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- 1.609 @mapbox/geojson-rewind 0.4.1 0.4.1**
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- 1.610 process-nextick-args 1.0.7 1.0.7**
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1.807 node-pre-gyp 0.6.39 0.6.39
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1.809 lodash.once 4.1.1 4.1.1
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- 1.814 map-obj 2.0.0 2.0.0**
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1.10 @mapbox/vector-tile 1.3.1 1.3.1

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1.11 react-is 16.13.1 16.13.1

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1.16 engine.io 3.3.2 3.3.2

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1.18 uid-safe 2.1.4 2.1.4

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1.23 caseless 0.6.0 0.6.0

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1.24 bcrypt-pbkdf 1.0.1 1.0.1

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1.25 lodash.includes 4.3.0 4.3.0

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1.26 esprima 4.0.1 4.0.1

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1.27 read-pkg-up 3.0.0 3.0.0

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1.28 keycode 2.2.0 2.2.0

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1.29 readable-stream 1.0.34 1.0.34

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1.31 parseqs 0.0.5 0.0.5

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1.33 isarray 1.0.0 1.0.0

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1.34 vary 1.1.2 1.1.2

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1.35 reactapp 1.0.0 1.0.0

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1.36 react-top-loading-bar 1.2.0 1.2.0

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1.37 has-symbol-support-x 1.4.2 1.4.2

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1.38 aws-sign2 0.6.0 0.6.0

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1.45 string_decoder 1.0.3 1.0.3

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1.46 repeat-string 1.6.1 1.6.1

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1.47 js-yaml 3.12.0 3.12.0

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1.48 tinyqueue 2.0.3 2.0.3

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1.49 getpass 0.1.7 0.1.7

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1.50 arr-diff 2.0.0 2.0.0

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1.51 sliced 0.0.5 0.0.5

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1.52 fast-deep-equal 1.0.0 1.0.0

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1.53 source-map 0.6.1 0.6.1

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1.54 recompose 0.25.0 0.25.0

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1.55 prr 0.0.0 0.0.0

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1.56 mkdirp 0.3.5 0.3.5

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1.57 amcharts3-animate 1.1.2 1.1.2

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1.58 gaze 1.1.0 1.1.0

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1.86 async 2.6.1 2.6.1

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1.87 @babel/runtime 7.6.0 7.6.0

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1.88 decamelize-keys 1.1.0 1.1.0

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1.89 performance-now 2.1.0 2.1.0

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1.90 semver 5.3.0 5.3.0

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1.91 sort-keys 2.0.0 2.0.0

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1.92 normalize-path 2.1.1 2.1.1

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1.93 moment-timezone 0.5.21 0.5.21

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1.94 js-cookie 2.1.1 2.1.1

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1.95 intl-relativeformat 1.3.0 1.3.0

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1.96 rc 1.2.5 1.2.5

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1.97 readable-stream 2.3.6 2.3.6

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1.98 lowercase-keys 1.0.1 1.0.1

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1.99 trim-newlines 2.0.0 2.0.0

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1.100 request-promise-native 1.0.5 1.0.5

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1.101 es6-promise 3.2.1 3.2.1

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1.102 strip-bom 3.0.0 3.0.0

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1.103 @mapbox/whoots-js 3.1.0 3.1.0

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1.104 symbol-observable 1.2.0 1.2.0

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1.105 mkdirp 0.5.1 0.5.1

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1.106 @types/node 12.0.12 12.0.12

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1.107 debug 3.2.6 3.2.6

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1.108 p-cancelable 0.4.1 0.4.1

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1.109 debug 2.6.9 2.6.9

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1.110 assert-plus 0.1.5 0.1.5

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1.111 intl-format-cache 2.0.5 2.0.5

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1.113 ua-parser-js 0.7.18 0.7.18

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1.137 requires-port 1.0.0 1.0.0

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1.138 hoek 2.16.3 2.16.3

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1.140 from2 2.3.0 2.3.0

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1.141 uc.micro 1.0.5 1.0.5

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1.142 fbjs 0.8.14 0.8.14

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1.143 json-schema-traverse 0.3.1 0.3.1

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1.144 source-map 0.5.7 0.5.7

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1.145 glob-parent 2.0.0 2.0.0

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1.146 datatables.net-buttons-dt 1.2.4 1.2.4

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1.147 process-nextick-args 2.0.1 2.0.1

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1.148 spdx-license-ids 3.0.5 3.0.5

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Installation

[Download JSON directly](https://raw.githubusercontent.com/shinmn/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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1.149 Iodash._getnative 3.9.1 3.9.1

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1.150 methods 1.1.2 1.1.2

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1.151 prop-types 15.6.2 15.6.2

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1.152 forever-agent 0.6.1 0.6.1

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1.156 tslib 1.9.3 1.9.3

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1.157 muri 1.3.0 1.3.0

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1.158 webfontloader 1.6.28 1.6.28

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1.159 element-resize-event 2.0.9 2.0.9

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1.161 anymatch 1.3.2 1.3.2

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1.162 duplexer3 0.1.4 0.1.4

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1.163 compression 1.6.2 1.6.2

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1.164 string-capitalize 1.0.1 1.0.1

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1.165 camelcase 4.1.0 4.1.0

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1.166 debug 2.6.7 2.6.7

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1.167 react-notification-system 0.2.15 0.2.15

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1.169 js-base64 2.4.3 2.4.3

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1.170 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('UNLICENSED'), unlicensed);
```

