        ]
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      "property-type": "data-constant"
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    "line-sort-key": {
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      "doc": "Sorts features in ascending order based on this value. Features with a higher sort key will appear above features with a lower sort key.",
      "sdk-support": {
        "basic functionality": {
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        "data-driven styling": {
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        "parameters": [
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      "values": {
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          "doc": "The layer is shown."
        },
    "none": {
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    }
   },
   "default": "visible",
   "doc": "Whether this layer is displayed.",
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     "android": "2.0.1",
     "ios": "2.0.0",
     "macos": "0.1.0"
    }
   },
   "property-type": "constant"
  }
 },
 "layout_symbol": {
  "symbol-placement": {
   "type": "enum",
   "values": {
    "point": {
     "doc": "The label is placed at the point where the geometry is located."
    },
    "line": {
     "doc": "The label is placed along the line of the geometry. Can only be used on `LineString` and `Polygon`
geometries."
    },
    "line-center": {
     "doc": "The label is placed at the center of the line of the geometry. Can only be used on `LineString` and
`Polygon` geometries. Note that a single feature in a vector tile may contain multiple line geometries."
    }
   },
   "default": "point",
   "doc": "Label placement relative to its geometry.",
   "sdk-support": {
    "basic functionality": {
     "js": "0.10.0",
     "android": "2.0.1",
     "ios": "2.0.0",
     "macos": "0.1.0"
    },
    "`line-center` value": {
     "js": "0.47.0",
     "android": "6.4.0",
     "ios": "4.3.0",
     "macos": "0.10.0"
    }
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      },
      "expression": {
        "interpolated": false,
        "parameters": [
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        ]
      },
      "property-type": "data-constant"
    },
    "symbol-spacing": {
      "type": "number",
      "default": 250,
      "minimum": 1,
      "units": "pixels",
      "doc": "Distance between two symbol anchors.",
      "requires": [
        {
          "symbol-placement": "line"
        }
      ],
      "sdk-support": {
        "basic functionality": {
          "js": "0.10.0",
          "android": "2.0.1",
          "ios": "2.0.0",
          "macos": "0.1.0"
        }
      },
      "expression": {
        "interpolated": true,
        "parameters": [
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        ]
      },
      "property-type": "data-constant"
    },
    "symbol-avoid-edges": {
      "type": "boolean",
      "default": false,
      "doc": "If true, the symbols will not cross tile edges to avoid mutual collisions. Recommended in layers that don't have enough padding in the vector tile to prevent collisions, or if it is a point symbol layer placed after a line symbol layer. When using a client that supports global collision detection, like Mapbox GL JS version 0.42.0 or greater, enabling this property is not needed to prevent clipped labels at tile boundaries.",
      "sdk-support": {
        "basic functionality": {
          "js": "0.10.0",
          "android": "2.0.1",
          "ios": "2.0.0",
          "macos": "0.1.0"
        }
      },
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        "parameters": [
          "zoom"
        ]
      },
      "property-type": "data-constant"
    },
    "symbol-sort-key": {
      "type": "number",
      "doc": "Sorts features in ascending order based on this value. Features with lower sort keys are drawn and placed first.  When `icon-allow-overlap` or `text-allow-overlap` is `false`, features with a lower sort key will have priority during placement. When `icon-allow-overlap` or `text-allow-overlap` is set to `true`, features with a higher sort key will overlap over features with a lower sort key.",
      "sdk-support": {
        "basic functionality": {
          "js": "0.53.0",
          "android": "7.4.0",
          "ios": "4.11.0",
          "macos": "0.14.0"
        },
        "data-driven styling": {
          "js": "0.53.0",
          "android": "7.4.0",
          "ios": "4.11.0",
          "macos": "0.14.0"
        }
      },
      "expression": {
        "interpolated": false,
        "parameters": [
          "zoom",
          "feature"
        ]
      },
      "property-type": "data-driven"
    },
    "symbol-z-order": {
      "type": "enum",
      "values": {
        "auto": {
          "doc": "If `symbol-sort-key` is set, sort based on that. Otherwise sort symbols by their y-position relative to the viewport."
        },
        "viewport-y": {
```

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      "doc": "Symbols will be sorted by their y-position relative to the viewport."
    },
    "source": {
      "doc": "Symbols will be rendered in the same order as the source data with no sorting applied."
    }
  },
  "default": "auto",
  "doc": "Controls the order in which overlapping symbols in the same layer are rendered",
  "sdk-support": {
    "basic functionality": {
      "js": "0.49.0",
      "android": "6.6.0",
      "ios": "4.5.0",
      "macos": "0.12.0"
    }
  },
  "expression": {
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    "parameters": [
      "zoom"
    ]
  },
  "property-type": "data-constant"
},
"icon-allow-overlap": {
  "type": "boolean",
  "default": false,
  "doc": "If true, the icon will be visible even if it collides with other previously drawn symbols.",
  "requires": [
    "icon-image"
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    }
  },
  "expression": {
    "interpolated": false,
    "parameters": [
      "zoom"
    ]
  },
  "property-type": "data-constant"
},
"icon-ignore-placement": {
    "type": "boolean",
    "default": false,
    "doc": "If true, other symbols can be visible even if they collide with the icon.",
    "requires": [
      "icon-image"
    ],
    "sdk-support": {
      "basic functionality": {
        "js": "0.10.0",
        "android": "2.0.1",
        "ios": "2.0.0",
        "macos": "0.1.0"
      }
    },
    "expression": {
      "interpolated": false,
      "parameters": [
        "zoom"
      ]
    },
    "property-type": "data-constant"
  },
  "icon-optional": {
    "type": "boolean",
    "default": false,
    "doc": "If true, text will display without their corresponding icons when the icon collides with other symbols and the text does not.",
    "requires": [
      "icon-image",
      "text-field"
    ],
    "sdk-support": {
      "basic functionality": {
        "js": "0.10.0",
        "android": "2.0.1",
        "ios": "2.0.0",
        "macos": "0.1.0"
      }
    },
    "expression": {
      "interpolated": false,
      "parameters": [
        "zoom"
      ]
    },
    "property-type": "data-constant"
  },
  "icon-rotation-alignment": {
      "type": "enum",
      "values": {
        "map": {
          "doc": "When `symbol-placement` is set to `point`, aligns icons east-west. When `symbol-placement` is set to `line` or `line-center`, aligns icon x-axes with the line."
        },
        "viewport": {
          "doc": "Produces icons whose x-axes are aligned with the x-axis of the viewport, regardless of the value of `symbol-placement`."
        },
        "auto": {
          "doc": "When `symbol-placement` is set to `point`, this is equivalent to `viewport`. When `symbol-placement` is set to `line` or `line-center`, this is equivalent to `map`."
        }
      },
      "default": "auto",
      "doc": "In combination with `symbol-placement`, determines the rotation behavior of icons.",
      "requires": [
        "icon-image"
      ],
      "sdk-support": {
        "basic functionality": {
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          "android": "2.0.1",
          "ios": "2.0.0",
          "macos": "0.1.0"
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        "`auto` value": {
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          "android": "4.2.0",
          "ios": "3.4.0",
          "macos": "0.3.0"
        }
      },
      "expression": {
        "interpolated": false,
        "parameters": [
          "zoom"
        ]
      },
      "property-type": "data-constant"
    },
    "icon-size": {
      "type": "number",
      "default": 1,
      "minimum": 0,
      "units": "factor of the original icon size",
      "doc": "Scales the original size of the icon by the provided factor. The new pixel size of the image will be the
```

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original pixel size multiplied by `icon-size`. 1 is the original size; 3 triples the size of the image.",
      "requires": [
        "icon-image"
      ],
      "sdk-support": {
        "basic functionality": {
          "js": "0.10.0",
          "android": "2.0.1",
          "ios": "2.0.0",
          "macos": "0.1.0"
        },
        "data-driven styling": {
          "js": "0.35.0",
          "android": "5.1.0",
          "ios": "3.6.0",
          "macos": "0.5.0"
        }
      },
      "expression": {
        "interpolated": true,
        "parameters": [
          "zoom",
          "feature"
        ]
      },
      "property-type": "data-driven"
    },
    "icon-text-fit": {
      "type": "enum",
      "values": {
        "none": {
          "doc": "The icon is displayed at its intrinsic aspect ratio."
        },
        "width": {
          "doc": "The icon is scaled in the x-dimension to fit the width of the text."
        },
        "height": {
          "doc": "The icon is scaled in the y-dimension to fit the height of the text."
        },
        "both": {
          "doc": "The icon is scaled in both x- and y-dimensions."
        }
      },
      "default": "none",
      "doc": "Scales the icon to fit around the associated text.",
      "requires": [
        "icon-image",
        "text-field"
      ],
      "sdk-support": {
        "basic functionality": {
          "js": "0.21.0",
          "android": "4.2.0",
          "ios": "3.4.0",
          "macos": "0.2.1"
        }
      },
      "expression": {
        "interpolated": false,
        "parameters": [
          "zoom"
        ]
      },
      "property-type": "data-constant"
    },
    "icon-text-fit-padding": {
      "type": "array",
      "value": "number",
      "length": 4,
      "default": [
        0,
        0,
        0,
        0
      ],
      "units": "pixels",
      "doc": "Size of the additional area added to dimensions determined by `icon-text-fit`, in clockwise order: top, right, bottom, left.",
      "requires": [
        "icon-image",
        "text-field",
        {
          "icon-text-fit": [
            "both",
            "width",
            "height"
          ]
        }
      ],
      "sdk-support": {
        "basic functionality": {
          "js": "0.21.0",
          "android": "4.2.0",
          "ios": "3.4.0",
          "macos": "0.2.1"
        }
```

```
  },
  "expression": {
    "interpolated": true,
    "parameters": [
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    ]
  },
  "property-type": "data-constant"
},
"icon-image": {
  "type": "resolvedImage",
  "doc": "Name of image in sprite to use for drawing an image background.",
  "tokens": true,
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    },
    "data-driven styling": {
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      "android": "5.1.0",
      "ios": "3.6.0",
      "macos": "0.5.0"
    }
  },
  "expression": {
    "interpolated": false,
    "parameters": [
      "zoom",
      "feature"
    ]
  },
  "property-type": "data-driven"
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"icon-rotate": {
  "type": "number",
  "default": 0,
  "period": 360,
  "units": "degrees",
  "doc": "Rotates the icon clockwise.",
  "requires": [
    "icon-image"
  ],
  "sdk-support": {
    "basic functionality": {
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      "type": "number",
      "default": 2,
      "minimum": 0,
      "units": "pixels",
      "doc": "Size of the additional area around the icon bounding box used for detecting symbol collisions.",
      "requires": [
        "icon-image"
      ],
      "sdk-support": {
        "basic functionality": {
          "js": "0.10.0",
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        "parameters": [
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        ]
      },
      "property-type": "data-constant"
    },
    "icon-keep-upright": {
      "type": "boolean",
      "default": false,
    "doc": "If true, the icon may be flipped to prevent it from being rendered upside-down.",
    "requires": [
      "icon-image",
      {
        "icon-rotation-alignment": "map"
      },
      {
        "symbol-placement": [
          "line",
          "line-center"
        ]
      }
    ],
    "sdk-support": {
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        "android": "2.0.1",
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        "macos": "0.1.0"
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    },
    "expression": {
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      "parameters": [
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  },
  "icon-offset": {
    "type": "array",
    "value": "number",
    "length": 2,
    "default": [
      0,
      0
    ],
    "doc": "Offset distance of icon from its anchor. Positive values indicate right and down, while negative values indicate left and up. Each component is multiplied by the value of `icon-size` to obtain the final offset in pixels. When combined with `icon-rotate` the offset will be as if the rotated direction was up.",
    "requires": [
      "icon-image"
    ],
    "sdk-support": {
      "basic functionality": {
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        "android": "2.0.1",
        "ios": "2.0.0",
      "macos": "0.1.0"
    },
    "data-driven styling": {
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      "android": "5.0.0",
      "ios": "3.5.0",
      "macos": "0.4.0"
    }
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  "expression": {
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      "feature"
    ]
  },
  "property-type": "data-driven"
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"icon-anchor": {
  "type": "enum",
  "values": {
    "center": {
      "doc": "The center of the icon is placed closest to the anchor."
    },
    "left": {
      "doc": "The left side of the icon is placed closest to the anchor."
    },
    "right": {
      "doc": "The right side of the icon is placed closest to the anchor."
    },
    "top": {
      "doc": "The top of the icon is placed closest to the anchor."
    },
    "bottom": {
      "doc": "The bottom of the icon is placed closest to the anchor."
    },
    "top-left": {
      "doc": "The top left corner of the icon is placed closest to the anchor."
    },
    "top-right": {
      "doc": "The top right corner of the icon is placed closest to the anchor."
    },
    "bottom-left": {
      "doc": "The bottom left corner of the icon is placed closest to the anchor."
    },
    "bottom-right": {
      "doc": "The bottom right corner of the icon is placed closest to the anchor."
    }
  },
  "default": "center",
  "doc": "Part of the icon placed closest to the anchor.",
  "requires": [
    "icon-image"
  ],
  "sdk-support": {
    "basic functionality": {
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      "macos": "0.6.0"
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      "feature"
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  "property-type": "data-driven"
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"icon-pitch-alignment": {
  "type": "enum",
  "values": {
    "map": {
      "doc": "The icon is aligned to the plane of the map."
    },
    "viewport": {
      "doc": "The icon is aligned to the plane of the viewport."
    },
    "auto": {
      "doc": "Automatically matches the value of `icon-rotation-alignment`."
    }
  },
  "default": "auto",
  "doc": "Orientation of icon when map is pitched.",
  "requires": [
    "icon-image"
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  "sdk-support": {
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    "parameters": [
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  "type": "enum",
  "values": {
    "map": {
      "doc": "The text is aligned to the plane of the map."
    },
    "viewport": {
      "doc": "The text is aligned to the plane of the viewport."
    },
    "auto": {
      "doc": "Automatically matches the value of `text-rotation-alignment`."
    }
  },
  "default": "auto",
  "doc": "Orientation of text when map is pitched.",
  "requires": [
    "text-field"
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  "sdk-support": {
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      "macos": "0.2.1"
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  "text-rotation-alignment": {
    "type": "enum",
    "values": {
      "map": {
        "doc": "When `symbol-placement` is set to `point`, aligns text east-west. When `symbol-placement` is set to `line` or `line-center`, aligns text x-axes with the line."
      },
      "viewport": {
        "doc": "Produces glyphs whose x-axes are aligned with the x-axis of the viewport, regardless of the value of `symbol-placement`."
      },
      "auto": {
        "doc": "When `symbol-placement` is set to `point`, this is equivalent to `viewport`. When `symbol-placement` is set to `line` or `line-center`, this is equivalent to `map`."
      }
    },
    "default": "auto",
    "doc": "In combination with `symbol-placement`, determines the rotation behavior of the individual glyphs forming the text.",
    "requires": [
      "text-field"
    ],
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        "macos": "0.3.0"
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      "parameters": [
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      ]
      },
      "property-type": "data-constant"
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    "text-field": {
      "type": "formatted",
      "default": "",
      "tokens": true,
      "doc": "Value to use for a text label. If a plain `string` is provided, it will be treated as a `formatted` with
default/inherited formatting options.",
      "sdk-support": {
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          "ios": "3.5.0",
          "macos": "0.4.0"
        }
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        "parameters": [
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        ]
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    "text-font": {
      "type": "array",
      "value": "string",
      "default": [
        "Open Sans Regular",
        "Arial Unicode MS Regular"
      ],
      "doc": "Font stack to use for displaying text.",
      "requires": [
        "text-field"
      ],
      "sdk-support": {
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          "android": "2.0.1",
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      "ios": "4.0.0",
      "macos": "0.7.0"
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  },
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    "parameters": [
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      "feature"
    ]
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"text-size": {
  "type": "number",
  "default": 16,
  "minimum": 0,
  "units": "pixels",
  "doc": "Font size.",
  "requires": [
    "text-field"
  ],
  "sdk-support": {
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      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
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      "feature"
    ]
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  "property-type": "data-driven"
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  "type": "number",
  "default": 10,
  "minimum": 0,
  "units": "ems",
  "doc": "The maximum line width for text wrapping.",
  "requires": [
    "text-field"
  ],
  "sdk-support": {
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      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
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      "macos": "0.6.0"
    }
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      "feature"
    ]
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  "property-type": "data-driven"
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  "type": "number",
  "default": 1.2,
  "units": "ems",
  "doc": "Text leading value for multi-line text.",
  "requires": [
    "text-field"
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
      }
    },
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      "parameters": [
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      ]
    },
    "property-type": "data-constant"
  },
  "text-letter-spacing": {
    "type": "number",
    "default": 0,
    "units": "ems",
    "doc": "Text tracking amount.",
    "requires": [
      "text-field"
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    "sdk-support": {
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        "macos": "0.6.0"
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      "parameters": [
        "zoom",
        "feature"
      ]
    },
    "property-type": "data-driven"
  },
  "text-justify": {
    "type": "enum",
    "values": {
      "auto": {
        "doc": "The text is aligned towards the anchor position."
      },
      "left": {
```

```
      "doc": "The text is aligned to the left."
    },
    "center": {
      "doc": "The text is centered."
    },
    "right": {
      "doc": "The text is aligned to the right."
    }
  },
  "default": "center",
  "doc": "Text justification options.",
  "requires": [
    "text-field"
  ],
  "sdk-support": {
    "basic functionality": {
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      "android": "2.0.1",
      "ios": "2.0.0",
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    "auto": {
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      "android": "7.4.0",
      "ios": "4.10.0",
      "macos": "0.14.0"
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  "expression": {
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    "parameters": [
      "zoom",
      "feature"
    ]
  },
  "property-type": "data-driven"
},
"text-radial-offset": {
  "type": "number",
  "units": "ems",
  "default": 0,
  "doc": "Radial offset of text, in the direction of the symbol's anchor. Useful in combination with `text-variable-
```

```
anchor`, which defaults to using the two-dimensional `text-offset` if present.",
    "sdk-support": {
      "basic functionality": {
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        "ios": "4.10.0",
        "macos": "0.14.0"
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        "macos": "0.14.0"
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    },
    "requires": [
      "text-field"
    ],
    "property-type": "data-driven",
    "expression": {
      "interpolated": true,
      "parameters": [
        "zoom",
        "feature"
      ]
    }
  },
  "text-variable-anchor": {
    "type": "array",
    "value": "enum",
    "values": {
      "center": {
        "doc": "The center of the text is placed closest to the anchor."
      },
      "left": {
        "doc": "The left side of the text is placed closest to the anchor."
      },
      "right": {
        "doc": "The right side of the text is placed closest to the anchor."
      },
      "top": {
        "doc": "The top of the text is placed closest to the anchor."
      },
      "bottom": {
        "doc": "The bottom of the text is placed closest to the anchor."
      },
      "top-left": {
        "doc": "The top left corner of the text is placed closest to the anchor."
      },
      "top-right": {
        "doc": "The top right corner of the text is placed closest to the anchor."
      },
      "bottom-left": {
        "doc": "The bottom left corner of the text is placed closest to the anchor."
      },
      "bottom-right": {
        "doc": "The bottom right corner of the text is placed closest to the anchor."
      }
    },
    "requires": [
      "text-field",
      {
        "symbol-placement": [
          "point"
        ]
      }
    ],
    "doc": "To increase the chance of placing high-priority labels on the map, you can provide an array of `text-anchor` locations: the renderer will attempt to place the label at each location, in order, before moving onto the next label. Use `text-justify: auto` to choose justification based on anchor position. To apply an offset, use the `text-radial-offset` or the two-dimensional `text-offset`.",
    "sdk-support": {
      "basic functionality": {
        "js": "0.54.0",
        "android": "7.4.0",
        "ios": "4.10.0",
        "macos": "0.14.0"
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    },
    "expression": {
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      "parameters": [
        "zoom"
      ]
    },
    "property-type": "data-constant"
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  "text-anchor": {
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    "values": {
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        "doc": "The center of the text is placed closest to the anchor."
      },
      "left": {
        "doc": "The left side of the text is placed closest to the anchor."
      },
  "right": {
    "doc": "The right side of the text is placed closest to the anchor."
  },
  "top": {
    "doc": "The top of the text is placed closest to the anchor."
  },
  "bottom": {
    "doc": "The bottom of the text is placed closest to the anchor."
  },
  "top-left": {
    "doc": "The top left corner of the text is placed closest to the anchor."
  },
  "top-right": {
    "doc": "The top right corner of the text is placed closest to the anchor."
  },
  "bottom-left": {
    "doc": "The bottom left corner of the text is placed closest to the anchor."
  },
  "bottom-right": {
    "doc": "The bottom right corner of the text is placed closest to the anchor."
  }
},
"default": "center",
"doc": "Part of the text placed closest to the anchor.",
"requires": [
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    "!": "text-variable-anchor"
  }
],
"sdk-support": {
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      "property-type": "data-driven"
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      "type": "number",
      "default": 45,
      "units": "degrees",
      "doc": "Maximum angle change between adjacent characters.",
      "requires": [
        "text-field",
        {
          "symbol-placement": [
            "line",
            "line-center"
          ]
        }
      ],
      "sdk-support": {
        "basic functionality": {
          "js": "0.10.0",
          "android": "2.0.1",
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          "macos": "0.1.0"
        }
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        "parameters": [
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        ]
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      "property-type": "data-constant"
    },
    "text-writing-mode": {
      "type": "array",
      "value": "enum",
      "values": {
        "horizontal": {
          "doc": "If a text's language supports horizontal writing mode, symbols with point placement would be laid out
horizontally."
        },
        "vertical": {
          "doc": "If a text's language supports vertical writing mode, symbols with point placement would be laid out
vertically."
        }
      },
      "doc": "The property allows control over a symbol's orientation. Note that the property values act as a hint, so that a symbol whose language doesnt support the provided orientation will be laid out in its natural orientation. Example: English point symbol will be rendered horizontally even if array value contains single 'vertical' enum value. The order of elements in an array define priority order for the placement of an orientation variant.",
      "requires": [
        "text-field",
        {
          "symbol-placement": [
            "point"
          ]
        }
      ],
      "sdk-support": {
        "basic functionality": {
          "js": "1.3.0",
          "android": "8.3.0",
          "ios": "5.3.0",
          "macos": "0.14.0"
        }
      },
      "expression": {
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        "parameters": [
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      },
      "property-type": "data-constant"
    },
    "text-rotate": {
      "type": "number",
      "default": 0,
      "period": 360,
      "units": "degrees",
      "doc": "Rotates the text clockwise.",
      "requires": [
        "text-field"
      ],
      "sdk-support": {
        "basic functionality": {
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          "android": "2.0.1",
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          "macos": "0.1.0"
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          "android": "5.1.0",
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      "macos": "0.5.0"
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      "feature"
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  "property-type": "data-driven"
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"text-padding": {
  "type": "number",
  "default": 2,
  "minimum": 0,
  "units": "pixels",
  "doc": "Size of the additional area around the text bounding box used for detecting symbol collisions.",
  "requires": [
    "text-field"
  ],
  "sdk-support": {
    "basic functionality": {
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      "ios": "2.0.0",
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    "parameters": [
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    ]
  },
  "property-type": "data-constant"
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"text-keep-upright": {
  "type": "boolean",
  "default": true,
  "doc": "If true, the text may be flipped vertically to prevent it from being rendered upside-down.",
  "requires": [
    "text-field",
    {
      "text-rotation-alignment": "map"
    },
    {
      "symbol-placement": [
        "line",
        "line-center"
      ]
    }
  ],
  "sdk-support": {
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      "ios": "2.0.0",
      "macos": "0.1.0"
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  },
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    "parameters": [
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    ]
  },
  "property-type": "data-constant"
},
"text-transform": {
  "type": "enum",
  "values": {
    "none": {
      "doc": "The text is not altered."
    },
    "uppercase": {
      "doc": "Forces all letters to be displayed in uppercase."
    },
    "lowercase": {
      "doc": "Forces all letters to be displayed in lowercase."
    }
  },
  "default": "none",
  "doc": "Specifies how to capitalize text, similar to the CSS `text-transform` property.",
  "requires": [
    "text-field"
  ],
  "sdk-support": {
    "basic functionality": {
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      "android": "2.0.1",
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        "ios": "3.5.0",
        "macos": "0.4.0"
      }
    },
    "expression": {
      "interpolated": false,
      "parameters": [
        "zoom",
        "feature"
      ]
    },
    "property-type": "data-driven"
  },
  "text-offset": {
    "type": "array",
    "doc": "Offset distance of text from its anchor. Positive values indicate right and down, while negative values indicate left and up. If used with text-variable-anchor, input values will be taken as absolute values. Offsets along the x- and y-axis will be applied automatically based on the anchor position.",
    "value": "number",
    "units": "ems",
    "length": 2,
    "default": [
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      0
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    "requires": [
      "text-field",
      {
        "!": "text-radial-offset"
      }
    ],
    "sdk-support": {
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        "js": "0.10.0",
        "android": "2.0.1",
        "ios": "2.0.0",
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        "android": "5.1.0",
        "ios": "3.6.0",
        "macos": "0.5.0"
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    "parameters": [
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      "feature"
    ]
  },
  "property-type": "data-driven"
},
"text-allow-overlap": {
  "type": "boolean",
  "default": false,
  "doc": "If true, the text will be visible even if it collides with other previously drawn symbols.",
  "requires": [
    "text-field"
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    }
  },
  "expression": {
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    "parameters": [
      "zoom"
    ]
  },
  "property-type": "data-constant"
},
"text-ignore-placement": {
  "type": "boolean",
  "default": false,
  "doc": "If true, other symbols can be visible even if they collide with the text.",
  "requires": [
    "text-field"
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    }
  },
  "expression": {
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    "parameters": [
        "zoom"
      ]
    },
    "property-type": "data-constant"
  },
  "text-optional": {
    "type": "boolean",
    "default": false,
    "doc": "If true, icons will display without their corresponding text when the text collides with other symbols and the icon does not.",
    "requires": [
      "text-field",
      "icon-image"
    ],
    "sdk-support": {
      "basic functionality": {
        "js": "0.10.0",
        "android": "2.0.1",
        "ios": "2.0.0",
        "macos": "0.1.0"
      }
    },
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      "parameters": [
        "zoom"
      ]
    },
    "property-type": "data-constant"
  },
  "visibility": {
    "type": "enum",
    "values": {
      "visible": {
        "doc": "The layer is shown."
      },
      "none": {
        "doc": "The layer is not shown."
      }
    },
    "default": "visible",
    "doc": "Whether this layer is displayed.",
    "sdk-support": {
      "basic functionality": {
        "js": "0.10.0",
        "android": "2.0.1",
        "ios": "2.0.0",
        "macos": "0.1.0"
        }
      },
      "property-type": "constant"
    }
  },
  "layout_raster": {
    "visibility": {
      "type": "enum",
      "values": {
        "visible": {
          "doc": "The layer is shown."
        },
        "none": {
          "doc": "The layer is not shown."
        }
      },
      "default": "visible",
      "doc": "Whether this layer is displayed.",
      "sdk-support": {
        "basic functionality": {
          "js": "0.10.0",
          "android": "2.0.1",
          "ios": "2.0.0",
          "macos": "0.1.0"
        }
      },
      "property-type": "constant"
    }
  },
  "layout_hillshade": {
    "visibility": {
      "type": "enum",
      "values": {
        "visible": {
          "doc": "The layer is shown."
        },
        "none": {
          "doc": "The layer is not shown."
        }
      },
      "default": "visible",
      "doc": "Whether this layer is displayed.",
      "sdk-support": {
        "basic functionality": {
          "js": "0.43.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
      }
    },
    "property-type": "constant"
  }
},
"filter": {
  "type": "array",
  "value": "*",
  "doc": "A filter selects specific features from a layer."
},
"filter_operator": {
  "type": "enum",
  "values": {
    "==": {
      "doc": "`[\"==\", key, value]` equality: `feature[key] = value`"
    },
    "!=": {
      "doc": "`[\"!=\", key, value]` inequality: `feature[key]  value`"
    },
    ">": {
      "doc": "`[\">\", key, value]` greater than: `feature[key] > value`"
    },
    ">=": {
      "doc": "`[\">=\", key, value]` greater than or equal: `feature[key]  value`"
    },
    "<": {
      "doc": "`[\"<\", key, value]` less than: `feature[key] < value`"
    },
    "<=": {
      "doc": "`[\"<=\", key, value]` less than or equal: `feature[key]  value`"
    },
    "in": {
      "doc": "`[\"in\", key, v0, ..., vn]` set inclusion: `feature[key]  {v0, ..., vn}`"
    },
    "!in": {
      "doc": "`[\"!in\", key, v0, ..., vn]` set exclusion: `feature[key]  {v0, ..., vn}`"
    },
    "all": {
      "doc": "`[\"all\", f0, ..., fn]` logical `AND`: `f0  ...  fn`"
    },
    "any": {
      "doc": "`[\"any\", f0, ..., fn]` logical `OR`: `f0  ...  fn`"
    },
    "none": {
      "doc": "`[\"none\", f0, ..., fn]` logical `NOR`: `f0  ...  fn`"
    },
    "has": {
      "doc": "`[\"has\", key]` `feature[key]` exists"
      },
      "!has": {
        "doc": "`[\"!has\", key]` `feature[key]` does not exist"
      }
    },
    "doc": "The filter operator."
  },
  "geometry_type": {
    "type": "enum",
    "values": {
      "Point": {
        "doc": "Filter to point geometries."
      },
      "LineString": {
        "doc": "Filter to line geometries."
      },
      "Polygon": {
        "doc": "Filter to polygon geometries."
      }
    },
    "doc": "The geometry type for the filter to select."
  },
  "function": {
    "expression": {
      "type": "expression",
      "doc": "An expression."
    },
    "stops": {
      "type": "array",
      "doc": "An array of stops.",
      "value": "function_stop"
    },
    "base": {
      "type": "number",
      "default": 1,
      "minimum": 0,
      "doc": "The exponential base of the interpolation curve. It controls the rate at which the result increases. Higher values make the result increase more towards the high end of the range. With `1` the stops are interpolated linearly."
    },
    "property": {
      "type": "string",
      "doc": "The name of a feature property to use as the function input.",
      "default": "$zoom"
    },
    "type": {
      "type": "enum",
      "values": {
        "identity": {
          "doc": "Return the input value as the output value."
        },
        "exponential": {
          "doc": "Generate an output by interpolating between stops just less than and just greater than the function input."
        },
        "interval": {
          "doc": "Return the output value of the stop just less than the function input."
        },
        "categorical": {
          "doc": "Return the output value of the stop equal to the function input."
        }
      },
      "doc": "The interpolation strategy to use in function evaluation.",
      "default": "exponential"
    },
    "colorSpace": {
      "type": "enum",
      "values": {
        "rgb": {
          "doc": "Use the RGB color space to interpolate color values"
        },
        "lab": {
          "doc": "Use the LAB color space to interpolate color values."
        },
        "hcl": {
          "doc": "Use the HCL color space to interpolate color values, interpolating the Hue, Chroma, and Luminance channels individually."
        }
      },
      "doc": "The color space in which colors interpolated. Interpolating colors in perceptual color spaces like LAB and HCL tend to produce color ramps that look more consistent and produce colors that can be differentiated more easily than those interpolated in RGB space.",
      "default": "rgb"
    },
    "default": {
      "type": "*",
      "required": false,
      "doc": "A value to serve as a fallback function result when a value isn't otherwise available. It is used in the following circumstances:\n* In categorical functions, when the feature value does not match any of the stop domain values.\n* In property and zoom-and-property functions, when a feature does not contain a value for the specified property.\n* In identity functions, when the feature value is not valid for the style property (for example, if the function is being used for a `circle-color` property but the feature property value is not a string or not a valid color).\n* In interval or exponential property and zoom-and-property functions, when the feature value is not numeric.\nIf no default is provided, the style property's default is used in these circumstances."
    }
  },
  "function_stop": {
    "type": "array",
    "minimum": 0,
    "maximum": 24,
    "value": [
      "number",
      "color"
    ],
    "length": 2,
    "doc": "Zoom level and value pair."
  },
  "expression": {
    "type": "array",
    "value": "*",
    "minimum": 1,
    "doc": "An expression defines a function that can be used for data-driven style properties or feature filters."
  },
  "expression_name": {
    "doc": "",
    "type": "enum",
    "values": {
      "let": {
        "doc": "Binds expressions to named variables, which can then be referenced in the result expression using [\"var\", \"variable_name\"].",
        "group": "Variable binding",
        "sdk-support": {
          "basic functionality": {
            "js": "0.41.0",
            "android": "6.0.0",
            "ios": "4.0.0",
            "macos": "0.7.0"
          }
        }
      },
      "var": {
        "doc": "References variable bound using \"let\".",
        "group": "Variable binding",
        "sdk-support": {
          "basic functionality": {
            "js": "0.41.0",
            "android": "6.0.0",
            "ios": "4.0.0",
            "macos": "0.7.0"
          }
        }
      },
      "literal": {
        "doc": "Provides a literal array or object value.",
        "group": "Types",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "array": {
      "doc": "Asserts that the input is an array (optionally with a specific item type and length).  If, when the input expression is evaluated, it is not of the asserted type, then this assertion will cause the whole expression to be aborted.",
      "group": "Types",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "at": {
      "doc": "Retrieves an item from an array.",
      "group": "Lookup",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "in": {
      "doc": "Determines whether an item exists in an array or a substring exists in a string.",
      "group": "Lookup",
      "sdk-support": {
        "basic functionality": {
          "js": "1.6.0"
        }
      }
    },
    "index-of": {
      "doc": "Returns the first index at which a given element can be found in an array, or for a string, the first occurrence of the specified value. If a second argument is provided, then the search is started from that position. Returns -1 if the value is not found.",
      "group": "Lookup",
      "sdk-support": {
        "basic functionality": {
          "js": "1.10.0"
        }
      }
    },
    "case": {
      "doc": "Selects the first output whose corresponding test condition evaluates to true, or the fallback value otherwise.",
      "group": "Decision",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "match": {
      "doc": "Selects the output whose label value matches the input value, or the fallback value if no match is found. The input can be any expression (e.g. `[\"get\", \"building_type\"]`). Each label must be either:\n * a single literal value; or\n * an array of literal values, whose values must be all strings or all numbers (e.g. `[100, 101]` or `[\"c\", \"b\"]`). The input matches if any of the values in the array matches, similar to the `\"in\"` operator.\n\nEach label must be unique. If the input type does not match the type of the labels, the result will be the fallback value.",
      "group": "Decision",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "coalesce": {
      "doc": "Evaluates each expression in turn until the first non-null value is obtained, and returns that value.",
      "group": "Decision",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "step": {
      "doc": "Produces discrete, stepped results by evaluating a piecewise-constant function defined by pairs of input and output values (\"stops\"). The `input` may be any numeric expression (e.g., `[\"get\", \"population\"]`). Stop inputs must be numeric literals in strictly ascending order. Returns the output value of the stop just less than the input, or the first output if the input is less than the first stop.",
      "group": "Ramps, scales, curves",
      "sdk-support": {
        "basic functionality": {
          "js": "0.42.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "interpolate": {
      "doc": "Produces continuous, smooth results by interpolating between pairs of input and output values (\"stops\"). The `input` may be any numeric expression (e.g., `[\"get\", \"population\"]`). Stop inputs must be numeric literals in strictly ascending order. The output type must be `number`, `array<number>`, or `color`.\n\nInterpolation types:\n- `[\"linear\"]`: interpolates linearly between the pair of stops just less than and just greater than the input.\n- `[\"exponential\", base]`: interpolates exponentially between the stops just less than and just greater than the input. `base` controls the rate at which the output increases: higher values make the output increase more towards the high end of the range. With values close to 1 the output increases linearly.\n- `[\"cubic-bezier\", x1, y1, x2, y2]`: interpolates using the cubic bezier curve defined by the given control points.",
      "group": "Ramps, scales, curves",
      "sdk-support": {
        "basic functionality": {
          "js": "0.42.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "interpolate-hcl": {
      "doc": "Produces continuous, smooth results by interpolating between pairs of input and output values (\"stops\"). Works like `interpolate`, but the output type must be `color`, and the interpolation is performed in the Hue-Chroma-Luminance color space.",
      "group": "Ramps, scales, curves",
      "sdk-support": {
        "basic functionality": {
          "js": "0.49.0"
        }
      }
    },
    "interpolate-lab": {
      "doc": "Produces continuous, smooth results by interpolating between pairs of input and output values (\"stops\"). Works like `interpolate`, but the output type must be `color`, and the interpolation is performed in the
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CIELAB color space.",
      "group": "Ramps, scales, curves",
      "sdk-support": {
        "basic functionality": {
          "js": "0.49.0"
        }
      }
    },
    "ln2": {
      "doc": "Returns mathematical constant ln(2).",
      "group": "Math",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "pi": {
      "doc": "Returns the mathematical constant pi.",
      "group": "Math",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "e": {
      "doc": "Returns the mathematical constant e.",
      "group": "Math",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "typeof": {
      "doc": "Returns a string describing the type of the given value.",
      "group": "Types",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "string": {
      "doc": "Asserts that the input value is a string. If multiple values are provided, each one is evaluated in order until a string is obtained. If none of the inputs are strings, the expression is an error.",
      "group": "Types",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "number": {
      "doc": "Asserts that the input value is a number. If multiple values are provided, each one is evaluated in order until a number is obtained. If none of the inputs are numbers, the expression is an error.",
      "group": "Types",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "boolean": {
      "doc": "Asserts that the input value is a boolean. If multiple values are provided, each one is evaluated in order until a boolean is obtained. If none of the inputs are booleans, the expression is an error.",
      "group": "Types",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "object": {
      "doc": "Asserts that the input value is an object. If multiple values are provided, each one is evaluated in order until an object is obtained. If none of the inputs are objects, the expression is an error.",
      "group": "Types",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "collator": {
      "doc": "Returns a `collator` for use in locale-dependent comparison operations. The `case-sensitive` and `diacritic-sensitive` options default to `false`. The `locale` argument specifies the IETF language tag of the locale to use. If none is provided, the default locale is used. If the requested locale is not available, the `collator` will use a system-defined fallback locale. Use `resolved-locale` to test the results of locale fallback behavior.",
      "group": "Types",
      "sdk-support": {
        "basic functionality": {
          "js": "0.45.0",
          "android": "6.5.0",
          "ios": "4.2.0",
          "macos": "0.9.0"
        }
      }
    },
    "format": {
      "doc": "Returns `formatted` text containing annotations for use in mixed-format `text-field` entries. For a `text-field` entries of a string type, following option object's properties are supported: If set, the `text-font` value overrides the font specified by the root layout properties. If set, the `font-scale` value specifies a scaling factor relative to the `text-size` specified in the root layout properties. If set, the `text-color` value overrides the color specified by the root paint properties for this layer.",
      "group": "Types",
      "sdk-support": {
        "basic functionality": {
          "js": "0.48.0",
          "android": "6.7.0",
          "ios": "4.6.0",
          "macos": "0.12.0"
        },
        "text-font": {
          "js": "0.48.0",
          "android": "6.7.0",
          "ios": "4.6.0",
          "macos": "0.12.0"
        },
        "font-scale": {
          "js": "0.48.0",
          "android": "6.7.0",
          "ios": "4.6.0",
          "macos": "0.12.0"
        },
        "text-color": {
          "js": "1.3.0",
          "android": "7.3.0",
          "ios": "4.10.0",
          "macos": "0.14.0"
        },
        "image": {
          "js": "1.6.0"
        }
      }
    },
    "image": {
      "doc": "Returns an `image` type for use in `icon-image`, `*-pattern` entries and as a section in the `format` expression. If set, the `image` argument will check that the requested image exists in the style and will return either the resolved image name or `null`, depending on whether or not the image is currently in the style. This validation process is synchronous and requires the image to have been added to the style before requesting it in the `image` argument.",
      "group": "Types",
      "sdk-support": {
        "basic functionality": {
          "js": "1.4.0",
          "android": "8.6.0",
          "ios": "5.6.0"
        }
      }
    },
    "number-format": {
      "doc": "Converts the input number into a string representation using the providing formatting rules. If set, the `locale` argument specifies the locale to use, as a BCP 47 language tag. If set, the `currency` argument specifies an ISO 4217 code to use for currency-style formatting. If set, the `min-fraction-digits` and `max-fraction-digits` arguments specify the minimum and maximum number of fractional digits to include.",
      "group": "Types",
      "sdk-support": {
        "basic functionality": {
          "js": "0.54.0"
        }
      }
    },
    "to-string": {
      "doc": "Converts the input value to a string. If the input is `null`, the result is `\"\"`. If the input is a boolean, the result is `\"true\"` or `\"false\"`. If the input is a number, it is converted to a string as specified by the [\"NumberToString\" algorithm](https://tc39.github.io/ecma262/#sec-tostring-applied-to-the-number-type) of the ECMAScript Language Specification. If the input is a color, it is converted to a string of the form `\"rgba(r,g,b,a)\"`,
where `r`, `g`, and `b` are numerals ranging from 0 to 255, and `a` ranges from 0 to 1. Otherwise, the input is converted to a string in the format specified by the [`JSON.stringify`](https://tc39.github.io/ecma262/#sec-json.stringify) function of the ECMAScript Language Specification.",
      "group": "Types",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "to-number": {
      "doc": "Converts the input value to a number, if possible. If the input is `null` or `false`, the result is 0. If the input is `true`, the result is 1. If the input is a string, it is converted to a number as specified by the [\"ToNumber Applied to the String Type\" algorithm](https://tc39.github.io/ecma262/#sec-tonumber-applied-to-the-string-type) of the ECMAScript Language Specification. If multiple values are provided, each one is evaluated in order until the first successful conversion is obtained. If none of the inputs can be converted, the expression is an error.",
      "group": "Types",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "to-boolean": {
      "doc": "Converts the input value to a boolean. The result is `false` when then input is an empty string, 0, `false`, `null`, or `NaN`; otherwise it is `true`.",
      "group": "Types",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "to-rgba": {
      "doc": "Returns a four-element array containing the input color's red, green, blue, and alpha components, in that order.",
      "group": "Color",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "to-color": {
      "doc": "Converts the input value to a color. If multiple values are provided, each one is evaluated in order until the first successful conversion is obtained. If none of the inputs can be converted, the expression is an error.",
      "group": "Types",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "rgb": {
      "doc": "Creates a color value from red, green, and blue components, which must range between 0 and 255, and an alpha component of 1. If any component is out of range, the expression is an error.",
      "group": "Color",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "rgba": {
      "doc": "Creates a color value from red, green, blue components, which must range between 0 and 255, and an alpha component which must range between 0 and 1. If any component is out of range, the expression is an error.",
      "group": "Color",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "get": {
      "doc": "Retrieves a property value from the current feature's properties, or from another object if a second
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argument is provided. Returns null if the requested property is missing.",
        "group": "Lookup",
        "sdk-support": {
          "basic functionality": {
            "js": "0.41.0",
            "android": "6.0.0",
            "ios": "4.0.0",
            "macos": "0.7.0"
          }
        }
      },
      "has": {
        "doc": "Tests for the presence of an property value in the current feature's properties, or from another object if a
second argument is provided.",
        "group": "Lookup",
        "sdk-support": {
          "basic functionality": {
            "js": "0.41.0",
            "android": "6.0.0",
            "ios": "4.0.0",
            "macos": "0.7.0"
          }
        }
      },
      "length": {
        "doc": "Gets the length of an array or string.",
        "group": "Lookup",
        "sdk-support": {
          "basic functionality": {
            "js": "0.41.0",
            "android": "6.0.0",
            "ios": "4.0.0",
            "macos": "0.7.0"
          }
        }
      },
      "properties": {
        "doc": "Gets the feature properties object.  Note that in some cases, it may be more efficient to use [\"get\",
\"property_name\"] directly.",
        "group": "Feature data",
        "sdk-support": {
          "basic functionality": {
            "js": "0.41.0",
            "android": "6.0.0",
            "ios": "4.0.0",
            "macos": "0.7.0"
          }
        }
```

```
    },
    "feature-state": {
      "doc": "Retrieves a property value from the current feature's state. Returns null if the requested property is not present on the feature's state. A feature's state is not part of the GeoJSON or vector tile data, and must be set programmatically on each feature. Features are identified by their `id` attribute, which must be an integer or a string that can be cast to an integer. Note that [\"feature-state\"] can only be used with paint properties that support data-driven styling.",
      "group": "Feature data",
      "sdk-support": {
        "basic functionality": {
          "js": "0.46.0"
        }
      }
    },
    "geometry-type": {
      "doc": "Gets the feature's geometry type: Point, MultiPoint, LineString, MultiLineString, Polygon, MultiPolygon.",
      "group": "Feature data",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "id": {
      "doc": "Gets the feature's id, if it has one.",
      "group": "Feature data",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "zoom": {
      "doc": "Gets the current zoom level.  Note that in style layout and paint properties, [\"zoom\"] may only appear as the input to a top-level \"step\" or \"interpolate\" expression.",
      "group": "Zoom",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
            "macos": "0.7.0"
          }
        }
      },
      "heatmap-density": {
        "doc": "Gets the kernel density estimation of a pixel in a heatmap layer, which is a relative measure of how many data points are crowded around a particular pixel. Can only be used in the `heatmap-color` property.",
        "group": "Heatmap",
        "sdk-support": {
          "basic functionality": {
            "js": "0.41.0",
            "android": "6.0.0",
            "ios": "4.0.0",
            "macos": "0.7.0"
          }
        }
      },
      "line-progress": {
        "doc": "Gets the progress along a gradient line. Can only be used in the `line-gradient` property.",
        "group": "Feature data",
        "sdk-support": {
          "basic functionality": {
            "js": "0.45.0",
            "android": "6.5.0",
            "ios": "4.6.0",
            "macos": "0.12.0"
          }
        }
      },
      "accumulated": {
        "doc": "Gets the value of a cluster property accumulated so far. Can only be used in the `clusterProperties` option of a clustered GeoJSON source.",
        "group": "Feature data",
        "sdk-support": {
          "basic functionality": {
            "js": "0.53.0"
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      },
      "+": {
        "doc": "Returns the sum of the inputs.",
        "group": "Math",
        "sdk-support": {
          "basic functionality": {
            "js": "0.41.0",
            "android": "6.0.0",
            "ios": "4.0.0",
            "macos": "0.7.0"
      }
    }
  },
  "*": {
    "doc": "Returns the product of the inputs.",
    "group": "Math",
    "sdk-support": {
      "basic functionality": {
        "js": "0.41.0",
        "android": "6.0.0",
        "ios": "4.0.0",
        "macos": "0.7.0"
      }
    }
  },
  "-": {
    "doc": "For two inputs, returns the result of subtracting the second input from the first. For a single input,
returns the result of subtracting it from 0.",
    "group": "Math",
    "sdk-support": {
      "basic functionality": {
        "js": "0.41.0",
        "android": "6.0.0",
        "ios": "4.0.0",
        "macos": "0.7.0"
      }
    }
  },
  "/": {
    "doc": "Returns the result of floating point division of the first input by the second.",
    "group": "Math",
    "sdk-support": {
      "basic functionality": {
        "js": "0.41.0",
        "android": "6.0.0",
        "ios": "4.0.0",
        "macos": "0.7.0"
      }
    }
  },
  "%": {
    "doc": "Returns the remainder after integer division of the first input by the second.",
    "group": "Math",
    "sdk-support": {
      "basic functionality": {
        "js": "0.41.0",
        "android": "6.0.0",
        "ios": "4.0.0",
        "macos": "0.7.0"
      }
    }
  },
  "^": {
    "doc": "Returns the result of raising the first input to the power specified by the second.",
    "group": "Math",
    "sdk-support": {
      "basic functionality": {
        "js": "0.41.0",
        "android": "6.0.0",
        "ios": "4.0.0",
        "macos": "0.7.0"
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  "sqrt": {
    "doc": "Returns the square root of the input.",
    "group": "Math",
    "sdk-support": {
      "basic functionality": {
        "js": "0.42.0",
        "android": "6.0.0",
        "ios": "4.0.0",
        "macos": "0.7.0"
      }
    }
  },
  "log10": {
    "doc": "Returns the base-ten logarithm of the input.",
    "group": "Math",
    "sdk-support": {
      "basic functionality": {
        "js": "0.41.0",
        "android": "6.0.0",
        "ios": "4.0.0",
        "macos": "0.7.0"
      }
    }
  },
  "ln": {
    "doc": "Returns the natural logarithm of the input.",
    "group": "Math",
    "sdk-support": {
      "basic functionality": {
        "js": "0.41.0",
        "android": "6.0.0",
        "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"log2": {
  "doc": "Returns the base-two logarithm of the input.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
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"sin": {
  "doc": "Returns the sine of the input.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"cos": {
  "doc": "Returns the cosine of the input.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"tan": {
  "doc": "Returns the tangent of the input.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"asin": {
  "doc": "Returns the arcsine of the input.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"acos": {
  "doc": "Returns the arccosine of the input.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
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  }
},
"atan": {
  "doc": "Returns the arctangent of the input.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"min": {
  "doc": "Returns the minimum value of the inputs.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "max": {
      "doc": "Returns the maximum value of the inputs.",
      "group": "Math",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "round": {
      "doc": "Rounds the input to the nearest integer. Halfway values are rounded away from zero. For example,
`[\"round\", -1.5]` evaluates to -2.",
      "group": "Math",
      "sdk-support": {
        "basic functionality": {
          "js": "0.45.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "abs": {
      "doc": "Returns the absolute value of the input.",
      "group": "Math",
      "sdk-support": {
        "basic functionality": {
          "js": "0.45.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "ceil": {
      "doc": "Returns the smallest integer that is greater than or equal to the input.",
      "group": "Math",
      "sdk-support": {
        "basic functionality": {
          "js": "0.45.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "floor": {
      "doc": "Returns the largest integer that is less than or equal to the input.",
      "group": "Math",
      "sdk-support": {
        "basic functionality": {
          "js": "0.45.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "==": {
      "doc": "Returns `true` if the input values are equal, `false` otherwise. The comparison is strictly typed: values of different runtime types are always considered unequal. Cases where the types are known to be different at parse time are considered invalid and will produce a parse error. Accepts an optional `collator` argument to control locale-dependent string comparisons.",
      "group": "Decision",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        },
        "collator": {
          "js": "0.45.0",
          "android": "6.5.0",
          "ios": "4.2.0",
          "macos": "0.9.0"
        }
      }
    },
    "!=": {
      "doc": "Returns `true` if the input values are not equal, `false` otherwise. The comparison is strictly typed: values of different runtime types are always considered unequal. Cases where the types are known to be different at parse time are considered invalid and will produce a parse error. Accepts an optional `collator` argument to control locale-dependent string comparisons.",
      "group": "Decision",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        },
        "collator": {
          "js": "0.45.0",
          "android": "6.5.0",
          "ios": "4.2.0",
          "macos": "0.9.0"
        }
      }
    },
    ">": {
      "doc": "Returns `true` if the first input is strictly greater than the second, `false` otherwise. The arguments are required to be either both strings or both numbers; if during evaluation they are not, expression evaluation produces an error. Cases where this constraint is known not to hold at parse time are considered in valid and will produce a parse error. Accepts an optional `collator` argument to control locale-dependent string comparisons.",
      "group": "Decision",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        },
        "collator": {
          "js": "0.45.0",
          "android": "6.5.0",
          "ios": "4.2.0",
          "macos": "0.9.0"
        }
      }
    },
    "<": {
      "doc": "Returns `true` if the first input is strictly less than the second, `false` otherwise. The arguments are required to be either both strings or both numbers; if during evaluation they are not, expression evaluation produces an error. Cases where this constraint is known not to hold at parse time are considered in valid and will produce a parse error. Accepts an optional `collator` argument to control locale-dependent string comparisons.",
      "group": "Decision",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        },
        "collator": {
          "js": "0.45.0",
          "android": "6.5.0",
          "ios": "4.2.0",
          "macos": "0.9.0"
        }
      }
    },
    ">=": {
      "doc": "Returns `true` if the first input is greater than or equal to the second, `false` otherwise. The arguments are required to be either both strings or both numbers; if during evaluation they are not, expression evaluation produces an error. Cases where this constraint is known not to hold at parse time are considered in valid and will produce a parse error. Accepts an optional `collator` argument to control locale-dependent string comparisons.",
      "group": "Decision",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
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        "collator": {
          "js": "0.45.0",
          "android": "6.5.0",
          "ios": "4.2.0",
          "macos": "0.9.0"
        }
      }
    },
    "<=": {
      "doc": "Returns `true` if the first input is less than or equal to the second, `false` otherwise. The arguments are required to be either both strings or both numbers; if during evaluation they are not, expression evaluation produces an error. Cases where this constraint is known not to hold at parse time are considered in valid and will produce a parse error. Accepts an optional `collator` argument to control locale-dependent string comparisons.",
      "group": "Decision",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        },
        "collator": {
          "js": "0.45.0",
          "android": "6.5.0",
          "ios": "4.2.0",
          "macos": "0.9.0"
        }
      }
    },
    "all": {
```