```

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1.171 sshpk 1.13.1 1.13.1

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1.172 uid-number 0.0.6 0.0.6

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1.173 base64-arraybuffer 0.1.5 0.1.5

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1.174 asap 1.0.0 1.0.0

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1.175 colors.js 0.6.2 0.6.2

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1.176 component-inherit 0.0.3 0.0.3

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1.177 dom-helpers 3.2.1 3.2.1

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1.178 remove-trailing-separator 1.1.0 1.1.0

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1.179 component-emitter 1.1.2 1.1.2

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1.180 frameguard 2.0.0 2.0.0

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1.181 yargs-parser 10.1.0 10.1.0

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1.182 case-sensitive-paths-webpack-plugin

2.1.1 2.1.1

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1.183 add-dom-event-listener 1.0.2 1.0.2

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1.184 tar-pack 3.4.0 3.4.0

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1.185 **minimist** 1.2.5 1.2.5

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1.186 async 2.6.0 2.6.0

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1.187 angular2-webpack-starter 5.0.5 5.0.5

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1.188 kdbush 2.0.1 2.0.1

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1.190 has-cors 1.1.0 1.1.0

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1.191 redux-promise-middleware 4.2.1 4.2.1

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1.192 raf 3.3.2 3.3.2

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1.193 @mapbox/mapbox-sdk 0.9.0 0.9.0

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1.195 regenerator-runtime 0.13.5 0.13.5

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1.196 engine.io-client 3.3.2 3.3.2

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1.197 wide-align 1.1.2 1.1.2

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1.198 influx 5.0.7 5.0.7

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1.199 escape-string-regexp 1.0.5 1.0.5

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1.200 moment 2.14.1 2.14.1

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1.201 split 0.2.10 0.2.10

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1.202 attr-accept 1.1.0 1.1.0

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1.203 concat-map 0.0.1 0.0.1

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1.204 @mapbox/jsonlint-lines-primitives 2.0.1

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1.205 sliced 1.0.1 1.0.1

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1.206 @mapbox/jsonlint-lines-primitives 2.0.2

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1.207 ecc-jsbn 0.1.1 0.1.1

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1.208 fill-range 2.2.3 2.2.3

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1.209 amqplib 0.5.2 0.5.2

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1.210 readable-stream 3.6.0 3.6.0

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1.211 array-unique 0.2.1 0.2.1

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1.212 semver 5.6.0 5.6.0

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1.213 amcharts3-export 1.4.73 1.4.73

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1.214 redux 3.7.2 3.7.2

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1.215 component-index of 0.0.3 0.0.3

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1.246 1to2 1.0.0 1.0.0

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1.254 amcharts3-dataloader 1.0.16 1.0.16

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1.276 ua-parser-js 0.7.20 0.7.20

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1.277 expand-range 1.8.2 1.8.2

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1.278 uuid 3.2.1 3.2.1

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1.280 backo2 1.0.2 1.0.2

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1.281 stealthy-require 1.1.1 1.1.1

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1.290 json5 0.4.0 0.4.0

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1.291 Iodash.isboolean 3.0.3 3.0.3

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1.292 mime 1.2.11 1.2.11

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1.293 proxy-addr 1.0.10 1.0.10

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1.294 parse-json 4.0.0 4.0.0

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1.295 strip-ansi 3.0.1 3.0.1

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1.296 readable-stream 2.2.9 2.2.9

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1.297 source-map 0.1.43 0.1.43

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1.298 node-fetch 1.7.2 1.7.2

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1.299 content-security-policy-builder 1.0.0

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1.300 vary 1.0.1 1.0.1

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1.301 backbone 1.3.3 1.3.3

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1.302 scheduler 0.13.6 0.13.6

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1.303 normalize-package-data 2.5.0 2.5.0

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1.304 brace-expansion 1.1.8 1.1.8

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1.305 tough-cookie 2.3.3 2.3.3

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1.306 gl-matrix 2.8.1 2.8.1

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1.308 rc-trigger 1.11.3 1.11.3

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1.335 amcharts3-responsive 1.0.3 1.0.3

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1.342 toastr 2.1.2 2.1.2

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1.345 gl-matrix 3.2.1 3.2.1

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1.346 delegate 3.1.3 3.1.3

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1.347 code-point-at 1.1.0 1.1.0

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1.348 srcset 1.0.0 1.0.0

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1.349 cypress 3.8.3 3.8.3

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1.351 @mapbox/mapbox-sdk 0.10.0 0.10.0

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1.352 jsprim 1.4.0 1.4.0

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1.353 react-intl 2.3.0 2.3.0

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1.354 Iodash.isarray 3.0.4 3.0.4

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1.355 url-to-options 1.0.1 1.0.1

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1.358 signal-exit 3.0.2 3.0.2

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1.359 set-immediate-shim 1.0.1 1.0.1

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1.361 @types/connect 3.4.32 3.4.32

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1.362 react-dom 16.8.6 16.8.6

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1.363 lodash 4.17.5 4.17.5

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1.366 json-stringify-safe 5.0.1 5.0.1

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1.367 array-uniq 1.0.3 1.0.3

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1.368 @types/mime 2.0.1 2.0.1

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1.369 ua-parser-js 0.7.14 0.7.14

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1.370 lodash.isarguments 3.1.0 3.1.0

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1.371 react-tooltip 3.3.0 3.3.0

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1.372 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 inexorabletaash@gmail.com

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

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

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

// Date: 2011-02-01

//

// Variations:

// * Allows `typed_array.get/set()` as alias for subscripts (`typed_array[]`)

1.373 loose-envify 1.3.1 1.3.1

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1.374 braces 1.8.5 1.8.5

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1.375 mapbox-gl 0.51.0-beta.2 0.51.0-beta.2

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1.376 ansi-regex 2.1.1 2.1.1

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1.377 binary-extensions 1.11.0 1.11.0

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1.378 tweetnacl 0.14.5 0.14.5

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1.380 **minimist-options 3.0.2 3.0.2**

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1.382 has-binary 0.1.7 0.1.7

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1.383 `async` 2.5.0 2.5.0

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1.384 `readable-stream` 2.2.7 2.2.7

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1.385 expand-brackets 0.1.5 0.1.5

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1.387 react-redux 5.0.7 5.0.7

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1.388 tinyqueue 1.2.3 1.2.3

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1.389 statuses 1.4.0 1.4.0

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1.390 domhandler 2.4.2 2.4.2

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1.404 rimraf 2.6.1 2.6.1

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1.412 yargs 3.10.0 3.10.0

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1.413 component-bind 1.0.0 1.0.0

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1.414 deep-extend 0.4.2 0.4.2

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1.415 for-own 0.1.5 0.1.5

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1.416 jsonwebtoken 8.5.0 8.5.0

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1.417 sort-asc 0.1.0 0.1.0

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1.418 jsbn 0.1.1 0.1.1

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1.419 react-router-dom 4.3.1 4.3.1

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Found in path(s):

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

1.420 object.assign 1.1.1 1.1.1

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1.422 response-time 2.3.2 2.3.2

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1.423 @mapbox/geojson-area 0.2.2 0.2.2

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1.424 os-tmpdir 1.0.2 1.0.2

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1.425 on-finished 2.3.0 2.3.0

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1.428 bson 1.0.4 1.0.4

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1.429 delayed-stream 1.0.0 1.0.0

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1.431 core-decorators 0.17.0 0.17.0

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1.433 mongodb 2.2.33 2.2.33

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1.438 ms 2.0.0 2.0.0

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1.441 source-map 0.5.6 0.5.6

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1.451 symbol-observable 1.0.4 1.0.4

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1.453 ansi-styles 1.0.0 1.0.0

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1.454 grid-index 1.1.0 1.1.0

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1.456 number-is-nan 1.0.1 1.0.1

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1.457 bunyan-format 0.2.1 0.2.1

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1.459 os-homedir 1.0.2 1.0.2

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1.460 regex-cache 0.4.4 0.4.4

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1.461 react-transition-group 2.5.0 2.5.0

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1.462 react-prop-types 0.4.0 0.4.0

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1.463 schema-utils 0.4.7 0.4.7

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1.464 **minimist 0.0.10 0.0.10**

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1.466 datatables.net-responsive 2.1.1 2.1.1

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1.467 intl-messageformat 1.3.0 1.3.0

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1.468 core-js 2.5.7 2.5.7

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1.469 string-humanize 1.0.0 1.0.0

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1.470 require_optional 1.0.1 1.0.1

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1.471 cliui 2.1.0 2.1.0

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1.476 dom-align 1.6.2 1.6.2

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1.477 rimraf 2.6.2 2.6.2

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1.478 oauth-sign 0.8.2 0.8.2

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1.479 js-tokens 4.0.0 4.0.0

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1.480 @types/cls-hooked 4.3.0 4.3.0

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1.481 aws-sign2 0.5.0 0.5.0

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1.484 minimalist 0.0.8 0.0.8

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1.485 async 0.2.10 0.2.10

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1.486 optimist 0.6.1 0.6.1

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1.487 mongodb-core 2.1.20 2.1.20

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1.488 wordwrap 0.0.2 0.0.2

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1.489 component-classes 1.2.6 1.2.6

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1.490 strict-uri-encode 1.1.0 1.1.0

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1.491 merge-descriptors 1.0.1 1.0.1

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1.492 jodid25519 1.0.2 1.0.2

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1.493 datatables.net-buttons 1.2.4 1.2.4

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1.494 ultron 1.0.2 1.0.2

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1.495 error-ex 1.3.2 1.3.2

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1.496 pbf 3.2.1 3.2.1

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1.497 map-obj 1.0.1 1.0.1

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1.498 Iodash.reduce 4.5.0 4.5.0

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1.499 mongodb-migrations 0.8.5 0.8.5

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1.500 iconv-lite 0.4.18 0.4.18

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1.501 object-keys 1.0.12 1.0.12

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4.16.7 4.16.7

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1.504 cryptiles 0.2.2 0.2.2

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1.505 react-dom 15.6.2 15.6.2

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1.506 amcharts3-export 1.4.40 1.4.40

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1.544 resize-observer-polyfill 1.4.2 1.4.2

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1.545 process-nextick-args 2.0.0 2.0.0

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1.546 warning 3.0.0 3.0.0

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1.547 has-binary2 1.0.3 1.0.3

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1.548 to-array 0.1.4 0.1.4

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1.549 commander 2.11.0 2.11.0

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1.550 lodash-es 4.17.11 4.17.11

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1.552 camelcase-keys 4.2.0 4.2.0

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1.553 react-select 1.0.0-rc.10 1.0.0-rc.10