```
    "doc": "Returns `true` if all the inputs are `true`, `false` otherwise. The inputs are evaluated in order, and evaluation is short-circuiting: once an input expression evaluates to `false`, the result is `false` and no further input expressions are evaluated.",
    "group": "Decision",
    "sdk-support": {
     "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
     }
    }
   },
   "any": {
    "doc": "Returns `true` if any of the inputs are `true`, `false` otherwise. The inputs are evaluated in order, and evaluation is short-circuiting: once an input expression evaluates to `true`, the result is `true` and no further input expressions are evaluated.",
    "group": "Decision",
    "sdk-support": {
     "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
     }
    }
   },
   "!": {
    "doc": "Logical negation. Returns `true` if the input is `false`, and `false` if the input is `true`.",
    "group": "Decision",
    "sdk-support": {
     "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
     }
    }
   },
   "within": {
    "doc": "Returns `true` if the feature being evaluated is inside the pre-defined geometry boundary, `false` otherwise. The expression has one argument which must be a valid GeoJSON Polygon/Multi-Polygon object. The expression only evaluates on `Point` or `LineString` feature. For `Point` feature, The expression will return false if any point of the feature is on the boundary or outside the boundary. For `LineString` feature, the expression will return false if the line is fully outside the boundary, or the line is partially intersecting the boundary, which means either part of the line is outside of the boundary, or end point of the line lies on the boundary.",
    "group": "Decision",
    "sdk-support": {
        "basic functionality": {
          "js": "1.9.0"
        }
      }
    },
    "is-supported-script": {
      "doc": "Returns `true` if the input string is expected to render legibly. Returns `false` if the input string contains sections that cannot be rendered without potential loss of meaning (e.g. Indic scripts that require complex text shaping, or right-to-left scripts if the the `mapbox-gl-rtl-text` plugin is not in use in Mapbox GL JS).",
      "group": "String",
      "sdk-support": {
        "basic functionality": {
          "js": "0.45.0",
          "android": "6.6.0"
        }
      }
    },
    "upcase": {
      "doc": "Returns the input string converted to uppercase. Follows the Unicode Default Case Conversion algorithm and the locale-insensitive case mappings in the Unicode Character Database.",
      "group": "String",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "downcase": {
      "doc": "Returns the input string converted to lowercase. Follows the Unicode Default Case Conversion algorithm and the locale-insensitive case mappings in the Unicode Character Database.",
      "group": "String",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "concat": {
      "doc": "Returns a `string` consisting of the concatenation of the inputs. Each input is converted to a string as if by `to-string`.",
      "group": "String",
      "sdk-support": {
        "basic functionality": {
          "js": "0.41.0",
          "android": "6.0.0",
          "ios": "4.0.0",
          "macos": "0.7.0"
        }
      }
    },
    "resolved-locale": {
      "doc": "Returns the IETF language tag of the locale being used by the provided `collator`. This can be used to determine the default system locale, or to determine if a requested locale was successfully loaded.",
      "group": "String",
      "sdk-support": {
        "basic functionality": {
          "js": "0.45.0",
          "android": "6.5.0",
          "ios": "4.2.0",
          "macos": "0.9.0"
        }
      }
    },
    "slice": {
      "doc": "Returns a portion of a string or an array starting from the provided beginning index. If a second argument is provided, then the return portion will run to, but not include, the end index.",
      "group": "String",
      "sdk-support": {
        "basic functionality": {
          "js": "1.10.0"
        }
      }
    }
  }
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"light": {
  "anchor": {
    "type": "enum",
    "default": "viewport",
    "values": {
      "map": {
        "doc": "The position of the light source is aligned to the rotation of the map."
      },
      "viewport": {
        "doc": "The position of the light source is aligned to the rotation of the viewport."
      }
    },
    "property-type": "data-constant",
    "transition": false,
    "expression": {
        "interpolated": false,
        "parameters": [
          "zoom"
        ]
      },
      "doc": "Whether extruded geometries are lit relative to the map or viewport.",
      "example": "map",
      "sdk-support": {
        "basic functionality": {
          "js": "0.27.0",
          "android": "5.1.0",
          "ios": "3.6.0",
          "macos": "0.5.0"
        }
      }
    },
    "position": {
      "type": "array",
      "default": [
        1.15,
        210,
        30
      ],
      "length": 3,
      "value": "number",
      "property-type": "data-constant",
      "transition": true,
      "expression": {
        "interpolated": true,
        "parameters": [
          "zoom"
        ]
      },
      "doc": "Position of the light source relative to lit (extruded) geometries, in [r radial coordinate, a azimuthal angle, p polar angle] where r indicates the distance from the center of the base of an object to its light, a indicates the position of the light relative to 0 (0 when `light.anchor` is set to `viewport` corresponds to the top of the viewport, or 0 when `light.anchor` is set to `map` corresponds to due north, and degrees proceed clockwise), and p indicates the height of the light (from 0, directly above, to 180, directly below).",
      "example": [
        1.5,
        90,
        80
      ],
      "sdk-support": {
        "basic functionality": {
          "js": "0.27.0",
          "android": "5.1.0",
          "ios": "3.6.0",
      "macos": "0.5.0"
    }
  }
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"color": {
  "type": "color",
  "property-type": "data-constant",
  "default": "#ffffff",
  "expression": {
    "interpolated": true,
    "parameters": [
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    ]
  },
  "transition": true,
  "doc": "Color tint for lighting extruded geometries.",
  "sdk-support": {
    "basic functionality": {
      "js": "0.27.0",
      "android": "5.1.0",
      "ios": "3.6.0",
      "macos": "0.5.0"
    }
  }
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"intensity": {
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  "property-type": "data-constant",
  "default": 0.5,
  "minimum": 0,
  "maximum": 1,
  "expression": {
    "interpolated": true,
    "parameters": [
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    ]
  },
  "transition": true,
  "doc": "Intensity of lighting (on a scale from 0 to 1). Higher numbers will present as more extreme contrast.",
  "sdk-support": {
    "basic functionality": {
      "js": "0.27.0",
      "android": "5.1.0",
      "ios": "3.6.0",
      "macos": "0.5.0"
    }
  }
}
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"paint": [
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  "paint_line",
  "paint_circle",
  "paint_heatmap",
  "paint_fill-extrusion",
  "paint_symbol",
  "paint_raster",
  "paint_hillshade",
  "paint_background"
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"paint_fill": {
  "fill-antialias": {
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    "default": true,
    "doc": "Whether or not the fill should be antialiased.",
    "sdk-support": {
      "basic functionality": {
        "js": "0.10.0",
        "android": "2.0.1",
        "ios": "2.0.0",
        "macos": "0.1.0"
      }
    },
    "expression": {
      "interpolated": false,
      "parameters": [
        "zoom"
      ]
    },
    "property-type": "data-constant"
  },
  "fill-opacity": {
    "type": "number",
    "default": 1,
    "minimum": 0,
    "maximum": 1,
    "doc": "The opacity of the entire fill layer. In contrast to the `fill-color`, this value will also affect the 1px stroke
around the fill, if the stroke is used.",
    "transition": true,
    "sdk-support": {
      "basic functionality": {
        "js": "0.10.0",
        "android": "2.0.1",
        "ios": "2.0.0",
        "macos": "0.1.0"
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    "doc": "The resampling/interpolation method to use for overscaling, also known as texture magnification filter",
    "values": {
      "linear": {
        "doc": "(Bi)linear filtering interpolates pixel values using the weighted average of the four closest original source pixels creating a smooth but blurry look when overscaled"
      },
      "nearest": {
        "doc": "Nearest neighbor filtering interpolates pixel values using the nearest original source pixel creating a sharp but pixelated look when overscaled"
      }
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    "default": "linear",
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    "default": 335,
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    "maximum": 359,
    "doc": "The direction of the light source used to generate the hillshading with 0 as the top of the viewport if
`hillshade-illumination-anchor` is set to `viewport` and due north if `hillshade-illumination-anchor` is set to `map`.",
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    "viewport": {
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  "doc": "Direction of light source when map is rotated.",
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      "default": 0,
      "minimum": 0,
      "units": "milliseconds",
      "doc": "Length of time before a transition begins."
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zooms."
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      "doc": "Property is non-interpolable; rather, its values will be cross-faded to smoothly transition between integer
zooms. It can be represented using a property expression."
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      "type": "property-type",
      "doc": "Property should be specified using a color ramp from which the output color can be sampled based on a
property calculation."
    },
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      "doc": "Property is interpolable but cannot be represented using a property expression."
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      "doc": "Property is constant across all zoom levels and property values."
    }
  },
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    "*": {
      "type": "string",
      "doc": "A name of a feature property to use as ID for feature state."
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}

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1050204622_1591696269.32/0/mapbox-mapbox-gl-style-spec-13-14-0-tgz/package/reference/v8.json
No license file was found, but licenses were detected in source scan.

{"version":3,"file":"index.js","sources":["../../../node_modules/json-stringify-pretty-compact/index.js","../format.js","../../../node_modules/url/node_modules/punycode/punycode.js","../../../node_modules/url/util.js","../../../node_modules/querystring/decode.js","../../../node_modules/querystring/encode.js","../../../node_modules/querystring/index.js","../../../node_modules/url/url.js","../visit.js","../migrate/v8.js","../util/extend.js","../expression/parsing_error.js","../expression/scope.js","../expression/types.js","../../../node_modules/csscolorparser/csscolorparser.js","../util/color.js","../expression/types/collator.js","../expression/types/formatted.js","../expression/types/resolved_image.js","../expression/values.js","../expression/definitions/literal.js","../expression/runtime_error.js","../expression/definitions/assertion.js","../expression/definitions/format.js","../expression/definitions/image.js","../expression/definitions/coercion.js","../expression/evaluation_context.js","../expression/compound_expression.js","../expression/definitions/collator.js","../expression/definitions/within.js","../expression/is_constant.js","../expression/definitions/var.js","../expression/parsing_context.js","../expression/stops.js","../expression/definitions/step.js","../../../node_modules/@mapbox/unitbezier/index.js","../util/interpolate.js","../util/color_spaces.js","../expression/definitions/interpolate.js","../expression/definitions/coalesce.js","../expression/definitions/let.js","../expression/definitions/at.js","../expression/definitions/in.js","../expression/definitions/index_of.js","../expression/definitions/match.js","../expression/definitions/case.js","../expression/definitions/slice.js","../expression/definitions/comparison.js","../expression/definitions/number_format.js","../expression/definitions/length.js","../expression/definitions/index.js","../util/result.js","../util/properties.js","../util/get_type.js","../function/index.js","../expression/index.js","../function/convert.js","../feature_filter/index.js","../feature_filter/convert.js","../migrate/expressions.js","../migrate.js","../composite.js","../util/ref_properties.js","../deref.js","../util/deep_equal.js","../diff.js","../error/validation_error.js","../error/parsing_error.js","../validate/validate_constants.js","../util/unbundle_jsonlint.js","../validate/validate_object.js","../validate/validate_array.js","../validate/validate_number.js","../validate/validate_function.js","../validate/validate_expression.js","../validate/validate_boolean.js","../validate/validate_color.js","../validate/validate_enum.js","../validate/validate_filter.js","../validate/validate_property.js","../validate/validate_paint_property.js","../validate/validate_layout_property.js","../validate/validate_layer.js","../validate/validate_string.js","../validate/validate_source.js","../validate/validate_light.js","../validate/validate_formatted.js","../validate/validate_image.js","../validate/validate.js","../validate/validate_glyphs_url.js","../validate_style.min.js","../../../node_modules/@mapbox/jsonlint-lines-primitives/lib/jsonlint.js","../read_style.js","../validate_style.js","../validate_mapbox_api_supported.js","../style-spec.js"],"sourcesContent":["\"use strict\";\n\n// Note: This regex matches even invalid JSON strings, but since we’re\n// working on the output of `JSON.stringify` we know that only valid strings\n// are present (unless the user supplied a weird `options.indent` but in\n// that case we don’t care since the output would be invalid anyway).\nvar stringOrChar = /(\"(?:[^\\\\\"]|\\\\.)*\")|[:,]/g;\n\nmodule.exports = function stringify(passedObj, options) {\n var indent, maxLength, replacer;\n\n options = options || {};\n indent = JSON.stringify(\n   [1],\n   undefined,\n   options.indent === undefined ? 2 : options.indent\n).slice(2, -3);\n maxLength =\n   indent === \"\"\n   ? Infinity\n   : options.maxLength === undefined\n   ? 80\n   : options.maxLength;\n replacer = options.replacer;\n\n return (function _stringify(obj, currentIndent, reserved) {\n   // prettier-ignore\n   var end, index, items, key, keyPart, keys, length, nextIndent, prettified, start, string, value;\n\n   if (obj && typeof obj.toJSON === \"function\") {\n   obj = obj.toJSON();\n   }\n\n   string = JSON.stringify(obj, replacer);\n\n   if (string === undefined) {\n   return string;\n   }\n\n   length = maxLength - currentIndent.length - reserved;\n\n   if (string.length <= length) {\n   prettified = string.replace(stringOrChar, function(match, stringLiteral) {\n   return stringLiteral || match + \" \";\n   });\n   if (prettified.length <= length) {\n   return prettified;\n   }\n   }\n\n   if (replacer != null) {\n   obj = JSON.parse(string);\n   replacer = undefined;\n   }\n\n   if (typeof obj

=== \"object\" && obj !== null) {\n nextIndent = currentIndent + indent;\n items = [];\n index = 0;\n\n if (Array.isArray(obj)) {\n start = \"[\";\n end = \"]\";\n length = obj.length;\n for (; index < length; index++) {\n items.push(\n _stringify(obj[index], nextIndent, index === length - 1 ? 0 : 1) ||\n \"null\"\n);\n }\n } else {\n start = \"{\";\n end = \"}\";\n keys = Object.keys(obj);\n length = keys.length;\n for (; index < length; index++) {\n key = keys[index];\n keyPart = JSON.stringify(key) + \": \";\n value = _stringify(\n obj[key],\n nextIndent,\n keyPart.length + (index === length - 1 ? 0 : 1)\n);\n if (value !== undefined) {\n items.push(keyPart + value);\n }\n }\n }\n\n if (items.length > 0) {\n return [start, indent + items.join(\",\\n\" + nextIndent), end].join(\n \"\\n\" + currentIndent\n);\n }\n }\n\n return string;\n })(passedObj, \"\", 0);\n};\n","\nimport reference from './reference/latest.js';\nimport stringifyPretty from 'json-stringify-pretty-compact';\n\nfunction sortKeysBy(obj, reference) {\n const result = {};\n for (const key in reference) {\n if (obj[key] !== undefined) {\n result[key] = obj[key];\n }\n }\n for (const key in obj) {\n if (result[key] === undefined) {\n result[key] = obj[key];\n }\n }\n return result;\n}\n\n/**\n * Format a Mapbox GL Style. Returns a stringified style with its keys\n * sorted in the same order as the reference style.\n *\n * The optional `space` argument is passed to\n * [`JSON.stringify`](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON/stringify)\n * to generate formatted output.\n *\n * If `space` is unspecified, a default of `2` spaces will be used.\n *\n * @private\n * @param {Object} style a Mapbox GL Style\n * @param {number} [space] space argument to pass to `JSON.stringify`\n * @returns {string} stringified formatted JSON\n * @example\n * var fs = require('fs');\n * var format = require('mapbox-gl-style-spec').format;\n * var style = fs.readFileSync('./source.json', 'utf8');\n * fs.writeFileSync('./dest.json', format(style));\n * fs.writeFileSync('./dest.min.json', format(style, 0));\n */\nfunction format(style, space = 2) {\n style = sortKeysBy(style, reference.$root);\n\n if (style.layers) {\n style.layers = style.layers.map((layer) => sortKeysBy(layer, reference.layer));\n }\n\n return stringifyPretty(style, {indent: space});\n}\n\nexport default format;\n","/*! https://mths.be/punycode v1.3.2 by @mathias */\n;(function(root) {\n\n\t/** Detect free variables */\n\tvar freeExports = typeof exports == 'object' && exports &&\n\t\t!exports.nodeType && exports;\n\tvar freeModule = typeof module == 'object' && module &&\n\t\t!module.nodeType && module;\n\tvar freeGlobal = typeof global == 'object' && global;\n\tif (\n\t\tfreeGlobal.global === freeGlobal ||\n\t\tfreeGlobal.window === freeGlobal ||\n\t\tfreeGlobal.self === freeGlobal\n\t) {\n\t\troot = freeGlobal;\n\t}\n\n\t/**\n\t * The `punycode` object.\n\t * @name punycode\n\t * @type Object\n\t */\n\tvar punycode,\n\n\t/** Highest positive signed 32-bit float value */\n\tmaxInt = 2147483647, // aka. 0x7FFFFFFF or 2^31-1\n\n\t/** Bootstring parameters */\n\tbase = 36,\n\ttMin = 1,\n\ttMax = 26,\n\tskew = 38,\n\tdamp = 700,\n\tinitialBias = 72,\n\tinitialN = 128, // 0x80\n\tdelimiter = '-', // '\\x2D'\n\n\t/** Regular expressions */\n\tregexPunycode = /^xn--/,\n\tregexNonASCII = /[^\\x20-\\x7E]/, // unprintable ASCII chars + non-ASCII chars\n\tregexSeparators = /[\\x2E\\u3002\\uFF0E\\uFF61]/g, // RFC 3490 separators\n\n\t/** Error messages */\n\terrors = {\n\t\t'overflow': 'Overflow: input needs wider integers to process',\n\t\t'not-basic': 'Illegal input >= 0x80 (not a basic code point)',\n\t\t'invalid-input': 'Invalid input'\n\t},\n\n\t/** Convenience shortcuts */\n\tbaseMinusTMin = base - tMin,\n\tfloor = Math.floor,\n\tstringFromCharCode = String.fromCharCode,\n\n\t/** Temporary variable */\n\tkey;\n\n\t/*--*/\n\n\t/**\n\t * A generic error utility function.\n\t * @private\n\t * @param {String} type The error type.\n\t * @returns {Error} Throws a `RangeError` with the applicable error message.\n\t */\n\tfunction error(type) {\n\t\tthrow RangeError(errors[type]);\n\t}\n\n\t/**\n\t * A generic `Array#map` utility function.\n\t * @private\n\t * @param {Array} array The array to iterate over.\n\t * @param {Function} callback The function that gets called for every array\n\t * item.\n\t * @returns {Array} A new array of values returned by the callback function.\n\t */\n\tfunction map(array, fn) {\n\t\tvar length = array.length;\n\t\tvar result = [];\n\t\twhile (length--) {\n\t\t\tresult[length] = fn(array[length]);\n\t\t}\n\t\treturn result;\n\t}\n\n\t/**\n\t * A simple `Array#map`-like wrapper to work with domain name strings or email\n\t * addresses.\n\t * @private\n\t * @param {String} domain The domain name or email address.\n\t * @param {Function} callback The function that gets called for every\n\t * character.\n\t *

@returns {Array} A new string of characters returned by the callback\n\t * function.\n\t */\n\tfunction mapDomain(string, fn) {\n\t\tvar parts = string.split('@');\n\t\tvar result = ";\n\t\tif (parts.length > 1) {\n\t\t\t// In email addresses, only the domain name should be punycoded. Leave\n\t\t\t// the local part (i.e. everything up to `@`) intact.\n\t\t\tresult = parts[0] + '@';\n\t\t\tstring = parts[1];\n\t\t}\n\t\t// Avoid `split(regex)` for IE8 compatibility. See #17.\n\t\tstring = string.replace(regexSeparators, '\\x2E');\n\t\tvar labels = string.split('.');\n\t\tvar encoded = map(labels, fn).join('.');\n\t\treturn result + encoded;\n\t}\n\n\t/**\n\t * Creates an array containing the numeric code points of each Unicode\n\t * character in the string. While JavaScript uses UCS-2 internally,\n\t * this function will convert a pair of surrogate halves (each of which\n\t * UCS-2 exposes as separate characters) into a single code point,\n\t * matching UTF-16.\n\t * @see `punycode.ucs2.encode`\n\t * @see <https://mathiasbynens.be/notes/javascript-encoding>\n\t * @memberOf punycode.ucs2\n\t * @name decode\n\t * @param {String} string The Unicode input string (UCS-2).\n\t * @returns {Array} The new array of code points.\n\t */\n\tfunction ucs2decode(string) {\n\t\tvar output = [],\n\t\t   counter = 0,\n\t\t   length = string.length,\n\t\t   value,\n\t\t   extra;\n\t\twhile (counter < length) {\n\t\t\tvalue = string.charCodeAt(counter++);\n\t\t\tif (value >= 0xD800 && value <= 0xDBFF && counter < length) {\n\t\t\t\t// high surrogate, and there is a next character\n\t\t\t\textra = string.charCodeAt(counter++);\n\t\t\t\tif ((extra & 0xFC00) == 0xDC00) { // low surrogate\n\t\t\t\t\toutput.push(((value & 0x3FF) << 10) + (extra & 0x3FF) + 0x10000);\n\t\t\t\t} else {\n\t\t\t\t\t// unmatched surrogate; only append this code unit, in case the next\n\t\t\t\t\t// code unit is the high surrogate of a surrogate pair\n\t\t\t\t\toutput.push(value);\n\t\t\t\t\tcounter--;\n\t\t\t\t}\n\t\t\t} else {\n\t\t\t\toutput.push(value);\n\t\t\t}\n\t\t}\n\t\treturn output;\n\t}\n\n\t/**\n\t * Creates a string based on an array of numeric code points.\n\t * @see `punycode.ucs2.decode`\n\t * @memberOf punycode.ucs2\n\t * @name encode\n\t * @param {Array} codePoints The array of numeric code points.\n\t * @returns {String} The new Unicode string (UCS-2).\n\t */\n\tfunction ucs2encode(array) {\n\t\treturn map(array, function(value) {\n\t\t\tvar output = ";\n\t\t\tif (value > 0xFFFF) {\n\t\t\t\tvalue -= 0x10000;\n\t\t\t\toutput += stringFromCharCode(value >>> 10 & 0x3FF | 0xD800);\n\t\t\t\tvalue = 0xDC00 | value & 0x3FF;\n\t\t\t}\n\t\t\toutput += stringFromCharCode(value);\n\t\t\treturn output;\n\t\t}).join(");\n\t}\n\n\t/**\n\t * Converts a basic code point into a digit/integer.\n\t * @see `digitToBasic()`\n\t * @private\n\t * @param {Number} codePoint The basic numeric code point value.\n\t * @returns {Number} The numeric value of a basic code point (for use in\n\t * representing integers) in the range `0` to `base - 1`, or `base` if\n\t * the code point does not represent a value.\n\t */\n\tfunction basicToDigit(codePoint) {\n\t\tif (codePoint - 48 < 10) {\n\t\t\treturn codePoint - 22;\n\t\t}\n\t\tif (codePoint - 65 < 26) {\n\t\t\treturn codePoint - 65;\n\t\t}\n\t\tif (codePoint - 97 < 26) {\n\t\t\treturn codePoint - 97;\n\t\t}\n\t\treturn base;\n\t}\n\n\t/**\n\t * Converts a digit/integer into a basic code point.\n\t * @see `basicToDigit()`\n\t * @private\n\t * @param {Number} digit The numeric value of a basic code point.\n\t * @returns {Number} The basic code point whose value (when used for\n\t * representing integers) is `digit`, which needs to be in the range\n\t * `0` to `base - 1`. If `flag` is non-zero, the uppercase form is\n\t * used; else, the lowercase form is used. The behavior is undefined\n\t * if `flag` is non-zero and `digit` has no uppercase form.\n\t */\n\tfunction digitToBasic(digit, flag) {\n\t\t// 0..25 map to ASCII a..z or A..Z\n\t\t// 26..35 map to ASCII 0..9\n\t\treturn digit + 22 + 75 * (digit < 26) - ((flag != 0) << 5);\n\t}\n\n\t/**\n\t * Bias adaptation function as per section 3.4 of RFC 3492.\n\t * http://tools.ietf.org/html/rfc3492#section-3.4\n\t * @private\n\t */\n\tfunction adapt(delta, numPoints, firstTime) {\n\t\tvar k = 0;\n\t\tdelta = firstTime ? floor(delta / damp) : delta >> 1;\n\t\tdelta += floor(delta / numPoints);\n\t\tfor (/* no initialization */; delta > baseMinusTMin * tMax >> 1; k += base) {\n\t\t\tdelta = floor(delta / baseMinusTMin);\n\t\t}\n\t\treturn floor(k + (baseMinusTMin + 1) * delta / (delta + skew));\n\t}\n\n\t/**\n\t * Converts a Punycode string of ASCII-only symbols to a string of Unicode\n\t * symbols.\n\t * @memberOf punycode\n\t * @param {String} input The Punycode string of ASCII-only symbols.\n\t * @returns {String} The resulting string of Unicode symbols.\n\t */\n\tfunction decode(input) {\n\t\t// Don't use UCS-2\n\t\tvar output = [],\n\t\t   inputLength = input.length,\n\t\t   out,\n\t\t   i = 0,\n\t\t   n = initialN,\n\t\t   bias = initialBias,\n\t\t   basic,\n\t\t   j,\n\t\t   index,\n\t\t   oldi,\n\t\t   w,\n\t\t   k,\n\t\t   digit,\n\t\t   t,\n\t\t   /** Cached calculation results */\n\t\t   baseMinusT;\n\n\t\t// Handle the basic code points: let `basic` be the number of input code\n\t\t// points before the last delimiter, or `0` if there is none, then copy\n\t\t// the first basic code points to

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the output.\n\n\t\tbasic = input.lastIndexOf(delimiter);\n\t\tif (basic < 0) {\n\t\t\tbasic = 0;\n\t\t}\n\n\t\tfor (j = 0; j <
basic; ++j) {\n\t\t\t// if it's not a basic code point\n\t\t\tif (input.charCodeAt(j) >= 0x80) {\n\t\t\t\terror('not-
basic');\n\t\t\t}\n\t\t\toutput.push(input.charCodeAt(j));\n\t\t}\n\n\t\t// Main decoding loop: start just after the last
delimiter if any basic code\n\t\t// points were copied; start at the beginning otherwise.\n\n\t\tfor (index = basic > 0 ?
basic + 1 : 0; index < inputLength; /* no final expression */) {\n\n\t\t\t// `index` is the index of the next character to
be consumed.\n\t\t\t// Decode a generalized variable-length integer into `delta`,\n\t\t\t// which gets added to `i`. The
overflow checking is easier\n\t\t\t// if we increase `i` as we go, then subtract off its starting\n\t\t\t// value at the end to
obtain `delta`.\n\t\t\tfor (oldi = i, w = 1, k = base; /* no condition */; k += base) {\n\n\t\t\t\tif (index >= inputLength)
{\n\t\t\t\t\terror('invalid-input');\n\t\t\t\t}\n\n\t\t\t\tdigit = basicToDigit(input.charCodeAt(index++));\n\n\t\t\t\tif (digit
>= base || digit > floor((maxInt - i) / w)) {\n\t\t\t\t\terror('overflow');\n\t\t\t\t}\n\n\t\t\t\ti += digit * w;\n\t\t\t\tt = k <=
bias ? tMin : (k >= bias + tMax ? tMax : k - bias);\n\n\t\t\t\tif (digit < t)
{\n\t\t\t\t\tbreak;\n\t\t\t\t}\n\n\t\t\t\tbaseMinusT = base - t;\n\t\t\t\tif (w > floor(maxInt / baseMinusT))
{\n\t\t\t\t\terror('overflow');\n\t\t\t\t}\n\n\t\t\t\tw *= baseMinusT;\n\n\t\t\t}\n\n\t\t\tout = output.length + 1;\n\t\t\tbias
= adapt(i - oldi, out, oldi == 0);\n\n\t\t\t// `i` was supposed to wrap around from `out` to `0`,\n\t\t\t// incrementing `n`
each time, so we'll fix that now:\n\t\t\tif (floor(i / out) > maxInt - n) {\n\t\t\t\terror('overflow');\n\t\t\t}\n\n\t\t\tn +=
floor(i / out);\n\t\t\ti %= out;\n\n\t\t\t// Insert `n` at position `i` of the output\n\t\t\toutput.splice(i++, 0,
n);\n\n\t\t}\n\n\t\treturn ucs2encode(output);\n\t}\n\n\t/**\n\t * Converts a string of Unicode symbols (e.g. a domain
name label) to a\n\t * Punycode string of ASCII-only symbols.\n\t * @memberOf punycode\n\t * @param {String}
input The string of Unicode symbols.\n\t * @returns {String} The resulting Punycode string of ASCII-only
symbols.\n\t */\n\tfunction encode(input) {\n\t\tvar n,\n\t\t    delta,\n\t\t    handledCPCount,\n\t\t    basicLength,\n\t\t
bias,\n\t\t    j,\n\t\t    m,\n\t\t    q,\n\t\t    k,\n\t\t    t,\n\t\t    currentValue,\n\t\t    output = [],\n\t\t    /** `inputLength`
will hold the number of code points in `input`. */\n\t\t    inputLength,\n\t\t    /** Cached calculation results */\n\t\t
handledCPCountPlusOne,\n\t\t    baseMinusT,\n\t\t    qMinusT;\n\n\t\t// Convert the input in UCS-2 to
Unicode\n\t\tinput = ucs2decode(input);\n\n\t\t// Cache the length\n\t\tinputLength = input.length;\n\n\t\t// Initialize
the state\n\t\tn = initialN;\n\t\tdelta = 0;\n\t\tbias = initialBias;\n\n\t\t// Handle the basic code points\n\t\tfor (j = 0; j <
inputLength; ++j) {\n\t\t\tcurrentValue = input[j];\n\t\t\tif (currentValue < 0x80)
{\n\t\t\t\toutput.push(stringFromCharCode(currentValue));\n\t\t\t}\n\t\t}\n\n\t\thandledCPCount = basicLength =
output.length;\n\n\t\t// `handledCPCount` is the number of code points that have been handled;\n\t\t// `basicLength`
is the number of basic code points.\n\n\t\t// Finish the basic string - if it is not empty - with a delimiter\n\t\tif
(basicLength) {\n\t\t\toutput.push(delimiter);\n\t\t}\n\n\t\t// Main encoding loop:\n\t\twhile (handledCPCount <
inputLength) {\n\n\t\t\t// All non-basic code points < n have been handled already. Find the next\n\t\t\t// larger
one:\n\t\t\tfor (m = maxInt, j = 0; j < inputLength; ++j) {\n\t\t\t\tcurrentValue = input[j];\n\t\t\t\tif (currentValue >= n
&& currentValue < m) {\n\t\t\t\t\tm = currentValue;\n\t\t\t\t}\n\t\t\t}\n\n\t\t\t// Increase `delta` enough to advance the
decoder's <n,i> state to <m,0>,\n\t\t\t// but guard against overflow\n\t\t\thandledCPCountPlusOne =
handledCPCount + 1;\n\t\t\tif (m - n > floor((maxInt - delta) / handledCPCountPlusOne))
{\n\t\t\t\terror('overflow');\n\t\t\t}\n\n\t\t\tdelta += (m - n) * handledCPCountPlusOne;\n\t\t\tn = m;\n\n\t\t\tfor (j = 0;
j < inputLength; ++j) {\n\t\t\t\tcurrentValue = input[j];\n\n\t\t\t\tif (currentValue < n && ++delta > maxInt)
{\n\t\t\t\t\terror('overflow');\n\t\t\t\t}\n\n\t\t\t\tif (currentValue == n) {\n\t\t\t\t\t// Represent delta as a generalized
variable-length integer\n\t\t\t\t\tfor (q = delta, k = base; /* no condition */; k += base) {\n\t\t\t\t\t\tt = k <= bias ?
tMin : (k >= bias + tMax ? tMax : k - bias);\n\t\t\t\t\t\tif (q < t) {\n\t\t\t\t\t\t\tbreak;\n\t\t\t\t\t\t}\n\t\t\t\t\t\tqMinusT = q
- t;\n\t\t\t\t\t\tbaseMinusT = base - t;\n\t\t\t\t\t\toutput.push(\n\t\t\t\t\t\t\tstringFromCharCode(digitToBasic(t +
qMinusT % baseMinusT, 0))\n\t\t\t\t\t\t);\n\t\t\t\t\t\tq = floor(qMinusT /
baseMinusT);\n\t\t\t\t\t}\n\n\t\t\t\t\toutput.push(stringFromCharCode(digitToBasic(q, 0)));\n\t\t\t\t\tbias =
adapt(delta, handledCPCountPlusOne, handledCPCount == basicLength);\n\t\t\t\t\tdelta =
0;\n\t\t\t\t\t++handledCPCount;\n\t\t\t\t}\n\t\t\t}\n\n\t\t\t++delta;\n\t\t\t++n;\n\n\t\t}\n\t\treturn
output.join('');\n\t}\n\n\t/**\n\t * Converts a Punycode string representing a domain name or an email address\n\t *
to Unicode. Only the Punycoded parts of the input will be converted, i.e.\n\t * it doesn't matter if you call it on a
string that has already been\n\t * converted to Unicode.\n\t * @memberOf punycode\n\t * @param {String} input
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The Punycoded domain name or email address to\n\t * convert to Unicode.\n\t * @returns {String} The Unicode representation of the given Punycode\n\t * string.\n\t */\n\tfunction toUnicode(input) {\n\t\treturn mapDomain(input, function(string) {\n\t\t\treturn regexPunycode.test(string)\n\t\t\t\t? decode(string.slice(4).toLowerCase())\n\t\t\t\t: string;\n\t\t});\n\t}\n\n\t/**\n\t * Converts a Unicode string representing a domain name or an email address to\n\t * Punycode. Only the non-ASCII parts of the domain name will be converted,\n\t * i.e. it doesn't matter if you call it with a domain that's already in\n\t * ASCII.\n\t * @memberOf punycode\n\t * @param {String} input The domain name or email address to convert, as a\n\t * Unicode string.\n\t * @returns {String} The Punycode representation of the given domain name or\n\t * email address.\n\t */\n\tfunction toASCII(input) {\n\t\treturn mapDomain(input, function(string) {\n\t\t\treturn regexNonASCII.test(string)\n\t\t\t\t? 'xn--' + encode(string)\n\t\t\t\t: string;\n\t\t});\n\t}\n\n\t/*--*/\n\n\t/** Define the public API */\n\tpunycode = {\n\t\t/**\n\t\t * A string representing the current Punycode.js version number.\n\t\t * @memberOf punycode\n\t\t * @type String\n\t\t */\n\t\t'version': '1.3.2',\n\t\t/**\n\t\t * An object of methods to convert from JavaScript's internal character\n\t\t * representation (UCS-2) to Unicode code points, and back.\n\t\t * @see <https://mathiasbynens.be/notes/javascript-encoding>\n\t\t * @memberOf punycode\n\t\t * @type Object\n\t\t */\n\t\t'ucs2': {\n\t\t\t'decode': ucs2decode,\n\t\t\t'encode': ucs2encode\n\t\t},\n\t\t'decode': decode,\n\t\t'encode': encode,\n\t\t'toASCII': toASCII,\n\t\t'toUnicode': toUnicode\n\t};\n\n\t/** Expose `punycode` */\n\t// Some AMD build optimizers, like r.js, check for specific condition patterns\n\t// like the following:\n\tif (\n\t\ttypeof define == 'function' &&\n\t\ttypeof define.amd == 'object' &&\n\t\tdefine.amd\n\t) {\n\t\tdefine('punycode', function() {\n\t\t\treturn punycode;\n\t\t});\n\t} else if (freeExports && freeModule) {\n\t\tif (module.exports == freeExports) { // in Node.js or RingoJS v0.8.0+\n\t\t\tfreeModule.exports = punycode;\n\t\t} else { // in Narwhal or RingoJS v0.7.0-\n\t\t\tfor (key in punycode) {\n\t\t\t\tpunycode.hasOwnProperty(key) && (freeExports[key] = punycode[key]);\n\t\t\t}\n\t\t}\n\t} else { // in Rhino or a web browser\n\t\troot.punycode = punycode;\n\t}\n\n}(this));\n","'use strict';\n\nmodule.exports = {\n isString: function(arg) {\n   return typeof(arg) === 'string';\n },\n isObject: function(arg) {\n   return typeof(arg) === 'object' && arg !== null;\n },\n isNull: function(arg) {\n   return arg === null;\n },\n isNullOrUndefined: function(arg) {\n   return arg == null;\n }\n};\n","// Copyright Joyent, Inc. and other Node contributors.\n//\n// Permission is hereby granted, free of charge, to any person obtaining a\n// copy of this software and associated documentation files (the\n// \"Software\"), to deal in the Software without restriction, including\n// without limitation the rights to use, copy, modify, merge, publish,\n// distribute, sublicense, and/or sell copies of the Software, and to permit\n// persons to whom the Software is furnished to do so, subject to the\n// following conditions:\n//\n// The above copyright notice and this permission notice shall be included\n// in all copies or substantial portions of the Software.\n//\n// THE SOFTWARE IS PROVIDED \"AS IS\", WITHOUT WARRANTY OF ANY KIND, EXPRESS\n// OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF\n// MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN\n// NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,\n// DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR\n// OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE\n// USE OR OTHER DEALINGS IN THE SOFTWARE.\n\n'use strict';\n\n// If obj.hasOwnProperty has been overridden, then calling\n// obj.hasOwnProperty(prop) will break.\n// See: https://github.com/joyent/node/issues/1707\nfunction hasOwnProperty(obj, prop) {\n return Object.prototype.hasOwnProperty.call(obj, prop);\n}\n\nmodule.exports = function(qs, sep, eq, options) {\n sep = sep || '&';\n eq = eq || '=';\n var obj = {};\n\n if (typeof qs !== 'string' || qs.length === 0) {\n   return obj;\n }\n\n var regexp = /\\+/g;\n qs = qs.split(sep);\n\n var maxKeys = 1000;\n if (options && typeof options.maxKeys === 'number') {\n   maxKeys = options.maxKeys;\n }\n\n var len = qs.length;\n // maxKeys <= 0 means that we should not limit keys count\n if (maxKeys > 0 && len > maxKeys) {\n   len = maxKeys;\n }\n\n for (var i = 0; i < len; ++i) {\n   var x = qs[i].replace(regexp, '%20'),\n   idx = x.indexOf(eq),\n   kstr, vstr, k, v;\n\n   if (idx >= 0) {\n   kstr = x.substr(0, idx);\n   vstr = x.substr(idx + 1);\n   } else {\n   kstr = x;\n   vstr = '';\n   }\n\n   k = decodeURIComponent(kstr);\n   v = decodeURIComponent(vstr);\n\n   if (!hasOwnProperty(obj, k)) {\n   obj[k] = v;\n   } else if (Array.isArray(obj[k])) {\n   obj[k].push(v);\n   } else {\n   obj[k] = [obj[k], v];\n   }\n }\n\n