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1.554 ast-types 0.9.11 0.9.11

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

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1.556 mpromise 0.5.5 0.5.5

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1.557 tough-cookie 3.0.0 3.0.0

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1.558 asap 2.0.6 2.0.6

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1.559 iconv-lite 0.4.24 0.4.24

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1.560 cookie-parser 1.4.3 1.4.3

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1.561 datatables.net-responsive-dt 2.1.1 2.1.1

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1.562 bitsyntax 0.0.4 0.0.4

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1.563 stream-spigot 2.1.2 2.1.2

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1.564 cors 2.8.4 2.8.4

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1.565 jsonschema 0.2.3 0.2.3

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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

*/

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

1.566 p-locate 2.0.0 2.0.0

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1.568 boom 2.10.1 2.10.1

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1.572 is-extglob 1.0.0 1.0.0

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1.573 node-cache 4.2.0 4.2.0

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1.574 json5 0.5.1 0.5.1

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1.575 @mapbox/tiny-sdf 1.1.1 1.1.1

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1.576 style-loader 0.16.1 0.16.1

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1.577 chalk 2.4.1 2.4.1

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1.579 recompose 0.30.0 0.30.0

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1.580 callsite 1.0.0 1.0.0

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1.581 nopt 4.0.1 4.0.1

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1.582 resolve 1.16.1 1.16.1

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1.583 cookie 0.3.1 0.3.1

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1.584 firstline 1.2.1 1.2.1

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1.585 big.js 3.2.0 3.2.0

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1.586 arr-flatten 1.1.0 1.1.0

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1.587 @babel/runtime 7.7.2 7.7.2

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1.588 normalize-url 2.0.1 2.0.1

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1.590 mime-types 2.1.16 2.1.16

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1.591 center-align 0.1.3 0.1.3

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1.592 parseurl 1.3.2 1.3.2

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1.594 tunnel-agent 0.4.3 0.4.3

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1.597 platform 1.3.1 1.3.1

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1.598 asn1 0.2.3 0.2.3

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1.599 http-signature 0.10.1 0.10.1

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1.600 blob 0.0.4 0.0.4

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1.601 readable-stream 1.1.14 1.1.14

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1.602 array-flatten 1.1.1 1.1.1

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1.603 extsprintf 1.0.2 1.0.2

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1.607 verror 1.10.0 1.10.0

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1.608 string_decoder 1.0.1 1.0.1

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1.609 @mapbox/geojson-rewind 0.4.1 0.4.1

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1.610 process-nextick-args 1.0.7 1.0.7

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1.611 lodash.isplainobject 4.0.6 4.0.6

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1.612 asynckit 0.4.0 0.4.0

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1.613 isarray 0.0.1 0.0.1

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1.614 dashdash 1.14.1 1.14.1

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1.616 dns-prefetch-control 0.1.0 0.1.0

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1.636 change-emitter 0.1.6 0.1.6

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1.745 spdxcorrect 3.1.0 3.1.0

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1.746 protocol-buffers-schema 3.3.2 3.3.2

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1.747 semver 5.5.0 5.5.0

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1.749 mquery 2.3.3 2.3.3

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1.750 arraybuffer.slice 0.0.6 0.0.6

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1.752 good-listener 1.2.2 1.2.2

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1.753 vt-pbf 3.1.1 3.1.1

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1.754 react-lifecycles-compat 3.0.4 3.0.4

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1.755 string_decoder 1.1.1 1.1.1

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1.759 domelementtype 1.3.1 1.3.1

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1.760 hoist-non-react-statics 2.5.5 2.5.5

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1.763 @types/serve-static 1.13.2 1.13.2

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1.765 p-is-promise 1.1.0 1.1.0

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1.768 isomorphic-fetch 2.2.1 2.2.1

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1.771 strip-ansi 0.1.1 0.1.1

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1.773 is-posix-bracket 0.1.1 0.1.1

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1.775 helmet-csp 1.2.2 1.2.2

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1.781 signal-exit 3.0.3 3.0.3

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1.806 prop-types 15.7.2 15.7.2

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1.807 node-pre-gyp 0.6.39 0.6.39

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1.808 classnames 2.2.5 2.2.5

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1.809 Iodash.once 4.1.1 4.1.1

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1.810 xmlhttprequest-ssl 1.5.5 1.5.5

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1.811 path-parse 1.0.6 1.0.6

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1.813 isarray 2.0.1 2.0.1

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1.817 ecdsa-sig-formatter 1.0.9 1.0.9

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1.818 rc-animate 2.4.1 2.4.1

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1.820 sntp 0.2.4 0.2.4

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1.821 esutils 2.0.2 2.0.2

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1.822 shallowequal 0.2.2 0.2.2

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1.825 socket.io-parser 3.3.0 3.3.0

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1.826 ua-parser-js 0.7.12 0.7.12

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1.827 lodash.escaperegexp 4.1.2 4.1.2

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1.828 domready 2.0.1 2.0.1

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1.830 proto-list 1.2.4 1.2.4

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1.832 react-overlays 0.6.12 0.6.12

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1.833 whatwg-fetch 3.0.0 3.0.0

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1.834 verror 1.3.6 1.3.6

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1.838 json-parse-better-errors 1.0.2 1.0.2

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1.839 detect-libc 1.0.3 1.0.3

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1.840 object-component 0.0.3 0.0.3

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1.841 safe-buffer 5.2.0 5.2.0

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1.842 content-type 1.0.4 1.0.4

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1.843 oauth-sign 0.4.0 0.4.0

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1.844 console-control-strings 1.1.0 1.1.0

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1.845 tar 2.2.1 2.2.1

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1.846 react-router 4.3.1 4.3.1

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1.848 jsprim 1.4.1 1.4.1

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1.849 ajv 5.5.2 5.5.2

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1.854 setprototypeof 1.0.3 1.0.3

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1.855 babel-runtime 6.26.0 6.26.0

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1.856 bunyan 1.8.1 1.8.1

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1.864 path-to-regexp 0.1.7 0.1.7

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1.866 har-validator 4.2.1 4.2.1

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1.867 geojson-vt 3.2.1 3.2.1

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1.889 node-dir 0.1.17 0.1.17

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1.890 arrify 1.0.1 1.0.1

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1.891 co 4.6.0 4.6.0

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1.892 parse-glob 3.0.4 3.0.4

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1.893 tough-cookie 4.0.0 4.0.0

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1.894 combined-stream 1.0.5 1.0.5

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1.895 ecdsa-sig-formatter 1.0.11 1.0.11

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1.896 Iodash.isstring 4.0.1 4.0.1

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1.897 @mapbox/mapbox-gl-style-spec 13.13.0

13.13.0

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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/1034316672_1588680854.86/0/mapbox-mapbox-gl-style-spec-13-13-0-
tgz/package/dist/index.js

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*/

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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:


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

* Improve scaling of patterns used in `line-pattern` on all device resolutions and pixel ratios ([#9266](https://github.com/mapbox/mapbox-gl-js/pull/9266))

Bug fixes

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

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

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

13.12.0

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

13.11.0

Features and improvements

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

Bug fixes

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

13.10.2

Bug fixes

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

13.10.0

Features and improvements

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

13.9.1

Improvement

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

13.9.0

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

js/pull/8684))

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

13.8.0

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

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

- Allow `text-color` to be used in formatted expressions to be able to draw different parts of a label in different colors. [#8068](https://github.com/mapbox/mapbox-gl-js/pull/8068)

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

13.7.2

Bug fixes

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

Features and improvements

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

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

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

13.7.1

Bug fixes

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

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

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

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

13.7.0

Features and improvements

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

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

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

13.6.0

Features and improvements

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

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

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

13.5.0

Features and improvements

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

13.4.0

Features and improvements

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

13.3.0

Bug fixes

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

Features and improvements

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

13.2.0

Bug fixes

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

Features and improvements

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

13.1.1

Bug fixes

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

Features and improvements

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

13.1.0

Features and improvements

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

* Add `symbol-placement: line-center` ([#6821](https://github.com/mapbox/mapbox-gl-js/pull/6821))

13.0.1

Breaking changes

* Align implicit type behavior of `match` expressions with with `case===` ([#6684](https://github.com/mapbox/mapbox-gl-js/pull/6684))

* Update spec so that documentation can automatically capture which functions and expressions can be used with which properties ([#6521](https://github.com/mapbox/mapbox-gl-js/pull/6521))

Features and improvements

* Add `feature-state` [#6263](https://github.com/mapbox/mapbox-gl-js/pull/6263)

* Add support for GeoJSON attribution ([#6364](https://github.com/mapbox/mapbox-gl-js/pull/6364)) (h/t [andrewharvey](https://github.com/andrewharvey))

* Upgrade to Flow 0.69 ([#6594](https://github.com/mapbox/mapbox-gl-js/pull/6594))

Bug fixes

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

13.0.0

Malformed package published to NPM.

12.0.0

Breaking changes

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

Features and improvements

* Add line-gradient property [#6303](https://github.com/mapbox/mapbox-gl-js/pull/6303)

* Add collator expression for controlling case and diacritic sensitivity in string comparisons
[#6270](https://github.com/mapbox/mapbox-gl-js/pull/6270)

* Add `is-supported-script` expression for determining if a script is supported.

[#6260](https://github.com/mapbox/mapbox-gl-js/pull/6260)

* Add `collator` expression for controlling case and diacritic sensitivity in string comparisons

[#6270](https://github.com/mapbox/mapbox-gl-js/pull/6270)

* Add `abs`, `round`, `floor`, and `ceil` expression operators [#6496](https://github.com/mapbox/mapbox-gl-js/pull/6496)

* Add support for Mapzen Terrarium tiles in raster-dem sources [#6110](https://github.com/mapbox/mapbox-gl-js/pull/6110)

Bug fixes

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

11.1.1

Bug fixes

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

11.1.0

Features and improvements

* Avoid use of `new Function` for filters by converting old-style filters to expressions

[#5665](https://github.com/mapbox/mapbox-gl-js/pull/5665).