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return obj;\n};\n","// Copyright Joyent, Inc. and other Node contributors.\n//\n// Permission is hereby granted, free of
charge, to any person obtaining a\n// copy of this software and associated documentation files (the\n// \"Software\"),
to deal in the Software without restriction, including\n// without limitation the rights to use, copy, modify, merge,
publish,\n// distribute, sublicense, and/or sell copies of the Software, and to permit\n// persons to whom the Software
is furnished to do so, subject to the\n// following conditions:\n//\n// The above copyright notice and this permission
notice shall be included\n// in all copies or substantial portions of the Software.\n//\n// THE SOFTWARE IS
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BUT NOT LIMITED TO THE WARRANTIES OF\n// MERCHANTABILITY, FITNESS FOR A PARTICULAR
PURPOSE AND NONINFRINGEMENT. IN\n// NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM,\n// DAMAGES OR OTHER LIABILITY, WHETHER IN AN
ACTION OF CONTRACT, TORT OR\n// OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE\n// USE OR OTHER DEALINGS IN THE SOFTWARE.\n\n'use strict';\n\nvar
stringifyPrimitive = function(v) {\n  switch (typeof v) {\n    case 'string':\n      return v;\n\n    case 'boolean':\n
return v ? 'true' : 'false';\n\n    case 'number':\n      return isFinite(v) ? v : '';\n\n    default:\n      return '';\n
}\n};\n\nmodule.exports = function(obj, sep, eq, name) {\n  sep = sep || '&';\n  eq = eq || '=';\n  if (obj === null) {\n
obj = undefined;\n  }\n\n  if (typeof obj === 'object') {\n    return Object.keys(obj).map(function(k) {\n      var ks =
encodeURIComponent(stringifyPrimitive(k)) + eq;\n      if (Array.isArray(obj[k])) {\n        return
obj[k].map(function(v) {\n          return ks + encodeURIComponent(stringifyPrimitive(v));\n        }).join(sep);\n      }
else {\n        return ks + encodeURIComponent(stringifyPrimitive(obj[k]));\n      }\n    }).join(sep);\n\n  }\n\n  if
(!name) return '';\n  return encodeURIComponent(stringifyPrimitive(name)) + eq +\n
encodeURIComponent(stringifyPrimitive(obj));\n};\n","'use strict';\n\nexports.decode = exports.parse =
require('./decode');\nexports.encode = exports.stringify = require('./encode');\n","// Copyright Joyent, Inc. and other
Node contributors.\n//\n// Permission is hereby granted, free of charge, to any person obtaining a\n// copy of this
software and associated documentation files (the\n// \"Software\"), to deal in the Software without restriction,
including\n// without limitation the rights to use, copy, modify, merge, publish,\n// distribute, sublicense, and/or sell
copies of the Software, and to permit\n// persons to whom the Software is furnished to do so, subject to the\n//
following conditions:\n//\n// The above copyright notice and this permission notice shall be included\n// in all copies
or substantial portions of the Software.\n//\n// THE SOFTWARE IS PROVIDED \"AS IS\", WITHOUT
WARRANTY OF ANY KIND, EXPRESS\n// OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF\n// MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN\n// NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE
FOR ANY CLAIM,\n// DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR\n// OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
THE\n// USE OR OTHER DEALINGS IN THE SOFTWARE.\n\n'use strict';\n\nvar punycode =
require('punycode');\nvar util = require('./util');\n\nexports.parse = urlParse;\nexports.resolve =
urlResolve;\nexports.resolveObject = urlResolveObject;\nexports.format = urlFormat;\n\nexports.Url =
Url;\n\nfunction Url() {\n  this.protocol = null;\n  this.slashes = null;\n  this.auth = null;\n  this.host = null;\n
this.port = null;\n  this.hostname = null;\n  this.hash = null;\n  this.search = null;\n  this.query = null;\n
this.pathname = null;\n  this.path = null;\n  this.href = null;\n}\n\n// Reference: RFC 3986, RFC 1808, RFC
2396\n\n// define these here so at least they only have to be\n// compiled once on the first module load.\nvar
protocolPattern = /^([a-z0-9.+-]+:)/i,\n    portPattern = /:[0-9]*$/,\n\n    // Special case for a simple path URL\n
simplePathPattern = /^(\\/\\/?(?!\\/)[^\\?\\s]*)(\\?[^\\s]*)?$/,\n\n    // RFC 2396: characters reserved for delimiting
URLs.\n    // We actually just auto-escape these.\n    delims = ['<', '>', '\"', '`', ' ', '\\r', '\\n', '\\t'],\n\n    // RFC 2396:
characters not allowed for various reasons.\n    unwise = ['{', '}', '|', '\\\\', '^', '`'].concat(delims),\n\n    // Allowed by
RFCs, but cause of XSS attacks.  Always escape these.\n    autoEscape = ['\\''].concat(unwise),\n    // Characters that
are never ever allowed in a hostname.\n    // Note that any invalid chars are also handled, but these\n    // are the ones
that are *expected* to be seen, so we fast-path\n    // them.\n    nonHostChars = ['%', '/', '?', ';',
'#'].concat(autoEscape),\n    hostEndingChars = ['/', '?', '#'],\n    hostnameMaxLen = 255,\n    hostnamePartPattern =
```

/^[+a-z0-9A-Z_-]{0,63}$/,\n   hostnamePartStart = /^([+a-z0-9A-Z_-]{0,63})(.*)$/,\n   // protocols that can allow \"unsafe\" and \"unwise\" chars.\n   unsafeProtocol = {\n   'javascript': true,\n   'javascript:': true\n   },\n   // protocols that never have a hostname.\n   hostlessProtocol = {\n   'javascript': true,\n   'javascript:': true\n   },\n   // protocols that always contain a // bit.\n   slashedProtocol = {\n   'http': true,\n   'https': true,\n   'ftp': true,\n   'gopher': true,\n   'file': true,\n   'http:': true,\n   'https:': true,\n   'ftp:': true,\n   'gopher:': true,\n   'file:': true\n   },\n   querystring = require('querystring');\n\nfunction urlParse(url, parseQueryString, slashesDenoteHost) {\n if (url && util.isObject(url) && url instanceof Url) return url;\n\n var u = new Url;\n u.parse(url, parseQueryString, slashesDenoteHost);\n return u;\n}\n\nUrl.prototype.parse = function(url, parseQueryString, slashesDenoteHost) {\n if (!util.isString(url)) {\n   throw new TypeError(\"Parameter 'url' must be a string, not \" + typeof url);\n }\n\n // Copy chrome, IE, opera backslash-handling behavior.\n // Back slashes before the query string get converted to forward slashes\n // See: https://code.google.com/p/chromium/issues/detail?id=25916\n var queryIndex = url.indexOf('?'),\n   splitter =\n   (queryIndex !== -1 && queryIndex < url.indexOf('#')) ? '?' : '#',\n   uSplit = url.split(splitter),\n   slashRegex = /\\\\/g;\n uSplit[0] = uSplit[0].replace(slashRegex, '/');\n url = uSplit.join(splitter);\n\n var rest = url;\n\n // trim before proceeding.\n // This is to support parse stuff like \" http://foo.com \\n\"\n rest = rest.trim();\n\n if (!slashesDenoteHost && url.split('#').length === 1) {\n   // Try fast path regexp\n   var simplePath = simplePathPattern.exec(rest);\n   if (simplePath) {\n   this.path = rest;\n   this.href = rest;\n   this.pathname = simplePath[1];\n   if (simplePath[2]) {\n   this.search = simplePath[2];\n   if (parseQueryString) {\n   this.query = querystring.parse(this.search.substr(1));\n   } else {\n   this.query = this.search.substr(1);\n   }\n   } else if (parseQueryString) {\n   this.search = '';\n   this.query = {};\n   }\n   return this;\n   }\n }\n\n var proto = protocolPattern.exec(rest);\n if (proto) {\n   proto = proto[0];\n   var lowerProto = proto.toLowerCase();\n   this.protocol = lowerProto;\n   rest = rest.substr(proto.length);\n }\n\n // figure out if it's got a host\n // user@server is *always* interpreted as a hostname, and url\n // resolution will treat //foo/bar as host=foo,path=bar because that's\n // how the browser resolves relative URLs.\n if (slashesDenoteHost || proto || rest.match(/^\\/\\/[^@\\/]+@[^@\\/]+/)) {\n   var slashes = rest.substr(0, 2) === '//';\n   if (slashes && !(proto && hostlessProtocol[proto])) {\n   rest = rest.substr(2);\n   this.slashes = true;\n   }\n }\n\n if (!hostlessProtocol[proto] &&\n   (slashes || (proto && !slashedProtocol[proto]))) {\n\n   // there's a hostname.\n   // the first instance of /, ?, ;, or # ends the host.\n   //\n   // If there is an @ in the hostname, then non-host chars *are* allowed\n   // to the left of the last @ sign, unless some host-ending character\n   // comes *before* the @-sign.\n   // URLs are obnoxious.\n   //\n   // ex:\n   // http://a@b@c/ => user:a@b host:c\n   // http://a@b?@c => user:a host:c path:/?@c\n\n   // v0.12 TODO(isaacs): This is not quite how Chrome does things.\n   // Review our test case against browsers more comprehensively.\n\n   // find the first instance of any hostEndingChars\n   var hostEnd = -1;\n   for (var i = 0; i < hostEndingChars.length; i++) {\n   var hec = rest.indexOf(hostEndingChars[i]);\n   if (hec !== -1 && (hostEnd === -1 || hec < hostEnd))\n   hostEnd = hec;\n   }\n\n   // at this point, either we have an explicit point where the\n   // auth portion cannot go past, or the last @ char is the decider.\n   var auth, atSign;\n   if (hostEnd === -1) {\n   // atSign can be anywhere.\n   atSign = rest.lastIndexOf('@');\n   } else {\n   // atSign must be in auth portion.\n   // http://a@b/c@d => host:b auth:a path:/c@d\n   atSign = rest.lastIndexOf('@', hostEnd);\n   }\n\n   // Now we have a portion which is definitely the auth.\n   // Pull that off.\n   if (atSign !== -1) {\n   auth = rest.slice(0, atSign);\n   rest = rest.slice(atSign + 1);\n   this.auth = decodeURIComponent(auth);\n   }\n\n   // the host is the remaining to the left of the first non-host char\n   hostEnd = -1;\n   for (var i = 0; i < nonHostChars.length; i++) {\n   var hec = rest.indexOf(nonHostChars[i]);\n   if (hec !== -1 && (hostEnd === -1 || hec < hostEnd))\n   hostEnd = hec;\n   }\n   // if we still have not hit it, then the entire thing is a host.\n   if (hostEnd === -1)\n   hostEnd = rest.length;\n\n   this.host = rest.slice(0, hostEnd);\n   rest = rest.slice(hostEnd);\n\n   // pull out port.\n   this.parseHost();\n\n   // we've indicated that there is a hostname,\n   // so even if it's empty, it has to be present.\n   this.hostname = this.hostname || '';\n\n   // if hostname begins with [and ends with]\n   // assume that it's an IPv6 address.\n   var ipv6Hostname = this.hostname[0] === '[' &&\n   this.hostname[this.hostname.length - 1] === ']';\n\n   // validate a little.\n   if (!ipv6Hostname) {\n   var hostparts = this.hostname.split(/\\./);\n   for (var i = 0, l = hostparts.length; i < l; i++) {\n   var part = hostparts[i];\n   if (!part) continue;\n   if

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(!part.match(hostnamePartPattern)) {\n          var newpart = '';\n          for (var j = 0, k = part.length; j < k; j++) {\n
      if (part.charCodeAt(j) > 127) {\n              // we replace non-ASCII char with a temporary placeholder\n              //
we need this to make sure size of hostname is not\n              // broken by replacing non-ASCII by nothing\n
newpart += 'x';\n            } else {\n              newpart += part[j];\n            }\n          }\n          // we test again with
ASCII char only\n          if (!newpart.match(hostnamePartPattern)) {\n            var validParts = hostparts.slice(0, i);\n
        var notHost = hostparts.slice(i + 1);\n            var bit = part.match(hostnamePartStart);\n            if (bit) {\n
   validParts.push(bit[1]);\n              notHost.unshift(bit[2]);\n            }\n            if (notHost.length) {\n              rest =
'/' + notHost.join('.') + rest;\n            }\n            this.hostname = validParts.join('.');\n            break;\n          }\n        }\n
    }\n    }\n\n    if (this.hostname.length > hostnameMaxLen) {\n      this.hostname = '';\n    } else {\n      // hostnames
are always lower case.\n      this.hostname = this.hostname.toLowerCase();\n    }\n\n    if (!ipv6Hostname) {\n      //
IDNA Support: Returns a punycoded representation of \"domain\".\n      // It only converts parts of the domain name
that\n      // have non-ASCII characters, i.e. it doesn't matter if\n      // you call it with a domain that already is
ASCII-only.\n      this.hostname = punycode.toASCII(this.hostname);\n    }\n\n    var p = this.port ? ':' + this.port :
'';\n    var h = this.hostname || '';\n    this.host = h + p;\n    this.href += this.host;\n\n    // strip [ and ] from the
hostname\n    // the host field still retains them, though\n    if (ipv6Hostname) {\n      this.hostname =
this.hostname.substr(1, this.hostname.length - 2);\n      if (rest[0] !== '/') {\n        rest = '/' + rest;\n      }\n    }\n  }\n\n
// now rest is set to the post-host stuff.\n  // chop off any delim chars.\n  if (!unsafeProtocol[lowerProto]) {\n\n    //
First, make 100% sure that any \"autoEscape\" chars get\n    // escaped, even if encodeURIComponent doesn't think
they\n    // need to be.\n    for (var i = 0, l = autoEscape.length; i < l; i++) {\n      var ae = autoEscape[i];\n      if
(rest.indexOf(ae) === -1)\n        continue;\n      var esc = encodeURIComponent(ae);\n      if (esc === ae) {\n
esc = escape(ae);\n      }\n      rest = rest.split(ae).join(esc);\n    }\n  }\n\n\n  // chop off from the tail first.\n  var hash
= rest.indexOf('#');\n  if (hash !== -1) {\n    // got a fragment string.\n    this.hash = rest.substr(hash);\n    rest =
rest.slice(0, hash);\n  }\n  var qm = rest.indexOf('?');\n  if (qm !== -1) {\n    this.search = rest.substr(qm);\n
this.query = rest.substr(qm + 1);\n    if (parseQueryString) {\n      this.query = querystring.parse(this.query);\n    }\n
rest = rest.slice(0, qm);\n  } else if (parseQueryString) {\n    // no query string, but parseQueryString still requested\n
  this.search = '';\n    this.query = {};\n  }\n  if (rest) this.pathname = rest;\n  if (slashedProtocol[lowerProto] &&\n
this.hostname && !this.pathname) {\n    this.pathname = '/';\n  }\n\n  //to support http.request\n  if (this.pathname ||
this.search) {\n    var p = this.pathname || '';\n    var s = this.search || '';\n    this.path = p + s;\n  }\n\n  // finally,
reconstruct the href based on what has been validated.\n  this.href = this.format();\n  return this;\n};\n\n// format a
parsed object into a url string\nfunction urlFormat(obj) {\n  // ensure it's an object, and not a string url.\n  // If it's an
obj, this is a no-op.\n  // this way, you can call url_format() on strings\n  // to clean up potentially wonky urls.\n  if
(util.isString(obj)) obj = urlParse(obj);\n  if (!(obj instanceof Url)) return Url.prototype.format.call(obj);\n  return
obj.format();\n}\n\nUrl.prototype.format = function() {\n  var auth = this.auth || '';\n  if (auth) {\n    auth =
encodeURIComponent(auth);\n    auth = auth.replace(/%3A/i, ':');\n    auth += '@';\n  }\n\n  var protocol =
this.protocol || '',\n      pathname = this.pathname || '',\n      hash = this.hash || '',\n      host = false,\n      query = '';\n\n
if (this.host) {\n    host = auth + this.host;\n  } else if (this.hostname) {\n    host = auth + (this.hostname.indexOf(':')
=== -1 ?\n        this.hostname :\n        '[' + this.hostname + ']');\n    if (this.port) {\n      host += ':' + this.port;\n    }\n
}\n\n  if (this.query &&\n      util.isObject(this.query) &&\n      Object.keys(this.query).length) {\n    query =
querystring.stringify(this.query);\n  }\n\n  var search = this.search || (query && ('?' + query)) || '';\n\n  if (protocol
&& protocol.substr(-1) !== ':') protocol += ':';\n\n  // only the slashedProtocols get the //.  Not mailto:, xmpp:, etc.\n
// unless they had them to begin with.\n  if (this.slashes ||\n      (!protocol || slashedProtocol[protocol]) && host !==
false) {\n    host = '//' + (host || '');\n    if (pathname && pathname.charAt(0) !== '/') pathname = '/' + pathname;\n  }
else if (!host) {\n    host = '';\n  }\n\n  if (hash && hash.charAt(0) !== '#') hash = '#' + hash;\n  if (search &&
search.charAt(0) !== '?') search = '?' + search;\n\n  pathname = pathname.replace(/[?#]/g, function(match) {\n
return encodeURIComponent(match);\n  });\n  search = search.replace('#', '%23');\n\n  return protocol + host +
pathname + search + hash;\n};\n\nfunction urlResolve(source, relative) {\n  return urlParse(source, false,
true).resolve(relative);\n}\n\nUrl.prototype.resolve = function(relative) {\n  return
this.resolveObject(urlParse(relative, false, true)).format();\n};\n\nfunction urlResolveObject(source, relative) {\n  if
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(!source) return relative;\n return urlParse(source, false, true).resolveObject(relative);\n}\n\nUrl.prototype.resolveObject = function(relative) {\n if (util.isString(relative)) {\n   var rel = new Url();\n   rel.parse(relative, false, true);\n   relative = rel;\n }\n\n var result = new Url();\n var tkeys = Object.keys(this);\n for (var tk = 0; tk < tkeys.length; tk++) {\n   var tkey = tkeys[tk];\n   result[tkey] = this[tkey];\n }\n\n // hash is always overridden, no matter what.\n // even href=\"\" will remove it.\n result.hash = relative.hash;\n\n // if the relative url is empty, then there's nothing left to do here.\n if (relative.href === '') {\n   result.href = result.format();\n   return result;\n }\n\n // hrefs like //foo/bar always cut to the protocol.\n if (relative.slashes && !relative.protocol) {\n   // take everything except the protocol from relative\n   var rkeys = Object.keys(relative);\n   for (var rk = 0; rk < rkeys.length; rk++) {\n   var rkey = rkeys[rk];\n   if (rkey !== 'protocol')\n   result[rkey] = relative[rkey];\n   }\n\n   //urlParse appends trailing / to urls like http://www.example.com\n   if (slashedProtocol[result.protocol] &&\n   result.hostname && !result.pathname) {\n   result.path = result.pathname = '/';\n   }\n\n   result.href = result.format();\n   return result;\n }\n\n if (relative.protocol && relative.protocol !== result.protocol) {\n   // if it's a known url protocol, then changing\n   // the protocol does weird things\n   // first, if it's not file:, then we MUST have a host,\n   // and if there was a path\n   // to begin with, then we MUST have a path.\n   // if it is file:, then the host is dropped,\n   // because that's known to be hostless.\n   // anything else is assumed to be absolute.\n   if (!slashedProtocol[relative.protocol]) {\n   var keys = Object.keys(relative);\n   for (var v = 0; v < keys.length; v++) {\n   var k = keys[v];\n   result[k] = relative[k];\n   }\n   result.href = result.format();\n   return result;\n   }\n\n   result.protocol = relative.protocol;\n   if (!relative.host && !hostlessProtocol[relative.protocol]) {\n   var relPath = (relative.pathname || '').split('/');\n   while (relPath.length && !(relative.host = relPath.shift()));\n   if (!relative.host) relative.host = '';\n   if (!relative.hostname) relative.hostname = '';\n   if (relPath[0] !== '') relPath.unshift('');\n   if (relPath.length < 2) relPath.unshift('');\n   result.pathname = relPath.join('/');\n   } else {\n   result.pathname = relative.pathname;\n   }\n   result.search = relative.search;\n   result.query = relative.query;\n   result.host = relative.host || '';\n   result.auth = relative.auth;\n   result.hostname = relative.hostname || relative.host;\n   result.port = relative.port;\n   // to support http.request\n   if (result.pathname || result.search) {\n   var p = result.pathname || '';\n   var s = result.search || '';\n   result.path = p + s;\n   }\n   result.slashes = result.slashes || relative.slashes;\n   result.href = result.format();\n   return result;\n }\n\n var isSourceAbs = (result.pathname && result.pathname.charAt(0) === '/'),\n   isRelAbs = (\n   relative.host ||\n   relative.pathname && relative.pathname.charAt(0) === '/'\n   ),\n   mustEndAbs = (isRelAbs || isSourceAbs ||\n   (result.host && relative.pathname)),\n   removeAllDots = mustEndAbs,\n   srcPath = result.pathname && result.pathname.split('/') || [],\n   relPath = relative.pathname && relative.pathname.split('/') || [],\n   psychotic = result.protocol && !slashedProtocol[result.protocol];\n\n // if the url is a non-slashed url, then relative\n // links like ../.. should be able\n // to crawl up to the hostname, as well. This is strange.\n // result.protocol has already been set by now.\n // Later on, put the first path part into the host field.\n if (psychotic) {\n   result.hostname = '';\n   result.port = null;\n   if (result.host) {\n   if (srcPath[0] === '') srcPath[0] = result.host;\n   else srcPath.unshift(result.host);\n   }\n   result.host = '';\n   if (relative.protocol) {\n   relative.hostname = null;\n   relative.port = null;\n   if (relative.host) {\n   if (relPath[0] === '') relPath[0] = relative.host;\n   else relPath.unshift(relative.host);\n   }\n   relative.host = null;\n   }\n   mustEndAbs = mustEndAbs && (relPath[0] === '' || srcPath[0] === '');\n }\n\n if (isRelAbs) {\n   // it's absolute.\n   result.host = (relative.host || relative.host === '') ?\n   relative.host : result.host;\n   result.hostname = (relative.hostname || relative.hostname === '') ?\n   relative.hostname : result.hostname;\n   result.search = relative.search;\n   result.query = relative.query;\n   srcPath = relPath;\n   // fall through to the dot-handling below.\n } else if (relPath.length) {\n   // it's relative\n   // throw away the existing file, and take the new path instead.\n   if (!srcPath) srcPath = [];\n   srcPath.pop();\n   srcPath = srcPath.concat(relPath);\n   result.search = relative.search;\n   result.query = relative.query;\n } else if (!util.isNullOrUndefined(relative.search)) {\n   // just pull out the search.\n   // like href='?foo'.\n   // Put this after the other two cases because it simplifies the booleans\n   if (psychotic) {\n   result.hostname = result.host = srcPath.shift();\n   //occationaly the auth can get stuck only in host\n   //this especially happens in cases like\n   //url.resolveObject('mailto:local1@domain1',

'local2@domain2')\n   var authInHost = result.host && result.host.indexOf('@') > 0 ?\n
result.host.split('@') : false;\n   if (authInHost) {\n   result.auth = authInHost.shift();\n   result.host =
result.hostname = authInHost.shift();\n   }\n   }\n   result.search = relative.search;\n   result.query =
relative.query;\n   //to support http.request\n   if (!util.isNull(result.pathname) || !util.isNull(result.search)) {\n
result.path = (result.pathname ? result.pathname : '') +\n   (result.search ? result.search : '');\n   }\n
result.href = result.format();\n   return result;\n }\n\n if (!srcPath.length) {\n   // no path at all. easy.\n   // we've
already handled the other stuff above.\n   result.pathname = null;\n   //to support http.request\n   if (result.search)
{\n   result.path = '/' + result.search;\n   } else {\n   result.path = null;\n   }\n   result.href = result.format();\n
return result;\n }\n\n // if a url ENDs in . or .., then it must get a trailing slash.\n // however, if it ends in anything
else non-slashy,\n // then it must NOT get a trailing slash.\n var last = srcPath.slice(-1)[0];\n var hasTrailingSlash
= (\n   (result.host || relative.host || srcPath.length > 1) &&\n   (last === '.' || last === '..') || last === '');\n\n // strip
single dots, resolve double dots to parent dir\n // if the path tries to go above the root, `up` ends up > 0\n var up =
0;\n for (var i = srcPath.length; i >= 0; i--) {\n   last = srcPath[i];\n   if (last === '.') {\n   srcPath.splice(i, 1);\n   }
else if (last === '..') {\n   srcPath.splice(i, 1);\n   up++;\n   } else if (up) {\n   srcPath.splice(i, 1);\n   up--;\n
}\n }\n\n // if the path is allowed to go above the root, restore leading ..s\n if (!mustEndAbs && !removeAllDots)
{\n   for (; up--; up) {\n   srcPath.unshift('..');\n   }\n }\n\n if (mustEndAbs && srcPath[0] !== '' &&\n
(!srcPath[0] || srcPath[0].charAt(0) !== '/')) {\n   srcPath.unshift('');\n }\n\n if (hasTrailingSlash &&
(srcPath.join('/').substr(-1) !== '/')) {\n   srcPath.push('');\n }\n\n var isAbsolute = srcPath[0] === '' ||\n
(srcPath[0] && srcPath[0].charAt(0) === '/');\n\n // put the host back\n if (psychotic) {\n   result.hostname =
result.host = isAbsolute ? '' :\n   srcPath.length ? srcPath.shift() : '';\n   //occationaly the auth
can get stuck only in host\n   //this especially happens in cases like\n   //url.resolveObject('mailto:local1@domain1',
'local2@domain2')\n   var authInHost = result.host && result.host.indexOf('@') > 0 ?\n
result.host.split('@') : false;\n   if (authInHost) {\n   result.auth = authInHost.shift();\n   result.host =
result.hostname = authInHost.shift();\n   }\n }\n\n mustEndAbs = mustEndAbs || (result.host &&
srcPath.length);\n\n if (mustEndAbs && !isAbsolute) {\n   srcPath.unshift('');\n }\n\n if (!srcPath.length) {\n
result.pathname = null;\n   result.path = null;\n } else {\n   result.pathname = srcPath.join('/');\n }\n\n //to support
request.http\n if (!util.isNull(result.pathname) || !util.isNull(result.search)) {\n   result.path = (result.pathname ?
result.pathname : '') +\n   (result.search ? result.search : '');\n }\n result.auth = relative.auth || result.auth;\n
result.slashes = result.slashes || relative.slashes;\n result.href = result.format();\n return
result;\n};\n\nUrl.prototype.parseHost = function() {\n var host = this.host;\n var port = portPattern.exec(host);\n if
(port) {\n   port = port[0];\n   if (port !== ':') {\n   this.port = port.substr(1);\n   }\n   host = host.substr(0,
host.length - port.length);\n }\n if (host) this.hostname = host;\n};\n","// @flow\n\nimport Reference from
'./reference/v8.json';\nimport type {StylePropertySpecification} from './style-spec';\nimport type {\n
StyleSpecification,\n   SourceSpecification,\n   LayerSpecification,\n   PropertyValueSpecification,\n
DataDrivenPropertyValueSpecification\n} from './types';\n\nfunction getPropertyReference(propertyName):
StylePropertySpecification {\n   for (let i = 0; i < Reference.layout.length; i++) {\n   for (const key in
Reference[Reference.layout[i]]) {\n   if (key === propertyName) return (Reference[Reference.layout[i]][key]:
any);\n   }\n   }\n   for (let i = 0; i < Reference.paint.length; i++) {\n   for (const key in
Reference[Reference.paint[i]]) {\n   if (key === propertyName) return (Reference[Reference.paint[i]][key]:
any);\n   }\n   }\n\n   return (null: any);\n}\n\nexport function eachSource(style: StyleSpecification, callback: (_:
SourceSpecification) => void) {\n   for (const k in style.sources) {\n   callback(style.sources[k]);\n
}\n}\n\nexport function eachLayer(style: StyleSpecification, callback: (_: LayerSpecification) => void) {\n   for
(const layer of style.layers) {\n   callback(layer);\n   }\n}\n\ntype PropertyCallback = ({\n   path: [string, 'paint' |
'layout', string], // [layerid, paint/layout, property key]\n   key: string,\n   value:
PropertyValueSpecification<mixed> | DataDrivenPropertyValueSpecification<mixed>,\n   reference:
StylePropertySpecification,\n   set: (PropertyValueSpecification<mixed> |
DataDrivenPropertyValueSpecification<mixed>) => void\n}) => void;\n\nexport function eachProperty(\n   style:
StyleSpecification,\n   options: {paint?: boolean, layout?: boolean},\n   callback: PropertyCallback\n) {\n

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

eachLayer(style, (layer) => {\n   eachLayout(layer, (layout) => {\n   if (layout['text-font']) {\n   layout['text-font'] = migrateFontStack(layout['text-font']);\n   }\n   });\n   });\n\n   // Reverse order of symbol layers. This is an imperfect migration.\n   //\n   // The order of a symbol layer in the layers list affects two things:\n   // - how it is drawn relative to other layers (like oneway arrows below bridges)\n   // - the placement priority compared to other layers\n   //\n   // It's impossible to reverse the placement priority without breaking the draw order\n   // in some cases. This migration only reverses the order of symbol layers that\n   // are above all other types of layers.\n   //\n   // Symbol layers that are at the top of the map preserve their priority.\n   // Symbol layers that are below another type (line, fill) of layer preserve their draw order.\n\n   let firstSymbolLayer = 0;\n   for (let i = style.layers.length - 1; i >= 0; i--) {\n   const layer = style.layers[i];\n   if (layer.type !== 'symbol') {\n   firstSymbolLayer = i + 1;\n   break;\n   }\n   }\n\n   const symbolLayers = style.layers.splice(firstSymbolLayer);\n   symbolLayers.reverse();\n   style.layers = style.layers.concat(symbolLayers);\n\n   return style;\n}\n","// @flow\n\nexport default function (output: any, ...inputs: Array<any>) {\n   for (const input of inputs) {\n   for (const k in input) {\n   output[k] = input[k];\n   }\n   }\n   return output;\n}\n","// @flow\n\nclass ParsingError extends Error {\n   key: string;\n   message: string;\n   constructor(key: string, message: string) {\n   super(message);\n   this.message = message;\n   this.key = key;\n   }\n}\n\nexport default ParsingError;\n","// @flow\n\nimport type {Expression} from './expression';\n\n/**\n * Tracks `let` bindings during expression parsing.\n * @private\n */\nclass Scope {\n   parent: ?Scope;\n   bindings: {[_: string]: Expression};\n   constructor(parent?: Scope, bindings: Array<[string, Expression]> = []) {\n   this.parent = parent;\n   this.bindings = {};\n   for (const [name, expression] of bindings) {\n   this.bindings[name] = expression;\n   }\n   }\n\n   concat(bindings: Array<[string, Expression]>) {\n   return new Scope(this, bindings);\n   }\n\n   get(name: string): Expression {\n   if (this.bindings[name]) { return this.bindings[name]; }\n   if (this.parent) { return this.parent.get(name); }\n   throw new Error(`${name} not found in scope.`);\n   }\n\n   has(name: string): boolean {\n   if (this.bindings[name]) return true;\n   return this.parent ? this.parent.has(name) : false;\n   }\n}\n\nexport default Scope;\n","// @flow\n\nexport type NullTypeT = { kind: 'null' };\nexport type NumberTypeT = { kind: 'number' };\nexport type StringTypeT = { kind: 'string' };\nexport type BooleanTypeT = { kind: 'boolean' };\nexport type ColorTypeT = { kind: 'color' };\nexport type ObjectTypeT = { kind: 'object' };\nexport type ValueTypeT = { kind: 'value' };\nexport type ErrorTypeT = { kind: 'error' };\nexport type CollatorTypeT = { kind: 'collator' };\nexport type FormattedTypeT = { kind: 'formatted' };\nexport type ResolvedImageTypeT = { kind: 'resolvedImage' };\n\nexport type EvaluationKind = 'constant' | 'source' | 'camera' | 'composite';\n\nexport type Type =\n   NullTypeT |\n   NumberTypeT |\n   StringTypeT |\n   BooleanTypeT |\n   ColorTypeT |\n   ObjectTypeT |\n   ValueTypeT |\n   ArrayType | // eslint-disable-line no-use-before-define\n   ErrorTypeT |\n   CollatorTypeT |\n   FormattedTypeT |\n   ResolvedImageTypeT\n\nexport type ArrayType = {\n   kind: 'array',\n   itemType: Type,\n   N: ?number\n}\n\nexport type NativeType = 'number' | 'string' | 'boolean' | 'null' | 'array' | 'object'\n\nexport const NullType = {kind: 'null'};\nexport const NumberType = {kind: 'number'};\nexport const StringType = {kind: 'string'};\nexport const BooleanType = {kind: 'boolean'};\nexport const ColorType = {kind: 'color'};\nexport const ObjectType = {kind: 'object'};\nexport const ValueType = {kind: 'value'};\nexport const ErrorType = {kind: 'error'};\nexport const CollatorType = {kind: 'collator'};\nexport const FormattedType = {kind: 'formatted'};\nexport const ResolvedImageType = {kind: 'resolvedImage'};\n\nexport function array(itemType: Type, N: ?number): ArrayType {\n   return {\n   kind: 'array',\n   itemType,\n   N\n   };\n}\n\nexport function toString(type: Type): string {\n   if (type.kind === 'array') {\n   const itemType = toString(type.itemType);\n   return typeof type.N === 'number' ?\n   `array<${itemType}, ${type.N}>` :\n   type.itemType.kind === 'value' ? 'array' : `array<${itemType}>`;\n   } else {\n   return type.kind;\n   }\n}\n\nconst valueMemberTypes = [\n   NullType,\n   NumberType,\n   StringType,\n   BooleanType,\n   ColorType,\n   FormattedType,\n   ObjectType,\n   array(ValueType),\n   ResolvedImageType\n];\n\n/**\n * Returns null if `t` is a subtype of `expected`; otherwise returns an\n * error message.\n * @private\n */\nexport function checkSubtype(expected: Type, t: Type): ?string {\n   if (t.kind === 'error') {\n   // Error is a subtype of every type\n   return null;\n   } else if (expected.kind === 'array') {\n   if (t.kind === 'array' &&\n   ((t.N === 0 && t.itemType.kind ===

'value') || !checkSubtype(expected.itemType, t.itemType)) &&\n (typeof expected.N !== 'number' || expected.N === t.N)) {\n return null;\n }\n } else if (expected.kind === t.kind) {\n return null;\n } else if (expected.kind === 'value') {\n for (const memberType of valueMemberTypes) {\n if (!checkSubtype(memberType, t)) {\n return null;\n }\n }\n }\n\n return `Expected ${toString(expected)} but found ${toString(t)} instead.`;\n}\n\nexport function isValidType(provided: Type, allowedTypes: Array<Type>): boolean {\n return allowedTypes.some(t => t.kind === provided.kind);\n}\n\nexport function isValidNativeType(provided: any, allowedTypes: Array<NativeType>): boolean {\n return allowedTypes.some(t => {\n if (t === 'null') {\n return provided === null;\n } else if (t === 'array') {\n return Array.isArray(provided);\n } else if (t === 'object') {\n return provided && !Array.isArray(provided) && typeof provided === 'object';\n } else {\n return t === typeof provided;\n }\n });\n}\n","// (c) Dean McNamee <dean@gmail.com>, 2012.\n//\n// https://github.com/deanm/css-color-parser-js\n//\n// Permission is hereby granted, free of charge, to any person obtaining a copy\n// of this software and associated documentation files (the \"Software\"), to\n// deal in the Software without restriction, including without limitation the\n// rights to use, copy, modify, merge, publish, distribute, sublicense, and/or\n// sell copies of the Software, and to permit persons to whom the Software is\n// furnished to do so, subject to the following conditions:\n//\n// The above copyright notice and this permission notice shall be included in\n// all copies or substantial portions of the Software.\n//\n// THE SOFTWARE IS PROVIDED \"AS IS\", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR\n// IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,\n// FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE\n// AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER\n// LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING\n// FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS\n// IN THE SOFTWARE.\n\n// http://www.w3.org/TR/css3-color/\nvar kCSSColorTable = {\n \"transparent\": [0,0,0,0], \"aliceblue\": [240,248,255,1],\n \"antiquewhite\": [250,235,215,1], \"aqua\": [0,255,255,1],\n \"aquamarine\": [127,255,212,1], \"azure\": [240,255,255,1],\n \"beige\": [245,245,220,1], \"bisque\": [255,228,196,1],\n \"black\": [0,0,0,1], \"blanchedalmond\": [255,235,205,1],\n \"blue\": [0,0,255,1], \"blueviolet\": [138,43,226,1],\n \"brown\": [165,42,42,1], \"burlywood\": [222,184,135,1],\n \"cadetblue\": [95,158,160,1], \"chartreuse\": [127,255,0,1],\n \"chocolate\": [210,105,30,1], \"coral\": [255,127,80,1],\n \"cornflowerblue\": [100,149,237,1], \"cornsilk\": [255,248,220,1],\n \"crimson\": [220,20,60,1], \"cyan\": [0,255,255,1],\n \"darkblue\": [0,0,139,1], \"darkcyan\": [0,139,139,1],\n \"darkgoldenrod\": [184,134,11,1], \"darkgray\": [169,169,169,1],\n \"darkgreen\": [0,100,0,1], \"darkgrey\": [169,169,169,1],\n \"darkkhaki\": [189,183,107,1], \"darkmagenta\": [139,0,139,1],\n \"darkolivegreen\": [85,107,47,1], \"darkorange\": [255,140,0,1],\n \"darkorchid\": [153,50,204,1], \"darkred\": [139,0,0,1],\n \"darksalmon\": [233,150,122,1], \"darkseagreen\": [143,188,143,1],\n \"darkslateblue\": [72,61,139,1], \"darkslategray\": [47,79,79,1],\n \"darkslategrey\": [47,79,79,1], \"darkturquoise\": [0,206,209,1],\n \"darkviolet\": [148,0,211,1], \"deeppink\": [255,20,147,1],\n \"deepskyblue\": [0,191,255,1], \"dimgray\": [105,105,105,1],\n \"dimgrey\": [105,105,105,1], \"dodgerblue\": [30,144,255,1],\n \"firebrick\": [178,34,34,1], \"floralwhite\": [255,250,240,1],\n \"forestgreen\": [34,139,34,1], \"fuchsia\": [255,0,255,1],\n \"gainsboro\": [220,220,220,1], \"ghostwhite\": [248,248,255,1],\n \"gold\": [255,215,0,1], \"goldenrod\": [218,165,32,1],\n \"gray\": [128,128,128,1], \"green\": [0,128,0,1],\n \"greenyellow\": [173,255,47,1], \"grey\": [128,128,128,1],\n \"honeydew\": [240,255,240,1], \"hotpink\": [255,105,180,1],\n \"indianred\": [205,92,92,1], \"indigo\": [75,0,130,1],\n \"ivory\": [255,255,240,1], \"khaki\": [240,230,140,1],\n \"lavender\": [230,230,250,1], \"lavenderblush\": [255,240,245,1],\n \"lawngreen\": [124,252,0,1], \"lemonchiffon\": [255,250,205,1],\n \"lightblue\": [173,216,230,1], \"lightcoral\": [240,128,128,1],\n \"lightcyan\": [224,255,255,1], \"lightgoldenrodyellow\": [250,250,210,1],\n \"lightgray\": [211,211,211,1], \"lightgreen\": [144,238,144,1],\n \"lightgrey\": [211,211,211,1], \"lightpink\": [255,182,193,1],\n \"lightsalmon\": [255,160,122,1], \"lightseagreen\": [32,178,170,1],\n \"lightskyblue\": [135,206,250,1], \"lightslategray\": [119,136,153,1],\n \"lightslategrey\": [119,136,153,1], \"lightsteelblue\": [176,196,222,1],\n \"lightyellow\": [255,255,224,1], \"lime\": [0,255,0,1],\n

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\"limegreen\": [50,205,50,1], \"linen\": [250,240,230,1],\n  \"magenta\": [255,0,255,1], \"maroon\": [128,0,0,1],\n
\"mediumaquamarine\": [102,205,170,1], \"mediumblue\": [0,0,205,1],\n  \"mediumorchid\": [186,85,211,1],
\"mediumpurple\": [147,112,219,1],\n  \"mediumseagreen\": [60,179,113,1], \"mediumslateblue\":
[123,104,238,1],\n  \"mediumspringgreen\": [0,250,154,1], \"mediumturquoise\": [72,209,204,1],\n
\"mediumvioletred\": [199,21,133,1], \"midnightblue\": [25,25,112,1],\n  \"mintcream\": [245,255,250,1],
\"mistyrose\": [255,228,225,1],\n  \"moccasin\": [255,228,181,1], \"navajowhite\": [255,222,173,1],\n  \"navy\":
[0,0,128,1], \"oldlace\": [253,245,230,1],\n  \"olive\": [128,128,0,1], \"olivedrab\": [107,142,35,1],\n  \"orange\":
[255,165,0,1], \"orangered\": [255,69,0,1],\n  \"orchid\": [218,112,214,1], \"palegoldenrod\": [238,232,170,1],\n
\"palegreen\": [152,251,152,1], \"paleturquoise\": [175,238,238,1],\n  \"palevioletred\": [219,112,147,1],
\"papayawhip\": [255,239,213,1],\n  \"peachpuff\": [255,218,185,1], \"peru\": [205,133,63,1],\n  \"pink\":
[255,192,203,1], \"plum\": [221,160,221,1],\n  \"powderblue\": [176,224,230,1], \"purple\": [128,0,128,1],\n
\"rebeccapurple\": [102,51,153,1],\n  \"red\": [255,0,0,1], \"rosybrown\": [188,143,143,1],\n  \"royalblue\":
[65,105,225,1], \"saddlebrown\": [139,69,19,1],\n  \"salmon\": [250,128,114,1], \"sandybrown\": [244,164,96,1],\n
\"seagreen\": [46,139,87,1], \"seashell\": [255,245,238,1],\n  \"sienna\": [160,82,45,1], \"silver\": [192,192,192,1],\n
\"skyblue\": [135,206,235,1], \"slateblue\": [106,90,205,1],\n  \"slategray\": [112,128,144,1], \"slategrey\":
[112,128,144,1],\n  \"snow\": [255,250,250,1], \"springgreen\": [0,255,127,1],\n  \"steelblue\": [70,130,180,1],
\"tan\": [210,180,140,1],\n  \"teal\": [0,128,128,1], \"thistle\": [216,191,216,1],\n  \"tomato\": [255,99,71,1],
\"turquoise\": [64,224,208,1],\n  \"violet\": [238,130,238,1], \"wheat\": [245,222,179,1],\n  \"white\":
[255,255,255,1], \"whitesmoke\": [245,245,245,1],\n  \"yellow\": [255,255,0,1], \"yellowgreen\":
[154,205,50,1]}\n\nfunction clamp_css_byte(i) {  // Clamp to integer 0 .. 255.\n  i = Math.round(i);  // Seems to be
what Chrome does (vs truncation).\n  return i < 0 ? 0 : i > 255 ? 255 : i;\n}\n\nfunction clamp_css_float(f) {  //
Clamp to float 0.0 .. 1.0.\n  return f < 0 ? 0 : f > 1 ? 1 : f;\n}\n\nfunction parse_css_int(str) {  // int or percentage.\n
if (str[str.length - 1] === '%')\n    return clamp_css_byte(parseFloat(str) / 100 * 255);\n  return
clamp_css_byte(parseInt(str));\n}\n\nfunction parse_css_float(str) {  // float or percentage.\n  if (str[str.length - 1]
=== '%')\n    return clamp_css_float(parseFloat(str) / 100);\n  return clamp_css_float(parseFloat(str));\n}\n\nfunction
css_hue_to_rgb(m1, m2, h) {\n  if (h < 0) h += 1;\n  else if (h > 1) h -= 1;\n\n  if (h * 6 < 1) return m1 + (m2 - m1) *
h * 6;\n  if (h * 2 < 1) return m2;\n  if (h * 3 < 2) return m1 + (m2 - m1) * (2/3 - h) * 6;\n  return m1;\n}\n\nfunction
parseCSSColor(css_str) {\n  // Remove all whitespace, not compliant, but should just be more accepting.\n  var str =
css_str.replace(/ /g, '').toLowerCase();\n\n  // Color keywords (and transparent) lookup.\n  if (str in kCSSColorTable)
return kCSSColorTable[str].slice();  // dup.\n\n  // #abc and #abc123 syntax.\n  if (str[0] === '#') {\n    if (str.length
=== 4) {\n      var iv = parseInt(str.substr(1), 16);  // TODO(deanm): Stricter parsing.\n      if (!(iv >= 0 && iv <=
0xfff)) return null;  // Covers NaN.\n      return [((iv & 0xf00) >> 4) | ((iv & 0xf00) >> 8),\n              (iv & 0xf0) | ((iv
& 0xf0) >> 4),\n              (iv & 0xf) | ((iv & 0xf) << 4),\n              1];\n    } else if (str.length === 7) {\n      var iv =
parseInt(str.substr(1), 16);  // TODO(deanm): Stricter parsing.\n      if (!(iv >= 0 && iv <= 0xffffff)) return null;  //
Covers NaN.\n      return [(iv & 0xff0000) >> 16,\n              (iv & 0xff00) >> 8,\n              iv & 0xff,\n              1];\n
}\n\n    return null;\n  }\n\n  var op = str.indexOf('('), ep = str.indexOf(')');\n  if (op !== -1 && ep + 1 === str.length)
{\n    var fname = str.substr(0, op);\n    var params = str.substr(op+1, ep-(op+1)).split(',');\n    var alpha = 1;  // To
allow case fallthrough.\n    switch (fname) {\n      case 'rgba':\n        if (params.length !== 4) return null;\n        alpha
= parse_css_float(params.pop());\n        // Fall through.\n      case 'rgb':\n        if (params.length !== 3) return null;\n
    return [parse_css_int(params[0]),\n                parse_css_int(params[1]),\n                parse_css_int(params[2]),\n
        alpha];\n      case 'hsla':\n        if (params.length !== 4) return null;\n        alpha =
parse_css_float(params.pop());\n        // Fall through.\n      case 'hsl':\n        if (params.length !== 3) return null;\n
var h = (((parseFloat(params[0]) % 360) + 360) % 360) / 360;  // 0 .. 1\n        // NOTE(deanm): According to the
CSS spec s/l should only be\n        // percentages, but we don't bother and let float or percentage.\n        var s =
parse_css_float(params[1]);\n        var l = parse_css_float(params[2]);\n        var m2 = l <= 0.5 ? l * (s + 1) : l + s - l
* s;\n        var m1 = l * 2 - m2;\n        return [clamp_css_byte(css_hue_to_rgb(m1, m2, h+1/3) * 255),\n
clamp_css_byte(css_hue_to_rgb(m1, m2, h) * 255),\n                clamp_css_byte(css_hue_to_rgb(m1, m2, h-1/3) *
255),\n                alpha];\n      default:\n        return null;\n    }\n  }\n\n  return null;\n}\n\ntry {
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exports.parseCSSColor = parseCSSColor } catch(e) { }\n","// @flow\n\nimport {parseCSSColor} from
'csscolorparser';\n\n/**\n * An RGBA color value. Create instances from color strings using the static\n * method
`Color.parse`. The constructor accepts RGB channel values in the range\n * `[0, 1]`, premultiplied by A.\n *\n *
@param {number} r The red channel.\n * @param {number} g The green channel.\n * @param {number} b The
blue channel.\n * @param {number} a The alpha channel.\n * @private\n */\nclass Color {\n    r: number;\n    g:
number;\n    b: number;\n    a: number;\n\n    constructor(r: number, g: number, b: number, a: number = 1) {\n
this.r = r;\n        this.g = g;\n        this.b = b;\n        this.a = a;\n    }\n\n    static black: Color;\n    static white: Color;\n
    static transparent: Color;\n    static red: Color;\n\n    /**\n     * Parses valid CSS color strings and returns a `Color`
instance.\n     * @returns A `Color` instance, or `undefined` if the input is not a valid color string.\n     */\n    static
parse(input?: string | Color | null): Color | void {\n        if (!input) {\n            return undefined;\n        }\n\n        if
(input instanceof Color) {\n            return input;\n        }\n\n        if (typeof input !== 'string') {\n            return
undefined;\n        }\n\n        const rgba = parseCSSColor(input);\n        if (!rgba) {\n            return undefined;\n
}\n\n        return new Color(\n            rgba[0] / 255 * rgba[3],\n            rgba[1] / 255 * rgba[3],\n            rgba[2] / 255
* rgba[3],\n            rgba[3]\n        );\n    }\n\n    /**\n     * Returns an RGBA string representing the color value.\n
*\n     * @returns An RGBA string.\n     * @example\n     * var purple = new Color.parse('purple');\n     *
purple.toString; // = \"rgba(128,0,128,1)\"\n     * var translucentGreen = new Color.parse('rgba(26, 207, 26, .73)');\n
 * translucentGreen.toString(); // = \"rgba(26,207,26,0.73)\"\n     */\n    toString(): string {\n        const [r, g, b, a] =
this.toArray();\n        return `rgba(${Math.round(r)},${Math.round(g)},${Math.round(b)},${a})`;\n    }\n\n
toArray(): [number, number, number, number] {\n        const {r, g, b, a} = this;\n        return a === 0 ? [0, 0, 0, 0] :
[\n            r * 255 / a,\n            g * 255 / a,\n            b * 255 / a,\n            a\n        ];\n    }\n}\n\nColor.black = new
Color(0, 0, 0, 1);\nColor.white = new Color(1, 1, 1, 1);\nColor.transparent = new Color(0, 0, 0, 0);\nColor.red = new
Color(1, 0, 0, 1);\n\nexport default Color;\n","// @flow\n\n// Flow type declarations for Intl cribbed from\n//
https://github.com/facebook/flow/issues/1270\n\ndeclare var Intl: {\n    Collator:
Class<Intl$Collator>\n};\n\ndeclare class Intl$Collator {\n    constructor (\n        locales?: string | string[],\n
options?: CollatorOptions\n    ): Intl$Collator;\n\n    static (\n        locales?: string | string[],\n        options?:
CollatorOptions\n    ): Intl$Collator;\n\n    compare (a: string, b: string): number;\n\n    resolvedOptions():
any;\n}\n\ntype CollatorOptions = {\n    localeMatcher?: 'lookup' | 'best fit',\n    usage?: 'sort' | 'search',\n
sensitivity?: 'base' | 'accent' | 'case' | 'variant',\n    ignorePunctuation?: boolean,\n    numeric?: boolean,\n    caseFirst?:
'upper' | 'lower' | 'false'\n}\n\nexport default class Collator {\n    locale: string | null;\n    sensitivity: 'base' | 'accent' |
'case' | 'variant';\n    collator: Intl$Collator;\n\n    constructor(caseSensitive: boolean, diacriticSensitive: boolean,
locale: string | null) {\n        if (caseSensitive)\n            this.sensitivity = diacriticSensitive ? 'variant' : 'case';\n
else\n            this.sensitivity = diacriticSensitive ? 'accent' : 'base';\n\n        this.locale = locale;\n        this.collator =
new Intl.Collator(this.locale ? this.locale : [],\n            {sensitivity: this.sensitivity, usage: 'search'});\n    }\n\n
compare(lhs: string, rhs: string): number {\n        return this.collator.compare(lhs, rhs);\n    }\n\n    resolvedLocale():
string {\n        // We create a Collator without \"usage: search\" because we don't want\n        // the search options
encoded in our result (e.g. \"en-u-co-search\")\n        return new Intl.Collator(this.locale ? this.locale : [])\n
.resolvedOptions().locale;\n    }\n}\n","// @flow\nimport type Color from '../../util/color';\nimport type
ResolvedImage from '../types/resolved_image';\n\nexport class FormattedSection {\n    text: string;\n    image:
ResolvedImage | null;\n    scale: number | null;\n    fontStack: string | null;\n    textColor: Color | null;\n\n
constructor(text: string, image: ResolvedImage | null, scale: number | null, fontStack: string | null, textColor: Color |
null) {\n        this.text = text;\n        this.image = image;\n        this.scale = scale;\n        this.fontStack = fontStack;\n
    this.textColor = textColor;\n    }\n}\n\nexport default class Formatted {\n    sections:
Array<FormattedSection>;\n\n    constructor(sections: Array<FormattedSection>) {\n        this.sections = sections;\n
  }\n\n    static fromString(unformatted: string): Formatted {\n        return new Formatted([new
FormattedSection(unformatted, null, null, null, null)]);\n    }\n\n    isEmpty(): boolean {\n        if (this.sections.length
=== 0) return true;\n        return !this.sections.some(section => section.text.length !== 0 ||\n
  (section.image && section.image.name.length !== 0));\n    }\n\n    static factory(text: Formatted | string):
Formatted {\n        if (text instanceof Formatted) {\n            return text;\n        } else {\n            return
Formatted.fromString(text);\n        }\n    }\n\n    toString(): string {\n        if (this.sections.length === 0) return '';\n
  return this.sections.map(section => section.text).join('');\n    }\n\n    serialize(): Array<mixed> {\n        const
serialized: Array<mixed> = [\"format\"];\n        for (const section of this.sections) {\n            if (section.image) {\n
        serialized.push([\"image\", section.image.name]);\n                continue;\n            }\n
serialized.push(section.text);\n            const options: { [key: string]: mixed } = {};\n            if (section.fontStack) {\n
            options[\"text-font\"] = [\"literal\", section.fontStack.split(',')];\n            }\n            if (section.scale) {\n
    options[\"font-scale\"] = section.scale;\n            }\n            if (section.textColor) {\n                options[\"text-
color\"] = ([\"rgba\"]: Array<mixed>).concat(section.textColor.toArray());\n            }\n
serialized.push(options);\n        }\n        return serialized;\n    }\n}\n","// @flow\n\nexport type
ResolvedImageOptions = {\n    name: string,\n    available: boolean\n};\n\nexport default class ResolvedImage {\n
name: string;\n    available: boolean;\n\n    constructor(options: ResolvedImageOptions) {\n        this.name =
options.name;\n        this.available = options.available;\n    }\n\n    toString(): string {\n        return this.name;\n
}\n\n    static fromString(name: string): ResolvedImage | null {\n        if (!name) return null; // treat empty values as
no image\n        return new ResolvedImage({name, available: false});\n    }\n\n    serialize(): Array<string> {\n
return [\"image\", this.name];\n    }\n}\n","// @flow\n\nimport assert from 'assert';\n\nimport Color from
'../util/color';\nimport Collator from './types/collator';\nimport Formatted from './types/formatted';\nimport
ResolvedImage from './types/resolved_image';\nimport {NullType, NumberType, StringType, BooleanType,
ColorType, ObjectType, ValueType, CollatorType, FormattedType, ResolvedImageType, array} from
'./types';\n\nimport type {Type} from './types';\n\nexport function validateRGBA(r: mixed, g: mixed, b: mixed, a?:
mixed): string | null {\n    if (!(\n        typeof r === 'number' && r >= 0 && r <= 255 &&\n        typeof g ===
'number' && g >= 0 && g <= 255 &&\n        typeof b === 'number' && b >= 0 && b <= 255\n    )) {\n        const
value = typeof a === 'number' ? [r, g, b, a] : [r, g, b];\n        return `Invalid rgba value [${value.join(', ')}]: 'r', 'g', and
'b' must be between 0 and 255.`;\n    }\n\n    if (!(\n        typeof a === 'undefined' || (typeof a === 'number' && a >=
0 && a <= 1)\n    )) {\n        return `Invalid rgba value [${[r, g, b, a].join(', ')}]: 'a' must be between 0 and 1.`;\n
}\n\n    return null;\n}\n\nexport type Value = null | string | boolean | number | Color | Collator | Formatted |
ResolvedImage | $ReadOnlyArray<Value> | { +[string]: Value }\n\nexport function isValue(mixed: mixed): boolean
{\n    if (mixed === null) {\n        return true;\n    } else if (typeof mixed === 'string') {\n        return true;\n    } else
if (typeof mixed === 'boolean') {\n        return true;\n    } else if (typeof mixed === 'number') {\n        return true;\n
} else if (mixed instanceof Color) {\n        return true;\n    } else if (mixed instanceof Collator) {\n        return true;\n
 } else if (mixed instanceof Formatted) {\n        return true;\n    } else if (mixed instanceof ResolvedImage) {\n
return true;\n    } else if (Array.isArray(mixed)) {\n        for (const item of mixed) {\n            if (!isValue(item)) {\n
            return false;\n            }\n        }\n        return true;\n    } else if (typeof mixed === 'object') {\n        for (const
key in mixed) {\n            if (!isValue(mixed[key])) {\n                return false;\n            }\n        }\n        return true;\n
} else {\n        return false;\n    }\n}\n\nexport function typeOf(value: Value): Type {\n    if (value === null) {\n
return NullType;\n    } else if (typeof value === 'string') {\n        return StringType;\n    } else if (typeof value ===
'boolean') {\n        return BooleanType;\n    } else if (typeof value === 'number') {\n        return NumberType;\n    }
else if (value instanceof Color) {\n        return ColorType;\n    } else if (value instanceof Collator) {\n        return
CollatorType;\n    } else if (value instanceof Formatted) {\n        return FormattedType;\n    } else if (value
instanceof ResolvedImage) {\n        return ResolvedImageType;\n    } else if (Array.isArray(value)) {\n        const
length = value.length;\n        let itemType: Type | typeof undefined;\n\n        for (const item of value) {\n
const t = typeOf(item);\n            if (!itemType) {\n                itemType = t;\n            } else if (itemType === t) {\n
      continue;\n            } else {\n                itemType = ValueType;\n                break;\n            }\n        }\n\n
return array(itemType || ValueType, length);\n    } else {\n        assert(typeof value === 'object');\n        return
ObjectType;\n    }\n}\n\nexport function toString(value: Value) {\n    const type = typeof value;\n    if (value ===
null) {\n        return '';\n    } else if (type === 'string' || type === 'number' || type === 'boolean') {\n        return
String(value);\n    } else if (value instanceof Color || value instanceof Formatted || value instanceof ResolvedImage)
{\n        return value.toString();\n    } else {\n        return JSON.stringify(value);\n    }\n}\n\nexport {Color,
Collator};\n","// @flow\n\nimport assert from 'assert';\nimport {isValue, typeOf, Color} from '../values';\nimport
```

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

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

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

Formatted.fromString(valueToString(this.args[0].evaluate(ctx)));\n   } else if (this.type.kind ===
'resolvedImage') {\n   return ResolvedImage.fromString(valueToString(this.args[0].evaluate(ctx)));\n   }
else {\n   return valueToString(this.args[0].evaluate(ctx));\n   }\n   }\n\n   eachChild(fn: (_: Expression) =>
void) {\n   this.args.forEach(fn);\n   }\n\n   outputDefined(): boolean {\n   return this.args.every(arg =>
arg.outputDefined());\n   }\n\n   serialize() {\n   if (this.type.kind === 'formatted') {\n   return new
FormatExpression([{content: this.args[0], scale: null, font: null, textColor: null}]).serialize();\n   }\n\n   if
(this.type.kind === 'resolvedImage') {\n   return new ImageExpression(this.args[0]).serialize();\n   }\n\n
const serialized = [`to-${this.type.kind}`];\n   this.eachChild(child => { serialized.push(child.serialize()); });\n
 return serialized;\n   }\n}\n\nexport default Coercion;\n","// @flow\n\nimport {Color} from './values';\nimport type
{FormattedSection} from './types/formatted';\nimport type {GlobalProperties, Feature, FeatureState} from
'./index';\nimport type {CanonicalTileID} from '../../source/tile_id';\n\nconst geometryTypes = ['Unknown', 'Point',
'LineString', 'Polygon'];\n\nclass EvaluationContext {\n   globals: GlobalProperties;\n   feature: ?Feature;\n
featureState: ?FeatureState;\n   formattedSection: ?FormattedSection;\n   availableImages: ?Array<string>;\n
canonical: ?CanonicalTileID;\n\n   _parseColorCache: {[_: string]: ?Color};\n\n   constructor() {\n   this.globals
= (null: any);\n   this.feature = null;\n   this.featureState = null;\n   this.formattedSection = null;\n
this._parseColorCache = {};\n   this.availableImages = null;\n   this.canonical = null;\n   }\n\n   id() {\n
return this.feature && 'id' in this.feature ? this.feature.id : null;\n   }\n\n   geometryType() {\n   return
this.feature ? typeof this.feature.type === 'number' ? geometryTypes[this.feature.type] : this.feature.type : null;\n
}\n\n   geometry() {\n   return this.feature && 'geometry' in this.feature ? this.feature.geometry : null;\n   }\n\n
canonicalID() {\n   return this.canonical;\n   }\n\n   properties() {\n   return this.feature &&
this.feature.properties || {};\n   }\n\n   parseColor(input: string): ?Color {\n   let cached =
this._parseColorCache[input];\n   if (!cached) {\n   cached = this._parseColorCache[input] =
Color.parse(input);\n   }\n   return cached;\n   }\n}\n\nexport default EvaluationContext;\n","//
@flow\n\nimport {toString} from './types';\n\nimport ParsingContext from './parsing_context';\nimport
EvaluationContext from './evaluation_context';\nimport assert from 'assert';\n\nimport type {Expression,
ExpressionRegistry} from './expression';\nimport type {Type} from './types';\nimport type {Value} from
'./values';\n\nexport type Varargs = {| type: Type |};\ntype Signature = Array<Type> | Varargs;\ntype Evaluate =
(EvaluationContext, Array<Expression>) => Value;\ntype Definition = [Type, Signature, Evaluate] |\n   {|type:
Type, overloads: Array<[Signature, Evaluate]>|};\n\nclass CompoundExpression implements Expression {\n
name: string;\n   type: Type;\n   _evaluate: Evaluate;\n   args: Array<Expression>;\n\n   static definitions: {[_:
string]: Definition };\n\n   constructor(name: string, type: Type, evaluate: Evaluate, args: Array<Expression>) {\n
  this.name = name;\n   this.type = type;\n   this._evaluate = evaluate;\n   this.args = args;\n   }\n\n
evaluate(ctx: EvaluationContext) {\n   return this._evaluate(ctx, this.args);\n   }\n\n   eachChild(fn: (_:
Expression) => void) {\n   this.args.forEach(fn);\n   }\n\n   outputDefined() {\n   return false;\n   }\n\n
serialize(): Array<mixed> {\n   return [this.name].concat(this.args.map(arg => arg.serialize()));\n   }\n\n   static
parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n   const op: string = (args[0]:
any);\n   const definition = CompoundExpression.definitions[op];\n   if (!definition) {\n   return
context.error(`Unknown expression \"${op}\". If you wanted a literal array, use [\"literal\", [...]].`, 0);\n   }\n\n
 // Now check argument types against each signature\n   const type = Array.isArray(definition) ?\n
definition[0] : definition.type;\n\n   const availableOverloads = Array.isArray(definition) ?\n
[[definition[1], definition[2]]] :\n   definition.overloads;\n\n   const overloads =
availableOverloads.filter(([signature]) => (\n   !Array.isArray(signature) || // varags\n   signature.length
=== args.length - 1 // correct param count\n   ));\n\n   let signatureContext: ParsingContext = (null: any);\n\n
   for (const [params, evaluate] of overloads) {\n   // Use a fresh context for each attempted signature so that,
if\n   // we eventually succeed, we haven't polluted `context.errors`.\n   signatureContext = new
ParsingContext(context.registry, context.path, null, context.scope);\n\n   // First parse all the args, potentially
coercing to the\n   // types expected by this overload.\n   const parsedArgs: Array<Expression> = [];\n
    let argParseFailed = false;\n   for (let i = 1; i < args.length; i++) {\n   const arg = args[i];\n

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const expectedType = Array.isArray(params) ?\n                    params[i - 1] :\n                    params.type;\n\n
const parsed = signatureContext.parse(arg, 1 + parsedArgs.length, expectedType);\n                if (!parsed) {\n
      argParseFailed = true;\n                    break;\n                }\n                parsedArgs.push(parsed);\n            }\n
if (argParseFailed) {\n                // Couldn't coerce args of this overload to expected type, move\n                // on to
next one.\n                continue;\n            }\n\n            if (Array.isArray(params)) {\n                if (params.length !==
parsedArgs.length) {\n                    signatureContext.error(`Expected ${params.length} arguments, but found
${parsedArgs.length} instead.`);\n                    continue;\n                }\n            }\n\n            for (let i = 0; i <
parsedArgs.length; i++) {\n                const expected = Array.isArray(params) ? params[i] : params.type;\n
const arg = parsedArgs[i];\n                signatureContext.concat(i + 1).checkSubtype(expected, arg.type);\n
}\n\n            if (signatureContext.errors.length === 0) {\n                return new CompoundExpression(op, type,
evaluate, parsedArgs);\n            }\n        }\n\n        assert(!signatureContext || signatureContext.errors.length > 0);\n\n
      if (overloads.length === 1) {\n            context.errors.push(...signatureContext.errors);\n        } else {\n
const expected = overloads.length ? overloads : availableOverloads;\n            const signatures = expected\n
.map(([params]) => stringifySignature(params))\n                .join(' | ');\n\n            const actualTypes = [];\n            //
For error message, re-parse arguments without trying to\n            // apply any coercions\n            for (let i = 1; i <
args.length; i++) {\n                const parsed = context.parse(args[i], 1 + actualTypes.length);\n                if (!parsed)
return null;\n                actualTypes.push(toString(parsed.type));\n            }\n            context.error(`Expected
arguments of type ${signatures}, but found (${actualTypes.join(', ')}) instead.`);\n        }\n\n        return null;\n
}\n\n    static register(\n        registry: ExpressionRegistry,\n        definitions: {[_: string]: Definition }\n    ) {\n
assert(!CompoundExpression.definitions);\n        CompoundExpression.definitions = definitions;\n        for (const
name in definitions) {\n            registry[name] = CompoundExpression;\n        }\n    }\n}\n\nfunction
stringifySignature(signature: Signature): string {\n    if (Array.isArray(signature)) {\n        return
`(${signature.map(toString).join(', ')})`;\n    } else {\n        return `(${toString(signature.type)}...)`;\n
}\n}\n\nexport default CompoundExpression;\n","// @flow\n\nimport {StringType, BooleanType, CollatorType}
from '../types';\nimport Collator from '../types/collator';\n\nimport type {Expression} from '../expression';\nimport
type EvaluationContext from '../evaluation_context';\nimport type ParsingContext from '../parsing_context';\nimport
type {Type} from '../types';\n\nexport default class CollatorExpression implements Expression {\n    type: Type;\n
caseSensitive: Expression;\n    diacriticSensitive: Expression;\n    locale: Expression | null;\n\n
constructor(caseSensitive: Expression, diacriticSensitive: Expression, locale: Expression | null) {\n        this.type =
CollatorType;\n        this.locale = locale;\n        this.caseSensitive = caseSensitive;\n        this.diacriticSensitive =
diacriticSensitive;\n    }\n\n    static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression
{\n        if (args.length !== 2)\n            return context.error(`Expected one argument.`);\n\n        const options =
(args[1]: any);\n        if (typeof options !== \"object\" || Array.isArray(options))\n            return
context.error(`Collator options argument must be an object.`);\n\n        const caseSensitive = context.parse(\n
options['case-sensitive'] === undefined ? false : options['case-sensitive'], 1, BooleanType);\n        if (!caseSensitive)
return null;\n\n        const diacriticSensitive = context.parse(\n            options['diacritic-sensitive'] === undefined ?
false : options['diacritic-sensitive'], 1, BooleanType);\n        if (!diacriticSensitive) return null;\n\n        let locale =
null;\n        if (options['locale']) {\n            locale = context.parse(options['locale'], 1, StringType);\n            if
(!locale) return null;\n        }\n\n        return new CollatorExpression(caseSensitive, diacriticSensitive, locale);\n
}\n\n    evaluate(ctx: EvaluationContext) {\n        return new Collator(this.caseSensitive.evaluate(ctx),
this.diacriticSensitive.evaluate(ctx), this.locale ? this.locale.evaluate(ctx) : null);\n    }\n\n    eachChild(fn: (_:
Expression) => void) {\n        fn(this.caseSensitive);\n        fn(this.diacriticSensitive);\n        if (this.locale) {\n
fn(this.locale);\n        }\n    }\n\n    outputDefined() {\n        // Technically the set of possible outputs is the
combinatoric set of Collators produced\n        // by all possible outputs of locale/caseSensitive/diacriticSensitive\n
  // But for the primary use of Collators in comparison operators, we ignore the Collator's\n        // possible outputs
anyway, so we can get away with leaving this false for now.\n        return false;\n    }\n\n    serialize() {\n        const
options = {};\n        options['case-sensitive'] = this.caseSensitive.serialize();\n        options['diacritic-sensitive'] =
this.diacriticSensitive.serialize();\n        if (this.locale) {\n            options['locale'] = this.locale.serialize();\n        }\n
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    return [\"collator\", options];\n    }\n}\n","// @flow\n\nimport {isValue} from '../values';\nimport type {Type}
from '../types';\nimport {BooleanType} from '../types';\nimport type {Expression} from '../expression';\nimport type
ParsingContext from '../parsing_context';\nimport type EvaluationContext from '../evaluation_context';\nimport type
{GeoJSON, GeoJSONPolygon, GeoJSONMultiPolygon} from '@mapbox/geojson-types';\nimport Point from
'@mapbox/point-geometry';\nimport type {CanonicalTileID} from '../../../source/tile_id';\n\ntype GeoJSONPolygons
=| GeoJSONPolygon | GeoJSONMultiPolygon;\n\n// minX, minY, maxX, maxY\ntype BBox = [number, number,
number, number];\nconst EXTENT = 8192;\n\nfunction updateBBox(bbox: BBox, coord: Point) {\n    bbox[0] =
Math.min(bbox[0], coord[0]);\n    bbox[1] = Math.min(bbox[1], coord[1]);\n    bbox[2] = Math.max(bbox[2],
coord[0]);\n    bbox[3] = Math.max(bbox[3], coord[1]);\n}\n\nfunction mercatorXfromLng(lng: number) {\n
return (180 + lng) / 360;\n}\n\nfunction mercatorYfromLat(lat: number) {\n    return (180 - (180 / Math.PI *
Math.log(Math.tan(Math.PI / 4 + lat * Math.PI / 360)))) / 360;\n}\n\nfunction boxWithinBox(bbox1: BBox, bbox2:
BBox) {\n    if (bbox1[0] <= bbox2[0]) return false;\n    if (bbox1[2] >= bbox2[2]) return false;\n    if (bbox1[1] <=
bbox2[1]) return false;\n    if (bbox1[3] >= bbox2[3]) return false;\n    return true;\n}\n\nfunction
getTileCoordinates(p, canonical: CanonicalTileID) {\n    const x = mercatorXfromLng(p[0]);\n    const y =
mercatorYfromLat(p[1]);\n    const tilesAtZoom = Math.pow(2, canonical.z);\n    return [Math.round(x *
tilesAtZoom * EXTENT), Math.round(y * tilesAtZoom * EXTENT)];\n}\n\nfunction onBoundary(p, p1, p2) {\n
const x1 = p[0] - p1[0];\n    const y1 = p[1] - p1[1];\n    const x2 = p[0] - p2[0];\n    const y2 = p[1] - p2[1];\n
return (x1 * y2 - x2 * y1 === 0) && (x1 * x2 <= 0) && (y1 * y2 <= 0);\n}\n\nfunction rayIntersect(p, p1, p2) {\n
return ((p1[1] > p[1]) !== (p2[1] > p[1])) && (p[0] < (p2[0] - p1[0]) * (p[1] - p1[1]) / (p2[1] - p1[1]) +
p1[0]);\n}\n\n// ray casting algorithm for detecting if point is in polygon\nfunction pointWithinPolygon(point, rings)
{\n    let inside = false;\n    for (let i = 0, len = rings.length; i < len; i++) {\n        const ring = rings[i];\n        for (let j
= 0, len2 = ring.length; j < len2 - 1; j++) {\n            if (onBoundary(point, ring[j], ring[j + 1])) return false;\n
if (rayIntersect(point, ring[j], ring[j + 1])) inside = !inside;\n        }\n    }\n    return inside;\n}\n\nfunction
pointWithinPolygons(point, polygons) {\n    for (let i = 0; i < polygons.length; i++) {\n        if
(pointWithinPolygon(point, polygons[i])) return true;\n    }\n    return false;\n}\n\nfunction perp(v1, v2) {\n    return
(v1[0] * v2[1] - v1[1] * v2[0]);\n}\n\n// check if p1 and p2 are in different sides of line segment q1->q2\nfunction
twoSided(p1, p2, q1, q2) {\n    // q1->p1 (x1, y1), q1->p2 (x2, y2), q1->q2 (x3, y3)\n    const x1 = p1[0] - q1[0];\n
const y1 = p1[1] - q1[1];\n    const x2 = p2[0] - q1[0];\n    const y2 = p2[1] - q1[1];\n    const x3 = q2[0] - q1[0];\n
const y3 = q2[1] - q1[1];\n    const det1 = (x1 * y3 - x3 * y1);\n    const det2 =  (x2 * y3 - x3 * y2);\n    if ((det1 > 0
&& det2 < 0) || (det1 < 0 && det2 > 0)) return true;\n    return false;\n}\n// a, b are end points for line segment1, c
and d are end points for line segment2\nfunction lineIntersectLine(a, b, c, d) {\n    // check if two segments are
parallel or not\n    // precondition is end point a, b is inside polygon, if line a->b is\n    // parallel to polygon edge c-
>d, then a->b won't intersect with c->d\n    const vectorP = [b[0] - a[0], b[1] - a[1]];\n    const vectorQ = [d[0] - c[0],
d[1] - c[1]];\n    if (perp(vectorQ, vectorP) === 0) return false;\n\n    // If lines are intersecting with each other, the
relative location should be:\n    // a and b lie in different sides of segment c->d\n    // c and d lie in different sides of
segment a->b\n    if (twoSided(a, b, c, d) && twoSided(c, d, a, b)) return true;\n    return false;\n}\n\nfunction
lineIntersectPolygon(p1, p2, polygon) {\n    for (const ring of polygon) {\n        // loop through every edge of the
ring\n        for (let j = 0; j < ring.length - 1; ++j) {\n            if (lineIntersectLine(p1, p2, ring[j], ring[j + 1])) {\n
    return true;\n            }\n        }\n    }\n    return false;\n}\n\nfunction lineStringWithinPolygon(line, polygon) {\n
// First, check if geometry points of line segments are all inside polygon\n    for (let i = 0; i < line.length; ++i) {\n
if (!pointWithinPolygon(line[i], polygon)) {\n            return false;\n        }\n    }\n\n    // Second, check if there is line
segment intersecting polygon edge\n    for (let i = 0; i < line.length - 1; ++i) {\n        if (lineIntersectPolygon(line[i],
line[i + 1], polygon)) {\n            return false;\n        }\n    }\n    return true;\n}\n\nfunction
lineStringWithinPolygons(line, polygons) {\n    for (let i = 0; i < polygons.length; i++) {\n        if
(lineStringWithinPolygon(line, polygons[i])) return true;\n    }\n    return false;\n}\n\nfunction
getTilePolygon(coordinates, bbox, canonical) {\n    const polygon = [];\n    for (let i = 0; i < coordinates.length; i++)
{\n        const ring = [];\n        for (let j = 0; j < coordinates[i].length; j++) {\n            const coord =
getTileCoordinates(coordinates[i][j], canonical);\n            updateBBox(bbox, coord);\n            ring.push(coord);\n
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}\n polygon.push(ring);\n }\n return polygon;\n}\n\nfunction getTilePolygons(coordinates, bbox, canonical) {\n const polygons = [];\n for (let i = 0; i < coordinates.length; i++) {\n const polygon = getTilePolygon(coordinates[i], bbox, canonical);\n polygons.push(polygon);\n }\n return polygons;\n}\n\nfunction updatePoint(p, bbox, polyBBox, worldSize) {\n if (p[0] < polyBBox[0] || p[0] > polyBBox[2]) {\n const halfWorldSize = worldSize * 0.5;\n let shift = (p[0] - polyBBox[0] > halfWorldSize) ? -worldSize : (polyBBox[0] - p[0] > halfWorldSize) ? worldSize : 0;\n if (shift === 0) {\n shift = (p[0] - polyBBox[2] > halfWorldSize) ? -worldSize : (polyBBox[2] - p[0] > halfWorldSize) ? worldSize : 0;\n }\n p[0] += shift;\n }\n updateBBox(bbox, p);\n}\n\nfunction resetBBox(bbox) {\n bbox[0] = bbox[1] = Infinity;\n bbox[2] = bbox[3] = -Infinity;\n}\n\nfunction getTilePoints(geometry, pointBBox, polyBBox, canonical) {\n const worldSize = Math.pow(2, canonical.z) * EXTENT;\n const shifts = [canonical.x * EXTENT, canonical.y * EXTENT];\n const tilePoints = [];\n for (const points of geometry) {\n for (const point of points) {\n const p = [point.x + shifts[0], point.y + shifts[1]];\n updatePoint(p, pointBBox, polyBBox, worldSize);\n tilePoints.push(p);\n }\n }\n return tilePoints;\n}\n\nfunction getTileLines(geometry, lineBBox, polyBBox, canonical) {\n const worldSize = Math.pow(2, canonical.z) * EXTENT;\n const shifts = [canonical.x * EXTENT, canonical.y * EXTENT];\n const tileLines = [];\n for (const line of geometry) {\n const tileLine = [];\n for (const point of line) {\n const p = [point.x + shifts[0], point.y + shifts[1]];\n updateBBox(lineBBox, p);\n tileLine.push(p);\n }\n tileLines.push(tileLine);\n }\n if (lineBBox[2] - lineBBox[0] <= worldSize / 2) {\n resetBBox(lineBBox);\n for (const line of tileLines) {\n for (const p of line) {\n updatePoint(p, lineBBox, polyBBox, worldSize);\n }\n }\n }\n return tileLines;\n}\n\nfunction pointsWithinPolygons(ctx: EvaluationContext, polygonGeometry: GeoJSONPolygons) {\n const pointBBox = [Infinity, Infinity, -Infinity, -Infinity];\n const polyBBox = [Infinity, Infinity, -Infinity, -Infinity];\n\n const canonical = ctx.canonicalID();\n\n if (polygonGeometry.type === 'Polygon') {\n const tilePolygon = getTilePolygon(polygonGeometry.coordinates, polyBBox, canonical);\n const tilePoints = getTilePoints(ctx.geometry(), pointBBox, polyBBox, canonical);\n if (!boxWithinBox(pointBBox, polyBBox)) return false;\n\n for (const point of tilePoints) {\n if (!pointWithinPolygon(point, tilePolygon)) return false;\n }\n }\n if (polygonGeometry.type === 'MultiPolygon') {\n const tilePolygons = getTilePolygons(polygonGeometry.coordinates, polyBBox, canonical);\n const tilePoints = getTilePoints(ctx.geometry(), pointBBox, polyBBox, canonical);\n if (!boxWithinBox(pointBBox, polyBBox)) return false;\n\n for (const point of tilePoints) {\n if (!pointWithinPolygons(point, tilePolygons)) return false;\n }\n }\n\n return true;\n}\n\nfunction linesWithinPolygons(ctx: EvaluationContext, polygonGeometry: GeoJSONPolygons) {\n const lineBBox = [Infinity, Infinity, -Infinity, -Infinity];\n const polyBBox = [Infinity, Infinity, -Infinity, -Infinity];\n\n const canonical = ctx.canonicalID();\n\n if (polygonGeometry.type === 'Polygon') {\n const tilePolygon = getTilePolygon(polygonGeometry.coordinates, polyBBox, canonical);\n const tileLines = getTileLines(ctx.geometry(), lineBBox, polyBBox, canonical);\n if (!boxWithinBox(lineBBox, polyBBox)) return false;\n\n for (const line of tileLines) {\n if (!lineStringWithinPolygon(line, tilePolygon)) return false;\n }\n }\n if (polygonGeometry.type === 'MultiPolygon') {\n const tilePolygons = getTilePolygons(polygonGeometry.coordinates, polyBBox, canonical);\n const tileLines = getTileLines(ctx.geometry(), lineBBox, polyBBox, canonical);\n if (!boxWithinBox(lineBBox, polyBBox)) return false;\n\n for (const line of tileLines) {\n if (!lineStringWithinPolygons(line, tilePolygons)) return false;\n }\n }\n return true;\n}\n\nclass Within implements Expression {\n type: Type;\n geojson: GeoJSON\n geometries: GeoJSONPolygons;\n\n constructor(geojson: GeoJSON, geometries: GeoJSONPolygons) {\n this.type = BooleanType;\n this.geojson = geojson;\n this.geometries = geometries;\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n if (args.length !== 2)\n return context.error(`'within' expression requires exactly one argument, but found ${args.length - 1} instead.`);\n if (isValue(args[1])) {\n const geojson = (args[1]: Object);\n if (geojson.type === 'FeatureCollection') {\n for (let i = 0; i < geojson.features.length; ++i) {\n const type = geojson.features[i].geometry.type;\n if (type

=== 'Polygon' || type === 'MultiPolygon') {\n return new Within(geojson, geojson.features[i].geometry);\n }\n }\n } else if (geojson.type === 'Feature') {\n const type = geojson.geometry.type;\n if (type === 'Polygon' || type === 'MultiPolygon') {\n return new Within(geojson, geojson.geometry);\n }\n } else if (geojson.type === 'Polygon' || geojson.type === 'MultiPolygon') {\n return new Within(geojson, geojson);\n }\n }\n return context.error(`'within' expression requires valid geojson object that contains polygon geometry type.`);\n }\n\n evaluate(ctx: EvaluationContext) {\n if (ctx.geometry() != null && ctx.canonicalID() != null) {\n if (ctx.geometryType() === 'Point') {\n return pointsWithinPolygons(ctx, this.geometries);\n } else if (ctx.geometryType() === 'LineString') {\n return linesWithinPolygons(ctx, this.geometries);\n }\n }\n return false;\n }\n\n eachChild() {}\n\n outputDefined(): boolean {\n return true;\n }\n\n serialize(): Array<mixed> {\n return [\"within\", this.geojson];\n }\n\n}\n\nexport default Within;\n","// @flow\n\nimport CompoundExpression from './compound_expression';\nimport Within from './definitions/within';\nimport type {Expression} from './expression.js';\n\nfunction isFeatureConstant(e: Expression) {\n if (e instanceof CompoundExpression) {\n if (e.name === 'get' && e.args.length === 1) {\n return false;\n } else if (e.name === 'feature-state') {\n return false;\n } else if (e.name === 'has' && e.args.length === 1) {\n return false;\n } else if (\n e.name === 'properties' ||\n e.name === 'geometry-type' ||\n e.name === 'id'\n) {\n return false;\n } else if (/^filter-/.test(e.name)) {\n return false;\n }\n }\n\n if (e instanceof Within) {\n return false;\n }\n\n let result = true;\n e.eachChild(arg => {\n if (result && !isFeatureConstant(arg)) { result = false; }\n });\n return result;\n}\n\nfunction isStateConstant(e: Expression) {\n if (e instanceof CompoundExpression) {\n if (e.name === 'feature-state') {\n return false;\n }\n }\n let result = true;\n e.eachChild(arg => {\n if (result && !isStateConstant(arg)) { result = false; }\n });\n return result;\n}\n\nfunction isGlobalPropertyConstant(e: Expression, properties: Array<string>) {\n if (e instanceof CompoundExpression && properties.indexOf(e.name) >= 0) { return false; }\n let result = true;\n e.eachChild((arg) => {\n if (result && !isGlobalPropertyConstant(arg, properties)) { result = false; }\n });\n return result;\n}\n\nexport {isFeatureConstant, isGlobalPropertyConstant, isStateConstant};\n","// @flow\n\nimport type {Type} from '../types';\nimport type {Expression} from '../expression';\nimport type ParsingContext from '../parsing_context';\nimport type EvaluationContext from '../evaluation_context';\n\nclass Var implements Expression {\n type: Type;\n name: string;\n boundExpression: Expression;\n\n constructor(name: string, boundExpression: Expression) {\n this.type = boundExpression.type;\n this.name = name;\n this.boundExpression = boundExpression;\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n if (args.length !== 2 || typeof args[1] !== 'string')\n return context.error(`'var' expression requires exactly one string literal argument.`);\n\n const name = args[1];\n if (!context.scope.has(name)) {\n return context.error(`Unknown variable \"${name}\". Make sure \"${name}\" has been bound in an enclosing \"let\" expression before using it.`, 1);\n }\n\n return new Var(name, context.scope.get(name));\n }\n\n evaluate(ctx: EvaluationContext) {\n return this.boundExpression.evaluate(ctx);\n }\n\n eachChild() {}\n\n outputDefined() {\n return false;\n }\n\n serialize() {\n return [\"var\", this.name];\n }\n}\n\nexport default Var;\n","// @flow\n\nimport Scope from './scope';\nimport {checkSubtype} from './types';\nimport ParsingError from './parsing_error';\nimport Literal from './definitions/literal';\nimport Assertion from './definitions/assertion';\nimport Coercion from './definitions/coercion';\nimport EvaluationContext from './evaluation_context';\nimport CompoundExpression from './compound_expression';\nimport CollatorExpression from './definitions/collator';\nimport Within from './definitions/within';\nimport {isGlobalPropertyConstant, isFeatureConstant} from './is_constant';\nimport Var from './definitions/var';\n\nimport type {Expression, ExpressionRegistry} from './expression';\nimport type {Type} from './types';\n\n/**\n * State associated parsing at a given point in an expression tree.\n * @private\n */\nclass ParsingContext {\n registry: ExpressionRegistry;\n path: Array<number>;\n key: string;\n scope: Scope;\n errors: Array<ParsingError>;\n\n // The expected type of this expression. Provided only to allow Expression\n // implementations to infer argument types: Expression#parse() need not\n // check that the output type of the parsed expression matches\n // `expectedType`.\n expectedType: ?Type;\n\n constructor(\n registry: ExpressionRegistry,\n path: Array<number> = [],\n expectedType: ?Type,\n scope: Scope = new Scope(),\n errors: Array<ParsingError> = []\n) {\n this.registry = registry;\n this.path = path;\n this.key = path.map(part => `[${part}]`).join('');\n this.scope = scope;\n this.errors = errors;\n this.expectedType = expectedType;\n }\n\n /**\n * @param expr the JSON expression to parse\n * @param index the optional argument index if this expression is an argument of a parent expression that's being parsed\n * @param options\n * @param options.omitTypeAnnotations set true to omit inferred type annotations. Caller beware: with this option set, the parsed expression's type will NOT satisfy `expectedType` if it would normally be wrapped in an inferred annotation.\n * @private\n */\n parse(\n expr: mixed,\n index?: number,\n expectedType?: ?Type,\n bindings?: Array<[string, Expression]>,\n options: {typeAnnotation?: 'assert' | 'coerce' | 'omit'} = {}\n): ?Expression {\n if (index) {\n return this.concat(index, expectedType, bindings)._parse(expr, options);\n }\n return this._parse(expr, options);\n }\n\n _parse(expr: mixed, options: {typeAnnotation?: 'assert' | 'coerce' | 'omit'}): ?Expression {\n if (expr === null || typeof expr === 'string' || typeof expr === 'boolean' || typeof expr === 'number') {\n expr = ['literal', expr];\n }\n\n function annotate(parsed, type, typeAnnotation: 'assert' | 'coerce' | 'omit') {\n if (typeAnnotation === 'assert') {\n return new Assertion(type, [parsed]);\n } else if (typeAnnotation === 'coerce') {\n return new Coercion(type, [parsed]);\n } else {\n return parsed;\n }\n }\n\n if (Array.isArray(expr)) {\n if (expr.length === 0) {\n return this.error(`Expected an array with at least one element. If you wanted a literal array, use [\"literal\", []].`);\n }\n\n const op = expr[0];\n if (typeof op !== 'string') {\n this.error(`Expression name must be a string, but found ${typeof op} instead. If you wanted a literal array, use [\"literal\", [...]].`, 0);\n return null;\n }\n\n const Expr = this.registry[op];\n if (Expr) {\n let parsed = Expr.parse(expr, this);\n if (!parsed) return null;\n\n if (this.expectedType) {\n const expected = this.expectedType;\n const actual = parsed.type;\n\n // When we expect a number, string, boolean, or array but have a value, wrap it in an assertion.\n // When we expect a color or formatted string, but have a string or value, wrap it in a coercion.\n // Otherwise, we do static type-checking.\n //\n // These behaviors are overridable for:\n // * The \"coalesce\" operator, which needs to omit type annotations.\n // * String-valued properties (e.g. `text-field`), where coercion is more convenient than assertion.\n //\n if ((expected.kind === 'string' || expected.kind === 'number' || expected.kind === 'boolean' || expected.kind === 'object' || expected.kind === 'array') && actual.kind === 'value') {\n parsed = annotate(parsed, expected, options.typeAnnotation || 'assert');\n } else if ((expected.kind === 'color' || expected.kind === 'formatted' || expected.kind === 'resolvedImage') && (actual.kind === 'value' || actual.kind === 'string')) {\n parsed = annotate(parsed, expected, options.typeAnnotation || 'coerce');\n } else if (this.checkSubtype(expected, actual)) {\n return null;\n }\n }\n\n // If an expression's arguments are all literals, we can evaluate\n // it immediately and replace it with a literal value in the\n // parsed/compiled result. Expressions that expect an image should\n // not be resolved here so we can later get the available images.\n if (!(parsed instanceof Literal) && (parsed.type.kind !== 'resolvedImage') && isConstant(parsed)) {\n const ec = new EvaluationContext();\n try {\n parsed = new Literal(parsed.type, parsed.evaluate(ec));\n } catch (e) {\n this.error(e.message);\n return null;\n }\n }\n\n return parsed;\n }\n\n return this.error(`Unknown expression \"${op}\". If you wanted a literal array, use [\"literal\", [...]].`, 0);\n } else if (typeof expr === 'undefined') {\n return this.error(`'undefined' value invalid. Use null instead.`);\n } else if (typeof expr === 'object') {\n return this.error(`Bare objects invalid. Use [\"literal\", {...}] instead.`);\n } else {\n return this.error(`Expected an array, but found ${typeof expr} instead.`);\n }\n }\n\n /**\n * Returns a copy of this context suitable for parsing the subexpression at\n * index `index`, optionally appending to 'let' binding map.\n *\n * Note that `errors` property, intended for collecting errors while\n * parsing, is copied by reference rather than cloned.\n * @private\n */\n concat(index: number, expectedType?: ?Type, bindings?: Array<[string, Expression]>) {\n const path = typeof index === 'number' ?

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this.path.concat(index) : this.path;\n        const scope = bindings ? this.scope.concat(bindings) : this.scope;\n
return new ParsingContext(\n            this.registry,\n            path,\n            expectedType || null,\n            scope,\n
  this.errors\n        );\n    }\n\n    /**\n     * Push a parsing (or type checking) error into the `this.errors`\n     *
@param error The message\n     * @param keys Optionally specify the source of the error at a child\n     * of the
current expression at `this.key`.\n     * @private\n     */\n    error(error: string, ...keys: Array<number>) {\n        const
key = `${this.key}${keys.map(k => `[${k}]`).join('')}`;\n        this.errors.push(new ParsingError(key, error));\n
}\n\n    /**\n     * Returns null if `t` is a subtype of `expected`; otherwise returns an\n     * error message and also
pushes it to `this.errors`.\n     */\n    checkSubtype(expected: Type, t: Type): ?string {\n        const error =
checkSubtype(expected, t);\n        if (error) this.error(error);\n        return error;\n    }\n}\n\nexport default
ParsingContext;\n\nfunction isConstant(expression: Expression) {\n    if (expression instanceof Var) {\n        return
isConstant(expression.boundExpression);\n    } else if (expression instanceof CompoundExpression &&
expression.name === 'error') {\n        return false;\n    } else if (expression instanceof CollatorExpression) {\n        //
Although the results of a Collator expression with fixed arguments\n        // generally shouldn't change between
executions, we can't serialize them\n        // as constant expressions because results change based on environment.\n
    return false;\n    } else if (expression instanceof Within) {\n        return false;\n    }\n\n    const isTypeAnnotation
= expression instanceof Coercion ||\n        expression instanceof Assertion;\n\n    let childrenConstant = true;\n
expression.eachChild(child => {\n        // We can _almost_ assume that if `expressions` children are constant,\n
// they would already have been evaluated to Literal values when they\n        // were parsed.  Type annotations are
the exception, because they might\n        // have been inferred and added after a child was parsed.\n\n        // So we
recurse into isConstant() for the children of type annotations,\n        // but otherwise simply check whether they are
Literals.\n        if (isTypeAnnotation) {\n            childrenConstant = childrenConstant && isConstant(child);\n        }
else {\n            childrenConstant = childrenConstant && child instanceof Literal;\n        }\n    });\n    if
(!childrenConstant) {\n        return false;\n    }\n\n    return isFeatureConstant(expression) &&\n
isGlobalPropertyConstant(expression, ['zoom', 'heatmap-density', 'line-progress', 'accumulated', 'is-supported-
script']);\n}\n","// @flow\n\nimport RuntimeError from './runtime_error';\n\nimport type {Expression} from
'./expression';\n\nexport type Stops = Array<[number, Expression]>;\n\n/**\n * Returns the index of the last stop <=
input, or 0 if it doesn't exist.\n * @private\n */\nexport function findStopLessThanOrEqualTo(stops:
Array<number>, input: number) {\n    const lastIndex = stops.length - 1;\n    let lowerIndex = 0;\n    let upperIndex
= lastIndex;\n    let currentIndex = 0;\n    let currentValue, nextValue;\n\n    while (lowerIndex <= upperIndex) {\n
   currentIndex = Math.floor((lowerIndex + upperIndex) / 2);\n        currentValue = stops[currentIndex];\n
nextValue = stops[currentIndex + 1];\n\n        if (currentValue <= input) {\n            if (currentIndex === lastIndex ||
input < nextValue) { // Search complete\n                return currentIndex;\n            }\n\n            lowerIndex =
currentIndex + 1;\n        } else if (currentValue > input) {\n            upperIndex = currentIndex - 1;\n        } else {\n
     throw new RuntimeError('Input is not a number.');\n        }\n    }\n\n    return 0;\n}\n","// @flow\n\nimport
{NumberType} from '../types';\n\nimport {findStopLessThanOrEqualTo} from '../stops';\n\nimport type {Stops}
from '../stops';\nimport type {Expression} from '../expression';\nimport type ParsingContext from
'../parsing_context';\nimport type EvaluationContext from '../evaluation_context';\nimport type {Type} from
'../types';\n\nclass Step implements Expression {\n    type: Type;\n\n    input: Expression;\n    labels:
Array<number>;\n    outputs: Array<Expression>;\n\n    constructor(type: Type, input: Expression, stops: Stops) {\n
      this.type = type;\n        this.input = input;\n\n        this.labels = [];\n        this.outputs = [];\n        for (const [label,
expression] of stops) {\n            this.labels.push(label);\n            this.outputs.push(expression);\n        }\n    }\n\n
static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n        if (args.length - 1 < 4) {\n
return context.error(`Expected at least 4 arguments, but found only ${args.length - 1}.`);\n        }\n\n        if
((args.length - 1) % 2 !== 0) {\n            return context.error(`Expected an even number of arguments.`);\n        }\n\n
    const input = context.parse(args[1], 1, NumberType);\n        if (!input) return null;\n\n        const stops: Stops =
[];\n\n        let outputType: Type = (null: any);\n        if (context.expectedType && context.expectedType.kind !==
'value') {\n            outputType = context.expectedType;\n        }\n\n        for (let i = 1; i < args.length; i += 2) {\n
   const label = i === 1 ? -Infinity : args[i];\n            const value = args[i + 1];\n\n            const labelKey = i;\n
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const valueKey = i + 1;\n\n   if (typeof label !== 'number') {\n   return context.error('Input/output pairs for \"step\" expressions must be defined using literal numeric values (not computed expressions) for the input values.', labelKey);\n   }\n\n   if (stops.length && stops[stops.length - 1][0] >= label) {\n   return context.error('Input/output pairs for \"step\" expressions must be arranged with input values in strictly ascending order.', labelKey);\n   }\n\n   const parsed = context.parse(value, valueKey, outputType);\n   if (!parsed) return null;\n   outputType = outputType || parsed.type;\n   stops.push([label, parsed]);\n   }\n\n   return new Step(outputType, input, stops);\n   }\n\n   evaluate(ctx: EvaluationContext) {\n   const labels = this.labels;\n   const outputs = this.outputs;\n\n   if (labels.length === 1) {\n   return outputs[0].evaluate(ctx);\n   }\n\n   const value = ((this.input.evaluate(ctx): any): number);\n   if (value <= labels[0]) {\n   return outputs[0].evaluate(ctx);\n   }\n\n   const stopCount = labels.length;\n   if (value >= labels[stopCount - 1]) {\n   return outputs[stopCount - 1].evaluate(ctx);\n   }\n\n   const index = findStopLessThanOrEqualTo(labels, value);\n   return outputs[index].evaluate(ctx);\n   }\n\n   eachChild(fn: (_: Expression) => void) {\n   fn(this.input);\n   for (const expression of this.outputs) {\n   fn(expression);\n   }\n   }\n\n   outputDefined(): boolean {\n   return this.outputs.every(out => out.outputDefined());\n   }\n\n   serialize() {\n   const serialized = [\"step\", this.input.serialize()];\n   for (let i = 0; i < this.labels.length; i++) {\n   if (i > 0) {\n   serialized.push(this.labels[i]);\n   }\n   serialized.push(this.outputs[i].serialize());\n   }\n   return serialized;\n   }\n}\n\nexport default Step;\n","/*\n * Copyright (C) 2008 Apple Inc. All Rights Reserved.\n *\n * Redistribution and use in source and binary forms, with or without\n * modification, are permitted provided that the following conditions\n * are met:\n * 1. Redistributions of source code must retain the above copyright\n *   notice, this list of conditions and the following disclaimer.\n * 2. Redistributions in binary form must reproduce the above copyright\n *   notice, this list of conditions and the following disclaimer in the\n *   documentation and/or other materials provided with the distribution.\n *\n * THIS SOFTWARE IS PROVIDED BY APPLE INC. ``AS IS'' AND ANY\n * EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE\n * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR\n * PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL APPLE INC. OR\n * CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,\n * EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,\n * PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR\n * PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY\n * OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT\n * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE\n * OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.\n *\n * Ported from Webkit\n * http://svn.webkit.org/repository/webkit/trunk/Source/WebCore/platform/graphics/UnitBezier.h\n */\n\nmodule.exports = UnitBezier;\n\nfunction UnitBezier(p1x, p1y, p2x, p2y) {\n   // Calculate the polynomial coefficients, implicit first and last control points are (0,0) and (1,1).\n   this.cx = 3.0 * p1x;\n   this.bx = 3.0 * (p2x - p1x) - this.cx;\n   this.ax = 1.0 - this.cx - this.bx;\n\n   this.cy = 3.0 * p1y;\n   this.by = 3.0 * (p2y - p1y) - this.cy;\n   this.ay = 1.0 - this.cy - this.by;\n\n   this.p1x = p1x;\n   this.p1y = p2y;\n   this.p2x = p2x;\n   this.p2y = p2y;\n}\n\nUnitBezier.prototype.sampleCurveX = function(t) {\n   // `ax t^3 + bx t^2 + cx t' expanded using Horner's rule.\n   return ((this.ax * t + this.bx) * t + this.cx) * t;\n};\n\nUnitBezier.prototype.sampleCurveY = function(t) {\n   return ((this.ay * t + this.by) * t + this.cy) * t;\n};\n\nUnitBezier.prototype.sampleCurveDerivativeX = function(t) {\n   return (3.0 * this.ax * t + 2.0 * this.bx) * t + this.cx;\n};\n\nUnitBezier.prototype.solveCurveX = function(x, epsilon) {\n   if (typeof epsilon === 'undefined') epsilon = 1e-6;\n\n   var t0, t1, t2, x2, i;\n\n   // First try a few iterations of Newton's method -- normally very fast.\n   for (t2 = x, i = 0; i < 8; i++) {\n\n   x2 = this.sampleCurveX(t2) - x;\n   if (Math.abs(x2) < epsilon) return t2;\n\n   var d2 = this.sampleCurveDerivativeX(t2);\n   if (Math.abs(d2) < 1e-6) break;\n\n   t2 = t2 - x2 / d2;\n   }\n\n   // Fall back to the bisection method for reliability.\n   t0 = 0.0;\n   t1 = 1.0;\n   t2 = x;\n\n   if (t2 < t0) return t0;\n   if (t2 > t1) return t1;\n\n   while (t0 < t1) {\n\n   x2 = this.sampleCurveX(t2);\n   if (Math.abs(x2 - x) < epsilon) return t2;\n\n   if (x > x2) {\n   t0 = t2;\n   } else {\n   t1 = t2;\n

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}\n\n        t2 = (t1 - t0) * 0.5 + t0;\n    }\n\n    // Failure.\n    return t2;\n};\n\nUnitBezier.prototype.solve =
function(x, epsilon) {\n    return this.sampleCurveY(this.solveCurveX(x, epsilon));\n};\n","// @flow\n\nimport
Color from './color';\n\nexport function number(a: number, b: number, t: number) {\n    return (a * (1 - t)) + (b *
t);\n}\n\nexport function color(from: Color, to: Color, t: number) {\n    return new Color(\n        number(from.r, to.r,
t),\n        number(from.g, to.g, t),\n        number(from.b, to.b, t),\n        number(from.a, to.a, t)\n    );\n}\n\nexport
function array(from: Array<number>, to: Array<number>, t: number): Array<number> {\n    return from.map((d, i)
=> {\n        return number(d, to[i], t);\n    });\n}\n","// @flow\n\nimport Color from './color';\n\nimport {number as
interpolateNumber} from './interpolate';\n\ntype LABColor = {\n    l: number,\n    a: number,\n    b: number,\n
alpha: number\n};\n\ntype HCLColor = {\n    h: number,\n    c: number,\n    l: number,\n    alpha: number\n};\n\n//
Constants\nconst Xn = 0.950470, // D65 standard referent\n    Yn = 1,\n    Zn = 1.088830,\n    t0 = 4 / 29,\n    t1 = 6 /
29,\n    t2 = 3 * t1 * t1,\n    t3 = t1 * t1 * t1,\n    deg2rad = Math.PI / 180,\n    rad2deg = 180 / Math.PI;\n\n//
Utilities\nfunction xyz2lab(t: number) {\n    return t > t3 ? Math.pow(t, 1 / 3) : t / t2 + t0;\n}\n\nfunction lab2xyz(t:
number) {\n    return t > t1 ? t * t * t : t2 * (t - t0);\n}\n\nfunction xyz2rgb(x: number) {\n    return 255 * (x <=
0.0031308 ? 12.92 * x : 1.055 * Math.pow(x, 1 / 2.4) - 0.055);\n}\n\nfunction rgb2xyz(x: number) {\n    x /= 255;\n
return x <= 0.04045 ? x / 12.92 : Math.pow((x + 0.055) / 1.055, 2.4);\n}\n\n// LAB\nfunction rgbToLab(rgbColor:
Color): LABColor {\n    const b = rgb2xyz(rgbColor.r),\n        a = rgb2xyz(rgbColor.g),\n        l =
rgb2xyz(rgbColor.b),\n        x = xyz2lab((0.4124564 * b + 0.3575761 * a + 0.1804375 * l) / Xn),\n        y =
xyz2lab((0.2126729 * b + 0.7151522 * a + 0.0721750 * l) / Yn),\n        z = xyz2lab((0.0193339 * b + 0.1191920 * a
+ 0.9503041 * l) / Zn);\n\n    return {\n        l: 116 * y - 16,\n        a: 500 * (x - y),\n        b: 200 * (y - z),\n        alpha:
rgbColor.a\n    };\n}\n\nfunction labToRgb(labColor: LABColor): Color {\n    let y = (labColor.l + 16) / 116,\n
x = isNaN(labColor.a) ? y : y + labColor.a / 500,\n        z = isNaN(labColor.b) ? y : y - labColor.b / 200;\n    y = Yn
* lab2xyz(y);\n    x = Xn * lab2xyz(x);\n    z = Zn * lab2xyz(z);\n    return new Color(\n        xyz2rgb(3.2404542 * x
- 1.5371385 * y - 0.4985314 * z), // D65 -> sRGB\n        xyz2rgb(-0.9692660 * x + 1.8760108 * y + 0.0415560 *
z),\n        xyz2rgb(0.0556434 * x - 0.2040259 * y + 1.0572252 * z),\n        labColor.alpha\n    );\n}\n\nfunction
interpolateLab(from: LABColor, to: LABColor, t: number) {\n    return {\n        l: interpolateNumber(from.l, to.l,
t),\n        a: interpolateNumber(from.a, to.a, t),\n        b: interpolateNumber(from.b, to.b, t),\n        alpha:
interpolateNumber(from.alpha, to.alpha, t)\n    };\n}\n\n// HCL\nfunction rgbToHcl(rgbColor: Color): HCLColor
{\n    const {l, a, b} = rgbToLab(rgbColor);\n    const h = Math.atan2(b, a) * rad2deg;\n    return {\n        h: h < 0 ? h
+ 360 : h,\n        c: Math.sqrt(a * a + b * b),\n        l,\n        alpha: rgbColor.a\n    };\n}\n\nfunction
hclToRgb(hclColor: HCLColor): Color {\n    const h = hclColor.h * deg2rad,\n        c = hclColor.c,\n        l =
hclColor.l;\n    return labToRgb({\n        l,\n        a: Math.cos(h) * c,\n        b: Math.sin(h) * c,\n        alpha:
hclColor.alpha\n    });\n}\n\nfunction interpolateHue(a: number, b: number, t: number) {\n    const d = b - a;\n
return a + t * (d > 180 || d < -180 ? d - 360 * Math.round(d / 360) : d);\n}\n\nfunction interpolateHcl(from:
HCLColor, to: HCLColor, t: number) {\n    return {\n        h: interpolateHue(from.h, to.h, t),\n        c:
interpolateNumber(from.c, to.c, t),\n        l: interpolateNumber(from.l, to.l, t),\n        alpha:
interpolateNumber(from.alpha, to.alpha, t)\n    };\n}\n\nexport const lab = {\n    forward: rgbToLab,\n    reverse:
labToRgb,\n    interpolate: interpolateLab\n};\n\nexport const hcl = {\n    forward: rgbToHcl,\n    reverse:
hclToRgb,\n    interpolate: interpolateHcl\n};\n","// @flow\n\nimport UnitBezier from
'@mapbox/unitbezier';\n\nimport * as interpolate from '../../util/interpolate';\nimport {toString, NumberType,
ColorType} from '../types';\nimport {findStopLessThanOrEqualTo} from '../stops';\nimport {hcl, lab} from
'../../util/color_spaces';\n\nimport type {Stops} from '../stops';\nimport type {Expression} from
'../expression';\nimport type ParsingContext from '../parsing_context';\nimport type EvaluationContext from
'../evaluation_context';\nimport type {Type} from '../types';\n\nexport type InterpolationType =\n    { name: 'linear' }
|\n    { name: 'exponential', base: number } |\n    { name: 'cubic-bezier', controlPoints: [number, number, number,
number] };\n\nclass Interpolate implements Expression {\n    type: Type;\n\n    operator: 'interpolate' | 'interpolate-
hcl' | 'interpolate-lab';\n    interpolation: InterpolationType;\n    input: Expression;\n    labels: Array<number>;\n
outputs: Array<Expression>;\n\n    constructor(type: Type, operator: 'interpolate' | 'interpolate-hcl' | 'interpolate-lab',
interpolation: InterpolationType, input: Expression, stops: Stops) {\n        this.type = type;\n        this.operator =
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operator;\n   this.interpolation = interpolation;\n   this.input = input;\n\n   this.labels = [];\n   this.outputs = [];\n   for (const [label, expression] of stops) {\n   this.labels.push(label);\n   this.outputs.push(expression);\n   }\n   }\n\n   static interpolationFactor(interpolation: InterpolationType, input: number, lower: number, upper: number) {\n   let t = 0;\n   if (interpolation.name === 'exponential') {\n   t = exponentialInterpolation(input, interpolation.base, lower, upper);\n   } else if (interpolation.name === 'linear') {\n   t = exponentialInterpolation(input, 1, lower, upper);\n   } else if (interpolation.name === 'cubic-bezier') {\n   const c = interpolation.controlPoints;\n   const ub = new UnitBezier(c[0], c[1], c[2], c[3]);\n   t = ub.solve(exponentialInterpolation(input, 1, lower, upper));\n   }\n   return t;\n   }\n\n   static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n   let [operator, interpolation, input, ...rest] = args;\n\n   if (!Array.isArray(interpolation) || interpolation.length === 0) {\n   return context.error(`Expected an interpolation type expression.`, 1);\n   }\n\n   if (interpolation[0] === 'linear') {\n   interpolation = {name: 'linear'};\n   } else if (interpolation[0] === 'exponential') {\n   const base = interpolation[1];\n   if (typeof base !== 'number')\n   return context.error(`Exponential interpolation requires a numeric base.`, 1, 1);\n   interpolation = {\n   name: 'exponential',\n   base\n   };\n   } else if (interpolation[0] === 'cubic-bezier') {\n   const controlPoints = interpolation.slice(1);\n   if (\n   controlPoints.length !== 4 ||\n   controlPoints.some(t => typeof t !== 'number' || t < 0 || t > 1)\n   ) {\n   return context.error('Cubic bezier interpolation requires four numeric arguments with values between 0 and 1.', 1);\n   }\n\n   interpolation = {\n   name: 'cubic-bezier',\n   controlPoints: (controlPoints: any)\n   };\n   } else {\n   return context.error(`Unknown interpolation type ${String(interpolation[0])}`, 1, 0);\n   }\n\n   if (args.length - 1 < 4) {\n   return context.error(`Expected at least 4 arguments, but found only ${args.length - 1}.`);\n   }\n\n   if ((args.length - 1) % 2 !== 0) {\n   return context.error(`Expected an even number of arguments.`);\n   }\n\n   input = context.parse(input, 2, NumberType);\n   if (!input) return null;\n\n   const stops: Stops = [];\n\n   let outputType: Type = (null: any);\n   if (operator === 'interpolate-hcl' || operator === 'interpolate-lab') {\n   outputType = ColorType;\n   } else if (context.expectedType && context.expectedType.kind !== 'value') {\n   outputType = context.expectedType;\n   }\n\n   for (let i = 0; i < rest.length; i += 2) {\n   const label = rest[i];\n   const value = rest[i + 1];\n\n   const labelKey = i + 3;\n   const valueKey = i + 4;\n\n   if (typeof label !== 'number') {\n   return context.error('Input/output pairs for \"interpolate\" expressions must be defined using literal numeric values (not computed expressions) for the input values.', labelKey);\n   }\n\n   if (stops.length && stops[stops.length - 1][0] >= label) {\n   return context.error('Input/output pairs for \"interpolate\" expressions must be arranged with input values in strictly ascending order.', labelKey);\n   }\n\n   const parsed = context.parse(value, valueKey, outputType);\n   if (!parsed) return null;\n   outputType = outputType || parsed.type;\n   stops.push([label, parsed]);\n   }\n\n   if (outputType.kind !== 'number' &&\n   outputType.kind !== 'color' &&\n   !(\n   outputType.kind === 'array' &&\n   outputType.itemType.kind === 'number' &&\n   typeof outputType.N === 'number'\n   )\n   ) {\n   return context.error(`Type ${toString(outputType)} is not interpolatable.`);\n   }\n\n   return new Interpolate(outputType, (operator: any), interpolation, input, stops);\n   }\n\n   evaluate(ctx: EvaluationContext) {\n   const labels = this.labels;\n   const outputs = this.outputs;\n\n   if (labels.length === 1) {\n   return outputs[0].evaluate(ctx);\n   }\n\n   const value = ((this.input.evaluate(ctx): any): number);\n   if (value <= labels[0]) {\n   return outputs[0].evaluate(ctx);\n   }\n\n   const stopCount = labels.length;\n   if (value >= labels[stopCount - 1]) {\n   return outputs[stopCount - 1].evaluate(ctx);\n   }\n\n   const index = findStopLessThanOrEqualTo(labels, value);\n   const lower = labels[index];\n   const upper = labels[index + 1];\n   const t = Interpolate.interpolationFactor(this.interpolation, value, lower, upper);\n\n   const outputLower = outputs[index].evaluate(ctx);\n   const outputUpper = outputs[index + 1].evaluate(ctx);\n\n   if (this.operator === 'interpolate') {\n   return (interpolate[this.type.kind.toLowerCase()]: any)(outputLower, outputUpper, t); // eslint-disable-line import/namespace\n   } else if (this.operator === 'interpolate-hcl') {\n   return hcl.reverse(hcl.interpolate(hcl.forward(outputLower), hcl.forward(outputUpper), t));\n   } else {\n   return lab.reverse(lab.interpolate(lab.forward(outputLower), lab.forward(outputUpper), t));\n   }\n   }\n\n