11.0.0

Breaking changes

* Remove constants validating code [#5885](https://github.com/mapbox/mapbox-gl-js/pull/5885)

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

Features and improvements

* Introduce client-side hillshading with `raster-dem` source type and `hillshade` layer type

[#5286](https://github.com/mapbox/mapbox-gl-js/pull/5286)

* Add Color#toString and expose Color publicly [#5866](https://github.com/mapbox/mapbox-gl-js/pull/5866)

* Improve typing for `===` and `!=` expressions [#5840](https://github.com/mapbox/mapbox-gl-js/pull/5840)

* Made `coalesce` expressions more useful [#5755](https://github.com/mapbox/mapbox-gl-js/issues/5755)

* Enable implicit type assertions for array types [#5738](https://github.com/mapbox/mapbox-gl-js/pull/5738)

Bug fixes

* Fix standalone browser build [#5736](https://github.com/mapbox/mapbox-gl-js/pull/5736),

[#5906](https://github.com/mapbox/mapbox-gl-js/pull/5906)

* Handle NaN as input to step and interpolate expressions [#5757](https://github.com/mapbox/mapbox-gl-js/pull/5757)

* Fix style diffing for changes to GeoJSON sources [#5745](https://github.com/mapbox/mapbox-gl-js/pull/5745)

* Mark layer "type" property as required [#5849](https://github.com/mapbox/mapbox-gl-js/pull/5849)

10.1.0

* Remove support for validating and migrating v6 styles [#5604](https://github.com/mapbox/mapbox-gl-js/pull/5604)

* Remove support for validating v7 styles [#5604](https://github.com/mapbox/mapbox-gl-js/pull/5604)

* Remove spaces after commas in `to-string` representation of colors [#5480](https://github.com/mapbox/mapbox-gl-js/pull/5480)

* Fix bugs preventing `mapbox-gl-style-spec` package on NPM from being used externally [#5502](https://github.com/mapbox/mapbox-gl-js/pull/5502)

* Fix flow-typed interface generator [#5478](https://github.com/mapbox/mapbox-gl-js/pull/5478)

* Export `function` [#5584](https://github.com/mapbox/mapbox-gl-js/pull/5584)

* Export `StylePropertySpecification` type [#5593](https://github.com/mapbox/mapbox-gl-js/pull/5593)

* Split the `source_tile` entry in the JSON schema into `source_vector` and `source_raster` [#5604](https://github.com/mapbox/mapbox-gl-js/pull/5604)

Validation Changes

* Require that `heatmap-color` use expressions instead of stop functions [#5624](https://github.com/mapbox/mapbox-gl-js/issues/5624)

* Remove support for including `{tokens}` in expressions for `text-field` and `icon-image` [#5599](https://github.com/mapbox/mapbox-gl-js/issues/5599)

* Disallow interpolation in expressions for `line-dasharray` [#5519](https://github.com/mapbox/mapbox-gl-js/pull/5519)

* Validate that zoom expressions only appear at the top level of an expression [#5609](https://github.com/mapbox/mapbox-gl-js/issues/5609)

* Validate that `step` and `interpolate` expressions don't have any duplicate stops [#5605](https://github.com/mapbox/mapbox-gl-js/issues/5605)

* Split `curve` expression into `step` and `interpolate` expressions [#5542](https://github.com/mapbox/mapbox-gl-js/pull/5542)

* Validate expression values for enum-typed properties [#5589](https://github.com/mapbox/mapbox-gl-js/pull/5589)

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

10.0.1

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

10.0.0

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

9.0.1

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

9.0.0

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

8.11.0

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

8.10.0

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

Style Specification Changes

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

Reference JSON & API Changes

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

8.9.0

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

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

8.8.1

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

- * Fixed style validation for layers with invalid types

8.8.0

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

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

8.7.0

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

- * Add support for has / !has operators.

8.6.0

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

- * Added support for zoom and feature driven functions.

8.4.2

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

- * Refactored style validator to expose more granular validation methods

8.4.1

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

- * Revert ramp validation checks that broke some styles.

8.4.0

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

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

8.3.0

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

- * Added `line-offset` style property

8.2.1

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

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

8.2.0

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

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

8.1.0

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

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

8.0.0

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

- * [BREAKING] The value of the `text-font` property is now an array of strings, rather than a single comma separated string.
- * [BREAKING] Renamed `symbol-min-distance` to `symbol-spacing`.
- * [BREAKING] Renamed `background-image` to `background-pattern`.
- * [BREAKING] Renamed `line-image` to `line-pattern`.
- * [BREAKING] Renamed `fill-image` to `fill-pattern`.
- * [BREAKING] Renamed the `url` property of the video source type to `urls`.
- * [BREAKING] Coordinates in video sources are now specified in [lon, lat] order.
- * [BREAKING] Removed `text-max-size` and `icon-max-size` properties; these are now calculated automatically.
- * [BREAKING] `text-size` and `icon-size` are now layout properties instead of paint properties.
- * [BREAKING] Constants are no longer supported. If you are editing styles by

hand and want to use constants, you can use a preprocessing step with a tool like [ScreeSS](https://github.com/screee/screee).

- * [BREAKING] The format for ``mapbox://`` glyphs URLs has changed; you should now use ``mapbox://fonts/mapbox/{fontstack}/{range}.pbf``.
- * [BREAKING] Reversed the priority of layers for calculating label placement: labels for layers that appear later in the style now have priority over earlier layers.
- * Added a new ``image`` source type.
- * Added a new ``circle`` layer type.
- * Default map center location can now be set in the style.
- * Added ``mapbox://`` sprite URLs ``mapbox://sprite/{user | "mapbox"}/{id}``

7.5.0

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

7.4.1

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

7.0.0

Introduction of Mapbox GL style specification v7.

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

6.0.0 (Style spec v6)

Introduction of Mapbox GL style specification v6.