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eachChild(fn: (_: Expression) => void) {\n        fn(this.input);\n        for (const expression of this.outputs) {\n
fn(expression);\n        }\n    }\n\n    outputDefined(): boolean {\n        return this.outputs.every(out =>
out.outputDefined());\n    }\n\n    serialize(): Array<mixed> {\n        let interpolation;\n        if
(this.interpolation.name === 'linear') {\n            interpolation = [\"linear\"];\n        } else if (this.interpolation.name
=== 'exponential') {\n            if  (this.interpolation.base === 1) {\n                interpolation = [\"linear\"];\n            }
else {\n                interpolation = [\"exponential\", this.interpolation.base];\n            }\n        } else {\n
interpolation = [\"cubic-bezier\" ].concat(this.interpolation.controlPoints);\n        }\n\n        const serialized =
[this.operator, interpolation, this.input.serialize()];\n\n        for (let i = 0; i < this.labels.length; i++) {\n
serialized.push(\n                this.labels[i],\n                this.outputs[i].serialize()\n            );\n        }\n        return
serialized;\n    }\n}\n\n/**\n * Returns a ratio that can be used to interpolate between exponential function\n *
stops.\n * How it works: Two consecutive stop values define a (scaled and shifted) exponential function `f(x) = a *
base^x + b`, where `base` is the user-specified base,\n * and `a` and `b` are constants affording sufficient degrees of
freedom to fit\n * the function to the given stops.\n *\n * Here's a bit of algebra that lets us compute `f(x)` directly
from the stop\n * values without explicitly solving for `a` and `b`:\n *\n * First stop value: `f(x0) = y0 = a * base^x0
+ b`\n * Second stop value: `f(x1) = y1 = a * base^x1 + b`\n * => `y1 - y0 = a(base^x1 - base^x0)`\n * => `a = (y1 -
y0)/(base^x1 - base^x0)`\n *\n * Desired value: `f(x) = y = a * base^x + b`\n * => `f(x) = y0 + a * (base^x -
base^x0)`\n *\n * From the above, we can replace the `a` in `a * (base^x - base^x0)` and do a\n * little algebra:\n *
```\n * a * (base^x - base^x0) = (y1 - y0)/(base^x1 - base^x0) * (base^x - base^x0)\n *                     = (y1 - y0) *
(base^x - base^x0) / (base^x1 - base^x0)\n * ```\n *\n * If we let `(base^x - base^x0) / (base^x1 base^x0)`, then we
have\n * `f(x) = y0 + (y1 - y0) * ratio`.  In other words, `ratio` may be treated as\n * an interpolation factor between
the two stops' output values.\n *\n * (Note: a slightly different form for `ratio`,\n * `(base^(x-x0) - 1) / (base^(x1-x0)
- 1) `, is equivalent, but requires fewer\n * expensive `Math.pow()` operations.)\n *\n * @private\n*/\nfunction
exponentialInterpolation(input, base, lowerValue, upperValue) {\n    const difference = upperValue - lowerValue;\n
 const progress = input - lowerValue;\n\n    if (difference === 0) {\n        return 0;\n    } else if (base === 1) {\n
return progress / difference;\n    } else {\n        return (Math.pow(base, progress) - 1) / (Math.pow(base, difference) -
1);\n    }\n}\n\nexport default Interpolate;\n","// @flow\n\nimport assert from 'assert';\n\nimport {checkSubtype,
ValueType} from '../types';\nimport ResolvedImage from '../types/resolved_image';\n\nimport type {Expression}
from '../expression';\nimport type ParsingContext from '../parsing_context';\nimport type EvaluationContext from
'../evaluation_context';\nimport type {Type} from '../types';\n\nclass Coalesce implements Expression {\n    type:
Type;\n    args: Array<Expression>;\n\n    constructor(type: Type, args: Array<Expression>) {\n        this.type =
type;\n        this.args = args;\n    }\n\n    static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n
 if (args.length < 2) {\n            return context.error(\"Expectected at least one argument.\");\n        }\n        let
outputType: Type = (null: any);\n        const expectedType = context.expectedType;\n        if (expectedType &&
expectedType.kind !== 'value') {\n            outputType = expectedType;\n        }\n        const parsedArgs = [];\n\n
for (const arg of args.slice(1)) {\n            const parsed = context.parse(arg, 1 + parsedArgs.length, outputType,
undefined, {typeAnnotation: 'omit'});\n            if (!parsed) return null;\n            outputType = outputType ||
parsed.type;\n            parsedArgs.push(parsed);\n        }\n        assert(outputType);\n\n        // Above, we parse
arguments without inferred type annotation so that\n        // they don't produce a runtime error for `null` input, which
would\n        // preempt the desired null-coalescing behavior.\n        // Thus, if any of our arguments would have
needed an annotation, we\n        // need to wrap the enclosing coalesce expression with it instead.\n        const
needsAnnotation = expectedType &&\n            parsedArgs.some(arg => checkSubtype(expectedType,
arg.type));\n\n        return needsAnnotation ?\n            new Coalesce(ValueType, parsedArgs) :\n            new
Coalesce((outputType: any), parsedArgs);\n    }\n\n    evaluate(ctx: EvaluationContext) {\n        let result = null;\n
  let argCount = 0;\n        let requestedImageName;\n        for (const arg of this.args) {\n            argCount++;\n
result = arg.evaluate(ctx);\n            // we need to keep track of the first requested image in a coalesce statement\n
   // if coalesce can't find a valid image, we return the first image name so styleimagemissing can fire\n            if
(result && result instanceof ResolvedImage && !result.available) {\n                if (!requestedImageName) {\n
       requestedImageName = result.name;\n                }\n                result = null;\n                if (argCount ===
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this.args.length) {\n                    result = requestedImageName;\n                }\n            }\n\n            if (result !== null)
break;\n        }\n        return result;\n    }\n\n    eachChild(fn: (_: Expression) => void) {\n
this.args.forEach(fn);\n    }\n\n    outputDefined(): boolean {\n        return this.args.every(arg =>
arg.outputDefined());\n    }\n\n    serialize() {\n        const serialized = [\"coalesce\"];\n        this.eachChild(child =>
{ serialized.push(child.serialize()); });\n        return serialized;\n    }\n}\n\nexport default Coalesce;\n","//
@flow\n\nimport type {Type} from '../types';\nimport type {Expression} from '../expression';\nimport type
ParsingContext from '../parsing_context';\nimport type EvaluationContext  from '../evaluation_context';\n\nclass Let
implements Expression {\n    type: Type;\n    bindings: Array<[string, Expression]>;\n    result: Expression;\n\n
constructor(bindings: Array<[string, Expression]>, result: Expression) {\n        this.type = result.type;\n
this.bindings = [].concat(bindings);\n        this.result = result;\n    }\n\n    evaluate(ctx: EvaluationContext) {\n
return this.result.evaluate(ctx);\n    }\n\n    eachChild(fn: (_: Expression) => void) {\n        for (const binding of
this.bindings) {\n            fn(binding[1]);\n        }\n        fn(this.result);\n    }\n\n    static parse(args:
$ReadOnlyArray<mixed>, context: ParsingContext) {\n        if (args.length < 4)\n            return
context.error(`Expected at least 3 arguments, but found ${args.length - 1} instead.`);\n\n        const bindings:
Array<[string, Expression]> = [];\n        for (let i = 1; i < args.length - 1; i += 2) {\n            const name = args[i];\n\n
        if (typeof name !== 'string') {\n                return context.error(`Expected string, but found ${typeof name}
instead.`, i);\n            }\n\n            if (/[^a-zA-Z0-9_]/.test(name)) {\n                return context.error(`Variable names
must contain only alphanumeric characters or '_'.`, i);\n            }\n\n            const value = context.parse(args[i + 1], i
+ 1);\n            if (!value) return null;\n\n            bindings.push([name, value]);\n        }\n\n        const result =
context.parse(args[args.length - 1], args.length - 1, context.expectedType, bindings);\n        if (!result) return
null;\n\n        return new Let(bindings, result);\n    }\n\n    outputDefined() {\n        return
this.result.outputDefined();\n    }\n\n    serialize() {\n        const serialized = [\"let\"];\n        for (const [name, expr]
of this.bindings) {\n            serialized.push(name, expr.serialize());\n        }\n
serialized.push(this.result.serialize());\n        return serialized;\n    }\n}\n\nexport default Let;\n","// @flow\n\nimport
{array, ValueType, NumberType} from '../types';\n\nimport RuntimeError from '../runtime_error';\n\nimport type
{Expression} from '../expression';\nimport type ParsingContext from '../parsing_context';\nimport type
EvaluationContext from '../evaluation_context';\nimport type {Type, ArrayType} from '../types';\nimport type
{Value} from '../values';\n\nclass At implements Expression {\n    type: Type;\n    index: Expression;\n    input:
Expression;\n\n    constructor(type: Type, index: Expression, input: Expression) {\n        this.type = type;\n
this.index = index;\n        this.input = input;\n    }\n\n    static parse(args: $ReadOnlyArray<mixed>, context:
ParsingContext) {\n        if (args.length !== 3)\n            return context.error(`Expected 2 arguments, but found
${args.length - 1} instead.`);\n\n        const index = context.parse(args[1], 1, NumberType);\n        const input =
context.parse(args[2], 2, array(context.expectedType || ValueType));\n\n        if (!index || !input) return null;\n\n
const t: ArrayType = (input.type: any);\n        return new At(t.itemType, index, input);\n    }\n\n    evaluate(ctx:
EvaluationContext) {\n        const index = ((this.index.evaluate(ctx): any): number);\n        const array =
((this.input.evaluate(ctx): any): Array<Value>);\n\n        if (index < 0) {\n            throw new RuntimeError(`Array
index out of bounds: ${index} < 0.`);\n        }\n\n        if (index >= array.length) {\n            throw new
RuntimeError(`Array index out of bounds: ${index} > ${array.length - 1}.`);\n        }\n\n        if (index !==
Math.floor(index)) {\n            throw new RuntimeError(`Array index must be an integer, but found ${index}
instead.`);\n        }\n\n        return array[index];\n    }\n\n    eachChild(fn: (_: Expression) => void) {\n
fn(this.index);\n        fn(this.input);\n    }\n\n    outputDefined() {\n        return false;\n    }\n\n    serialize() {\n
return [\"at\", this.index.serialize(), this.input.serialize()];\n    }\n}\n\nexport default At;\n","// @flow\n\nimport
{BooleanType, StringType, ValueType, NullType, toString, NumberType, isValidType, isValidNativeType} from
'../types';\nimport RuntimeError from '../runtime_error';\nimport {typeOf} from '../values';\n\nimport type
{Expression} from '../expression';\nimport type ParsingContext from '../parsing_context';\nimport type
EvaluationContext from '../evaluation_context';\nimport type {Type} from '../types';\n\nclass In implements
Expression {\n    type: Type;\n    needle: Expression;\n    haystack: Expression;\n\n    constructor(needle:
Expression, haystack: Expression) {\n        this.type = BooleanType;\n        this.needle = needle;\n        this.haystack
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= haystack;\n    }\n\n    static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n        if (args.length
!== 3) {\n            return context.error(`Expected 2 arguments, but found ${args.length - 1} instead.`);\n        }\n\n
const needle = context.parse(args[1], 1, ValueType);\n\n        const haystack = context.parse(args[2], 2,
ValueType);\n\n        if (!needle || !haystack) return null;\n\n        if (!isValidType(needle.type, [BooleanType,
StringType, NumberType, NullType, ValueType])) {\n            return context.error(`Expected first argument to be of
type boolean, string, number or null, but found ${toString(needle.type)} instead`);\n        }\n\n        return new
In(needle, haystack);\n    }\n\n    evaluate(ctx: EvaluationContext) {\n        const needle = (this.needle.evaluate(ctx):
any);\n        const haystack = (this.haystack.evaluate(ctx): any);\n\n        if (!haystack) return false;\n\n        if
(!isValidNativeType(needle, ['boolean', 'string', 'number', 'null'])) {\n            throw new RuntimeError(`Expected
first argument to be of type boolean, string, number or null, but found ${toString(typeOf(needle))} instead.`);\n
}\n\n        if (!isValidNativeType(haystack, ['string', 'array'])) {\n            throw new RuntimeError(`Expected second
argument to be of type array or string, but found ${toString(typeOf(haystack))} instead.`);\n        }\n\n        return
haystack.indexOf(needle) >= 0;\n    }\n\n    eachChild(fn: (_: Expression) => void) {\n        fn(this.needle);\n
fn(this.haystack);\n    }\n\n    outputDefined() {\n        return true;\n    }\n\n    serialize() {\n        return [\"in\",
this.needle.serialize(), this.haystack.serialize()];\n    }\n}\n\nexport default In;\n","// @flow\n\nimport
{BooleanType, StringType, ValueType, NullType, toString, NumberType, isValidType, isValidNativeType} from
'../types';\nimport RuntimeError from '../runtime_error';\nimport {typeOf} from '../values';\n\nimport type
{Expression} from '../expression';\nimport type ParsingContext from '../parsing_context';\nimport type
EvaluationContext from '../evaluation_context';\nimport type {Type} from '../types';\n\nclass IndexOf implements
Expression {\n    type: Type;\n    needle: Expression;\n    haystack: Expression;\n    fromIndex: ?Expression;\n\n
constructor(needle: Expression, haystack: Expression, fromIndex?: Expression) {\n        this.type = NumberType;\n
    this.needle = needle;\n        this.haystack = haystack;\n        this.fromIndex = fromIndex;\n    }\n\n    static
parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n        if (args.length <= 2 ||  args.length >= 5) {\n
        return context.error(`Expected 3 or 4 arguments, but found ${args.length - 1} instead.`);\n        }\n\n        const
needle = context.parse(args[1], 1, ValueType);\n\n        const haystack = context.parse(args[2], 2, ValueType);\n\n
  if (!needle || !haystack) return null;\n        if (!isValidType(needle.type, [BooleanType, StringType, NumberType,
NullType, ValueType])) {\n            return context.error(`Expected first argument to be of type boolean, string,
number or null, but found ${toString(needle.type)} instead`);\n        }\n\n        if (args.length === 4) {\n            const
fromIndex = context.parse(args[3], 3, NumberType);\n            if (!fromIndex) return null;\n            return new
IndexOf(needle, haystack, fromIndex);\n        } else {\n            return new IndexOf(needle, haystack);\n        }\n
}\n\n    evaluate(ctx: EvaluationContext) {\n        const needle = (this.needle.evaluate(ctx): any);\n        const
haystack = (this.haystack.evaluate(ctx): any);\n\n        if (!isValidNativeType(needle, ['boolean', 'string', 'number',
'null'])) {\n            throw new RuntimeError(`Expected first argument to be of type boolean, string, number or null,
but found ${toString(typeOf(needle))} instead.`);\n        }\n\n        if (!isValidNativeType(haystack, ['string',
'array'])) {\n            throw new RuntimeError(`Expected second argument to be of type array or string, but found
${toString(typeOf(haystack))} instead.`);\n        }\n\n        if (this.fromIndex) {\n            const fromIndex =
(this.fromIndex.evaluate(ctx): number);\n            return haystack.indexOf(needle, fromIndex);\n        }\n\n
return haystack.indexOf(needle);\n    }\n\n    eachChild(fn: (_: Expression) => void) {\n        fn(this.needle);\n
fn(this.haystack);\n        if (this.fromIndex) {\n            fn(this.fromIndex);\n        }\n    }\n\n    outputDefined() {\n
 return false;\n    }\n\n    serialize() {\n        if (this.fromIndex != null && this.fromIndex !== undefined) {\n
const fromIndex = this.fromIndex.serialize();\n            return [\"index-of\", this.needle.serialize(),
this.haystack.serialize(), fromIndex];\n        }\n        return [\"index-of\", this.needle.serialize(),
this.haystack.serialize()];\n    }\n}\n\nexport default IndexOf;\n","// @flow\n\nimport assert from 'assert';\n\nimport
{typeOf} from '../values';\nimport {ValueType, type Type} from '../types';\n\nimport type {Expression} from
'../expression';\nimport type ParsingContext from '../parsing_context';\nimport type EvaluationContext from
'../evaluation_context';\n\n// Map input label values to output expression index\ntype Cases = {[number | string]:
number};\n\nclass Match implements Expression {\n    type: Type;\n    inputType: Type;\n\n    input: Expression;\n
cases: Cases;\n    outputs: Array<Expression>;\n    otherwise: Expression;\n\n    constructor(inputType: Type,
outputType: Type, input: Expression, cases: Cases, outputs: Array<Expression>, otherwise: Expression) {\n
this.inputType = inputType;\n        this.type = outputType;\n        this.input = input;\n        this.cases = cases;\n
this.outputs = outputs;\n        this.otherwise = otherwise;\n    }\n\n    static parse(args: $ReadOnlyArray<mixed>,
context: ParsingContext) {\n        if (args.length < 5)\n            return context.error(`Expected at least 4 arguments,
but found only ${args.length - 1}.`);\n        if (args.length % 2 !== 1)\n            return context.error(`Expected an
even number of arguments.`);\n\n        let inputType;\n        let outputType;\n        if (context.expectedType &&
context.expectedType.kind !== 'value') {\n            outputType = context.expectedType;\n        }\n        const cases =
{};\n        const outputs = [];\n        for (let i = 2; i < args.length - 1; i += 2) {\n            let labels = args[i];\n
const value = args[i + 1];\n\n            if (!Array.isArray(labels)) {\n                labels = [labels];\n            }\n\n
const labelContext = context.concat(i);\n            if (labels.length === 0) {\n                return
labelContext.error('Expected at least one branch label.');\n            }\n\n            for (const label of labels) {\n
if (typeof label !== 'number' && typeof label !== 'string') {\n                    return labelContext.error(`Branch labels
must be numbers or strings.`);\n                } else if (typeof label === 'number' && Math.abs(label) >
Number.MAX_SAFE_INTEGER) {\n                    return labelContext.error(`Branch labels must be integers no
larger than ${Number.MAX_SAFE_INTEGER}.`);\n\n                } else if (typeof label === 'number' &&
Math.floor(label) !== label) {\n                    return labelContext.error(`Numeric branch labels must be integer
values.`);\n\n                } else if (!inputType) {\n                    inputType = typeOf(label);\n                } else if
(labelContext.checkSubtype(inputType, typeOf(label))) {\n                    return null;\n                }\n\n                if
(typeof cases[String(label)] !== 'undefined') {\n                    return labelContext.error('Branch labels must be
unique.');\n                }\n\n                cases[String(label)] = outputs.length;\n            }\n\n            const result =
context.parse(value, i, outputType);\n            if (!result) return null;\n            outputType = outputType ||
result.type;\n            outputs.push(result);\n        }\n\n        const input = context.parse(args[1], 1, ValueType);\n
if (!input) return null;\n\n        const otherwise = context.parse(args[args.length - 1], args.length - 1, outputType);\n
   if (!otherwise) return null;\n\n        assert(inputType && outputType);\n\n        if (input.type.kind !== 'value' &&
context.concat(1).checkSubtype((inputType: any), input.type)) {\n            return null;\n        }\n\n        return new
Match((inputType: any), (outputType: any), input, cases, outputs, otherwise);\n    }\n\n    evaluate(ctx:
EvaluationContext) {\n        const input = (this.input.evaluate(ctx): any);\n        const output = (typeOf(input) ===
this.inputType && this.outputs[this.cases[input]]) || this.otherwise;\n        return output.evaluate(ctx);\n    }\n\n
eachChild(fn: (_: Expression) => void) {\n        fn(this.input);\n        this.outputs.forEach(fn);\n
fn(this.otherwise);\n    }\n\n    outputDefined(): boolean {\n        return this.outputs.every(out =>
out.outputDefined()) && this.otherwise.outputDefined();\n    }\n\n    serialize(): Array<mixed> {\n        const
serialized = [\"match\", this.input.serialize()];\n\n        // Sort so serialization has an arbitrary defined order, even
though\n        // branch order doesn't affect evaluation\n        const sortedLabels = Object.keys(this.cases).sort();\n\n
    // Group branches by unique match expression to support condensed\n        // serializations of the form [case1,
case2, ...] -> matchExpression\n        const groupedByOutput: Array<[number, Array<number | string>]> = [];\n
const outputLookup: {[index: number]: number} = {}; // lookup index into groupedByOutput for a given output
expression\n        for (const label of sortedLabels) {\n            const outputIndex = outputLookup[this.cases[label]];\n
        if (outputIndex === undefined) {\n                // First time seeing this output, add it to the end of the grouped
list\n                outputLookup[this.cases[label]] = groupedByOutput.length;\n
groupedByOutput.push([this.cases[label], [label]]);\n            } else {\n                // We've seen this expression before,
add the label to that output's group\n                groupedByOutput[outputIndex][1].push(label);\n            }\n        }\n\n
      const coerceLabel = (label) => this.inputType.kind === 'number' ? Number(label) : label;\n\n        for (const
[outputIndex, labels] of groupedByOutput) {\n            if (labels.length === 1) {\n                // Only a single label
matches this output expression\n                serialized.push(coerceLabel(labels[0]));\n            } else {\n                //
Array of literal labels pointing to this output expression\n                serialized.push(labels.map(coerceLabel));\n
 }\n            serialized.push(this.outputs[outputIndex].serialize());\n        }\n
serialized.push(this.otherwise.serialize());\n        return serialized;\n    }\n}\n\nexport default Match;\n","//
@flow\n\nimport assert from 'assert';\n\nimport {BooleanType} from '../types';\n\nimport type {Expression} from
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'../expression';\nimport type ParsingContext from '../parsing_context';\nimport type EvaluationContext from '../evaluation_context';\nimport type {Type} from '../types';\n\ntype Branches = Array<[Expression, Expression]>;\n\nclass Case implements Expression {\n type: Type;\n\n branches: Branches;\n otherwise: Expression;\n\n constructor(type: Type, branches: Branches, otherwise: Expression) {\n this.type = type;\n this.branches = branches;\n this.otherwise = otherwise;\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n if (args.length < 4)\n return context.error(`Expected at least 3 arguments, but found only ${args.length - 1}.`);\n if (args.length % 2 !== 0)\n return context.error(`Expected an odd number of arguments.`);\n\n let outputType: ?Type;\n if (context.expectedType && context.expectedType.kind !== 'value') {\n outputType = context.expectedType;\n }\n\n const branches = [];\n for (let i = 1; i < args.length - 1; i += 2) {\n const test = context.parse(args[i], i, BooleanType);\n if (!test) return null;\n\n const result = context.parse(args[i + 1], i + 1, outputType);\n if (!result) return null;\n\n branches.push([test, result]);\n\n outputType = outputType || result.type;\n }\n\n const otherwise = context.parse(args[args.length - 1], args.length - 1, outputType);\n if (!otherwise) return null;\n\n assert(outputType);\n return new Case((outputType: any), branches, otherwise);\n }\n\n evaluate(ctx: EvaluationContext) {\n for (const [test, expression] of this.branches) {\n if (test.evaluate(ctx)) {\n return expression.evaluate(ctx);\n }\n }\n return this.otherwise.evaluate(ctx);\n }\n\n eachChild(fn: (_: Expression) => void) {\n for (const [test, expression] of this.branches) {\n fn(test);\n fn(expression);\n }\n fn(this.otherwise);\n }\n\n outputDefined(): boolean {\n return this.branches.every(([_, out]) => out.outputDefined()) && this.otherwise.outputDefined();\n }\n\n serialize() {\n const serialized = [\"case\"];\n this.eachChild(child => { serialized.push(child.serialize()); });\n return serialized;\n }\n}\n\nexport default Case;\n","// @flow\n\nimport {ValueType, NumberType, StringType, array, toString, isValidType, isValidNativeType} from '../types';\nimport RuntimeError from '../runtime_error';\nimport {typeOf} from '../values';\n\nimport type {Expression} from '../expression';\nimport type ParsingContext from '../parsing_context';\nimport type EvaluationContext from '../evaluation_context';\nimport type {Type} from '../types';\n\nclass Slice implements Expression {\n type: Type;\n input: Expression;\n beginIndex: Expression;\n endIndex: ?Expression;\n\n constructor(type: Type, input: Expression, beginIndex: Expression, endIndex?: Expression) {\n this.type = type;\n this.input = input;\n this.beginIndex = beginIndex;\n this.endIndex = endIndex;\n\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n if (args.length <= 2 || args.length >= 5) {\n return context.error(`Expected 3 or 4 arguments, but found ${args.length - 1} instead.`);\n }\n\n const input = context.parse(args[1], 1, ValueType);\n const beginIndex = context.parse(args[2], 2, NumberType);\n\n if (!input || !beginIndex) return null;\n\n if (!isValidType(input.type, [array(ValueType), StringType, ValueType])) {\n return context.error(`Expected first argument to be of type array or string, but found ${toString(input.type)} instead`);\n }\n\n if (args.length === 4) {\n const endIndex = context.parse(args[3], 3, NumberType);\n if (!endIndex) return null;\n return new Slice(input.type, input, beginIndex, endIndex);\n } else {\n return new Slice(input.type, input, beginIndex);\n }\n }\n\n evaluate(ctx: EvaluationContext) {\n const input = (this.input.evaluate(ctx): any);\n const beginIndex = (this.beginIndex.evaluate(ctx): number);\n\n if (!isValidNativeType(input, ['string', 'array'])) {\n throw new RuntimeError(`Expected first argument to be of type array or string, but found ${toString(typeOf(input))} instead.`);\n }\n\n if (this.endIndex) {\n const endIndex = (this.endIndex.evaluate(ctx): number);\n return input.slice(beginIndex, endIndex);\n }\n\n return input.slice(beginIndex);\n }\n\n eachChild(fn: (_: Expression) => void) {\n fn(this.input);\n fn(this.beginIndex);\n if (this.endIndex) {\n fn(this.endIndex);\n }\n }\n\n outputDefined() {\n return false;\n }\n\n serialize() {\n if (this.endIndex != null && this.endIndex !== undefined) {\n const endIndex = this.endIndex.serialize();\n return [\"slice\", this.input.serialize(), this.beginIndex.serialize(), endIndex];\n }\n return [\"slice\", this.input.serialize(), this.beginIndex.serialize()];\n }\n}\n\nexport default Slice;\n","// @flow\n\nimport {toString, ValueType, BooleanType, CollatorType} from '../types';\nimport Assertion from './assertion';\nimport {typeOf} from '../values';\nimport RuntimeError from

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'../runtime_error';\n\nimport type {Expression} from '../expression';\nimport type EvaluationContext from
'../evaluation_context';\nimport type ParsingContext from '../parsing_context';\nimport type {Type} from
'../types';\n\ntype ComparisonOperator = '==' | '!=' | '<' | '>' | '<=' | '>=' ;\n\nfunction isComparableType(op:
ComparisonOperator, type: Type) {\n    if (op === '==' || op === '!=') {\n        // equality operator\n        return
type.kind === 'boolean' ||\n            type.kind === 'string' ||\n            type.kind === 'number' ||\n            type.kind ===
'null' ||\n            type.kind === 'value';\n    } else {\n        // ordering operator\n        return type.kind === 'string' ||\n
       type.kind === 'number' ||\n            type.kind === 'value';\n    }\n}\n\nfunction eq(ctx, a, b) { return a === b;
}\nfunction neq(ctx, a, b) { return a !== b; }\nfunction lt(ctx, a, b) { return a < b; }\nfunction gt(ctx, a, b) { return a
> b; }\nfunction lteq(ctx, a, b) { return a <= b; }\nfunction gteq(ctx, a, b) { return a >= b; }\n\nfunction
eqCollate(ctx, a, b, c) { return c.compare(a, b) === 0; }\nfunction neqCollate(ctx, a, b, c) { return !eqCollate(ctx, a,
b, c); }\nfunction ltCollate(ctx, a, b, c) { return c.compare(a, b) < 0; }\nfunction gtCollate(ctx, a, b, c) { return
c.compare(a, b) > 0; }\nfunction lteqCollate(ctx, a, b, c) { return c.compare(a, b) <= 0; }\nfunction gteqCollate(ctx,
a, b, c) { return c.compare(a, b) >= 0; }\n\n/**\n * Special form for comparison operators, implementing the
signatures:\n * - (T, T, ?Collator) => boolean\n * - (T, value, ?Collator) => boolean\n * - (value, T, ?Collator) =>
boolean\n *\n * For inequalities, T must be either value, string, or number. For ==/!=, it\n * can also be boolean or
null.\n *\n * Equality semantics are equivalent to Javascript's strict equality (===/!==)\n * -- i.e., when the
arguments' types don't match, == evaluates to false, != to\n * true.\n *\n * When types don't match in an ordering
comparison, a runtime error is thrown.\n *\n * @private\n */\nfunction makeComparison(op: ComparisonOperator,
compareBasic, compareWithCollator) {\n    const isOrderComparison = op !== '==' && op !== '!=';\n\n    return
class Comparison implements Expression {\n        type: Type;\n        lhs: Expression;\n        rhs: Expression;\n
collator: ?Expression;\n        hasUntypedArgument: boolean;\n\n        constructor(lhs: Expression, rhs: Expression,
collator: ?Expression) {\n            this.type = BooleanType;\n            this.lhs = lhs;\n            this.rhs = rhs;\n
this.collator = collator;\n            this.hasUntypedArgument = lhs.type.kind === 'value' || rhs.type.kind === 'value';\n
    }\n\n        static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n            if
(args.length !== 3 && args.length !== 4)\n                return context.error(`Expected two or three arguments.`);\n\n
      const op: ComparisonOperator = (args[0]: any);\n\n            let lhs = context.parse(args[1], 1, ValueType);\n
 if (!lhs) return null;\n            if (!isComparableType(op, lhs.type)) {\n                return
context.concat(1).error(`\"${op}\" comparisons are not supported for type '${toString(lhs.type)}'.`);\n            }\n
   let rhs = context.parse(args[2], 2, ValueType);\n            if (!rhs) return null;\n            if (!isComparableType(op,
rhs.type)) {\n                return context.concat(2).error(`\"${op}\" comparisons are not supported for type
'${toString(rhs.type)}'.`);\n            }\n\n            if (\n                lhs.type.kind !== rhs.type.kind &&\n
lhs.type.kind !== 'value' &&\n                rhs.type.kind !== 'value'\n            ) {\n                return
context.error(`Cannot compare types '${toString(lhs.type)}' and '${toString(rhs.type)}'.`);\n            }\n\n            if
(isOrderComparison) {\n                // typing rules specific to less/greater than operators\n                if (lhs.type.kind
=== 'value' && rhs.type.kind !== 'value') {\n                    // (value, T)\n                    lhs = new Assertion(rhs.type,
[lhs]);\n                } else if (lhs.type.kind !== 'value' && rhs.type.kind === 'value') {\n                    // (T, value)\n
          rhs = new Assertion(lhs.type, [rhs]);\n                }\n            }\n\n            let collator = null;\n            if
(args.length === 4) {\n                if (\n                    lhs.type.kind !== 'string' &&\n                    rhs.type.kind !==
'string' &&\n                    lhs.type.kind !== 'value' &&\n                    rhs.type.kind !== 'value'\n                ) {\n
      return context.error(`Cannot use collator to compare non-string types.`);\n                }\n                collator =
context.parse(args[3], 3, CollatorType);\n                if (!collator) return null;\n            }\n\n            return new
Comparison(lhs, rhs, collator);\n        }\n\n        evaluate(ctx: EvaluationContext) {\n            const lhs =
this.lhs.evaluate(ctx);\n            const rhs = this.rhs.evaluate(ctx);\n\n            if (isOrderComparison &&
this.hasUntypedArgument) {\n                const lt = typeOf(lhs);\n                const rt = typeOf(rhs);\n                //
check that type is string or number, and equal\n                if (lt.kind !== rt.kind || !(lt.kind === 'string' || lt.kind ===
'number')) {\n                    throw new RuntimeError(`Expected arguments for \"${op}\" to be (string, string) or
(number, number), but found (${lt.kind}, ${rt.kind}) instead.`);\n                }\n            }\n\n            if (this.collator
&& !isOrderComparison && this.hasUntypedArgument) {\n                const lt = typeOf(lhs);\n                const rt =
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typeOf(rhs);\n if (lt.kind !== 'string' || rt.kind !== 'string') {\n return compareBasic(ctx, lhs, rhs);\n }\n }\n\n return this.collator ?\n compareWithCollator(ctx, lhs, rhs, this.collator.evaluate(ctx)) :\n compareBasic(ctx, lhs, rhs);\n }\n\n eachChild(fn: (_: Expression) => void) {\n fn(this.lhs);\n fn(this.rhs);\n if (this.collator) {\n fn(this.collator);\n }\n }\n\n outputDefined(): boolean {\n return true;\n }\n\n serialize() {\n const serialized = [op];\n this.eachChild(child => { serialized.push(child.serialize()); });\n return serialized;\n }\n };\n}\n\nexport const Equals = makeComparison('==', eq, eqCollate);\nexport const NotEquals = makeComparison('!=', neq, neqCollate);\nexport const LessThan = makeComparison('<', lt, ltCollate);\nexport const GreaterThan = makeComparison('>', gt, gtCollate);\nexport const LessThanOrEqual = makeComparison('<=', lteq, lteqCollate);\nexport const GreaterThanOrEqual = makeComparison('>=', gteq, gteqCollate);\n","// @flow\n\nimport {StringType, NumberType} from '../types';\n\nimport type {Expression} from '../expression';\nimport type EvaluationContext from '../evaluation_context';\nimport type ParsingContext from '../parsing_context';\nimport type {Type} from '../types';\n\ndeclare var Intl: {\n NumberFormat: Class<Intl$NumberFormat>\n};\n\ndeclare class Intl$NumberFormat {\n constructor (\n locales?: string | string[],\n options?: NumberFormatOptions\n): Intl$NumberFormat;\n\n static (\n locales?: string | string[],\n options?: NumberFormatOptions\n): Intl$NumberFormat;\n\n format(a: number): string;\n\n resolvedOptions(): any;\n}\n\ntype NumberFormatOptions = {\n style?: 'decimal' | 'currency' | 'percent';\n currency?: null | string;\n minimumFractionDigits?: null | string;\n maximumFractionDigits?: null | string;\n};\n\nexport default class NumberFormat implements Expression {\n type: Type;\n number: Expression;\n locale: Expression | null; // BCP 47 language tag\n currency: Expression | null; // ISO 4217 currency code, required if style=currency\n minFractionDigits: Expression | null; // Default 0\n maxFractionDigits: Expression | null; // Default 3\n\n constructor(number: Expression,\n locale: Expression | null,\n currency: Expression | null,\n minFractionDigits: Expression | null,\n maxFractionDigits: Expression | null) {\n this.type = StringType;\n this.number = number;\n this.locale = locale;\n this.currency = currency;\n this.minFractionDigits = minFractionDigits;\n this.maxFractionDigits = maxFractionDigits;\n }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n if (args.length !== 3)\n return context.error(`Expected two arguments.`);\n\n const number = context.parse(args[1], 1, NumberType);\n if (!number) return null;\n\n const options = (args[2]: any);\n if (typeof options !== \"object\" || Array.isArray(options))\n return context.error(`NumberFormat options argument must be an object.`);\n\n let locale = null;\n if (options['locale']) {\n locale = context.parse(options['locale'], 1, StringType);\n if (!locale) return null;\n }\n\n let currency = null;\n if (options['currency']) {\n currency = context.parse(options['currency'], 1, StringType);\n if (!currency) return null;\n }\n\n let minFractionDigits = null;\n if (options['min-fraction-digits']) {\n minFractionDigits = context.parse(options['min-fraction-digits'], 1, NumberType);\n if (!minFractionDigits) return null;\n }\n\n let maxFractionDigits = null;\n if (options['max-fraction-digits']) {\n maxFractionDigits = context.parse(options['max-fraction-digits'], 1, NumberType);\n if (!maxFractionDigits) return null;\n }\n\n return new NumberFormat(number, locale, currency, minFractionDigits, maxFractionDigits);\n }\n\n evaluate(ctx: EvaluationContext) {\n return new Intl.NumberFormat(this.locale ? this.locale.evaluate(ctx) : [],\n {\n style: this.currency ? \"currency\" : \"decimal\",\n currency: this.currency ? this.currency.evaluate(ctx) : undefined,\n minimumFractionDigits: this.minFractionDigits ? this.minFractionDigits.evaluate(ctx) : undefined,\n maximumFractionDigits: this.maxFractionDigits ? this.maxFractionDigits.evaluate(ctx) : undefined,\n }).format(this.number.evaluate(ctx));\n }\n\n eachChild(fn: (_: Expression) => void) {\n fn(this.number);\n if (this.locale) {\n fn(this.locale);\n }\n if (this.currency) {\n fn(this.currency);\n }\n if (this.minFractionDigits) {\n fn(this.minFractionDigits);\n }\n if (this.maxFractionDigits) {\n fn(this.maxFractionDigits);\n }\n }\n\n outputDefined() {\n return false;\n }\n\n serialize() {\n const options = {};\n if (this.locale) {\n options['locale'] = this.locale.serialize();\n }\n if (this.currency) {\n options['currency'] = this.currency.serialize();\n   }\n   if (this.minFractionDigits) {\n   options['min-fraction-digits'] = this.minFractionDigits.serialize();\n   }\n   if (this.maxFractionDigits) {\n   options['max-fraction-digits'] = this.maxFractionDigits.serialize();\n   }\n   return [\"number-format\", this.number.serialize(), options];\n   }\n}\n","// @flow\n\nimport {NumberType, toString} from '../types';\n\nimport {typeOf} from '../values';\nimport RuntimeError from '../runtime_error';\n\nimport type {Expression} from '../expression';\nimport type ParsingContext from '../parsing_context';\nimport type EvaluationContext from '../evaluation_context';\nimport type {Type} from '../types';\n\nclass Length implements Expression {\n   type: Type;\n   input: Expression;\n\n   constructor(input: Expression) {\n   this.type = NumberType;\n   this.input = input;\n   }\n\n   static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n   if (args.length !== 2)\n   return context.error(`Expected 1 argument, but found ${args.length - 1} instead.`);\n\n   const input = context.parse(args[1], 1);\n   if (!input) return null;\n\n   if (input.type.kind !== 'array' && input.type.kind !== 'string' && input.type.kind !== 'value')\n   return context.error(`Expected argument of type string or array, but found ${toString(input.type)} instead.`);\n\n   return new Length(input);\n   }\n\n   evaluate(ctx: EvaluationContext) {\n   const input = this.input.evaluate(ctx);\n   if (typeof input === 'string') {\n   return input.length;\n   } else if (Array.isArray(input)) {\n   return input.length;\n   } else {\n   throw new RuntimeError(`Expected value to be of type string or array, but found ${toString(typeOf(input))} instead.`);\n   }\n   }\n\n   eachChild(fn: (_: Expression) => void) {\n   fn(this.input);\n   }\n\n   outputDefined() {\n   return false;\n   }\n\n   serialize() {\n   const serialized = [\"length\"];\n   this.eachChild(child => { serialized.push(child.serialize()); });\n   return serialized;\n   }\n}\n\nexport default Length;\n","// @flow\n\nimport {\n   type Type,\n   NumberType,\n   StringType,\n   BooleanType,\n   ColorType,\n   ObjectType,\n   ValueType,\n   ErrorType,\n   CollatorType,\n   array,\n   toString as typeToString\n} from '../types';\n\nimport {typeOf, Color, validateRGBA, toString as valueToString} from '../values';\nimport CompoundExpression from '../compound_expression';\nimport RuntimeError from '../runtime_error';\nimport Let from './let';\nimport Var from './var';\nimport Literal from './literal';\nimport Assertion from './assertion';\nimport Coercion from './coercion';\nimport At from './at';\nimport In from './in';\nimport IndexOf from './index_of';\nimport Match from './match';\nimport Case from './case';\nimport Slice from './slice';\nimport Step from './step';\nimport Interpolate from './interpolate';\nimport Coalesce from './coalesce';\nimport {\n   Equals,\n   NotEquals,\n   LessThan,\n   GreaterThan,\n   LessThanOrEqual,\n   GreaterThanOrEqual\n} from './comparison';\nimport CollatorExpression from './collator';\nimport NumberFormat from './number_format';\nimport FormatExpression from './format';\nimport ImageExpression from './image';\nimport Length from './length';\nimport Within from './within';\n\nimport type {Varargs} from '../compound_expression';\nimport type {ExpressionRegistry} from '../expression';\n\nconst expressions: ExpressionRegistry = {\n   // special forms\n   '==': Equals,\n   '!=': NotEquals,\n   '>': GreaterThan,\n   '<': LessThan,\n   '>=': GreaterThanOrEqual,\n   '<=': LessThanOrEqual,\n   'array': Assertion,\n   'at': At,\n   'boolean': Assertion,\n   'case': Case,\n   'coalesce': Coalesce,\n   'collator': CollatorExpression,\n   'format': FormatExpression,\n   'image': ImageExpression,\n   'in': In,\n   'index-of': IndexOf,\n   'interpolate': Interpolate,\n   'interpolate-hcl': Interpolate,\n   'interpolate-lab': Interpolate,\n   'length': Length,\n   'let': Let,\n   'literal': Literal,\n   'match': Match,\n   'number': Assertion,\n   'number-format': NumberFormat,\n   'object': Assertion,\n   'slice': Slice,\n   'step': Step,\n   'string': Assertion,\n   'to-boolean': Coercion,\n   'to-color': Coercion,\n   'to-number': Coercion,\n   'to-string': Coercion,\n   'var': Var,\n   'within': Within\n};\n\nfunction rgba(ctx, [r, g, b, a]) {\n   r = r.evaluate(ctx);\n   g = g.evaluate(ctx);\n   b = b.evaluate(ctx);\n   const alpha = a ? a.evaluate(ctx) : 1;\n   const error = validateRGBA(r, g, b, alpha);\n   if (error) throw new RuntimeError(error);\n   return new Color(r / 255 * alpha, g / 255 * alpha, b / 255 * alpha, alpha);\n}\n\nfunction has(key, obj) {\n   return key in obj;\n}\n\nfunction get(key, obj) {\n   const v = obj[key];\n   return typeof v === 'undefined' ? null : v;\n}\n\nfunction binarySearch(v, a, i, j) {\n   while (i <= j) {\n   const m = (i + j) >> 1;\n   if (a[m] === v)\n   return true;\n   if (a[m] > v)\n   j = m - 1;\n   else\n   i = m + 1;\n   }\n   return false;\n}\n\nfunction varargs(type: Type): Varargs {\n   return {type};\n}\n\nCompoundExpression.register(expressions, {\n   'error': [\n   ErrorType,\n   [StringType],\n

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(ctx, [v]) => { throw new RuntimeError(v.evaluate(ctx)); }\n    ],\n    'typeof': [\n        StringType,\n
[ValueType],\n        (ctx, [v]) => typeToString(typeOf(v.evaluate(ctx)))\n    ],\n    'to-rgba': [\n
array(NumberType, 4),\n        [ColorType],\n        (ctx, [v]) => {\n            return v.evaluate(ctx).toArray();\n        }\n
 ],\n    'rgb': [\n        ColorType,\n        [NumberType, NumberType, NumberType],\n        rgba\n    ],\n    'rgba': [\n
  ColorType,\n        [NumberType, NumberType, NumberType, NumberType],\n        rgba\n    ],\n    'has': {\n
type: BooleanType,\n        overloads: [\n            [\n                [StringType],\n                (ctx, [key]) =>
has(key.evaluate(ctx), ctx.properties())\n            ], [\n                [StringType, ObjectType],\n                (ctx, [key,
obj]) => has(key.evaluate(ctx), obj.evaluate(ctx))\n            ]\n        ]\n    },\n    'get': {\n        type: ValueType,\n
overloads: [\n            [\n                [StringType],\n                (ctx, [key]) => get(key.evaluate(ctx), ctx.properties())\n
        ], [\n                [StringType, ObjectType],\n                (ctx, [key, obj]) => get(key.evaluate(ctx),
obj.evaluate(ctx))\n            ]\n        ]\n    },\n    'feature-state': [\n        ValueType,\n        [StringType],\n        (ctx,
[key]) => get(key.evaluate(ctx), ctx.featureState || {})\n    ],\n    'properties': [\n        ObjectType,\n        [],\n
(ctx) => ctx.properties()\n    ],\n    'geometry-type': [\n        StringType,\n        [],\n        (ctx) =>
ctx.geometryType()\n    ],\n    'id': [\n        ValueType,\n        [],\n        (ctx) => ctx.id()\n    ],\n    'zoom': [\n
NumberType,\n        [],\n        (ctx) => ctx.globals.zoom\n    ],\n    'heatmap-density': [\n        NumberType,\n
[],\n        (ctx) => ctx.globals.heatmapDensity || 0\n    ],\n    'line-progress': [\n        NumberType,\n        [],\n
(ctx) => ctx.globals.lineProgress || 0\n    ],\n    'accumulated': [\n        ValueType,\n        [],\n        (ctx) =>
ctx.globals.accumulated === undefined ? null : ctx.globals.accumulated\n    ],\n    '+': [\n        NumberType,\n
varargs(NumberType),\n        (ctx, args) => {\n            let result = 0;\n            for (const arg of args) {\n
result += arg.evaluate(ctx);\n            }\n            return result;\n        }\n    ],\n    '*': [\n        NumberType,\n
varargs(NumberType),\n        (ctx, args) => {\n            let result = 1;\n            for (const arg of args) {\n
result *= arg.evaluate(ctx);\n            }\n            return result;\n        }\n    ],\n    '-': {\n        type: NumberType,\n
overloads: [\n            [\n                [NumberType, NumberType],\n                (ctx, [a, b]) => a.evaluate(ctx) -
b.evaluate(ctx)\n            ], [\n                [NumberType],\n                (ctx, [a]) => -a.evaluate(ctx)\n            ]\n        ]\n
},\n    '/': [\n        NumberType,\n        [NumberType, NumberType],\n        (ctx, [a, b]) => a.evaluate(ctx) /
b.evaluate(ctx)\n    ],\n    '%': [\n        NumberType,\n        [NumberType, NumberType],\n        (ctx, [a, b]) =>
a.evaluate(ctx) % b.evaluate(ctx)\n    ],\n    'ln2': [\n        NumberType,\n        [],\n        () => Math.LN2\n    ],\n    'pi':
[\n        NumberType,\n        [],\n        () => Math.PI\n    ],\n    'e': [\n        NumberType,\n        [],\n        () =>
Math.E\n    ],\n    '^': [\n        NumberType,\n        [NumberType, NumberType],\n        (ctx, [b, e]) =>
Math.pow(b.evaluate(ctx), e.evaluate(ctx))\n    ],\n    'sqrt': [\n        NumberType,\n        [NumberType],\n        (ctx,
[x]) => Math.sqrt(x.evaluate(ctx))\n    ],\n    'log10': [\n        NumberType,\n        [NumberType],\n        (ctx, [n]) =>
Math.log(n.evaluate(ctx)) / Math.LN10\n    ],\n    'ln': [\n        NumberType,\n        [NumberType],\n        (ctx, [n])
=> Math.log(n.evaluate(ctx))\n    ],\n    'log2': [\n        NumberType,\n        [NumberType],\n        (ctx, [n]) =>
Math.log(n.evaluate(ctx)) / Math.LN2\n    ],\n    'sin': [\n        NumberType,\n        [NumberType],\n        (ctx, [n])
=> Math.sin(n.evaluate(ctx))\n    ],\n    'cos': [\n        NumberType,\n        [NumberType],\n        (ctx, [n]) =>
Math.cos(n.evaluate(ctx))\n    ],\n    'tan': [\n        NumberType,\n        [NumberType],\n        (ctx, [n]) =>
Math.tan(n.evaluate(ctx))\n    ],\n    'asin': [\n        NumberType,\n        [NumberType],\n        (ctx, [n]) =>
Math.asin(n.evaluate(ctx))\n    ],\n    'acos': [\n        NumberType,\n        [NumberType],\n        (ctx, [n]) =>
Math.acos(n.evaluate(ctx))\n    ],\n    'atan': [\n        NumberType,\n        [NumberType],\n        (ctx, [n]) =>
Math.atan(n.evaluate(ctx))\n    ],\n    'min': [\n        NumberType,\n        varargs(NumberType),\n        (ctx, args) =>
Math.min(...args.map(arg => arg.evaluate(ctx)))\n    ],\n    'max': [\n        NumberType,\n
varargs(NumberType),\n        (ctx, args) => Math.max(...args.map(arg => arg.evaluate(ctx)))\n    ],\n    'abs': [\n
NumberType,\n        [NumberType],\n        (ctx, [n]) => Math.abs(n.evaluate(ctx))\n    ],\n    'round': [\n
NumberType,\n        [NumberType],\n        (ctx, [n]) => {\n            const v = n.evaluate(ctx);\n            // Javascript's
Math.round() rounds towards +Infinity for halfway\n            // values, even when they're negative. It's more common
to round\n            // away from 0 (e.g., this is what python and C++ do)\n            return v < 0 ? -Math.round(-v) :
Math.round(v);\n        }\n    ],\n    'floor': [\n        NumberType,\n        [NumberType],\n        (ctx, [n]) =>
Math.floor(n.evaluate(ctx))\n    ],\n    'ceil': [\n        NumberType,\n        [NumberType],\n        (ctx, [n]) =>
Math.ceil(n.evaluate(ctx))\n    ],\n    'filter-==': [\n        BooleanType,\n        [StringType, ValueType],\n        (ctx, [k,
v]) => ctx.properties()[(k: any).value] === (v: any).value\n    ],\n    'filter-id-==': [\n        BooleanType,\n
[ValueType],\n        (ctx, [v]) => ctx.id() === (v: any).value\n    ],\n    'filter-type-==': [\n        BooleanType,\n
[StringType],\n        (ctx, [v]) => ctx.geometryType() === (v: any).value\n    ],\n    'filter-<': [\n        BooleanType,\n
    [StringType, ValueType],\n        (ctx, [k, v]) => {\n            const a = ctx.properties()[(k: any).value];\n
const b = (v: any).value;\n            return typeof a === typeof b && a < b;\n        }\n    ],\n    'filter-id-<': [\n
BooleanType,\n        [ValueType],\n        (ctx, [v]) => {\n            const a = ctx.id();\n            const b = (v:
any).value;\n            return typeof a === typeof b && a < b;\n        }\n    ],\n    'filter->': [\n        BooleanType,\n
[StringType, ValueType],\n        (ctx, [k, v]) => {\n            const a = ctx.properties()[(k: any).value];\n            const b
= (v: any).value;\n            return typeof a === typeof b && a > b;\n        }\n    ],\n    'filter-id->': [\n
BooleanType,\n        [ValueType],\n        (ctx, [v]) => {\n            const a = ctx.id();\n            const b = (v:
any).value;\n            return typeof a === typeof b && a > b;\n        }\n    ],\n    'filter-<=': [\n        BooleanType,\n
[StringType, ValueType],\n        (ctx, [k, v]) => {\n            const a = ctx.properties()[(k: any).value];\n            const b
= (v: any).value;\n            return typeof a === typeof b && a <= b;\n        }\n    ],\n    'filter-id-<=': [\n
BooleanType,\n        [ValueType],\n        (ctx, [v]) => {\n            const a = ctx.id();\n            const b = (v:
any).value;\n            return typeof a === typeof b && a <= b;\n        }\n    ],\n    'filter->=': [\n        BooleanType,\n
  [StringType, ValueType],\n        (ctx, [k, v]) => {\n            const a = ctx.properties()[(k: any).value];\n            const
b = (v: any).value;\n            return typeof a === typeof b && a >= b;\n        }\n    ],\n    'filter-id->=': [\n
BooleanType,\n        [ValueType],\n        (ctx, [v]) => {\n            const a = ctx.id();\n            const b = (v:
any).value;\n            return typeof a === typeof b && a >= b;\n        }\n    ],\n    'filter-has': [\n        BooleanType,\n
   [ValueType],\n        (ctx, [k]) => (k: any).value in ctx.properties()\n    ],\n    'filter-has-id': [\n        BooleanType,\n
    [],\n        (ctx) => (ctx.id() !== null && ctx.id() !== undefined)\n    ],\n    'filter-type-in': [\n        BooleanType,\n
   [array(StringType)],\n        (ctx, [v]) => (v: any).value.indexOf(ctx.geometryType()) >= 0\n    ],\n    'filter-id-in':
[\n        BooleanType,\n        [array(ValueType)],\n        (ctx, [v]) => (v: any).value.indexOf(ctx.id()) >= 0\n    ],\n
'filter-in-small': [\n        BooleanType,\n        [StringType, array(ValueType)],\n        // assumes v is an array literal\n
    (ctx, [k, v]) => (v: any).value.indexOf(ctx.properties()[(k: any).value]) >= 0\n    ],\n    'filter-in-large': [\n
BooleanType,\n        [StringType, array(ValueType)],\n        // assumes v is a array literal with values sorted in
ascending order and of a single type\n        (ctx, [k, v]) => binarySearch(ctx.properties()[(k: any).value], (v:
any).value, 0, (v: any).value.length - 1)\n    ],\n    'all': {\n        type: BooleanType,\n        overloads: [\n            [\n
        [BooleanType, BooleanType],\n                (ctx, [a, b]) => a.evaluate(ctx) && b.evaluate(ctx)\n            ],\n
[\n                varargs(BooleanType),\n                (ctx, args) => {\n                    for (const arg of args) {\n
 if (!arg.evaluate(ctx))\n                            return false;\n                    }\n                    return true;\n                }\n
]\n        ]\n    },\n    'any': {\n        type: BooleanType,\n        overloads: [\n            [\n                [BooleanType,
BooleanType],\n                (ctx, [a, b]) => a.evaluate(ctx) || b.evaluate(ctx)\n            ],\n            [\n
varargs(BooleanType),\n                (ctx, args) => {\n                    for (const arg of args) {\n                        if
(arg.evaluate(ctx))\n                            return true;\n                    }\n                    return false;\n                }\n            ]\n
      ]\n    },\n    '!': [\n        BooleanType,\n        [BooleanType],\n        (ctx, [b]) => !b.evaluate(ctx)\n    ],\n    'is-
supported-script': [\n        BooleanType,\n        [StringType],\n        // At parse time this will always return true, so
we need to exclude this expression with isGlobalPropertyConstant\n        (ctx, [s]) => {\n            const
isSupportedScript = ctx.globals && ctx.globals.isSupportedScript;\n            if (isSupportedScript) {\n
return isSupportedScript(s.evaluate(ctx));\n            }\n            return true;\n        }\n    ],\n    'upcase': [\n
StringType,\n        [StringType],\n        (ctx, [s]) => s.evaluate(ctx).toUpperCase()\n    ],\n    'downcase': [\n
StringType,\n        [StringType],\n        (ctx, [s]) => s.evaluate(ctx).toLowerCase()\n    ],\n    'concat': [\n
StringType,\n        varargs(ValueType),\n        (ctx, args) => args.map(arg =>
valueToString(arg.evaluate(ctx))).join('')\n    ],\n    'resolved-locale': [\n        StringType,\n        [CollatorType],\n
(ctx, [collator]) => collator.evaluate(ctx).resolvedLocale()\n    ]\n});\n\nexport default expressions;\n","//
@flow\n\n/**\n * A type used for returning and propagating errors. The first element of the union\n * represents
success and contains a value, and the second represents an error and\n * contains an error value.\n * @private\n
```

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

properties) {\n return evaluateExponentialFunction({\n stops: featureFunctionStops,\n base: parameters.base\n }, propertySpec, zoom).evaluate(zoom, properties);\n }\n };\n } else if (zoomDependent) {\n const interpolationType = type === 'exponential' ?\n {name: 'exponential', base: parameters.base !== undefined ? parameters.base : 1} : null;\n return {\n kind: 'camera',\n interpolationType,\n interpolationFactor: Interpolate.interpolationFactor.bind(undefined, interpolationType),\n zoomStops: parameters.stops.map(s => s[0]),\n evaluate: ({zoom}) => innerFun(parameters, propertySpec, zoom, hashedStops, categoricalKeyType)\n };\n } else {\n return {\n kind: 'source',\n evaluate(_, feature) {\n const value = feature && feature.properties ? feature.properties[parameters.property] : undefined;\n if (value === undefined) {\n return coalesce(parameters.default, propertySpec.default);\n }\n return innerFun(parameters, propertySpec, value, hashedStops, categoricalKeyType);\n }\n };\n }\n}\n\nfunction coalesce(a, b, c) {\n if (a !== undefined) return a;\n if (b !== undefined) return b;\n if (c !== undefined) return c;\n}\n\nfunction evaluateCategoricalFunction(parameters, propertySpec, input, hashedStops, keyType) {\n const evaluated = typeof input === keyType ? hashedStops[input] : undefined; // Enforce strict typing on input\n return coalesce(evaluated, parameters.default, propertySpec.default);\n}\n\nfunction evaluateIntervalFunction(parameters, propertySpec, input) {\n // Edge cases\n if (getType(input) !== 'number') return coalesce(parameters.default, propertySpec.default);\n const n = parameters.stops.length;\n if (n === 1) return parameters.stops[0][1];\n if (input <= parameters.stops[0][0]) return parameters.stops[0][1];\n if (input >= parameters.stops[n - 1][0]) return parameters.stops[n - 1][1];\n\n const index = findStopLessThanOrEqualTo(parameters.stops.map((stop) => stop[0]), input);\n\n return parameters.stops[index][1];\n}\n\nfunction evaluateExponentialFunction(parameters, propertySpec, input) {\n const base = parameters.base !== undefined ? parameters.base : 1;\n\n // Edge cases\n if (getType(input) !== 'number') return coalesce(parameters.default, propertySpec.default);\n const n = parameters.stops.length;\n if (n === 1) return parameters.stops[0][1];\n if (input <= parameters.stops[0][0]) return parameters.stops[0][1];\n if (input >= parameters.stops[n - 1][0]) return parameters.stops[n - 1][1];\n\n const index = findStopLessThanOrEqualTo(parameters.stops.map((stop) => stop[0]), input);\n const t = interpolationFactor(\n input, base,\n parameters.stops[index][0],\n parameters.stops[index + 1][0]);\n\n const outputLower = parameters.stops[index][1];\n const outputUpper = parameters.stops[index + 1][1];\n let interp = interpolate[propertySpec.type] || identityFunction; // eslint-disable-line import/namespace\n\n if (parameters.colorSpace && parameters.colorSpace !== 'rgb') {\n const colorspace = colorSpaces[parameters.colorSpace]; // eslint-disable-line import/namespace\n interp = (a, b) => colorspace.reverse(colorspace.interpolate(colorspace.forward(a), colorspace.forward(b), t));\n }\n\n if (typeof outputLower.evaluate === 'function') {\n return {\n evaluate(...args) {\n const evaluatedLower = outputLower.evaluate.apply(undefined, args);\n const evaluatedUpper = outputUpper.evaluate.apply(undefined, args);\n // Special case for fill-outline-color, which has no spec default.\n if (evaluatedLower === undefined || evaluatedUpper === undefined) {\n return undefined;\n }\n return interp(evaluatedLower, evaluatedUpper, t);\n }\n };\n }\n\n return interp(outputLower, outputUpper, t);\n}\n\nfunction evaluateIdentityFunction(parameters, propertySpec, input) {\n if (propertySpec.type === 'color') {\n input = Color.parse(input);\n } else if (propertySpec.type === 'formatted') {\n input = Formatted.fromString(input.toString());\n } else if (propertySpec.type === 'resolvedImage') {\n input = ResolvedImage.fromString(input.toString());\n } else if (getType(input) !== propertySpec.type && (propertySpec.type !== 'enum' || !propertySpec.values[input])) {\n input = undefined;\n }\n return coalesce(input, parameters.default, propertySpec.default);\n}\n\n/**\n * Returns a ratio that can be used to interpolate between exponential function\n * stops.\n *\n * How it works:\n * Two consecutive stop values define a (scaled and shifted) exponential\n * function `f(x) = a * base^x + b`, where `base` is the user-specified base,\n * and `a` and `b` are constants affording sufficient degrees of freedom to fit\n * the function to the given stops.\n *\n * Here's a bit of algebra that lets us compute `f(x)` directly from the stop\n * values without explicitly solving for `a` and `b`:\n *\n * First stop value: `f(x0) = y0 = a * base^x0 + b`\n * Second stop value: `f(x1) = y1 = a * base^x1 + b`\n * => `y1 - y0 = a(base^x1 - base^x0)`\n * => `a = (y1 - y0)/(base^x1 - base^x0)`\n *\n * Desired value: `f(x) =

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y = a * base^x + b`\n * => `f(x) = y0 + a * (base^x - base^x0)`\n *\n * From the above, we can replace the `a` in `a *
(base^x - base^x0)` and do a\n * little algebra:\n * ```\n * a * (base^x - base^x0) = (y1 - y0)/(base^x1 - base^x0) *
(base^x - base^x0)\n *                     = (y1 - y0) * (base^x - base^x0) / (base^x1 - base^x0)\n * ```\n *\n * If we let
`(base^x - base^x0) / (base^x1 base^x0)`, then we have\n * `f(x) = y0 + (y1 - y0) * ratio`.  In other words, `ratio`
may be treated as\n * an interpolation factor between the two stops' output values.\n *\n * (Note: a slightly different
form for `ratio`,\n * `(base^(x-x0) - 1) / (base^(x1-x0) - 1) `, is equivalent, but requires fewer\n * expensive
`Math.pow()` operations.)\n *\n * @private\n */\nfunction interpolationFactor(input, base, lowerValue, upperValue)
{\n    const difference = upperValue - lowerValue;\n    const progress = input - lowerValue;\n\n    if (difference ===
0) {\n        return 0;\n    } else if (base === 1) {\n        return progress / difference;\n    } else {\n        return
(Math.pow(base, progress) - 1) / (Math.pow(base, difference) - 1);\n    }\n}\n","// @flow\n\nimport assert from
'assert';\n\nimport extend from '../util/extend';\nimport ParsingError from './parsing_error';\nimport ParsingContext
from './parsing_context';\nimport EvaluationContext from './evaluation_context';\nimport CompoundExpression
from './compound_expression';\nimport Step from './definitions/step';\nimport Interpolate from
'./definitions/interpolate';\nimport Coalesce from './definitions/coalesce';\nimport Let from './definitions/let';\nimport
definitions from './definitions';\nimport * as isConstant from './is_constant';\nimport RuntimeError from
'./runtime_error';\nimport {success, error} from '../util/result';\nimport {supportsPropertyExpression,
supportsZoomExpression, supportsInterpolation} from '../util/properties';\n\nimport type {Type, EvaluationKind}
from './types';\nimport type {Value} from './values';\nimport type {Expression} from './expression';\nimport type
{StylePropertySpecification} from '../style-spec';\nimport type {Result} from '../util/result';\nimport type
{InterpolationType} from './definitions/interpolate';\nimport type {PropertyValueSpecification} from
'../types';\nimport type {FormattedSection} from './types/formatted';\nimport type Point from '@mapbox/point-
geometry';\nimport type {CanonicalTileID} from '../../source/tile_id';\n\nexport type Feature = {\n    +type: 1 | 2 | 3 |
'Unknown' | 'Point' | 'MultiPoint' | 'LineString' | 'MultiLineString' | 'Polygon' | 'MultiPolygon',\n    +id?: any,\n
+properties: {[_: string]: any},\n    +patterns?: {[_: string]: {\"min\": string, \"mid\": string, \"max\": string}},\n
+geometry?: Array<Array<Point>>\n};\n\nexport type FeatureState = {[_: string]: any};\n\nexport type
GlobalProperties = $ReadOnly<{\n    zoom: number,\n    heatmapDensity?: number,\n    lineProgress?: number,\n
isSupportedScript?: (_: string) => boolean,\n    accumulated?: Value\n}>;\n\nexport class StyleExpression {\n
expression: Expression;\n\n    _evaluator: EvaluationContext;\n    _defaultValue: Value;\n    _warningHistory:
{[key: string]: boolean};\n    _enumValues: ?{[_: string]: any};\n\n    constructor(expression: Expression,
propertySpec: ?StylePropertySpecification) {\n        this.expression = expression;\n        this._warningHistory =
{};\n        this._evaluator = new EvaluationContext();\n        this._defaultValue = propertySpec ?
getDefaultValue(propertySpec) : null;\n        this._enumValues = propertySpec && propertySpec.type === 'enum' ?
propertySpec.values : null;\n    }\n\n    evaluateWithoutErrorHandling(globals: GlobalProperties, feature?: Feature,
featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?:
FormattedSection): any {\n        this._evaluator.globals = globals;\n        this._evaluator.feature = feature;\n
this._evaluator.featureState = featureState;\n        this._evaluator.canonical = canonical;\n
this._evaluator.availableImages = availableImages || null;\n        this._evaluator.formattedSection =
formattedSection;\n\n        return this.expression.evaluate(this._evaluator);\n    }\n\n    evaluate(globals:
GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?:
Array<string>, formattedSection?: FormattedSection): any {\n        this._evaluator.globals = globals;\n
this._evaluator.feature = feature || null;\n        this._evaluator.featureState = featureState || null;\n
this._evaluator.canonical = canonical;\n        this._evaluator.availableImages = availableImages || null;\n
this._evaluator.formattedSection = formattedSection || null;\n\n        try {\n            const val =
this.expression.evaluate(this._evaluator);\n            // eslint-disable-next-line no-self-compare\n            if (val ===
null || val === undefined || (typeof val === 'number' && val !== val)) {\n                return this._defaultValue;\n
 }\n            if (this._enumValues && !(val in this._enumValues)) {\n                throw new RuntimeError(`Expected
value to be one of ${Object.keys(this._enumValues).map(v => JSON.stringify(v)).join(', ')}, but found
${JSON.stringify(val)} instead.`);\n            }\n            return val;\n        } catch (e) {\n            if
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(!this._warningHistory[e.message]) {\n                this._warningHistory[e.message] = true;\n                if (typeof
console !== 'undefined') {\n                    console.warn(e.message);\n                }\n            }\n            return
this._defaultValue;\n        }\n    }\n}\n\nexport function isExpression(expression: mixed) {\n    return
Array.isArray(expression) && expression.length > 0 &&\n        typeof expression[0] === 'string' && expression[0]
in definitions;\n}\n\n/**\n * Parse and typecheck the given style spec JSON expression.  If\n * options.defaultValue
is provided, then the resulting StyleExpression's\n * `evaluate()` method will handle errors by logging a warning
(once per\n * message) and returning the default value.  Otherwise, it will throw\n * evaluation errors.\n *\n *
@private\n */\nexport function createExpression(expression: mixed, propertySpec: ?StylePropertySpecification):
Result<StyleExpression, Array<ParsingError>> {\n    const parser = new ParsingContext(definitions, [],
propertySpec ? getExpectedType(propertySpec) : undefined);\n\n    // For string-valued properties, coerce to string
at the top level rather than asserting.\n    const parsed = parser.parse(expression, undefined, undefined, undefined,\n
    propertySpec && propertySpec.type === 'string' ? {typeAnnotation: 'coerce'} : undefined);\n\n    if (!parsed) {\n
    assert(parser.errors.length > 0);\n        return error(parser.errors);\n    }\n\n    return success(new
StyleExpression(parsed, propertySpec));\n}\n\nexport class ZoomConstantExpression<Kind: EvaluationKind> {\n
kind: Kind;\n    isStateDependent: boolean;\n    _styleExpression: StyleExpression;\n\n    constructor(kind: Kind,
expression: StyleExpression) {\n        this.kind = kind;\n        this._styleExpression = expression;\n
this.isStateDependent = kind !== ('constant': EvaluationKind) &&
!isConstant.isStateConstant(expression.expression);\n    }\n\n    evaluateWithoutErrorHandling(globals:
GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?:
Array<string>, formattedSection?: FormattedSection): any {\n        return
this._styleExpression.evaluateWithoutErrorHandling(globals, feature, featureState, canonical, availableImages,
formattedSection);\n    }\n\n    evaluate(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState,
canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection): any {\n
return this._styleExpression.evaluate(globals, feature, featureState, canonical, availableImages, formattedSection);\n
  }\n}\n\nexport class ZoomDependentExpression<Kind: EvaluationKind> {\n    kind: Kind;\n    zoomStops:
Array<number>;\n    isStateDependent: boolean;\n\n    _styleExpression: StyleExpression;\n    interpolationType:
?InterpolationType;\n\n    constructor(kind: Kind, expression: StyleExpression, zoomStops: Array<number>,
interpolationType?: InterpolationType) {\n        this.kind = kind;\n        this.zoomStops = zoomStops;\n
this._styleExpression = expression;\n        this.isStateDependent = kind !== ('camera': EvaluationKind) &&
!isConstant.isStateConstant(expression.expression);\n        this.interpolationType = interpolationType;\n    }\n\n
evaluateWithoutErrorHandling(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?:
CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection): any {\n        return
this._styleExpression.evaluateWithoutErrorHandling(globals, feature, featureState, canonical, availableImages,
formattedSection);\n    }\n\n    evaluate(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState,
canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection): any {\n
return this._styleExpression.evaluate(globals, feature, featureState, canonical, availableImages, formattedSection);\n
  }\n\n    interpolationFactor(input: number, lower: number, upper: number): number {\n        if
(this.interpolationType) {\n            return Interpolate.interpolationFactor(this.interpolationType, input, lower,
upper);\n        } else {\n            return 0;\n        }\n    }\n}\n\nexport type ConstantExpression = {\n    kind:
'constant',\n    +evaluate: (globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?:
CanonicalTileID, availableImages?: Array<string>) => any,\n}\n\nexport type SourceExpression = {\n    kind:
'source',\n    isStateDependent: boolean,\n    +evaluate: (globals: GlobalProperties, feature?: Feature, featureState?:
FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection)
=> any,\n};\n\nexport type CameraExpression = {\n    kind: 'camera',\n    +evaluate: (globals: GlobalProperties,
feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>) =>
any,\n    +interpolationFactor: (input: number, lower: number, upper: number) => number,\n    zoomStops:
Array<number>,\n    interpolationType: ?InterpolationType\n};\n\nexport type CompositeExpression = {\n    kind:
'composite',\n    isStateDependent: boolean,\n    +evaluate: (globals: GlobalProperties, feature?: Feature,
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featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection) => any,\n +interpolationFactor: (input: number, lower: number, upper: number) => number,\n zoomStops: Array<number>,\n interpolationType: ?InterpolationType\n};\n\nexport type StylePropertyExpression =\n | ConstantExpression\n | SourceExpression\n | CameraExpression\n | CompositeExpression;\n\nexport function createPropertyExpression(expression: mixed, propertySpec: StylePropertySpecification): Result<StylePropertyExpression, Array<ParsingError>> {\n expression = createExpression(expression, propertySpec);\n if (expression.result === 'error') {\n return expression;\n }\n\n const parsed = expression.value.expression;\n\n const isFeatureConstant = isConstant.isFeatureConstant(parsed);\n if (!isFeatureConstant && !supportsPropertyExpression(propertySpec)) {\n return error([new ParsingError('', 'data expressions not supported')]);\n }\n\n const isZoomConstant = isConstant.isGlobalPropertyConstant(parsed, ['zoom']);\n if (!isZoomConstant && !supportsZoomExpression(propertySpec)) {\n return error([new ParsingError('', 'zoom expressions not supported')]);\n }\n\n const zoomCurve = findZoomCurve(parsed);\n if (!zoomCurve && !isZoomConstant) {\n return error([new ParsingError('', '\"zoom\" expression may only be used as input to a top-level \"step\" or \"interpolate\" expression.')]);\n } else if (zoomCurve instanceof ParsingError) {\n return error([zoomCurve]);\n } else if (zoomCurve instanceof Interpolate && !supportsInterpolation(propertySpec)) {\n return error([new ParsingError('', '\"interpolate\" expressions cannot be used with this property')]);\n }\n\n if (!zoomCurve) {\n return success(isFeatureConstant ?\n (new ZoomConstantExpression('constant', expression.value): ConstantExpression) :\n (new ZoomConstantExpression('source', expression.value): SourceExpression));\n }\n\n const interpolationType = zoomCurve instanceof Interpolate ? zoomCurve.interpolation : undefined;\n\n return success(isFeatureConstant ?\n (new ZoomDependentExpression('camera', expression.value, zoomCurve.labels, interpolationType): CameraExpression) :\n (new ZoomDependentExpression('composite', expression.value, zoomCurve.labels, interpolationType): CompositeExpression));\n}\n\nimport {isFunction, createFunction} from '../function';\nimport {Color} from './values';\n\n// serialization wrapper for old-style stop functions normalized to the\n// expression interface\nexport class StylePropertyFunction<T> {\n _parameters: PropertyValueSpecification<T>;\n _specification: StylePropertySpecification;\n\n kind: EvaluationKind;\n evaluate: (globals: GlobalProperties, feature?: Feature) => any;\n interpolationFactor: ?(input: number, lower: number, upper: number) => number;\n zoomStops: ?Array<number>;\n\n constructor(parameters: PropertyValueSpecification<T>, specification: StylePropertySpecification) {\n this._parameters = parameters;\n this._specification = specification;\n extend(this, createFunction(this._parameters, this._specification));\n }\n\n static deserialize(serialized: {_parameters: PropertyValueSpecification<T>, _specification: StylePropertySpecification}) {\n return ((new StylePropertyFunction(serialized._parameters, serialized._specification)): StylePropertyFunction<T>);\n }\n\n static serialize(input: StylePropertyFunction<T>) {\n return {\n _parameters: input._parameters,\n _specification: input._specification\n };\n }\n}\n\nexport function normalizePropertyExpression<T>(value: PropertyValueSpecification<T>, specification: StylePropertySpecification): StylePropertyExpression {\n if (isFunction(value)) {\n return (new StylePropertyFunction(value, specification): any);\n\n } else if (isExpression(value)) {\n const expression = createPropertyExpression(value, specification);\n if (expression.result === 'error') {\n // this should have been caught in validation\n throw new Error(expression.value.map(err => `${err.key}: ${err.message}`).join(', '));\n }\n return expression.value;\n\n } else {\n let constant: any = value;\n if (typeof value === 'string' && specification.type === 'color') {\n constant = Color.parse(value);\n }\n return {\n kind: 'constant',\n evaluate: () => constant\n };\n }\n}\n\n// Zoom-dependent expressions may only use [\"zoom\"] as the input to a top-level \"step\" or \"interpolate\"\n// expression (collectively referred to as a \"curve\"). The curve may be wrapped in one or more \"let\" or\n// \"coalesce\" expressions.\nfunction findZoomCurve(expression: Expression): Step | Interpolate | ParsingError | null {\n let result = null;\n if (expression instanceof Let) {\n result = findZoomCurve(expression.result);\n\n } else if (expression instanceof Coalesce) {\n for (const arg of expression.args) {\n result = findZoomCurve(arg);\n if (result) {\n break;\n }\n }\n\n } else if ((expression instanceof Step || expression instanceof Interpolate)

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

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otherwise.\n    const functionType = getFunctionType({}, propertySpec);\n    if (functionType === 'exponential') {\n
    const expression = [getInterpolateOperator(parameters), ['linear'], ['zoom']];\n\n        for (const z of zoomStops)
{\n            const output = convertPropertyFunction(featureFunctionParameters[z], propertySpec,
featureFunctionStops[z]);\n            appendStopPair(expression, z, output, false);\n        }\n\n        return expression;\n
  } else {\n        const expression = ['step', ['zoom']];\n\n        for (const z of zoomStops) {\n            const output =
convertPropertyFunction(featureFunctionParameters[z], propertySpec, featureFunctionStops[z]);\n
appendStopPair(expression, z, output, true);\n        }\n\n        fixupDegenerateStepCurve(expression);\n\n        return
expression;\n    }\n}\n\nfunction coalesce(a, b) {\n    if (a !== undefined) return a;\n    if (b !== undefined) return
b;\n}\n\nfunction convertPropertyFunction(parameters, propertySpec, stops) {\n    const type =
getFunctionType(parameters, propertySpec);\n    const get = ['get', parameters.property];\n    if (type ===
'categorical' && typeof stops[0][0] === 'boolean') {\n        assert(parameters.stops.length > 0 &&
parameters.stops.length <= 2);\n        const expression = ['case'];\n        for (const stop of stops) {\n
expression.push(['==', get, stop[0]], stop[1]);\n        }\n
expression.push(convertLiteral(coalesce(parameters.default, propertySpec.default)));\n        return expression;\n    }
else if (type === 'categorical') {\n        const expression = ['match', get];\n        for (const stop of stops) {\n
appendStopPair(expression, stop[0], stop[1], false);\n        }\n
expression.push(convertLiteral(coalesce(parameters.default, propertySpec.default)));\n        return expression;\n    }
else if (type === 'interval') {\n        const expression = ['step', ['number', get]];\n        for (const stop of stops) {\n
   appendStopPair(expression, stop[0], stop[1], true);\n        }\n        fixupDegenerateStepCurve(expression);\n
return parameters.default === undefined ? expression : [\n            'case',\n            ['==', ['typeof', get], 'number'],\n
    expression,\n            convertLiteral(parameters.default)\n        ];\n    } else if (type === 'exponential') {\n
const base = parameters.base !== undefined ? parameters.base : 1;\n        const expression = [\n
getInterpolateOperator(parameters),\n            base === 1 ? [\"linear\"] : [\"exponential\", base],\n            [\"number\",
get]\n        ];\n\n        for (const stop of stops) {\n            appendStopPair(expression, stop[0], stop[1], false);\n
}\n        return parameters.default === undefined ? expression : [\n            'case',\n            ['==', ['typeof', get],
'number'],\n            expression,\n            convertLiteral(parameters.default)\n        ];\n    } else {\n        throw new
Error(`Unknown property function type ${type}`);\n    }\n}\n\nfunction convertZoomFunction(parameters,
propertySpec, stops, input = ['zoom']) {\n    const type = getFunctionType(parameters, propertySpec);\n    let
expression;\n    let isStep = false;\n    if (type === 'interval') {\n        expression = ['step', input];\n        isStep =
true;\n    } else if (type === 'exponential') {\n        const base = parameters.base !== undefined ? parameters.base :
1;\n        expression = [getInterpolateOperator(parameters), base === 1 ? [\"linear\"] : [\"exponential\", base],
input];\n\n    } else {\n        throw new Error(`Unknown zoom function type \"${type}\"`);\n    }\n\n    for (const stop
of stops) {\n        appendStopPair(expression, stop[0], stop[1], isStep);\n    }\n\n
fixupDegenerateStepCurve(expression);\n\n    return expression;\n}\n\nfunction
fixupDegenerateStepCurve(expression) {\n    // degenerate step curve (i.e. a constant function): add a noop stop\n
if (expression[0] === 'step' && expression.length === 3) {\n        expression.push(0);\n
expression.push(expression[3]);\n    }\n}\n\nfunction appendStopPair(curve, input, output, isStep) {\n    // Skip
duplicate stop values. They were not validated for functions, but they are for expressions.\n    //
https://github.com/mapbox/mapbox-gl-js/issues/4107\n    if (curve.length > 3 && input === curve[curve.length - 2])
{\n        return;\n    }\n    // step curves don't get the first input value, as it is redundant.\n    if (!(isStep &&
curve.length === 2)) {\n        curve.push(input);\n    }\n    curve.push(output);\n}\n\nfunction
getFunctionType(parameters, propertySpec) {\n    if (parameters.type) {\n        return parameters.type;\n    } else {\n
    assert(propertySpec.expression);\n        return (propertySpec.expression: any).interpolated ? 'exponential' :
'interval';\n    }\n}\n\n// \"String with {name} token\" => [\"concat\", \"String with \", [\"get\", \"name\"], \"
token\"]\nexport function convertTokenString(s: string) {\n    const result = ['concat'];\n    const re = /{([^{}]+)}/g;\n
  let pos = 0;\n    for (let match = re.exec(s); match !== null; match = re.exec(s)) {\n        const literal = s.slice(pos,
re.lastIndex - match[0].length);\n        pos = re.lastIndex;\n        if (literal.length > 0) result.push(literal);\n
result.push(['get', match[1]]);\n    }\n\n    if (result.length === 1) {\n        return s;\n    }\n\n    if (pos < s.length) {\n
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result.push(s.slice(pos));\n } else if (result.length === 2) {\n return ['to-string', result[1]];\n }\n\n return result;\n}\n\n","// @flow\n\nimport {createExpression} from '../expression';\nimport type {GlobalProperties, Feature} from '../expression';\nimport type {CanonicalTileID} from '../../source/tile_id';\n\ntype FilterExpression = (globalProperties: GlobalProperties, feature: Feature, canonical?: CanonicalTileID) => boolean;\nexport type FeatureFilter ={filter: FilterExpression, needGeometry: boolean};\n\nexport default createFilter;\nexport {isExpressionFilter};\n\nfunction isExpressionFilter(filter: any) {\n if (filter === true || filter === false) {\n return true;\n }\n\n if (!Array.isArray(filter) || filter.length === 0) {\n return false;\n }\n switch (filter[0]) {\n case 'has':\n return filter.length >= 2 && filter[1] !== '$id' && filter[1] !== '$type';\n\n case 'in':\n return filter.length >= 3 && (typeof filter[1] !== 'string' || Array.isArray(filter[2]));\n\n case '!in':\n case '!has':\n case 'none':\n return false;\n\n case '==':\n case '!=':\n case '>':\n case '>=':\n case '<':\n case '<=':\n return filter.length !== 3 || (Array.isArray(filter[1]) || Array.isArray(filter[2]));\n\n case 'any':\n case 'all':\n for (const f of filter.slice(1)) {\n if (!isExpressionFilter(f) && typeof f !== 'boolean') {\n return false;\n }\n }\n return true;\n\n default:\n return true;\n }\n}\n\nconst filterSpec = {\n 'type': 'boolean',\n 'default': false,\n 'transition': false,\n 'property-type': 'data-driven',\n 'expression': {\n 'interpolated': false,\n 'parameters': ['zoom', 'feature']\n }\n};\n\n/**\n * Given a filter expressed as nested arrays, return a new function\n * that evaluates whether a given feature (with a .properties or .tags property)\n * passes its test.\n *\n * @private\n * @param {Array} filter mapbox gl filter\n * @returns {Function} filter-evaluating function\n */\nfunction createFilter(filter: any): FeatureFilter {\n if (filter === null || filter === undefined) {\n return {filter: () => true, needGeometry: false};\n }\n\n if (!isExpressionFilter(filter)) {\n filter = convertFilter(filter);\n }\n\n const compiled = createExpression(filter, filterSpec);\n if (compiled.result === 'error') {\n throw new Error(compiled.value.map(err => `${err.key}: ${err.message}`).join(', '));\n } else {\n const needGeometry = Array.isArray(filter) && filter.length !== 0 && filter[0] === 'within';\n return {filter: (globalProperties: GlobalProperties, feature: Feature, canonical?: CanonicalTileID) => compiled.value.evaluate(globalProperties, feature, {}, canonical),\n needGeometry};\n }\n}\n\n// Comparison function to sort numbers and strings\nfunction compare(a, b) {\n return a < b ? -1 : a > b ? 1 : 0;\n}\n\nfunction convertFilter(filter: ?Array<any>): mixed {\n if (!filter) return true;\n const op = filter[0];\n if (filter.length <= 1) return (op !== 'any');\n const converted =\n op === '==' ? convertComparisonOp(filter[1], filter[2], '==') :\n op === '!=' ? convertNegation(convertComparisonOp(filter[1], filter[2], '==')) :\n op === '<' ||\n op === '>' ||\n op === '<=' ||\n op === '>=' ? convertComparisonOp(filter[1], filter[2], op) :\n op === 'any' ? convertDisjunctionOp(filter.slice(1)) :\n op === 'all' ? ['all'].concat(filter.slice(1).map(convertFilter)) :\n op === 'none' ? ['all'].concat(filter.slice(1).map(convertFilter).map(convertNegation)) :\n op === 'in' ? convertInOp(filter[1], filter.slice(2)) :\n op === '!in' ? convertNegation(convertInOp(filter[1], filter.slice(2))) :\n op === 'has' ? convertHasOp(filter[1]) :\n op === '!has' ? convertNegation(convertHasOp(filter[1])) :\n true;\n return converted;\n}\n\nfunction convertComparisonOp(property: string, value: any, op: string) {\n switch (property) {\n case '$type':\n return [`filter-type-${op}`, value];\n case '$id':\n return [`filter-id-${op}`, value];\n default:\n return [`filter-${op}`, property, value];\n }\n}\n\nfunction convertDisjunctionOp(filters: Array<Array<any>>) {\n return ['any'].concat(filters.map(convertFilter));\n}\n\nfunction convertInOp(property: string, values: Array<any>) {\n if (values.length === 0) { return false; }\n switch (property) {\n case '$type':\n return [`filter-type-in`, ['literal', values]];\n case '$id':\n return [`filter-id-in`, ['literal', values]];\n default:\n if (values.length > 200 && !values.some(v => typeof v !== typeof values[0])) {\n return ['filter-in-large', property, ['literal', values.sort(compare)]];\n } else {\n return ['filter-in-small', property, ['literal', values]];\n }\n }\n}\n\nfunction convertHasOp(property: string) {\n switch (property) {\n case '$type':\n return true;\n case '$id':\n return [`filter-has-id`];\n default:\n return [`filter-has`, property];\n }\n}\n\nfunction convertNegation(filter: mixed) {\n return ['!', filter];\n}\n","// @flow\n\nimport {isExpressionFilter} from './index';\n\nimport type {FilterSpecification} from '../types';\n\ntype ExpectedTypes = {[_: string]: 'string' | 'number' | 'boolean'};\n\n/**\n * Convert the given legacy filter to (the JSON representation of) an\n * equivalent expression\n * @private\n */\nexport default function convertFilter(filter: FilterSpecification): mixed {\n   return _convertFilter(filter, {});\n}\n\n/*\n * Convert the given filter to an expression, storing the expected types for\n * any feature properties referenced in expectedTypes.\n *\n * These expected types are needed in order to construct preflight type checks\n * needed for handling 'any' filters. A preflight type check is necessary in\n * order to mimic legacy filters' semantics around expected type mismatches.\n * For example, consider the legacy filter:\n *\n * [\"any\", [\"all\", [\">\", \"y\", 0], [\">\", \"y\", 0]], [\">\", \"x\", 0]]\n *\n * Naively, we might convert this to the expression:\n *\n *   [\"any\", [\"all\", [\">\", [\"get\", \"y\"], 0], [\">\", [\"get\", \"z\"], 0]], [\">\", [\"get\", \"x\"], 0]]\n *\n * But if we tried to evaluate this against, say `{x: 1, y: null, z: 0}`, the\n * [\">\", [\"get\", \"y\"], 0] would cause an evaluation error, leading to the\n * entire filter returning false. Legacy filter semantics, though, ask for\n * [\">\", \"y\", 0] to simply return `false` when `y` is of the wrong type,\n * allowing the subsequent terms of the outer \"any\" expression to be evaluated\n * (resulting, in this case, in a `true` value, because x > 0).\n *\n * We account for this by inserting a preflight type-checking expression before\n * each \"any\" term, allowing us to avoid evaluating the actual converted filter\n * if any type mismatches would cause it to produce an evalaution error:\n *\n *   [\"any\",\n *   [\"case\",\n *   [\"all\", [\"==\", [\"typeof\", [\"get\", \"y\"]], \"number\"], [\"==\", [\"typeof\", [\"get\", \"z\"], \"number]],\n *   [\"all\", [\">\", [\"get\", \"y\"], 0], [\">\", [\"get\", \"z\"], 0]],\n *   false\n *   ],\n *   [\"case\",\n *   [\"==\", [\"typeof\", [\"get\", \"x\"], \"number\"]],\n *   [\">\", [\"get\", \"x\"], 0],\n *   false\n *   ]\n *   ]\n *\n * An alternative, possibly more direct approach would be to use type checks\n * in the conversion of each comparison operator, so that the converted version\n * of each individual ==, >=, etc. would mimic the legacy filter semantics. The\n * downside of this approach is that it can lead to many more type checks than\n * would otherwise be necessary: outside the context of an \"any\" expression,\n * bailing out due to a runtime type error (expression semantics) and returning\n * false (legacy filter semantics) are equivalent: they cause the filter to\n * produce a `false` result.\n */\nfunction _convertFilter(filter: FilterSpecification, expectedTypes: ExpectedTypes): mixed {\n   if (isExpressionFilter(filter)) { return filter; }\n\n   if (!filter) return true;\n   const op = filter[0];\n   if (filter.length <= 1) return (op !== 'any');\n\n   let converted;\n\n   if (\n   op === '==' ||\n   op === '!=' ||\n   op === '<' ||\n   op === '>' ||\n   op === '<=' ||\n   op === '>='\n   ) {\n   const [, property, value] = (filter: any);\n   converted = convertComparisonOp(property, value, op, expectedTypes);\n   } else if (op === 'any') {\n   const children = (filter: any).slice(1).map(f => {\n   const types = {};\n   const child = _convertFilter(f, types);\n   const typechecks = runtimeTypeChecks(types);\n   return typechecks === true ? child : ['case', typechecks, child, false];\n   });\n   return ['any'].concat(children);\n   } else if (op === 'all') {\n   const children = (filter: any).slice(1).map(f => _convertFilter(f, expectedTypes));\n   return children.length > 1 ? ['all'].concat(children) : [].concat(...children);\n   } else if (op === 'none') {\n   return ['!', _convertFilter(['any'].concat(filter.slice(1)), {})];\n   } else if (op === 'in') {\n   converted = convertInOp((filter[1]: any), filter.slice(2));\n   } else if (op === '!in') {\n   converted = convertInOp((filter[1]: any), filter.slice(2), true);\n   } else if (op === 'has') {\n   converted = convertHasOp((filter[1]: any));\n   } else if (op === '!has') {\n   converted = ['!', convertHasOp((filter[1]: any))];\n   } else {\n   converted = true;\n   }\n\n   return converted;\n}\n\n// Given a set of feature properties and an expected type for each one,\n// construct an boolean expression that tests whether each property has the\n// right type.\n// E.g.: for {name: 'string', population: 'number'}, return\n// ['all',\n//   ['==', ['typeof', ['get', 'name'], 'string']],\n//   ['==', ['typeof', ['get', 'population'], 'number]]\n//]\nfunction runtimeTypeChecks(expectedTypes: ExpectedTypes) {\n   const conditions = [];\n   for (const property in expectedTypes) {\n   const get = property === '$id' ? ['id'] : ['get', property];\n   conditions.push(['==', ['typeof', get], expectedTypes[property]]);\n   }\n   if (conditions.length === 0) return true;\n   if (conditions.length === 1) return conditions[0];\n   return ['all'].concat(conditions);\n}\n\nfunction convertComparisonOp(property: string, value: any, op: string, expectedTypes: ?ExpectedTypes) {\n   let get;\n   if (property === '$type') {\n   return [op, ['geometry-type'], value];\n   } else if (property === '$id') {\n   get = ['id'];\n   } else {\n   get = ['get', property];\n   }\n\n   if (expectedTypes && value !== null) {\n   const type = ((typeof value): any);\n   expectedTypes[property] = type;\n   }\n\n   if (op === '==' && property !== '$id' && value === null) {\n   return [\n   'all',\n   ['has', property], // missing property != null for legacy filters\n   ['==', get, null]\n   ];\n   } else if (op === '!=' && property !== '$id' && value === null) {\n   return [\n 'any',\n ['!', ['has', property]], // missing property != null for legacy filters\n ['!=', get, null]\n];\n }\n\n return [op, get, value];\n}\n\nfunction convertInOp(property: string, values: Array<any>, negate = false) {\n if (values.length === 0) return negate;\n\n let get;\n if (property === '$type') {\n get = ['geometry-type'];\n } else if (property === '$id') {\n get = ['id'];\n } else {\n get = ['get', property];\n }\n\n // Determine if the list of values to be searched is homogenously typed.\n // If so (and if the type is string or number), then we can use a\n // [match, input, [...values], true, false] construction rather than a\n // bunch of `==` tests.\n let uniformTypes = true;\n const type = typeof values[0];\n for (const value of values) {\n if (typeof value !== type) {\n uniformTypes = false;\n break;\n }\n }\n\n if (uniformTypes && (type === 'string' || type === 'number')) {\n // Match expressions must have unique values.\n const uniqueValues = values.sort().filter((v, i) => i === 0 || values[i - 1] !== v);\n return ['match', get, uniqueValues, !negate, negate];\n }\n\n return [negate ? 'all' : 'any'].concat(\n values.map(v => [negate ? '!=' : '==', get, v])\n);\n}\n\nfunction convertHasOp(property: string) {\n if (property === '$type') {\n return true;\n } else if (property === '$id') {\n return ['!=', ['id'], null];\n } else {\n return ['has', property];\n }\n}\n","// @flow\n\nimport {\n eachLayer,\n eachProperty\n} from '../visit';\nimport {isExpression} from '../expression';\nimport convertFunction, {convertTokenString} from '../function/convert';\nimport convertFilter from '../feature_filter/convert';\n\nimport type {StyleSpecification} from '../types';\n\n/**\n * Migrate the given style object in place to use expressions. Specifically,\n * this will convert (a) \"stop\" functions, and (b) legacy filters to their\n * expression equivalents.\n */\nexport default function(style: StyleSpecification) {\n const converted = [];\n\n eachLayer(style, (layer) => {\n if (layer.filter) {\n layer.filter = (convertFilter(layer.filter): any);\n }\n });\n\n eachProperty(style, {paint: true, layout: true}, ({path, value, reference, set}) => {\n if (isExpression(value)) return;\n if (typeof value === 'object' && !Array.isArray(value)) {\n set(convertFunction(value, reference));\n converted.push(path.join('.'));\n } else if (reference.tokens && typeof value === 'string') {\n set(convertTokenString(value));\n }\n });\n\n return style;\n}\n\n","\nimport migrateToV8 from './migrate/v8';\nimport migrateToExpressions from './migrate/expressions';\n\n/**\n * Migrate a Mapbox GL Style to the latest version.\n *\n * @private\n * @alias migrate\n * @param {object} style a Mapbox GL Style\n * @returns {Object} a migrated style\n * @example\n * var fs = require('fs');\n * var migrate = require('mapbox-gl-style-spec').migrate;\n * var style = fs.readFileSync('./style.json', 'utf8');\n * fs.writeFileSync('./style.json', JSON.stringify(migrate(style)));\n */\nexport default function(style) {\n let migrated = false;\n\n if (style.version === 7) {\n style = migrateToV8(style);\n migrated = true;\n }\n\n if (style.version === 8) {\n migrated = migrateToExpressions(style);\n migrated = true;\n }\n\n if (!migrated) {\n throw new Error('cannot migrate from', style.version);\n }\n\n return style;\n}\n","\nexport default function (style) {\n const styleIDs = [];\n const sourceIDs = [];\n const compositedSourceLayers = [];\n\n for (const id in style.sources) {\n const source = style.sources[id];\n\n if (source.type !== \"vector\")\n continue;\n\n const match = /^mapbox:\/\/(.*)/.exec(source.url);\n if (!match)\n continue;\n\n styleIDs.push(id);\n sourceIDs.push(match[1]);\n }\n\n if (styleIDs.length < 2)\n return style;\n\n styleIDs.forEach((id) => {\n delete style.sources[id];\n });\n\n const compositeID = sourceIDs.join(\",\");\n\n style.sources[compositeID] = {\n \"type\": \"vector\",\n \"url\": `mapbox://${compositeID}`\n };\n\n style.layers.forEach((layer) => {\n if (styleIDs.indexOf(layer.source) >= 0) {\n layer.source = compositeID;\n\n if ('source-layer' in layer) {\n if (compositedSourceLayers.indexOf(layer['source-layer']) >= 0) {\n throw new Error('Conflicting source layer names');\n } else {\n compositedSourceLayers.push(layer['source-layer']);\n }\n }\n }\n });\n\n return style;\n}\n","\nexport default ['type', 'source', 'source-layer', 'minzoom', 'maxzoom', 'filter', 'layout'];\n","\nimport refProperties from './util/ref_properties';\n\nfunction deref(layer, parent) {\n const result = {};\n\n for (const k in layer) {\n if (k !== 'ref') {\n result[k] = layer[k];\n }\n }\n\n refProperties.forEach((k) => {\n if (k in parent) {\n result[k] = parent[k];\n }\n });\n\n return result;\n}\n\nexport default derefLayers;\n\n/**\n * Given an array of layers, some of which may contain `ref` properties\n * whose value is the `id` of another property, return a new array where\n * such layers have been augmented with the 'type', 'source', etc.