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

0.0.5 (in progress)

- * [BREAKING] Switch to suffix for transition properties (``transition-*`` -> ``*-transition``).
- * Added support for remote, non-Mapbox TileJSON sources.
- * [BREAKING] Source ``minZoom`` and ``maxZoom`` renamed to ``minzoom`` and ``maxzoom`` to match TileJSON.
- * Added support for ``mapbox://`` glyph URLs.
- * [BREAKING] Renamed ``raster-fade`` to ``raster-fade-duration``.

- * Added background-opacity property.
- * Added "tokens" property to string values that can autocomplete fields from layers
- * Added "units" property to describe value types

0.0.4 (Aug 8 2014)

- * Initial public release

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1034316672_1588680854.86/0/mapbox-mapbox-gl-style-spec-13-13-0-tgz/package/CHANGELOG.md

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

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

(e.g. map options or user interaction).",

```
"example": 12.5
```

```
},
```

```
"bearing": {
```

```
"type": "number",
```

```
"default": 0,
```

```
"period": 360,
```

```
"units": "degrees",
```

"doc": "Default bearing, in degrees. The bearing is the compass direction that is `\"up\"`; for example, a bearing of 90° orients the map so that east is up. This value will be used only if the map has not been positioned by other means (e.g. map options or user interaction).",

```
"example": 29
```

```
},
```

```
"pitch": {
```

```
"type": "number",
```

```
"default": 0,
```

```
"units": "degrees",
```

"doc": "Default pitch, in degrees. Zero is perpendicular to the surface, for a look straight down at the map, while a greater value like 60 looks ahead towards the horizon. The style pitch will be used only if the map has not been positioned by other means (e.g. map options or user interaction).",

```
"example": 50
```

```
},
```

```
"light": {
```

```
"type": "light",
```

```
"doc": "The global light source.",
```

```
"example": {
```

```
"anchor": "viewport",
```

```
"color": "white",
```

```
"intensity": 0.4
```

```
}
```

```
},
```

```
"sources": {
```

```
"required": true,
```

```
"type": "sources",
```

```
"doc": "Data source specifications.",
```

```
"example": {
```

```
"mapbox-streets": {
```

```
"type": "vector",
```

```
"url": "mapbox://mapbox.mapbox-streets-v6"
```

```
}
```

```
}
```

```
},
```

```
"sprite": {
```

```
"type": "string",
```

"doc": "A base URL for retrieving the sprite image and metadata. The extensions ``.png``, ``.json`` and scale factor ``${@}2x.png`` will be automatically appended. This property is required if any layer uses the ``.background-pattern``, ``.fill-pattern``, ``.line-pattern``, ``.fill-extrusion-pattern``, or ``.icon-image`` properties. The URL must be absolute, containing the [scheme, authority and path components](<https://en.wikipedia.org/wiki/URL#Syntax>).",

```

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

```

```

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

```



```

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

```

```

"type": "array",
"value": "string",
"doc": "An array of one or more tile source URLs, as in the TileJSON spec."
},
"bounds": {
"type": "array",
"value": "number",
"length": 4,
"default": [
-180,
-85.051129,
180,
85.051129
],
"doc": "An array containing the longitude and latitude of the southwest and northeast corners of the source's bounding box in the following order: `[sw.lng, sw.lat, ne.lng, ne.lat]`. When this property is included in a source, no tiles outside of the given bounds are requested by Mapbox GL."
},
"minzoom": {
"type": "number",
"default": 0,
"doc": "Minimum zoom level for which tiles are available, as in the TileJSON spec."
},
"maxzoom": {
"type": "number",
"default": 22,
"doc": "Maximum zoom level for which tiles are available, as in the TileJSON spec. Data from tiles at the maxzoom are used when displaying the map at higher zoom levels."
},
"tileSize": {
"type": "number",
"default": 512,
"units": "pixels",
"doc": "The minimum visual size to display tiles for this layer. Only configurable for raster layers."
},
"scheme": {
"type": "enum",
"values": {
"xyz": {
"doc": "Slippy map tilenames scheme."
},
"tms": {
"doc": "OSGeo spec scheme."
}
}
},
"default": "xyz",
"doc": "Influences the y direction of the tile coordinates. The global-mercator (aka Spherical Mercator) profile is assumed."

```

```

},
"attribution": {
  "type": "string",
  "doc": "Contains an attribution to be displayed when the map is shown to a user."
},
"*": {
  "type": "*",
  "doc": "Other keys to configure the data source."
}
},
"source_raster_dem": {
  "type": {
    "required": true,
    "type": "enum",
    "values": {
      "raster-dem": {
        "doc": "A RGB-encoded raster DEM source"
      }
    }
  },
  "doc": "The type of the source."
},
"url": {
  "type": "string",
  "doc": "A URL to a TileJSON resource. Supported protocols are `http:`, `https:`, and `mapbox://<Tileset ID>`."
},
"tiles": {
  "type": "array",
  "value": "string",
  "doc": "An array of one or more tile source URLs, as in the TileJSON spec."
},
"bounds": {
  "type": "array",
  "value": "number",
  "length": 4,
  "default": [
    -180,
    -85.051129,
    180,
    85.051129
  ],
  "doc": "An array containing the longitude and latitude of the southwest and northeast corners of the source's bounding box in the following order: `[sw.lng, sw.lat, ne.lng, ne.lat]`. When this property is included in a source, no tiles outside of the given bounds are requested by Mapbox GL."
},
"minzoom": {
  "type": "number",
  "default": 0,
  "doc": "Minimum zoom level for which tiles are available, as in the TileJSON spec."
}