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

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commands.push({command: operations.setGeoJSONSourceData, args: [sourceId, after[sourceId].data]});\n            }
else {\n                // no update command, must remove then add\n                updateSource(sourceId, after, commands,
sourcesRemoved);\n            }\n        }\n    }\n}\n\nfunction diffLayerPropertyChanges(before, after, commands,
layerId, klass, command) {\n    before = before || {};\n    after = after || {};\n\n    let prop;\n\n    for (prop in before)
{\n        if (!before.hasOwnProperty(prop)) continue;\n        if (!isEqual(before[prop], after[prop])) {\n
commands.push({command, args: [layerId, prop, after[prop], klass]});\n        }\n    }\n    for (prop in after) {\n        if
(!after.hasOwnProperty(prop) || before.hasOwnProperty(prop)) continue;\n        if (!isEqual(before[prop],
after[prop])) {\n            commands.push({command, args: [layerId, prop, after[prop], klass]});\n        }\n
}\n}\n\nfunction pluckId(layer) {\n    return layer.id;\n}\nfunction indexById(group, layer) {\n    group[layer.id] =
layer;\n    return group;\n}\n\nfunction diffLayers(before, after, commands) {\n    before = before || [];\n    after =
after || [];\n\n    // order of layers by id\n    const beforeOrder = before.map(pluckId);\n    const afterOrder =
after.map(pluckId);\n\n    // index of layer by id\n    const beforeIndex = before.reduce(indexById, {});\n    const
afterIndex = after.reduce(indexById, {});\n\n    // track order of layers as if they have been mutated\n    const tracker
= beforeOrder.slice();\n\n    // layers that have been added do not need to be diffed\n    const clean =
Object.create(null);\n\n    let i, d, layerId, beforeLayer, afterLayer, insertBeforeLayerId, prop;\n\n    // remove
layers\n    for (i = 0, d = 0; i < beforeOrder.length; i++) {\n        layerId = beforeOrder[i];\n        if
(!afterIndex.hasOwnProperty(layerId)) {\n            commands.push({command: operations.removeLayer, args:
[layerId]});\n            tracker.splice(tracker.indexOf(layerId, d), 1);\n        } else {\n            // limit where in tracker
we need to look for a match\n            d++;\n        }\n    }\n\n    // add/reorder layers\n    for (i = 0, d = 0; i <
afterOrder.length; i++) {\n        // work backwards as insert is before an existing layer\n        layerId =
afterOrder[afterOrder.length - 1 - i];\n\n        if (tracker[tracker.length - 1 - i] === layerId) continue;\n\n        if
(beforeIndex.hasOwnProperty(layerId)) {\n            // remove the layer before we insert at the correct position\n
 commands.push({command: operations.removeLayer, args: [layerId]});\n
tracker.splice(tracker.lastIndexOf(layerId, tracker.length - d), 1);\n        } else {\n            // limit where in tracker we
need to look for a match\n            d++;\n        }\n\n        // add layer at correct position\n        insertBeforeLayerId =
tracker[tracker.length - i];\n        commands.push({command: operations.addLayer, args: [afterIndex[layerId],
insertBeforeLayerId]});\n        tracker.splice(tracker.length - i, 0, layerId);\n        clean[layerId] = true;\n    }\n\n    //
update layers\n    for (i = 0; i < afterOrder.length; i++) {\n        layerId = afterOrder[i];\n        beforeLayer =
beforeIndex[layerId];\n        afterLayer = afterIndex[layerId];\n\n        // no need to update if previously added (new
or moved)\n        if (clean[layerId] || isEqual(beforeLayer, afterLayer)) continue;\n\n        // If source, source-layer,
or type have changes, then remove the layer\n        // and add it back 'from scratch'.\n        if
(!isEqual(beforeLayer.source, afterLayer.source) || !isEqual(beforeLayer['source-layer'], afterLayer['source-layer']) ||
!isEqual(beforeLayer.type, afterLayer.type)) {\n            commands.push({command: operations.removeLayer, args:
[layerId]});\n            // we add the layer back at the same position it was already in, so\n            // there's no need to
update the `tracker`\n            insertBeforeLayerId = tracker[tracker.lastIndexOf(layerId) + 1];\n
commands.push({command: operations.addLayer, args: [afterLayer, insertBeforeLayerId]});\n            continue;\n
 }\n\n        // layout, paint, filter, minzoom, maxzoom\n        diffLayerPropertyChanges(beforeLayer.layout,
afterLayer.layout, commands, layerId, null, operations.setLayoutProperty);\n
diffLayerPropertyChanges(beforeLayer.paint, afterLayer.paint, commands, layerId, null,
operations.setPaintProperty);\n        if (!isEqual(beforeLayer.filter, afterLayer.filter)) {\n
commands.push({command: operations.setFilter, args: [layerId, afterLayer.filter]});\n        }\n        if
(!isEqual(beforeLayer.minzoom, afterLayer.minzoom) || !isEqual(beforeLayer.maxzoom, afterLayer.maxzoom)) {\n
         commands.push({command: operations.setLayerZoomRange, args: [layerId, afterLayer.minzoom,
afterLayer.maxzoom]});\n        }\n\n        // handle all other layer props, including paint.*\n        for (prop in
beforeLayer) {\n            if (!beforeLayer.hasOwnProperty(prop)) continue;\n            if (prop === 'layout' || prop ===
'paint' || prop === 'filter' ||\n                prop === 'metadata' || prop === 'minzoom' || prop === 'maxzoom') continue;\n
        if (prop.indexOf('paint.') === 0) {\n                diffLayerPropertyChanges(beforeLayer[prop], afterLayer[prop],
commands, layerId, prop.slice(6), operations.setPaintProperty);\n            } else if (!isEqual(beforeLayer[prop],
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afterLayer[prop])) {\n   commands.push({command: operations.setLayerProperty, args: [layerId, prop, afterLayer[prop]]});\n   }\n   }\n   for (prop in afterLayer) {\n   if (!afterLayer.hasOwnProperty(prop) || beforeLayer.hasOwnProperty(prop)) continue;\n   if (prop === 'layout' || prop === 'paint' || prop === 'filter' ||\n   prop === 'metadata' || prop === 'minzoom' || prop === 'maxzoom') continue;\n   if (prop.indexOf('paint.') === 0) {\n   diffLayerPropertyChanges(beforeLayer[prop], afterLayer[prop], commands, layerId, prop.slice(6), operations.setPaintProperty);\n   } else if (!isEqual(beforeLayer[prop], afterLayer[prop])) {\n   commands.push({command: operations.setLayerProperty, args: [layerId, prop, afterLayer[prop]]});\n   }\n   }\n   }\n}\n\n/**\n * Diff two stylesheet\n *\n * Creates semanticly aware diffs that can easily be applied at runtime.\n * Operations produced by the diff closely resemble the mapbox-gl-js API. Any\n * error creating the diff will fall back to the 'setStyle' operation.\n *\n * Example diff:\n * [\n *   { command: 'setConstant', args: ['@water', '#0000FF'] },\n *   { command: 'setPaintProperty', args: ['background', 'background-color', 'black'] }\n *]\n *\n * @private\n * @param {*} [before] stylesheet to compare from\n * @param {*} after stylesheet to compare to\n * @returns Array list of changes\n */\nfunction diffStyles(before, after) {\n   if (!before) return [{command: operations.setStyle, args: [after]}];\n\n   let commands = [];\n\n   try {\n   // Handle changes to top-level properties\n   if (!isEqual(before.version, after.version)) {\n   return [{command: operations.setStyle, args: [after]}];\n   }\n   if (!isEqual(before.center, after.center)) {\n   commands.push({command: operations.setCenter, args: [after.center]});\n   }\n   if (!isEqual(before.zoom, after.zoom)) {\n   commands.push({command: operations.setZoom, args: [after.zoom]});\n   }\n   if (!isEqual(before.bearing, after.bearing)) {\n   commands.push({command: operations.setBearing, args: [after.bearing]});\n   }\n   if (!isEqual(before.pitch, after.pitch)) {\n   commands.push({command: operations.setPitch, args: [after.pitch]});\n   }\n   if (!isEqual(before.sprite, after.sprite)) {\n   commands.push({command: operations.setSprite, args: [after.sprite]});\n   }\n   if (!isEqual(before.glyphs, after.glyphs)) {\n   commands.push({command: operations.setGlyphs, args: [after.glyphs]});\n   }\n   if (!isEqual(before.transition, after.transition)) {\n   commands.push({command: operations.setTransition, args: [after.transition]});\n   }\n   if (!isEqual(before.light, after.light)) {\n   commands.push({command: operations.setLight, args: [after.light]});\n   }\n\n   // Handle changes to `sources`\n   // If a source is to be removed, we also--before the removeSource\n   // command--need to remove all the style layers that depend on it.\n   const sourcesRemoved = {};\n\n   // First collect the {add,remove}Source commands\n   const removeOrAddSourceCommands = [];\n   diffSources(before.sources, after.sources, removeOrAddSourceCommands, sourcesRemoved);\n\n   // Push a removeLayer command for each style layer that depends on a\n   // source that's being removed.\n   // Also, exclude any such layers them from the input to `diffLayers`\n   // below, so that diffLayers produces the appropriate `addLayers`\n   // command\n   const beforeLayers = [];\n   if (before.layers) {\n   before.layers.forEach((layer) => {\n   if (sourcesRemoved[layer.source]) {\n   commands.push({command: operations.removeLayer, args: [layer.id]});\n   } else {\n   beforeLayers.push(layer);\n   }\n   });\n   }\n   commands = commands.concat(removeOrAddSourceCommands);\n\n   // Handle changes to `layers`\n   diffLayers(beforeLayers, after.layers, commands);\n\n   } catch (e) {\n   // fall back to setStyle\n   console.warn('Unable to compute style diff:', e);\n   commands = [{command: operations.setStyle, args: [after]}];\n   }\n\n   return commands;\n}\n\nexport default diffStyles;\nexport {operations};\n","// @flow\n\n// Note: Do not inherit from Error. It breaks when transpiling to ES5.\n\nexport default class ValidationError {\n   message: string;\n   identifier: ?string;\n   line: ?number;\n\n   constructor(key: ?string, value: ?{ __line__: number }, message: string, identifier: ?string) {\n   this.message = (key ? `${key}: ` : '') + message;\n   if (identifier) this.identifier = identifier;\n\n   if (value !== null && value !== undefined && value.__line__) {\n   this.line = value.__line__;\n   }\n   }\n}\n","// @flow\n\n// Note: Do not inherit from Error. It breaks when transpiling to ES5.\n\nexport default class ParsingError {\n   message: string;\n   error: Error;\n   line: number;\n\n   constructor(error: Error) {\n   this.error = error;\n   this.message = error.message;\n   const match = error.message.match(/line (\\d+)/);\n   this.line = match ? parseInt(match[1], 10) : 0;\n   }\n}\n","\nimport

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ValidationError from '../error/validation_error';\n\nexport default function validateConstants(options) {\n    const
key = options.key;\n    const constants = options.value;\n\n    if (constants) {\n        return [new ValidationError(key,
constants, 'constants have been deprecated as of v8')];\n    } else {\n        return [];\n    }\n}\n","// @flow\n\n// Turn
jsonlint-lines-primitives objects into primitive objects\nexport function unbundle(value: mixed) {\n    if (value
instanceof Number || value instanceof String || value instanceof Boolean) {\n        return value.valueOf();\n    } else
{\n        return value;\n    }\n}\n\nexport function deepUnbundle(value: mixed): mixed {\n    if
(Array.isArray(value)) {\n        return value.map(deepUnbundle);\n    } else if (value instanceof Object && !(value
instanceof Number || value instanceof String || value instanceof Boolean)) {\n        const unbundledValue: { [key:
string]: mixed } = {};\n        for (const key in value) {\n            unbundledValue[key] =
deepUnbundle(value[key]);\n        }\n        return unbundledValue;\n    }\n\n    return
unbundle(value);\n}\n","\nimport ValidationError from '../error/validation_error';\nimport getType from
'../util/get_type';\nimport validateSpec from './validate';\n\nexport default function validateObject(options) {\n
const key = options.key;\n    const object = options.value;\n    const elementSpecs = options.valueSpec || {};\n
const elementValidators = options.objectElementValidators || {};\n    const style = options.style;\n    const styleSpec
= options.styleSpec;\n    let errors = [];\n\n    const type = getType(object);\n    if (type !== 'object') {\n        return
[new ValidationError(key, object, `object expected, ${type} found`)];\n    }\n\n    for (const objectKey in object) {\n
    const elementSpecKey = objectKey.split('.')[0]; // treat 'paint.*' as 'paint'\n        const elementSpec =
elementSpecs[elementSpecKey] || elementSpecs['*'];\n\n        let validateElement;\n        if
(elementValidators[elementSpecKey]) {\n            validateElement = elementValidators[elementSpecKey];\n        }
else if (elementSpecs[elementSpecKey]) {\n            validateElement = validateSpec;\n        } else if
(elementValidators['*']) {\n            validateElement = elementValidators['*'];\n        } else if (elementSpecs['*']) {\n
        validateElement = validateSpec;\n        } else {\n            errors.push(new ValidationError(key,
object[objectKey], `unknown property \"${objectKey}\"`));\n            continue;\n        }\n\n        errors =
errors.concat(validateElement({\n            key: (key ? `${key}.` : key) + objectKey,\n            value:
object[objectKey],\n            valueSpec: elementSpec,\n            style,\n            styleSpec,\n            object,\n
objectKey\n        }, object));\n    }\n\n    for (const elementSpecKey in elementSpecs) {\n        // Don't check
`required` when there's a custom validator for that property.\n        if (elementValidators[elementSpecKey]) {\n
 continue;\n        }\n\n        if (elementSpecs[elementSpecKey].required &&
elementSpecs[elementSpecKey]['default'] === undefined && object[elementSpecKey] === undefined) {\n
errors.push(new ValidationError(key, object, `missing required property \"${elementSpecKey}\"`));\n        }\n
}\n\n    return errors;\n}\n","\nimport getType from '../util/get_type';\nimport validate from './validate';\nimport
ValidationError from '../error/validation_error';\n\nexport default function validateArray(options) {\n    const array =
options.value;\n    const arraySpec = options.valueSpec;\n    const style = options.style;\n    const styleSpec =
options.styleSpec;\n    const key = options.key;\n    const validateArrayElement = options.arrayElementValidator ||
validate;\n\n    if (getType(array) !== 'array') {\n        return [new ValidationError(key, array, `array expected,
${getType(array)} found`)];\n    }\n\n    if (arraySpec.length && array.length !== arraySpec.length) {\n        return
[new ValidationError(key, array, `array length ${arraySpec.length} expected, length ${array.length} found`)];\n
}\n\n    if (arraySpec['min-length'] && array.length < arraySpec['min-length']) {\n        return [new
ValidationError(key, array, `array length at least ${arraySpec['min-length']} expected, length ${array.length}
found`)];\n    }\n\n    let arrayElementSpec = {\n        \"type\": arraySpec.value,\n        \"values\": arraySpec.values\n
 };\n\n    if (styleSpec.$version < 7) {\n        arrayElementSpec.function = arraySpec.function;\n    }\n\n    if
(getType(arraySpec.value) === 'object') {\n        arrayElementSpec = arraySpec.value;\n    }\n\n    let errors = [];\n
for (let i = 0; i < array.length; i++) {\n        errors = errors.concat(validateArrayElement({\n            array,\n
arrayIndex: i,\n            value: array[i],\n            valueSpec: arrayElementSpec,\n            style,\n            styleSpec,\n
      key: `${key}[${i}]`\n        }));\n    }\n    return errors;\n}\n","\nimport getType from '../util/get_type';\nimport
ValidationError from '../error/validation_error';\n\nexport default function validateNumber(options) {\n    const key
= options.key;\n    const value = options.value;\n    const valueSpec = options.valueSpec;\n    let type =
getType(value);\n\n    // eslint-disable-next-line no-self-compare\n    if (type === 'number' && value !== value) {\n
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    type = 'NaN';\n    }\n\n    if (type !== 'number') {\n        return [new ValidationError(key, value, `number
expected, ${type} found`)];\n    }\n\n    if ('minimum' in valueSpec && value < valueSpec.minimum) {\n        return
[new ValidationError(key, value, `${value} is less than the minimum value ${valueSpec.minimum}`)];\n    }\n\n
if ('maximum' in valueSpec && value > valueSpec.maximum) {\n        return [new ValidationError(key, value,
`${value} is greater than the maximum value ${valueSpec.maximum}`)];\n    }\n\n    return [];\n}\n","\nimport
ValidationError from '../error/validation_error';\nimport getType from '../util/get_type';\nimport validate from
'./validate';\nimport validateObject from './validate_object';\nimport validateArray from './validate_array';\nimport
validateNumber from './validate_number';\nimport {isExpression} from '../expression';\nimport {unbundle,
deepUnbundle} from '../util/unbundle_jsonlint';\nimport {\n    supportsPropertyExpression,\n
supportsZoomExpression,\n    supportsInterpolation\n} from '../util/properties';\n\nexport default function
validateFunction(options) {\n    const functionValueSpec = options.valueSpec;\n    const functionType =
unbundle(options.value.type);\n    let stopKeyType;\n    let stopDomainValues = {};\n    let
previousStopDomainValue;\n    let previousStopDomainZoom;\n\n    const isZoomFunction = functionType !==
'categorical' && options.value.property === undefined;\n    const isPropertyFunction = !isZoomFunction;\n    const
isZoomAndPropertyFunction =\n        getType(options.value.stops) === 'array' &&\n
getType(options.value.stops[0]) === 'array' &&\n        getType(options.value.stops[0][0]) === 'object';\n\n    const
errors = validateObject({\n        key: options.key,\n        value: options.value,\n        valueSpec:
options.styleSpec.function,\n        style: options.style,\n        styleSpec: options.styleSpec,\n
objectElementValidators: {\n            stops: validateFunctionStops,\n            default: validateFunctionDefault\n
}\n    });\n\n    if (functionType === 'identity' && isZoomFunction) {\n        errors.push(new
ValidationError(options.key, options.value, 'missing required property \"property\"'));\n    }\n\n    if (functionType
!== 'identity' && !options.value.stops) {\n        errors.push(new ValidationError(options.key, options.value, 'missing
required property \"stops\"'));\n    }\n\n    if (functionType === 'exponential' && options.valueSpec.expression &&
!supportsInterpolation(options.valueSpec)) {\n        errors.push(new ValidationError(options.key, options.value,
'exponential functions not supported'));\n    }\n\n    if (options.styleSpec.$version >= 8) {\n        if
(isPropertyFunction && !supportsPropertyExpression(options.valueSpec)) {\n            errors.push(new
ValidationError(options.key, options.value, 'property functions not supported'));\n        } else if (isZoomFunction
&& !supportsZoomExpression(options.valueSpec)) {\n            errors.push(new ValidationError(options.key,
options.value, 'zoom functions not supported'));\n        }\n    }\n\n    if ((functionType === 'categorical' ||
isZoomAndPropertyFunction) && options.value.property === undefined) {\n        errors.push(new
ValidationError(options.key, options.value, '\"property\" property is required'));\n    }\n\n    return errors;\n\n
function validateFunctionStops(options) {\n        if (functionType === 'identity') {\n            return [new
ValidationError(options.key, options.value, 'identity function may not have a \"stops\" property')];\n        }\n\n
let errors = [];\n        const value = options.value;\n\n        errors = errors.concat(validateArray({\n            key:
options.key,\n            value,\n            valueSpec: options.valueSpec,\n            style: options.style,\n            styleSpec:
options.styleSpec,\n            arrayElementValidator: validateFunctionStop\n        }));\n\n        if (getType(value) ===
'array' && value.length === 0) {\n            errors.push(new ValidationError(options.key, value, 'array must have at
least one stop'));\n        }\n\n        return errors;\n    }\n\n    function validateFunctionStop(options) {\n        let errors
= [];\n        const value = options.value;\n        const key = options.key;\n\n        if (getType(value) !== 'array') {\n
     return [new ValidationError(key, value, `array expected, ${getType(value)} found`)];\n        }\n\n        if
(value.length !== 2) {\n            return [new ValidationError(key, value, `array length 2 expected, length
${value.length} found`)];\n        }\n\n        if (isZoomAndPropertyFunction) {\n            if (getType(value[0]) !==
'object') {\n                return [new ValidationError(key, value, `object expected, ${getType(value[0])} found`)];\n
    }\n            if (value[0].zoom === undefined) {\n                return [new ValidationError(key, value, 'object stop key
must have zoom')];\n            }\n            if (value[0].value === undefined) {\n                return [new
ValidationError(key, value, 'object stop key must have value')];\n            }\n            if (previousStopDomainZoom
&& previousStopDomainZoom > unbundle(value[0].zoom)) {\n                return [new ValidationError(key,
value[0].zoom, 'stop zoom values must appear in ascending order')];\n            }\n            if (unbundle(value[0].zoom)
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!== previousStopDomainZoom) {\n previousStopDomainZoom = unbundle(value[0].zoom);\n previousStopDomainValue = undefined;\n stopDomainValues = {};\n }\n errors = errors.concat(validateObject({\n key: `${key}[0]`,\n value: value[0],\n valueSpec: {zoom: {}},\n style: options.style,\n styleSpec: options.styleSpec,\n objectElementValidators: {zoom: validateNumber, value: validateStopDomainValue}\n }));\n } else {\n errors = errors.concat(validateStopDomainValue({\n key: `${key}[0]`,\n value: value[0],\n valueSpec: {},\n style: options.style,\n styleSpec: options.styleSpec\n }, value));\n }\n\n if (isExpression(deepUnbundle(value[1]))) {\n return errors.concat([new ValidationError(`${key}[1]`, value[1], 'expressions are not allowed in function stops.')]);\n }\n\n return errors.concat(validate({\n key: `${key}[1]`,\n value: value[1],\n valueSpec: functionValueSpec,\n style: options.style,\n styleSpec: options.styleSpec\n }));\n }\n\n function validateStopDomainValue(options, stop) {\n const type = getType(options.value);\n const value = unbundle(options.value);\n\n const reportValue = options.value !== null ? options.value : stop;\n\n if (!stopKeyType) {\n stopKeyType = type;\n } else if (type !== stopKeyType) {\n return [new ValidationError(options.key, reportValue, `${type} stop domain type must match previous stop domain type ${stopKeyType}`)];\n }\n\n if (type !== 'number' && type !== 'string' && type !== 'boolean') {\n return [new ValidationError(options.key, reportValue, 'stop domain value must be a number, string, or boolean')];\n }\n\n if (type !== 'number' && functionType !== 'categorical') {\n let message = `number expected, ${type} found`;\n if (supportsPropertyExpression(functionValueSpec) && functionType === undefined) {\n message += '\\nIf you intended to use a categorical function, specify `\"type\": \"categorical\"`.';\n }\n return [new ValidationError(options.key, reportValue, message)];\n }\n\n if (functionType === 'categorical' && type === 'number' && (!isFinite(value) || Math.floor(value) !== value)) {\n return [new ValidationError(options.key, reportValue, `integer expected, found ${value}`)];\n }\n\n if (functionType !== 'categorical' && type === 'number' && previousStopDomainValue !== undefined && value < previousStopDomainValue) {\n return [new ValidationError(options.key, reportValue, 'stop domain values must appear in ascending order')];\n } else {\n previousStopDomainValue = value;\n }\n\n if (functionType === 'categorical' && value in stopDomainValues) {\n return [new ValidationError(options.key, reportValue, 'stop domain values must be unique')];\n } else {\n stopDomainValues[value] = true;\n }\n\n return [];\n }\n\n function validateFunctionDefault(options) {\n return validate({\n key: options.key,\n value: options.value,\n valueSpec: functionValueSpec,\n style: options.style,\n styleSpec: options.styleSpec\n });\n }\n}\n","// @flow\n\nimport ValidationError from '../error/validation_error';\n\nimport {createExpression, createPropertyExpression} from '../expression';\nimport {deepUnbundle} from '../util/unbundle_jsonlint';\nimport {isStateConstant, isGlobalPropertyConstant, isFeatureConstant} from '../expression/is_constant';\n\nexport default function validateExpression(options: any): Array<ValidationError> {\n const expression = (options.expressionContext === 'property' ? createPropertyExpression : createExpression)(deepUnbundle(options.value), options.valueSpec);\n if (expression.result === 'error') {\n return expression.value.map((error) => {\n return new ValidationError(`${options.key}${error.key}`, options.value, error.message);\n });\n }\n\n const expressionObj = (expression.value: any).expression || (expression.value: any)._styleExpression.expression;\n\n if (options.expressionContext === 'property' && (options.propertyKey === 'text-font') &&\n !expressionObj.outputDefined()) {\n return [new ValidationError(options.key, options.value, `Invalid data expression for \"${options.propertyKey}\". Output values must be contained as literals within the expression.`)];\n }\n\n if (options.expressionContext === 'property' && options.propertyType === 'layout' &&\n (!isStateConstant(expressionObj))) {\n return [new ValidationError(options.key, options.value, '\"feature-state\" data expressions are not supported with layout properties.')];\n }\n\n if (options.expressionContext === 'filter' && !isStateConstant(expressionObj)) {\n return [new ValidationError(options.key, options.value, '\"feature-state\" data expressions are not supported with filters.')];\n }\n\n if (options.expressionContext && options.expressionContext.indexOf('cluster') === 0) {\n

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if (!isGlobalPropertyConstant(expressionObj, ['zoom', 'feature-state'])) {\n            return [new
ValidationError(options.key, options.value, '\"zoom\" and \"feature-state\" expressions are not supported with cluster
properties.')];\n        }\n        if (options.expressionContext === 'cluster-initial' &&
!isFeatureConstant(expressionObj)) {\n            return [new ValidationError(options.key, options.value, 'Feature data
expressions are not supported with initial expression part of cluster properties.')];\n        }\n    }\n\n    return
[];\n}\n","\nimport getType from '../util/get_type';\nimport ValidationError from '../error/validation_error';\n\nexport
default function validateBoolean(options) {\n    const value = options.value;\n    const key = options.key;\n    const
type = getType(value);\n\n    if (type !== 'boolean') {\n        return [new ValidationError(key, value, `boolean
expected, ${type} found`)];\n    }\n\n    return [];\n}\n","\nimport ValidationError from
'../error/validation_error';\nimport getType from '../util/get_type';\nimport {parseCSSColor} from
'csscolorparser';\n\nexport default function validateColor(options) {\n    const key = options.key;\n    const value =
options.value;\n    const type = getType(value);\n\n    if (type !== 'string') {\n        return [new ValidationError(key,
value, `color expected, ${type} found`)];\n    }\n\n    if (parseCSSColor(value) === null) {\n        return [new
ValidationError(key, value, `color expected, \"${value}\" found`)];\n    }\n\n    return [];\n}\n","\nimport
ValidationError from '../error/validation_error';\nimport {unbundle} from '../util/unbundle_jsonlint';\n\nexport
default function validateEnum(options) {\n    const key = options.key;\n    const value = options.value;\n    const
valueSpec = options.valueSpec;\n    const errors = [];\n\n    if (Array.isArray(valueSpec.values)) { // <=v7\n        if
(valueSpec.values.indexOf(unbundle(value)) === -1) {\n            errors.push(new ValidationError(key, value,
`expected one of [${valueSpec.values.join(', ')}], ${JSON.stringify(value)} found`));\n        }\n    } else { // >=v8\n
   if (Object.keys(valueSpec.values).indexOf(unbundle(value)) === -1) {\n            errors.push(new
ValidationError(key, value, `expected one of [${Object.keys(valueSpec.values).join(', ')}], ${JSON.stringify(value)}
found`));\n        }\n    }\n    return errors;\n}\n","\nimport ValidationError from '../error/validation_error';\nimport
validateExpression from './validate_expression';\nimport validateEnum from './validate_enum';\nimport getType
from '../util/get_type';\nimport {unbundle, deepUnbundle} from '../util/unbundle_jsonlint';\nimport extend from
'../util/extend';\nimport {isExpressionFilter} from '../feature_filter';\n\nexport default function validateFilter(options)
{\n    if (isExpressionFilter(deepUnbundle(options.value))) {\n        return validateExpression(extend({}, options,
{\n            expressionContext: 'filter',\n            valueSpec: {value: 'boolean'}\n        }));\n    } else {\n        return
validateNonExpressionFilter(options);\n    }\n}\n\nfunction validateNonExpressionFilter(options) {\n    const value
= options.value;\n    const key = options.key;\n\n    if (getType(value) !== 'array') {\n        return [new
ValidationError(key, value, `array expected, ${getType(value)} found`)];\n    }\n\n    const styleSpec =
options.styleSpec;\n    let type;\n\n    let errors = [];\n\n    if (value.length < 1) {\n        return [new
ValidationError(key, value, 'filter array must have at least 1 element')];\n    }\n\n    errors =
errors.concat(validateEnum({\n        key: `${key}[0]`,\n        value: value[0],\n        valueSpec:
styleSpec.filter_operator,\n        style: options.style,\n        styleSpec: options.styleSpec\n    }));\n\n    switch
(unbundle(value[0])) {\n    case '<':\n    case '<=':\n    case '>':\n    case '>=':\n        if (value.length >= 2 &&
unbundle(value[1]) === '$type') {\n            errors.push(new ValidationError(key, value, `\"$type\" cannot be use
with operator \"${value[0]}\"`));\n        }\n        /* falls through */\n    case '==':\n    case '!=':\n        if (value.length
!== 3) {\n            errors.push(new ValidationError(key, value, `filter array for operator \"${value[0]}\" must have 3
elements`));\n        }\n        /* falls through */\n    case 'in':\n    case '!in':\n        if (value.length >= 2) {\n            type
= getType(value[1]);\n            if (type !== 'string') {\n                errors.push(new ValidationError(`${key}[1]`,
value[1], `string expected, ${type} found`));\n            }\n        }\n        for (let i = 2; i < value.length; i++) {\n
type = getType(value[i]);\n            if (unbundle(value[1]) === '$type') {\n                errors =
errors.concat(validateEnum({\n                    key: `${key}[${i}]`,\n                    value: value[i],\n
valueSpec: styleSpec.geometry_type,\n                    style: options.style,\n                    styleSpec: options.styleSpec\n
            }));\n            } else if (type !== 'string' && type !== 'number' && type !== 'boolean') {\n
errors.push(new ValidationError(`${key}[${i}]`, value[i], `string, number, or boolean expected, ${type} found`));\n
        }\n        }\n        break;\n\n    case 'any':\n    case 'all':\n    case 'none':\n        for (let i = 1; i < value.length; i++)
{\n            errors = errors.concat(validateNonExpressionFilter({\n                key: `${key}[${i}]`,\n                value:
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value[i],\n                style: options.style,\n                styleSpec: options.styleSpec\n            }));\n        }\n
break;\n\n    case 'has':\n    case '!has':\n        type = getType(value[1]);\n        if (value.length !== 2) {\n
errors.push(new ValidationError(key, value, `filter array for \"${value[0]}\" operator must have 2 elements`));\n
} else if (type !== 'string') {\n            errors.push(new ValidationError(`${key}[1]`, value[1], `string expected,
${type} found`));\n        }\n        break;\n\n    }\n\n    return errors;\n}\n","\nimport validate from './validate';\nimport
ValidationError from '../error/validation_error';\nimport getType from '../util/get_type';\nimport {isFunction} from
'../function';\nimport {unbundle, deepUnbundle} from '../util/unbundle_jsonlint';\nimport
{supportsPropertyExpression} from '../util/properties';\n\nexport default function validateProperty(options,
propertyType) {\n    const key = options.key;\n    const style = options.style;\n    const styleSpec =
options.styleSpec;\n    const value = options.value;\n    const propertyKey = options.objectKey;\n    const layerSpec
= styleSpec[`${propertyType}_${options.layerType}`];\n\n    if (!layerSpec) return [];\n\n    const transitionMatch =
propertyKey.match(/^(.*)-transition$/);\n    if (propertyType === 'paint' && transitionMatch &&
layerSpec[transitionMatch[1]] && layerSpec[transitionMatch[1]].transition) {\n        return validate({\n
key,\n            value,\n            valueSpec: styleSpec.transition,\n            style,\n            styleSpec\n        });\n    }\n\n
const valueSpec = options.valueSpec || layerSpec[propertyKey];\n    if (!valueSpec) {\n        return [new
ValidationError(key, value, `unknown property \"${propertyKey}\"`)];\n    }\n\n    let tokenMatch;\n    if
(getType(value) === 'string' && supportsPropertyExpression(valueSpec) && !valueSpec.tokens && (tokenMatch =
/^{([^}]+)}$/.exec(value))) {\n        return [new ValidationError(\n            key, value,\n            `\"${propertyKey}\"
does not support interpolation syntax\\n` +\n                `Use an identity property function instead: \\`{ \"type\":
\"identity\", \"property\": ${JSON.stringify(tokenMatch[1])} }\\`.`)];\n    }\n\n    const errors = [];\n\n    if
(options.layerType === 'symbol') {\n        if (propertyKey === 'text-field' && style && !style.glyphs) {\n
errors.push(new ValidationError(key, value, 'use of \"text-field\" requires a style \"glyphs\" property'));\n        }\n
if (propertyKey === 'text-font' && isFunction(deepUnbundle(value)) && unbundle(value.type) === 'identity') {\n
    errors.push(new ValidationError(key, value, '\"text-font\" does not support identity functions'));\n        }\n
}\n\n    return errors.concat(validate({\n        key: options.key,\n        value,\n        valueSpec,\n        style,\n
styleSpec,\n        expressionContext: 'property',\n        propertyType,\n        propertyKey\n    }));\n}\n","\nimport
validateProperty from './validate_property';\n\nexport default function validatePaintProperty(options) {\n    return
validateProperty(options, 'paint');\n}\n","\nimport validateProperty from './validate_property';\n\nexport default
function validateLayoutProperty(options) {\n    return validateProperty(options, 'layout');\n}\n","\nimport
ValidationError from '../error/validation_error';\nimport {unbundle} from '../util/unbundle_jsonlint';\nimport
validateObject from './validate_object';\nimport validateFilter from './validate_filter';\nimport validatePaintProperty
from './validate_paint_property';\nimport validateLayoutProperty from './validate_layout_property';\nimport
validateSpec from './validate';\nimport extend from '../util/extend';\n\nexport default function validateLayer(options)
{\n    let errors = [];\n\n    const layer = options.value;\n    const key = options.key;\n    const style = options.style;\n
const styleSpec = options.styleSpec;\n\n    if (!layer.type && !layer.ref) {\n        errors.push(new
ValidationError(key, layer, 'either \"type\" or \"ref\" is required'));\n    }\n    let type = unbundle(layer.type);\n
const ref = unbundle(layer.ref);\n\n    if (layer.id) {\n        const layerId = unbundle(layer.id);\n        for (let i = 0; i <
options.arrayIndex; i++) {\n            const otherLayer = style.layers[i];\n            if (unbundle(otherLayer.id) ===
layerId) {\n                errors.push(new ValidationError(key, layer.id, `duplicate layer id \"${layer.id}\", previously
used at line ${otherLayer.id.__line__}`));\n            }\n        }\n    }\n\n    if ('ref' in layer) {\n        ['type', 'source',
'source-layer', 'filter', 'layout'].forEach((p) => {\n            if (p in layer) {\n                errors.push(new
ValidationError(key, layer[p], `\"${p}\" is prohibited for ref layers`));\n            }\n        });\n\n        let parent;\n\n
style.layers.forEach((layer) => {\n            if (unbundle(layer.id) === ref) parent = layer;\n        });\n\n        if
(!parent) {\n            errors.push(new ValidationError(key, layer.ref, `ref layer \"${ref}\" not found`));\n        } else if
(parent.ref) {\n            errors.push(new ValidationError(key, layer.ref, 'ref cannot reference another ref layer'));\n
} else {\n            type = unbundle(parent.type);\n        }\n    } else if (type !== 'background') {\n        if
(!layer.source) {\n            errors.push(new ValidationError(key, layer, 'missing required property \"source\"'));\n
} else {\n            const source = style.sources && style.sources[layer.source];\n            const sourceType = source
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&& unbundle(source.type);\n            if (!source) {\n                errors.push(new ValidationError(key, layer.source,
`source \"${layer.source}\" not found`));\n            } else if (sourceType === 'vector' && type === 'raster') {\n
   errors.push(new ValidationError(key, layer.source, `layer \"${layer.id}\" requires a raster source`));\n            } else
if (sourceType === 'raster' && type !== 'raster') {\n                errors.push(new ValidationError(key, layer.source,
`layer \"${layer.id}\" requires a vector source`));\n            } else if (sourceType === 'vector' && !layer['source-
layer']) {\n                errors.push(new ValidationError(key, layer, `layer \"${layer.id}\" must specify a \"source-
layer\"`));\n            } else if (sourceType === 'raster-dem' && type !== 'hillshade') {\n                errors.push(new
ValidationError(key, layer.source, 'raster-dem source can only be used with layer type \\'hillshade\\'.'));\n            }
else if (type === 'line' && layer.paint && layer.paint['line-gradient'] &&\n                    (sourceType !== 'geojson'
|| !source.lineMetrics)) {\n                errors.push(new ValidationError(key, layer, `layer \"${layer.id}\" specifies a
line-gradient, which requires a GeoJSON source with \\`lineMetrics\\` enabled.`));\n            }\n        }\n    }\n\n
errors = errors.concat(validateObject({\n        key,\n        value: layer,\n        valueSpec: styleSpec.layer,\n        style:
options.style,\n        styleSpec: options.styleSpec,\n        objectElementValidators: {\n            '*'() {\n                return
[];\n            },\n            // We don't want to enforce the spec's `\"requires\": true` for backward compatibility with
refs;\n            // the actual requirement is validated above. See https://github.com/mapbox/mapbox-gl-
js/issues/5772.\n            type() {\n                return validateSpec({\n                    key: `${key}.type`,\n
value: layer.type,\n                    valueSpec: styleSpec.layer.type,\n                    style: options.style,\n
styleSpec: options.styleSpec,\n                    object: layer,\n                    objectKey: 'type'\n                });\n            },\n
       filter: validateFilter,\n            layout(options) {\n                return validateObject({\n                    layer,\n
    key: options.key,\n                    value: options.value,\n                    style: options.style,\n                    styleSpec:
options.styleSpec,\n                    objectElementValidators: {\n                        '*'(options) {\n                            return
validateLayoutProperty(extend({layerType: type}, options));\n                        }\n                    }\n                });\n
  },\n            paint(options) {\n                return validateObject({\n                    layer,\n                    key:
options.key,\n                    value: options.value,\n                    style: options.style,\n                    styleSpec:
options.styleSpec,\n                    objectElementValidators: {\n                        '*'(options) {\n                            return
validatePaintProperty(extend({layerType: type}, options));\n                        }\n                    }\n                });\n
}\n        }\n    }));\n\n    return errors;\n}\n","\nimport getType from '../util/get_type';\nimport ValidationError from
'../error/validation_error';\n\nexport default function validateString(options) {\n    const value = options.value;\n
const key = options.key;\n    const type = getType(value);\n\n    if (type !== 'string') {\n        return [new
ValidationError(key, value, `string expected, ${type} found`)];\n    }\n\n    return [];\n}\n","\nimport ValidationError
from '../error/validation_error';\nimport {unbundle} from '../util/unbundle_jsonlint';\nimport validateObject from
'./validate_object';\nimport validateEnum from './validate_enum';\nimport validateExpression from
'./validate_expression';\nimport validateString from './validate_string';\nimport getType from
'../util/get_type';\n\nconst objectElementValidators = {\n    promoteId: validatePromoteId\n};\n\nexport default
function validateSource(options) {\n    const value = options.value;\n    const key = options.key;\n    const styleSpec
= options.styleSpec;\n    const style = options.style;\n\n    if (!value.type) {\n        return [new ValidationError(key,
value, '\"type\" is required')];\n    }\n\n    const type = unbundle(value.type);\n    let errors;\n\n    switch (type) {\n
case 'vector':\n    case 'raster':\n    case 'raster-dem':\n        errors = validateObject({\n            key,\n            value,\n
      valueSpec: styleSpec[`source_${type.replace('-', '_')}`],\n            style: options.style,\n            styleSpec,\n
objectElementValidators\n        });\n        return errors;\n\n    case 'geojson':\n        errors = validateObject({\n
key,\n            value,\n            valueSpec: styleSpec.source_geojson,\n            style,\n            styleSpec,\n
objectElementValidators\n        });\n        if (value.cluster) {\n            for (const prop in value.clusterProperties) {\n
          const [operator, mapExpr] = value.clusterProperties[prop];\n                const reduceExpr = typeof operator
=== 'string' ? [operator, ['accumulated'], ['get', prop]] : operator;\n\n                errors.push(...validateExpression({\n
              key: `${key}.${prop}.map`,\n                    value: mapExpr,\n                    expressionContext: 'cluster-
map'\n                }));\n                errors.push(...validateExpression({\n                    key: `${key}.${prop}.reduce`,\n
             value: reduceExpr,\n                    expressionContext: 'cluster-reduce'\n                }));\n            }\n        }\n
 return errors;\n\n    case 'video':\n        return validateObject({\n            key,\n            value,\n            valueSpec:
```

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

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return validateExpression(options);\n\n    } else if (valueSpec.type && VALIDATORS[valueSpec.type]) {\n
return VALIDATORS[valueSpec.type](options);\n\n    } else {\n        const valid = validateObject(extend({},
options, {\n            valueSpec: valueSpec.type ? styleSpec[valueSpec.type] : valueSpec\n        }));\n        return
valid;\n    }\n}\n","\nimport ValidationError from '../error/validation_error';\nimport validateString from
'./validate_string';\n\nexport default function(options) {\n    const value = options.value;\n    const key =
options.key;\n\n    const errors = validateString(options);\n    if (errors.length) return errors;\n\n    if
(value.indexOf('{fontstack}') === -1) {\n        errors.push(new ValidationError(key, value, '\"glyphs\" url must
include a \"{fontstack}\" token'));\n    }\n\n    if (value.indexOf('{range}') === -1) {\n        errors.push(new
ValidationError(key, value, '\"glyphs\" url must include a \"{range}\" token'));\n    }\n\n    return
errors;\n}\n","\nimport validateConstants from './validate/validate_constants';\nimport validate from
'./validate/validate';\nimport latestStyleSpec from './reference/latest';\nimport validateGlyphsURL from
'./validate/validate_glyphs_url';\n\nimport validateSource from './validate/validate_source';\nimport validateLight
from './validate/validate_light';\nimport validateLayer from './validate/validate_layer';\nimport validateFilter from
'./validate/validate_filter';\nimport validatePaintProperty from './validate/validate_paint_property';\nimport
validateLayoutProperty from './validate/validate_layout_property';\n\n/**\n * Validate a Mapbox GL style against
the style specification. This entrypoint,\n * `mapbox-gl-style-spec/lib/validate_style.min`, is designed to produce
as\n * small a browserify bundle as possible by omitting unnecessary functionality\n * and legacy style
specifications.\n *\n * @private\n * @param {Object} style The style to be validated.\n * @param {Object}
[styleSpec] The style specification to validate against.\n *     If omitted, the latest style spec is used.\n * @returns
{Array<ValidationError>}\n * @example\n *   var validate = require('mapbox-gl-style-
spec/lib/validate_style.min');\n *   var errors = validate(style);\n */\nfunction validateStyleMin(style, styleSpec =
latestStyleSpec) {\n\n    let errors = [];\n\n    errors = errors.concat(validate({\n        key: '',\n        value: style,\n
valueSpec: styleSpec.$root,\n        styleSpec,\n        style,\n        objectElementValidators: {\n            glyphs:
validateGlyphsURL,\n            '*'() {\n                return [];\n            }\n        }\n    }));\n\n    if (style.constants) {\n
errors = errors.concat(validateConstants({\n            key: 'constants',\n            value: style.constants,\n            style,\n
        styleSpec\n        }));\n    }\n\n    return sortErrors(errors);\n}\n\nvalidateStyleMin.source =
wrapCleanErrors(validateSource);\nvalidateStyleMin.light =
wrapCleanErrors(validateLight);\nvalidateStyleMin.layer =
wrapCleanErrors(validateLayer);\nvalidateStyleMin.filter =
wrapCleanErrors(validateFilter);\nvalidateStyleMin.paintProperty =
wrapCleanErrors(validatePaintProperty);\nvalidateStyleMin.layoutProperty =
wrapCleanErrors(validateLayoutProperty);\n\nfunction sortErrors(errors) {\n    return [].concat(errors).sort((a, b) =>
{\n        return a.line - b.line;\n    });\n}\n\nfunction wrapCleanErrors(inner) {\n    return function(...args) {\n
return sortErrors(inner.apply(this, args));\n    };\n}\n\nexport default validateStyleMin;\n","/* parser generated by
jison 0.4.15 */\n/*\n  Returns a Parser object of the following structure:\n\n  Parser: {\n    yy: {}\n  }\n\n
Parser.prototype: {\n    yy: {},\n    trace: function(),\n    symbols_: {associative list: name ==> number},\n
terminals_: {associative list: number ==> name},\n    productions_: [...],\n    performAction: function
anonymous(yytext, yyleng, yylineno, yy, yystate, $$, _$),\n    table: [...],\n    defaultActions: {...},\n    parseError:
function(str, hash),\n    parse: function(input),\n\n    lexer: {\n        EOF: 1,\n        parseError: function(str, hash),\n
  setInput: function(input),\n        input: function(),\n        unput: function(str),\n        more: function(),\n        less:
function(n),\n        pastInput: function(),\n        upcomingInput: function(),\n        showPosition: function(),\n
test_match: function(regex_match_array, rule_index),\n        next: function(),\n        lex: function(),\n        begin:
function(condition),\n        popState: function(),\n        _currentRules: function(),\n        topState: function(),\n
pushState: function(condition),\n\n        options: {\n            ranges: boolean           (optional: true ==> token location
info will include a .range[] member)\n            flex: boolean             (optional: true ==> flex-like lexing behaviour
where the rules are tested exhaustively to find the longest match)\n            backtrack_lexer: boolean  (optional: true
==> lexer regexes are tested in order and for each matching regex the action code is invoked; the lexer terminates
the scan when a token is returned by the action code)\n        },\n\n        performAction: function(yy, yy_,
$avoiding_name_collisions, YY_START),\n        rules: [...],\n        conditions: {associative list: name ==> set},\n
}\n  }\n\n\n  token location info (@$, _$, etc.): {\n    first_line: n,\n    last_line: n,\n    first_column: n,\n
last_column: n,\n    range: [start_number, end_number]       (where the numbers are indexes into the input string,
regular zero-based)\n  }\n\n\n  the parseError function receives a 'hash' object with these members for lexer and
parser errors: {\n    text:        (matched text)\n    token:       (the produced terminal token, if any)\n    line:
(yylineno)\n  }\n  while parser (grammar) errors will also provide these members, i.e. parser errors deliver a superset
of attributes: {\n    loc:         (yylloc)\n    expected:    (string describing the set of expected tokens)\n    recoverable:
(boolean: TRUE when the parser has a error recovery rule available for this particular error)\n  }\n*/\nvar parser =
(function(){\nvar o=function(k,v,o,l){for(o=o||{},l=k.length;l--;o[k[l]]=v);return
o},$V0=[1,12],$V1=[1,13],$V2=[1,9],$V3=[1,10],$V4=[1,11],$V5=[1,14],$V6=[1,15],$V7=[14,18,22,24],$V8=[1
8,22],$V9=[22,24];\nvar parser = {trace: function trace() { },\nyy: {},\nsymbols_:
{\"error\":2,\"JSONString\":3,\"STRING\":4,\"JSONNumber\":5,\"NUMBER\":6,\"JSONNullLiteral\":7,\"NULL\":
8,\"JSONBooleanLiteral\":9,\"TRUE\":10,\"FALSE\":11,\"JSONText\":12,\"JSONValue\":13,\"EOF\":14,\"JSONO
bject\":15,\"JSONArray\":16,\"{\":17,\"}\":18,\"JSONMemberList\":19,\"JSONMember\":20,\":\":21,\",\":22,\"[\":23
,\"]\":24,\"JSONElementList\":25,\"$accept\":0,\"$end\":1},\nterminals_:
{2:\"error\",4:\"STRING\",6:\"NUMBER\",8:\"NULL\",10:\"TRUE\",11:\"FALSE\",14:\"EOF\",17:\"{\",18:\"}\",21
:\":\",22:\",\",23:\"[\",24:\"]\"},\nproductions_:
[0,[3,1],[5,1],[7,1],[9,1],[9,1],[12,2],[13,1],[13,1],[13,1],[13,1],[13,1],[13,1],[15,2],[15,3],[20,3],[19,1],[19,3],[16,2],
[16,3],[25,1],[25,3]],\nperformAction: function anonymous(yytext, yyleng, yylineno, yy, yystate /* action[1] */, $$
/* vstack */, _$ /* lstack */) {\n/* this == yyval */\n\nvar $0 = $$.length - 1;\nswitch (yystate) {\ncase 1:\n // replace
escaped characters with actual character\n          this.$ = new String(yytext.replace(/\\\\(\\\\|\")/g, \"$\"+\"1\")\n
        .replace(/\\\n/g,'\\n')\n                    .replace(/\\\r/g,'\\r')\n                    .replace(/\\\t/g,'\\t')\n
.replace(/\\\v/g,'\\v')\n                    .replace(/\\\f/g,'\\f')\n                    .replace(/\\\b/g,'\\b'));\n          this.$.__line__ =
this._$.first_line;\n        \nbreak;\ncase 2:\n\n            this.$ = new Number(yytext);\n            this.$.__line__ =
this._$.first_line;\n        \nbreak;\ncase 3:\n\n            this.$ = null;\n        \nbreak;\ncase 4:\n\n            this.$ = new
Boolean(true);\n            this.$.__line__ = this._$.first_line;\n        \nbreak;\ncase 5:\n\n            this.$ = new
Boolean(false);\n            this.$.__line__ = this._$.first_line;\n        \nbreak;\ncase 6:\nreturn this.$ = $$[$0-
1];\nbreak;\ncase 13:\nthis.$ = {}; Object.defineProperty(this.$, '__line__', {\n            value: this._$.first_line,\n
  enumerable: false\n        })\nbreak;\ncase 14: case 19:\nthis.$ = $$[$0-1]; Object.defineProperty(this.$, '__line__',
{\n            value: this._$.first_line,\n            enumerable: false\n        })\nbreak;\ncase 15:\nthis.$ = [$$[$0-2],
$$[$0]];\nbreak;\ncase 16:\nthis.$ = {}; this.$[$$[$0][0]] = $$[$0][1];\nbreak;\ncase 17:\nthis.$ = $$[$0-2]; $$[$0-
2][$$[$0][0]] = $$[$0][1];\nbreak;\ncase 18:\nthis.$ = []; Object.defineProperty(this.$, '__line__', {\n            value:
this._$.first_line,\n            enumerable: false\n        })\nbreak;\ncase 20:\nthis.$ = [$$[$0]];\nbreak;\ncase 21:\nthis.$
= $$[$0-2]; $$[$0-2].push($$[$0]);\nbreak;\n}\n},\ntable:
[{3:5,4:$V0,5:6,6:$V1,7:3,8:$V2,9:4,10:$V3,11:$V4,12:1,13:2,15:7,16:8,17:$V5,23:$V6},{1:[3]},{14:[1,16]},o($
V7,[2,7]),o($V7,[2,8]),o($V7,[2,9]),o($V7,[2,10]),o($V7,[2,11]),o($V7,[2,12]),o($V7,[2,3]),o($V7,[2,4]),o($V7,[2,
5]),o([14,18,21,22,24],[2,1]),o($V7,[2,2]),{3:20,4:$V0,18:[1,17],19:18,20:19},{3:5,4:$V0,5:6,6:$V1,7:3,8:$V2,9:4,
10:$V3,11:$V4,13:23,15:7,16:8,17:$V5,23:$V6,24:[1,21],25:22},{1:[2,6]},o($V7,[2,13]),{18:[1,24],22:[1,25]},o($
V8,[2,16]),{21:[1,26]},o($V7,[2,18]),{22:[1,28],24:[1,27]},o($V9,[2,20]),o($V7,[2,14]),{3:20,4:$V0,20:29},{3:5,4:
$V0,5:6,6:$V1,7:3,8:$V2,9:4,10:$V3,11:$V4,13:30,15:7,16:8,17:$V5,23:$V6},o($V7,[2,19]),{3:5,4:$V0,5:6,6:$V1
,7:3,8:$V2,9:4,10:$V3,11:$V4,13:31,15:7,16:8,17:$V5,23:$V6},o($V8,[2,17]),o($V8,[2,15]),o($V9,[2,21])],\ndefa
ultActions: {16:[2,6]},\nparseError: function parseError(str, hash) {\n    if (hash.recoverable) {\n
this.trace(str);\n    } else {\n        throw new Error(str);\n    }\n},\nparse: function parse(input) {\n    var self = this,
stack = [0], tstack = [], vstack = [null], lstack = [], table = this.table, yytext = '', yylineno = 0, yyleng = 0, recovering
= 0, TERROR = 2, EOF = 1;\n    var args = lstack.slice.call(arguments, 1);\n    var lexer =
Object.create(this.lexer);\n    var sharedState = { yy: {} };\n    for (var k in this.yy) {\n        if
(Object.prototype.hasOwnProperty.call(this.yy, k)) {\n            sharedState.yy[k] = this.yy[k];\n        }\n    }\n
lexer.setInput(input, sharedState.yy);\n    sharedState.yy.lexer = lexer;\n    sharedState.yy.parser = this;\n    if (typeof
lexer.yylloc == 'undefined') {\n        lexer.yylloc = {};\n    }\n    var yyloc = lexer.yylloc;\n    lstack.push(yyloc);\n
var ranges = lexer.options && lexer.options.ranges;\n    if (typeof sharedState.yy.parseError === 'function') {\n
this.parseError = sharedState.yy.parseError;\n    } else {\n        this.parseError =
Object.getPrototypeOf(this).parseError;\n    }\n    function popStack(n) {\n        stack.length = stack.length - 2 * n;\n
     vstack.length = vstack.length - n;\n        lstack.length = lstack.length - n;\n    }\n    _token_stack:\n        function
lex() {\n            var token;\n            token = lexer.lex() || EOF;\n            if (typeof token !== 'number') {\n
token = self.symbols_[token] || token;\n            }\n            return token;\n        }\n    var symbol, preErrorSymbol,
state, action, a, r, yyval = {}, p, len, newState, expected;\n    while (true) {\n        state = stack[stack.length - 1];\n
 if (this.defaultActions[state]) {\n            action = this.defaultActions[state];\n        } else {\n            if (symbol ===
null || typeof symbol == 'undefined') {\n                symbol = lex();\n            }\n            action = table[state] &&
table[state][symbol];\n        }\n                    if (typeof action === 'undefined' || !action.length || !action[0]) {\n
 var errStr = ";\n                expected = [];\n                for (p in table[state]) {\n                    if (this.terminals_[p] && p
> TERROR) {\n                        expected.push('\\" + this.terminals_[p] + '\\");\n                    }\n                }\n
if (lexer.showPosition) {\n                    errStr = 'Parse error on line ' + (yylineno + 1) + ':\\n' + lexer.showPosition() +
'\\nExpecting ' + expected.join(', ') + ', got \\" + (this.terminals_[symbol] || symbol) + '\\";\n                } else {\n
       errStr = 'Parse error on line ' + (yylineno + 1) + ': Unexpected ' + (symbol == EOF ? 'end of input' : '\\" +
(this.terminals_[symbol] || symbol) + '\\");\n                }\n                this.parseError(errStr, {\n                    text:
lexer.match,\n                    token: this.terminals_[symbol] || symbol,\n                    line: lexer.yylineno,\n
loc: yyloc,\n                    expected: expected\n                });\n            }\n        if (action[0] instanceof Array &&
action.length > 1) {\n            throw new Error('Parse Error: multiple actions possible at state: ' + state + ', token: ' +
symbol);\n        }\n        switch (action[0]) {\n        case 1:\n            stack.push(symbol);\n
vstack.push(lexer.yytext);\n            lstack.push(lexer.yylloc);\n            stack.push(action[1]);\n            symbol =
null;\n            if (!preErrorSymbol) {\n                yyleng = lexer.yyleng;\n                yytext = lexer.yytext;\n
yylineno = lexer.yylineno;\n                yyloc = lexer.yylloc;\n                if (recovering > 0) {\n
recovering--;\n                }\n            } else {\n                symbol = preErrorSymbol;\n                preErrorSymbol =
null;\n            }\n            break;\n        case 2:\n            len = this.productions_[action[1]][1];\n            yyval.$ =
vstack[vstack.length - len];\n            yyval._$ = {\n                first_line: lstack[lstack.length - (len || 1)].first_line,\n
         last_line: lstack[lstack.length - 1].last_line,\n                first_column: lstack[lstack.length - (len ||
1)].first_column,\n                last_column: lstack[lstack.length - 1].last_column\n            };\n            if (ranges) {\n
        yyval._$.range = [\n                    lstack[lstack.length - (len || 1)].range[0],\n                    lstack[lstack.length -
1].range[1]\n                ];\n            }\n            r = this.performAction.apply(yyval, [\n                yytext,\n
yyleng,\n                yylineno,\n                sharedState.yy,\n                action[1],\n                vstack,\n                lstack\n
        ].concat(args));\n            if (typeof r !== 'undefined') {\n                return r;\n            }\n            if (len) {\n
   stack = stack.slice(0, -1 * len * 2);\n                vstack = vstack.slice(0, -1 * len);\n                lstack = lstack.slice(0,
-1 * len);\n            }\n            stack.push(this.productions_[action[1]][0]);\n            vstack.push(yyval.$);\n
lstack.push(yyval._$);\n            newState = table[stack[stack.length - 2]][stack[stack.length - 1]];\n
stack.push(newState);\n            break;\n        case 3:\n            return true;\n        }\n    }\n    return true;\n}};\n/*
generated by jison-lex 0.3.4 */\nvar lexer = (function(){\nvar lexer = ({\n\nEOF:1,\n\nparseError:function
parseError(str, hash) {\n        if (this.yy.parser) {\n            this.yy.parser.parseError(str, hash);\n        } else {\n
throw new Error(str);\n        }\n    },\n\n// resets the lexer, sets new input\nsetInput:function (input, yy) {\n
this.yy = yy || this.yy || {};\n        this._input = input;\n        this._more = this._backtrack = this.done = false;\n
this.yylineno = this.yyleng = 0;\n        this.yytext = this.matched = this.match = ";\n        this.conditionStack =
['INITIAL'];\n        this.yylloc = {\n            first_line: 1,\n            first_column: 0,\n            last_line: 1,\n
last_column: 0\n        };\n        if (this.options.ranges) {\n            this.yylloc.range = [0,0];\n        }\n        this.offset =
0;\n        return this;\n    },\n\n// consumes and returns one char from the input\ninput:function () {\n        var ch =
this._input[0];\n        this.yytext += ch;\n        this.yyleng++;\n        this.offset++;\n        this.match += ch;\n
this.matched += ch;\n        var lines = ch.match(/(?:\\r\\n?|\\n).*/g);\n        if (lines) {\n            this.yylineno++;\n
  this.yylloc.last_line++;\n        } else {\n            this.yylloc.last_column++;\n        }\n        if (this.options.ranges) {\n
```

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

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this.EOF;\n        }\n        if (!this._input) {\n            this.done = true;\n        }\n\n        var token,\n            match,\n
    tempMatch,\n            index;\n        if (!this._more) {\n            this.yytext = '';\n            this.match = '';\n        }\n
var rules = this._currentRules();\n        for (var i = 0; i < rules.length; i++) {\n            tempMatch =
this._input.match(this.rules[rules[i]]);\n            if (tempMatch && (!match || tempMatch[0].length >
match[0].length)) {\n                match = tempMatch;\n                index = i;\n                if
(this.options.backtrack_lexer) {\n                    token = this.test_match(tempMatch, rules[i]);\n                    if (token
!== false) {\n                        return token;\n                    } else if (this._backtrack) {\n                        match = false;\n
                    continue; // rule action called reject() implying a rule MISmatch.\n                    } else {\n
// else: this is a lexer rule which consumes input without producing a token (e.g. whitespace)\n                        return
false;\n                    }\n                } else if (!this.options.flex) {\n                    break;\n                }\n            }\n        }\n
      if (match) {\n            token = this.test_match(match, rules[index]);\n            if (token !== false) {\n
return token;\n            }\n            // else: this is a lexer rule which consumes input without producing a token (e.g.
whitespace)\n            return false;\n        }\n        if (this._input === \"\") {\n            return this.EOF;\n        } else {\n
        return this.parseError('Lexical error on line ' + (this.yylineno + 1) + '. Unrecognized text.\\n' +
this.showPosition(), {\n                text: \"\",\n                token: null,\n                line: this.yylineno\n            });\n
}\n    },\n\n// return next match that has a token\nlex:function lex() {\n        var r = this.next();\n        if (r) {\n
return r;\n        } else {\n            return this.lex();\n        }\n    },\n\n// activates a new lexer condition state (pushes the
new lexer condition state onto the condition stack)\nbegin:function begin(condition) {\n
this.conditionStack.push(condition);\n    },\n\n// pop the previously active lexer condition state off the condition
stack\npopState:function popState() {\n        var n = this.conditionStack.length - 1;\n        if (n > 0) {\n            return
this.conditionStack.pop();\n        } else {\n            return this.conditionStack[0];\n        }\n    },\n\n// produce the
lexer rule set which is active for the currently active lexer condition state\n_currentRules:function _currentRules()
{\n        if (this.conditionStack.length && this.conditionStack[this.conditionStack.length - 1]) {\n            return
this.conditions[this.conditionStack[this.conditionStack.length - 1]].rules;\n        } else {\n            return
this.conditions[\"INITIAL\"].rules;\n        }\n    },\n\n// return the currently active lexer condition state; when an
index argument is provided it produces the N-th previous condition state, if available\ntopState:function topState(n)
{\n        n = this.conditionStack.length - 1 - Math.abs(n || 0);\n        if (n >= 0) {\n            return
this.conditionStack[n];\n        } else {\n            return \"INITIAL\";\n        }\n    },\n\n// alias for
begin(condition)\npushState:function pushState(condition) {\n        this.begin(condition);\n    },\n\n// return the
number of states currently on the stack\nstateStackSize:function stateStackSize() {\n        return
this.conditionStack.length;\n    },\noptions: {},\nperformAction: function
anonymous(yy,yy_,$avoiding_name_collisions,YY_START) {\nvar
YYSTATE=YY_START;\nswitch($avoiding_name_collisions) {\ncase 0:/* skip whitespace */\nbreak;\ncase
1:return 6\nbreak;\ncase 2:yy_.yytext = yy_.yytext.substr(1,yy_.yyleng-2); return 4\nbreak;\ncase 3:return
17\nbreak;\ncase 4:return 18\nbreak;\ncase 5:return 23\nbreak;\ncase 6:return 24\nbreak;\ncase 7:return
22\nbreak;\ncase 8:return 21\nbreak;\ncase 9:return 10\nbreak;\ncase 10:return 11\nbreak;\ncase 11:return
8\nbreak;\ncase 12:return 14\nbreak;\ncase 13:return 'INVALID'\nbreak;\n}\n},\nrules: [/^(?:\\s+)/,/^(?:(-?([0-9]|[1-
9][0-9]+))(\\.[0-9]+)?([eE][-+]?[0-9]+)?\\b)/,/^(?:\"(?:\\\\[\\\\\"bfnrt/]|\\\\u[a-fA-F0-9]{4}|[^\\\\\\0-\\x09\\x0a-
\\x1f\"])*\")/,/^(?:\\{)/,/^(?:\\})/,/^(?:\\[)/,/^(?:\\])/,/^(?:,)/,/^(?::)/,/^(?:true\\b)/,/^(?:false\\b)/,/^(?:null\\b)/,/^(?:$)/,/^(?:
.)/],\nconditions: {\"INITIAL\":{\"rules\":[0,1,2,3,4,5,6,7,8,9,10,11,12,13],\"inclusive\":true}}\n});\nreturn
lexer;\n})();\nparser.lexer = lexer;\nfunction Parser () {\n  this.yy = {};\n}\nParser.prototype = parser;parser.Parser
= Parser;\nreturn new Parser;\n})();\n\n\nif (typeof require !== 'undefined' && typeof exports !== 'undefined')
{\nexports.parser = parser;\nexports.Parser = parser.Parser;\nexports.parse = function () { return
parser.parse.apply(parser, arguments); };\n}\n","import ParsingError from './error/parsing_error';\nimport jsonlint
from '@mapbox/jsonlint-lines-primitives';\n\nexport default function readStyle(style) {\n    if (style instanceof
String || typeof style === 'string' || style instanceof Buffer) {\n        try {\n            return
jsonlint.parse(style.toString());\n        } catch (e) {\n            throw new ParsingError(e);\n        }\n    }\n\n    return
style;\n}\n","\nimport validateStyleMin from './validate_style.min';\nimport {v8} from './style-spec';\nimport
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readStyle from './read_style';\n\n/**\n * Validate a Mapbox GL style against the style specification.\n *\n * @private\n * @alias validate\n * @param {Object|String|Buffer} style The style to be validated. If a `String`\n * or `Buffer` is provided, the returned errors will contain line numbers.\n * @param {Object} [styleSpec] The style specification to validate against.\n * If omitted, the spec version is inferred from the stylesheet.\n * @returns {Array<ValidationError|ParsingError>}\n * @example\n * var validate = require('mapbox-gl-style-spec').validate;\n * var style = fs.readFileSync('./style.json', 'utf8');\n * var errors = validate(style);\n */\n\nexport default function validateStyle(style, styleSpec = v8) {\n let s = style;\n\n try {\n s = readStyle(s);\n } catch (e) {\n return [e];\n }\n\n return validateStyleMin(s, styleSpec);\n}\n\nexport const source = validateStyleMin.source;\nexport const light = validateStyleMin.light;\nexport const layer = validateStyleMin.layer;\nexport const filter = validateStyleMin.filter;\nexport const paintProperty = validateStyleMin.paintProperty;\nexport const layoutProperty = validateStyleMin.layoutProperty;\n","// @flow\n\nimport validateStyle from './validate_style.min';\nimport {v8} from './style-spec';\nimport readStyle from './read_style';\nimport ValidationError from './error/validation_error';\nimport getType from './util/get_type';\n\nconst SUPPORTED_SPEC_VERSION = 8;\nconst MAX_SOURCES_IN_STYLE = 15;\n\nfunction isValid(value: ?string, regex: RegExp): boolean {\n if (!value || getType(value) !== 'string') return true;\n return !!value.match(regex);\n}\n\nfunction getSourceCount(source: Object): number {\n if (source.url) {\n return source.url.split(',').length;\n } else {\n return 0;\n }\n}\n\nfunction getAllowedKeyErrors(obj: Object, keys: Array<*>, path: ?string): Array<?ValidationError> {\n const allowed = new Set(keys);\n const errors = [];\n Object.keys(obj).forEach(k => {\n if (!allowed.has(k)) {\n const prop = path ? `${path}.${k}` : null;\n errors.push(new ValidationError(prop, obj[k], `Unsupported property \"${k}\"`));\n }\n });\n return errors;\n}\n\nfunction getSourceErrors(source: Object, i: number): Array<?ValidationError> {\n const errors = [];\n\n /*\n * Inlined sources are not supported by the Mapbox Styles API, so only\n * \"type\", \"url\", and \"tileSize\" properties are valid\n */\n const sourceKeys = ['type', 'url', 'tileSize'];\n errors.push(...getAllowedKeyErrors(source, sourceKeys, 'source'));\n\n /*\n * \"source\" is required. Valid examples:\n * mapbox://mapbox.abcd1234\n * mapbox://penny.abcd1234\n * mapbox://mapbox.abcd1234,penny.abcd1234\n */\n const sourceUrlPattern = /^mapbox:\\/\\/([^/]*)$/;\n if (!isValid(source.url, sourceUrlPattern)) {\n errors.push(new ValidationError(`sources[${i}]`, source.url, 'Source url must be a valid Mapbox tileset url'));\n }\n\n return errors;\n}\n\nfunction getSourcesErrors(sources: Object): Array<?ValidationError> {\n const errors = [];\n let count = 0;\n\n Object.keys(sources).forEach((s: string, i: number) => {\n const sourceErrors = getSourceErrors(sources[s], i);\n\n // If source has errors, skip counting\n if (!sourceErrors.length) {\n count = count + getSourceCount(sources[s]);\n }\n\n errors.push(...sourceErrors);\n });\n\n if (count > MAX_SOURCES_IN_STYLE) {\n errors.push(new ValidationError('sources', null, `Styles must contain ${MAX_SOURCES_IN_STYLE} or fewer sources`));\n }\n\n return errors;\n}\n\nfunction getRootErrors(style: Object, specKeys: Array<any>): Array<?ValidationError> {\n const errors = [];\n\n /*\n * The following keys are optional but fully managed by the Mapbox Styles\n * API. Values on stylesheet on POST or PATCH will be ignored: \"owner\",\n * \"id\", \"cacheControl\", \"draft\", \"created\", \"modified\"\n *\n * The following keys are optional. The Mapbox Styles API respects value on\n * stylesheet on PATCH, but ignores the value on POST: \"visibility\"\n */\n const optionalRootProperties = [\n 'owner',\n 'id',\n 'cacheControl',\n 'draft',\n 'created',\n 'modified',\n 'visibility'\n];\n\n const allowedKeyErrors = getAllowedKeyErrors(style, [...specKeys, ...optionalRootProperties]);\n errors.push(...allowedKeyErrors);\n\n if (style.version > SUPPORTED_SPEC_VERSION || style.version < SUPPORTED_SPEC_VERSION) {\n errors.push(new ValidationError('version', style.version, `Style version must be ${SUPPORTED_SPEC_VERSION}`));\n }\n\n /*\n * \"glyphs\" is optional. If present, valid examples:\n * mapbox://fonts/penny/{fontstack}/{range}.pbf\n * mapbox://fonts/mapbox/{fontstack}/{range}.pbf\n */\n const glyphUrlPattern = /^mapbox:\\/\\/fonts\\/([^/]*)\\/{fontstack}\\/{range}.pbf$/;\n if (!isValid(style.glyphs, glyphUrlPattern)) {\n errors.push(new ValidationError('glyphs', style.glyphs, 'Styles must reference glyphs hosted by Mapbox'));\n }\n\n /*\n * \"sprite\" is optional. If present, valid examples:\n * mapbox://sprites/penny/abcd1234\n *

mapbox://sprites/mapbox/abcd1234/draft\n   * mapbox://sprites/cyrus/abcd1234/abcd1234\n   */\n   const spriteUrlPattern = /^mapbox:\\/\\/sprites\\/([^/]*)\\/([^/]*)\\/?([^/]*)?$/;\n   if (!isValid(style.sprite, spriteUrlPattern)) {\n   errors.push(new ValidationError('sprite', style.sprite, 'Styles must reference sprites hosted by Mapbox'));\n   }\n\n   /*\n   * \"visibility\" is optional. If present, valid examples:\n   * \"private\"\n   * \"public\"\n   */\n   const visibilityPattern = /^(public|private)$/;\n   if (!isValid(style.visibility, visibilityPattern)) {\n   errors.push(new ValidationError('visibility', style.visibility, 'Style visibility must be public or private'));\n   }\n\n   return errors;\n}\n\n/**\n * Validate a Mapbox GL style against the style specification and check for\n * compatibility with the Mapbox Styles API.\n *\n * @param {Object} style The style to be validated.\n * @returns {Array<ValidationError>}\n * @example\n *   var validateMapboxApiSupported = require('mapbox-gl-style-spec/lib/validate_style_mapbox_api_supported.js');\n *   var errors = validateMapboxApiSupported(style);\n */\nexport default function validateMapboxApiSupported(style: Object): Array<?ValidationError> {\n   let s = style;\n   try {\n   s = readStyle(s);\n   } catch (e) {\n   return [e];\n   }\n\n   let errors = validateStyle(s, v8)\n   .concat(getRootErrors(s, Object.keys(v8.$root)));\n\n   if (s.sources) {\n   errors = errors.concat(getSourcesErrors(s.sources));\n   }\n\n   return errors;\n}\n","// @flow\n\ntype ExpressionType = 'data-driven' | 'cross-faded' | 'cross-faded-data-driven' | 'color-ramp' | 'data-constant' | 'constant';\ntype ExpressionParameters = Array<'zoom' | 'feature' | 'feature-state' | 'heatmap-density' | 'line-progress'>;\n\ntype ExpressionSpecification = {\n   interpolated: boolean,\n   parameters: ExpressionParameters\n}\n\nexport type StylePropertySpecification = {\n   type: 'number',\n   'property-type': ExpressionType,\n   expression?: ExpressionSpecification,\n   transition: boolean,\n   default?: number\n} | {\n   type: 'string',\n   'property-type': ExpressionType,\n   expression?: ExpressionSpecification,\n   transition: boolean,\n   default?: string,\n   tokens?: boolean\n} | {\n   type: 'boolean',\n   'property-type': ExpressionType,\n   expression?: ExpressionSpecification,\n   transition: boolean,\n   default?: boolean\n} | {\n   type: 'enum',\n   'property-type': ExpressionType,\n   expression?: ExpressionSpecification,\n   values: {[_: string]: {}},\n   transition: boolean,\n   default?: string\n} | {\n   type: 'color',\n   'property-type': ExpressionType,\n   expression?: ExpressionSpecification,\n   transition: boolean,\n   default?: string,\n   overridable: boolean\n} | {\n   type: 'array',\n   value: 'number',\n   'property-type': ExpressionType,\n   expression?: ExpressionSpecification,\n   length?: number,\n   transition: boolean,\n   default?: Array<number>\n} | {\n   type: 'array',\n   value: 'string',\n   'property-type': ExpressionType,\n   expression?: ExpressionSpecification,\n   length?: number,\n   transition: boolean,\n   default?: Array<string>\n};\n\nimport v8 from './reference/v8.json';\nimport latest from './reference/latest';\nimport format from './format';\nimport migrate from './migrate';\nimport composite from './composite';\nimport derefLayers from './deref';\nimport diff from './diff';\nimport ValidationError from './error/validation_error';\nimport ParsingError from './error/parsing_error';\nimport {StyleExpression, isExpression, createExpression, createPropertyExpression, normalizePropertyExpression, ZoomConstantExpression, ZoomDependentExpression, StylePropertyFunction} from './expression';\nimport featureFilter, {isExpressionFilter} from './feature_filter';\n\nimport convertFilter from './feature_filter/convert';\nimport Color from './util/color';\nimport {createFunction, isFunction} from './function';\nimport convertFunction from './function/convert';\nimport {eachSource, eachLayer, eachProperty} from './visit';\n\nimport validate from './validate_style';\nimport validateMapboxApiSupported from './validate_mapbox_api_supported';\n\nconst expression = {\n   StyleExpression,\n   isExpression,\n   isExpressionFilter,\n   createExpression,\n   createPropertyExpression,\n   normalizePropertyExpression,\n   ZoomConstantExpression,\n   ZoomDependentExpression,\n   StylePropertyFunction\n};\n\nconst styleFunction = {\n   convertFunction,\n   createFunction,\n   isFunction\n};\n\nconst visit = {eachSource, eachLayer, eachProperty};\n\nexport {\n   v8,\n   latest,\n   format,\n   migrate,\n   composite,\n   derefLayers,\n   diff,\n   ValidationError,\n   ParsingError,\n   expression,\n   featureFilter,\n   convertFilter,\n   Color,\n   styleFunction as function,\n   validate,\n   validateMapboxApiSupported,\n   visit\n};\n\nvalidate.parsed = validate;\nvalidate.latest = validate;\n"],"names":["sortKeysBy","obj","reference","const","result","key","undefined","format","style","space","$root","layers","map","layer","stringifyPretty","indent","global","this","require$$0","require$$1","getPropertyReference","propertyName","let","i","Reference","layout","length","paint","eachSource","callback","k","sources","eachL

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ayer","eachProperty","options","inner","propertyType","properties","Object","keys","forEach","path","id","value","
set","x","eachLayout","indexOf","eachPaint","resolveConstant","constants","isFunction","Array","isArray","stops",
"renameProperty","from","to","version","source","type","url","coordinates","coord","reverse","property","stop","mi
grateFontstackURL","input","inputParsed","URL","parse","inputPathnameParts","pathname","split","protocol","hos
tname","glyphs","migrateFontStack","font","splitAndTrim","string","s","trim","Error","firstSymbolLayer","symbol
Layers","splice","concat","output","inputs","ParsingError","message","super","Scope","parent","bindings","name","
expression","get","has","NullType","kind","NumberType","StringType","BooleanType","ColorType","ObjectType"
,"ValueType","ErrorType","CollatorType","FormattedType","ResolvedImageType","array","itemType","N","toStri
ng","valueMemberTypes","checkSubtype","expected","t","memberType","isValidType","provided","allowedTypes
","some","isValidNativeType","Color","r","g","b","a","rgba","parseCSSColor","toArray","Math","round","black","
white","transparent","red","Collator","caseSensitive","diacriticSensitive","locale","sensitivity","collator","Intl","usa
ge","compare","lhs","rhs","resolvedLocale","resolvedOptions","FormattedSection","text","image","scale","fontStac
k","textColor","Formatted","sections","fromString","unformatted","isEmpty","section","factory","join","serialize","
serialized","push","ResolvedImage","available","validateRGBA","isValue","mixed","item","typeOf","String","JSO
N","stringify","Literal","args","context","error","expectedType","evaluate","eachChild","outputDefined","Runtime
Error","toJSON","types","number","boolean","object","Assertion","floor","parsed","ctx","fn","every","arg","Format
Expression","firstArg","nextTokenMayBeObject","lastExpression","content","evaluateSection","evaluatedContent",
"ImageExpression","evaluatedImageName","availableImages","Coercion","Boolean","c","parseColor","num","Num
ber","isNaN","valueToString","child","geometryTypes","EvaluationContext","globals","feature","featureState","for
mattedSection","_parseColorCache","canonical","geometryType","geometry","canonicalID","cached","CompoundE
xpression","_evaluate","op","definition","definitions","availableOverloads","overloads","filter","signature","signatu
reContext","ParsingContext","registry","scope","parsedArgs","argParseFailed","params","errors","signatures","strin
gifySignature","actualTypes","register","CollatorExpression","EXTENT","updateBBox","bbox","min","max","merc
atorXfromLng","lng","mercatorYfromLat","lat","PI","log","tan","boxWithinBox","bbox1","bbox2","getTileCoordin
ates","p","y","tilesAtZoom","pow","z","onBoundary","p1","p2","x1","y1","x2","y2","rayIntersect","pointWithinPol
ygon","point","rings","inside","len","ring","j","len2","pointWithinPolygons","polygons","perp","v1","v2","twoSide
d","q1","q2","x3","y3","det1","det2","lineIntersectLine","d","vectorP","vectorQ","lineIntersectPolygon","polygon",
"lineStringWithinPolygon","line","lineStringWithinPolygons","getTilePolygon","getTilePolygons","updatePoint","
polyBBox","worldSize","halfWorldSize","shift","resetBBox","Infinity","getTilePoints","pointBBox","shifts","tileP
oints","points","getTileLines","lineBBox","tileLines","tileLine","pointsWithinPolygons","polygonGeometry","tileP
olygon","tilePolygons","linesWithinPolygons","Within","geojson","geometries","features","isFeatureConstant","e",
"test","isStateConstant","isGlobalPropertyConstant","Var","boundExpression","part","expr","index","_parse","anno
tate","typeAnnotation","Expr","actual","isConstant","ec","isTypeAnnotation","childrenConstant","findStopLessTha
nOrEqualTo","lastIndex","lowerIndex","upperIndex","currentIndex","currentValue","nextValue","Step","labels","o
utputs","label","outputType","labelKey","valueKey","stopCount","out","color","Xn","Yn","Zn","t0","t1","t2","t3","
deg2rad","rad2deg","xyz2lab","lab2xyz","xyz2rgb","rgb2xyz","rgbToLab","rgbColor","l","alpha","labToRgb","lab
Color","interpolateLab","interpolateNumber","rgbToHcl","h","atan2","sqrt","hclToRgb","hclColor","cos","sin","int
erpolateHue","interpolateHcl","lab","forward","interpolate","hcl","Interpolate","operator","interpolation","interpolat
ionFactor","lower","upper","exponentialInterpolation","base","controlPoints","ub","UnitBezier","solve","slice","rest
","outputLower","outputUpper","toLowerCase","lowerValue","upperValue","difference","progress","Coalesce","ne
edsAnnotation","argCount","requestedImageName","Let","binding","At","In","needle","haystack","IndexOf","from
Index","Match","inputType","cases","otherwise","labelContext","abs","MAX_SAFE_INTEGER","sortedLabels","s
ort","groupedByOutput","outputLookup","outputIndex","coerceLabel","Case","branches","Slice","beginIndex","end
Index","isComparableType","eq","neq","lt","gt","lteq","gteq","eqCollate","neqCollate","ltCollate","gtCollate","lteq
Collate","gteqCollate","makeComparison","compareBasic","compareWithCollator","isOrderComparison","hasUnty
pedArgument","Comparison","rt","Equals","NotEquals","LessThan","GreaterThan","LessThanOrEqual","GreaterTh
anOrEqual","NumberFormat","currency","minFractionDigits","maxFractionDigits","minimumFractionDigits","max
imumFractionDigits","Length","expressions","v","binarySearch","m","varargs","typeToString","zoom","heatmapDe
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nsity","lineProgress","accumulated","LN2","E","n","LN10","asin","acos","atan","ceil","isSupportedScript","toUppe
rCase","success","supportsPropertyExpression","spec","supportsZoomExpression","parameters","supportsInterpolat
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Found in path(s):

* /opt/ws_local/PERMITS_SQL/1050204622_1591696269.32/0/mapbox-mapbox-gl-style-spec-13-14-0-tgz/package/dist/index.js.map

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

## 13.13.1

### Features and improvements

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

### Bug fixes

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

## 13.13.0

### Features and improvements

* Add `within` expression for testing whether an evaluated feature lies within a given GeoJSON object ([#9352](https://github.com/mapbox/mapbox-gl-js/pull/9352)). For example:<br>
`"icon-opacity": ["case", ["==", ["within", "some-polygon"], true], 1,
["==", ["within", "some-polygon"], false], 0]`
* Improve scaling of patterns used in `line-pattern` on all device resolutions and pixel ratios ([#9266](https://github.com/mapbox/mapbox-gl-js/pull/9266))

### Bug fixes
* Allow needle argument to `in` expression to be false ([#9295](https://github.com/mapbox/mapbox-gl-js/pull/9295))
* Fix a bug where `icon-image` expression that evaluates to an empty string (`""`) produced a warning ([#9380](https://github.com/mapbox/mapbox-gl-js/pull/9380))
* Prevent exception resulting from `line-dash-array` of empty length ([#9385](https://github.com/mapbox/mapbox-gl-js/pull/9385))

## 13.12.0

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

## 13.11.0

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

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

## 13.10.2

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

## 13.10.0

### Features and improvements
* Add ability to insert images into text labels using an `image` expression within a `format` expression: `"text-field": ["format", "Some text", ["image", "my-image"], "some more text"]` ([#8904](https://github.com/mapbox/mapbox-gl-js/pull/8904))
* Add `in` expression. It can check if a value is in an array (`["in", value, array]`) or a substring is in a string (`["in",

substring, string]`) ([#8876](https://github.com/mapbox/mapbox-gl-js/pull/8876))
* Add support for stretchable images (aka nine-part or nine-patch images). Stretchable images can be used with `icon-text-fit` to draw resized images with unstretched corners and borders. ([#8997](https://github.com/mapbox/mapbox-gl-js/pull/8997))
* Add an es modules build of for mapbox-gl-style-spec in dist/ ([#8247](https://github.com/mapbox/mapbox-gl-js/pull/8247)) (h/t [ahocevar](https://github.com/ahocevar))

## 13.9.1

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

## 13.9.0

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

## 13.8.0

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

## 13.7.2

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

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

## 13.7.1

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

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

## 13.7.0

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

## 13.6.0

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

## 13.5.0

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

## 13.4.0

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

## 13.3.0

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

### Features and improvements
* Add `fill-extrusion-vertical-gradient` property for controlling shading of fill extrusions

([#5768](https://github.com/mapbox/mapbox-gl-js/issues/5768), fixed by [#6841](https://github.com/mapbox/mapbox-gl-js/pull/6841))

## 13.2.0

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

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

## 13.1.1

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

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

## 13.1.0

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

## 13.0.1

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

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

### Bug fixes
* Use named exports for style-spec entrypoint module ([#6601](https://github.com/mapbox/mapbox-gl-

js/issues/6601)

## 13.0.0
Malformed package published to NPM.

## 12.0.0

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

### Features and improvements
* Add line-gradient property [#6303](https://github.com/mapbox/mapbox-gl-js/pull/6303)
* Add collator expression for controlling case and diacritic sensitivity in string comparisons [#6270](https://github.com/mapbox/mapbox-gl-js/pull/6270)
* Add `is-supported-script` expression for determining if a script is supported. [#6260](https://github.com/mapbox/mapbox-gl-js/pull/6260)
* Add `collator` expression for controlling case and diacritic sensitivity in string comparisons [#6270](https://github.com/mapbox/mapbox-gl-js/pull/6270)
* Add `abs`, `round`, `floor`, and `ceil` expression operators [#6496](https://github.com/mapbox/mapbox-gl-js/pull/6496)
* Add support for Mapzen Terrarium tiles in raster-dem sources [#6110](https://github.com/mapbox/mapbox-gl-js/pull/6110)

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

## 11.1.1

### Bug fixes

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

## 11.1.0

### Features and improvements

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

## 11.0.0

### Breaking changes

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

### Features and improvements

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

### Bug fixes

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

## 10.1.0

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

### Validation Changes

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

* Improve validation to catch uses of deprecated function syntax [#5667](https://github.com/mapbox/mapbox-gl-js/pull/5667)

## 10.0.1

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

## 10.0.0

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

## 9.0.1

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

## 9.0.0

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

## 8.11.0

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

## 8.10.0

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

### Style Specification Changes

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

### Reference JSON & API Changes

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

## 8.9.0

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

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

## 8.8.1

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

* Fixed style validation for layers with invalid types

## 8.8.0

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

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

## 8.7.0

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

* Add support for has / !has operators.

## 8.6.0

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

* Added support for zoom and feature driven functions.

## 8.4.2

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

* Refactored style validator to expose more granular validation methods

## 8.4.1

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

* Revert ramp validation checks that broke some styles.

## 8.4.0

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

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

## 8.3.0

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

* Added `line-offset` style property

## 8.2.1

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

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

## 8.2.0

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

* Add inline `example` property.
* Enforce that all style properties must have documentation in `doc` property.
* Create minified style specs with `doc` and `example` properties removed.
* `validate` now validates against minified style spec.
* `format` now accepts `space` option to use with `JSON.stringify`.
* Remove `gl-style-spritify`. Mapbox GL sprites are now created automatically by the Mapbox style APIs, or for hand-crafted styles, by [spritezero-cli](https://github.com/mapbox/spritezero-cli).

## 8.1.0

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

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

## 8.0.0

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

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

## 7.5.0

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

## 7.4.1

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

## 7.0.0

Introduction of Mapbox GL style specification v7.

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

## 6.0.0 (Style spec v6)

Introduction of Mapbox GL style specification v6.

* [BREAKING] New filter syntax (#178)
* [BREAKING] Line gap property (#131)
* [BREAKING] Remove dashes from min/max-zoom (#175)
* [BREAKING] New layout/paint terminology (#166)
* [BREAKING] Single text positioning property (#197)
* Added requirements (#200)
* Added minimum, maximum, and period values (#198)

## 0.0.5 (in progress)

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

## 0.0.4 (Aug 8 2014)

* Initial public release

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1.453 tar-pack 3.4.0 3.4.0

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1.462 @babel/runtime 7.7.2 7.7.2

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1.463 p-timeout 2.0.1 2.0.1

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1.464 co 4.6.0 4.6.0

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1.465 debug 2.2.0 2.2.0

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1.466 eventemitter3 3.1.2 3.1.2

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1.467 react-measure 1.4.7 1.4.7

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1.468 typedarray 0.0.6 0.0.6

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*/

// Original can be found at:
//   https://bitbucket.org/lindenlab/llsd
// Modifications by Joshua Bell inexorabletash@gmail.com
//   https://github.com/inexorabletash/polyfill

// ES3/ES5 implementation of the Krhonos Typed Array Specification
//   Ref: http://www.khronos.org/registry/typedarray/specs/latest/
//   Date: 2011-02-01
//
// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])

1.469 glob-base 0.3.0 0.3.0

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1.470 protocol-buffers-schema 3.3.2 3.3.2

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1.471 esprima 4.0.0 4.0.0

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1.473 brace-expansion 1.1.7 1.1.7

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1.474 minimist-options 3.0.2 3.0.2

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1.476 ws 6.1.4 6.1.4

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1.478 @mapbox/fusspot 0.4.0 0.4.0

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1.479 tslib 1.9.3 1.9.3

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1.483 react-d3 0.4.0 0.4.0

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1.486 mimic-response 1.0.1 1.0.1

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1.487 object.assign 1.1.1 1.1.1

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1.488 lodash.isarray 3.0.4 3.0.4

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1.489 lodash.once 4.1.1 4.1.1

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1.490 extsprintf 1.0.2 1.0.2

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1.500 mapbox-gl 1.10.1 1.10.1

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1.529 normalize-package-data 2.5.0 2.5.0

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1.531 ajv 5.2.2 5.2.2

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1.533 jquery 2.1.4 2.1.4

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1.534 set-immediate-shim 1.0.1 1.0.1

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1.536 lodash.keys 3.1.2 3.1.2

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1.539 sliced 0.0.5 0.0.5

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1.543 @mapbox/geojson-rewind 0.5.0 0.5.0

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1.544 change-emitter 0.1.6 0.1.6

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1.586 right-align 0.1.3 0.1.3

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1.587 combined-stream 0.0.7 0.0.7

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1.588 tweetnacl 0.14.5 0.14.5

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1.589 cron-converter 0.0.12 0.0.12

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1.590 has-to-string-tag-x 1.4.1 1.4.1

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1.592 http-proxy 1.16.2 1.16.2

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1.593 extsprintf 1.4.0 1.4.0

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1.594 indent-string 3.2.0 3.2.0

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1.595 jquery 3.4.1 3.4.1

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1.596 content-type 1.0.4 1.0.4

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1.598 after 0.8.2 0.8.2

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1.599 amcharts3-dataloader 1.0.19 1.0.19

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1.617 punycode 1.4.1 1.4.1

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1.618 jsonwebtoken 8.5.0 8.5.0

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1.621 concat-stream 2.0.0 2.0.0

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1.622 jwa 1.3.0 1.3.0

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1.625 geojson-vt 3.2.1 3.2.1

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1.626 object.omit 2.0.1 2.0.1

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1.627 platform 1.3.1 1.3.1

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1.628 domelementtype 1.3.1 1.3.1

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1.629 jquery-mockjax 2.1.1 2.1.1

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1.630 path-to-regexp 1.8.0 1.8.0

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1.631 ecdsa-sig-formatter 1.0.9 1.0.9

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1.633 caseless 0.12.0 0.12.0

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1.685 influx 5.0.7 5.0.7

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1.686 process-nextick-args 2.0.1 2.0.1

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1.687 string-capitalize 1.0.1 1.0.1

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1.688 lowercase-keys 1.0.1 1.0.1

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1.689 lodash.includes 4.3.0 4.3.0

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1.690 ncp 2.0.0 2.0.0

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1.691 cookie-parser 1.4.3 1.4.3

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1.692 is-number 3.0.0 3.0.0

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1.693 natives 1.1.6 1.1.6

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1.694 base64-js 1.3.0 1.3.0

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1.695 mongoose 4.13.20 4.13.20

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1.696 fast-memoize 2.5.1 2.5.1

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1.697 qs 6.4.0 6.4.0

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1.698 ienoopen 1.0.0 1.0.0

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1.699 camelcase-keys 4.2.0 4.2.0

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1.700 react 15.6.1 15.6.1

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1.701 aproba 1.1.1 1.1.1

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1.702 proto-list 1.2.4 1.2.4

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1.703 fast-json-stable-stringify 2.0.0 2.0.0

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1.704 is-dotfile 1.0.3 1.0.3

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1.705 lodash 4.17.10 4.17.10

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1.708 load-json-file 4.0.0 4.0.0

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1.709 datatables.net 1.10.15 1.10.15

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1.710 boom 0.4.2 0.4.2

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1.712 isomorphic-fetch 2.2.1 2.2.1

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1.716 intl-format-cache 2.0.5 2.0.5

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1.718 @mapbox/polyline 1.0.0 1.0.0

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1.723 raf 3.3.2 3.3.2

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1.738 @mapbox/point-geometry 0.1.0 0.1.0

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1.739 string_decoder 1.0.1 1.0.1

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1.740 react-notification-system 0.2.15 0.2.15

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1.742 core-js 2.4.1 2.4.1

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1.743 is-buffer 1.1.5 1.1.5

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1.745 json-stable-stringify 1.0.1 1.0.1

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1.746 jodid25519 1.0.2 1.0.2

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1.747 prop-types 15.7.2 15.7.2

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1.749 @amcharts/amcharts3-react 2.0.7 2.0.7

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1.755 ajv 6.5.5 6.5.5

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1.757 form-data 2.1.4 2.1.4

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1.758 @mapbox/vector-tile 1.3.1 1.3.1

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1.759 moment 2.22.2 2.22.2

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1.761 node-fetch 1.7.3 1.7.3

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1.762 source-map 0.5.6 0.5.6

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1.763 async-hook-jl 1.7.6 1.7.6

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1.769 react-redux 5.0.7 5.0.7

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1.770 uglify-js 2.8.29 2.8.29

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1.772 linkify-it 2.1.0 2.1.0

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1.773 readable-stream 2.3.4 2.3.4

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1.774 mkdirp 0.3.5 0.3.5

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1.778 @types/connect 3.4.32 3.4.32

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1.811 ua-parser-js 0.7.18 0.7.18

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1.817 readable-stream 2.3.6 2.3.6

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1.818 mime-db 1.27.0 1.27.0

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1.819 js-tokens 3.0.2 3.0.2

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1.820 json-schema-traverse 0.4.1 0.4.1

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1.821 npmlog 4.1.2 4.1.2

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1.822 core-util-is 1.0.2 1.0.2

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1.823 oauth-sign 0.8.2 0.8.2

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1.825 iconv-lite 0.4.18 0.4.18

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1.826 fast-memoize 2.3.0 2.3.0

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1.827 react-transition-group 2.6.0 2.6.0

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1.828 concat-map 0.0.1 0.0.1

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1.829 request-promise-native 1.0.5 1.0.5

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1.830 ipaddr.js 1.0.5 1.0.5

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1.831 nan 2.8.0 2.8.0

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1.832 request 2.42.0 2.42.0

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1.834 bunyan-format 0.2.1 0.2.1

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1.842 cookie 0.1.5 0.1.5

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1.844 regenerator-runtime 0.13.5 0.13.5

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1.846 statuses 1.4.0 1.4.0

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1.849 repeat-string 1.6.1 1.6.1

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1.853 react-top-loading-bar 1.2.0 1.2.0

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1.944 rc 1.2.5 1.2.5

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1.950 invariant 2.2.4 2.2.4

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1.951 component-indexof 0.0.3 0.0.3

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1.952 micromatch 2.3.11 2.3.11

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1.954 on-headers 1.0.1 1.0.1

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1.957 react-overlays 0.6.12 0.6.12

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1.967 redeyed 0.4.4 0.4.4

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1.968 fs.realpath 1.0.0 1.0.0

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1.969 @mapbox/parse-mapbox-token 0.2.0 0.2.0

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1.970 strip-ansi 3.0.1 3.0.1

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1.971 cookie 0.3.1 0.3.1

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1.972 supports-color 6.1.0 6.1.0

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1.973 cardinal 0.4.4 0.4.4

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1.975 encoding 0.1.12 0.1.12

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1.976 rc-trigger 1.11.3 1.11.3

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1.977 jsbn 0.1.1 0.1.1

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1.979 currently-unhandled 0.4.1 0.4.1

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