```

```

},
"maxzoom": {
  "type": "number",
  "default": 22,
  "doc": "Maximum zoom level for which tiles are available, as in the TileJSON spec. Data from tiles at the
maxzoom are used when displaying the map at higher zoom levels."
},
"tileSize": {
  "type": "number",
  "default": 512,
  "units": "pixels",
  "doc": "The minimum visual size to display tiles for this layer. Only configurable for raster layers."
},
"attribution": {
  "type": "string",
  "doc": "Contains an attribution to be displayed when the map is shown to a user."
},
"encoding": {
  "type": "enum",
  "values": {
    "terrarium": {
      "doc": "Terrarium format PNG tiles. See https://aws.amazon.com/es/public-datasets/terrain/ for more info."
    },
    "mapbox": {
      "doc": "Mapbox Terrain RGB tiles. See https://www.mapbox.com/help/access-elevation-data/#mapbox-
terrain-rgb for more info."
    }
  },
  "default": "mapbox",
  "doc": "The encoding used by this source. Mapbox Terrain RGB is used by default"
},
"*": {
  "type": "*",
  "doc": "Other keys to configure the data source."
}
},
"source_geojson": {
  "type": {
    "required": true,
    "type": "enum",
    "values": {
      "geojson": {
        "doc": "A GeoJSON data source."
      }
    }
  },
  "doc": "The data type of the GeoJSON source."
},
"data": {

```

```

"type": "*",
"doc": "A URL to a GeoJSON file, or inline GeoJSON."
},
"maxzoom": {
"type": "number",
"default": 18,
"doc": "Maximum zoom level at which to create vector tiles (higher means greater detail at high zoom levels)."
},
"attribution": {
"type": "string",
"doc": "Contains an attribution to be displayed when the map is shown to a user."
},
"buffer": {
"type": "number",
"default": 128,
"maximum": 512,
"minimum": 0,
"doc": "Size of the tile buffer on each side. A value of 0 produces no buffer. A value of 512 produces a buffer as wide as the tile itself. Larger values produce fewer rendering artifacts near tile edges and slower performance."
},
"tolerance": {
"type": "number",
"default": 0.375,
"doc": "Douglas-Peucker simplification tolerance (higher means simpler geometries and faster performance)."
},
"cluster": {
"type": "boolean",
"default": false,
"doc": "If the data is a collection of point features, setting this to true clusters the points by radius into groups. Cluster groups become new `Point` features in the source with additional properties:\n * `cluster` Is `true` if the point is a cluster\n * `cluster_id` A unique id for the cluster to be used in conjunction with the [cluster inspection methods](https://www.mapbox.com/mapbox-gl-js/api/#geojsonsource#getclusterexpansionzoom)\n * `point_count` Number of original points grouped into this cluster\n * `point_count_abbreviated` An abbreviated point count"
},
"clusterRadius": {
"type": "number",
"default": 50,
"minimum": 0,
"doc": "Radius of each cluster if clustering is enabled. A value of 512 indicates a radius equal to the width of a tile."
},
"clusterMaxZoom": {
"type": "number",
"doc": "Max zoom on which to cluster points if clustering is enabled. Defaults to one zoom less than maxzoom (so that last zoom features are not clustered)."
},
"clusterProperties": {
"type": "*",

```

```

    "doc": "An object defining custom properties on the generated clusters if clustering is enabled, aggregating
values from clustered points. Has the form `{\"property_name\": [operator, map_expression]}`. `operator` is any
expression function that accepts at least 2 operands (e.g. `\"+\"` or `\"max\"`) — it accumulates the property value
from clusters/points the cluster contains; `map_expression` produces the value of a single point.\n\nExample:
`{\"sum\": [\"+\", [\"get\", \"scalerank\"]]}`.\n\nFor more advanced use cases, in place of `operator`, you can use a
custom reduce expression that references a special `[\"accumulated\"]` value, e.g.:`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": {
  "id": {
    "type": "string",
    "doc": "Unique layer name.",
    "required": true
  },
  "type": {
    "type": "enum",
    "values": {
      "fill": {
        "doc": "A filled polygon with an optional stroked border."
      }
    }
  }
}

```

```

"sdk-support": {
  "basic functionality": {
    "js": "0.10.0",
    "android": "2.0.1",
    "ios": "2.0.0",
    "macos": "0.1.0"
  }
}
},
"line": {
  "doc": "A stroked line.",
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    }
  }
},
"symbol": {
  "doc": "An icon or a text label.",
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    }
  }
},
"circle": {
  "doc": "A filled circle.",
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    }
  }
},
"heatmap": {
  "doc": "A heatmap.",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",

```



```

        "ios": "4.0.0",
        "macos": "0.7.0"
    }
}
},
"fill-extrusion": {
    "doc": "An extruded (3D) polygon.",
    "sdk-support": {
        "basic functionality": {
            "js": "0.27.0",
            "android": "5.1.0",
            "ios": "3.6.0",
            "macos": "0.5.0"
        }
    }
},
"raster": {
    "doc": "Raster map textures such as satellite imagery.",
    "sdk-support": {
        "basic functionality": {
            "js": "0.10.0",
            "android": "2.0.1",
            "ios": "2.0.0",
            "macos": "0.1.0"
        }
    }
},
"hillshade": {
    "doc": "Client-side hillshading visualization based on DEM data. Currently, the implementation only supports
Mapbox Terrain RGB and Mapzen Terrarium tiles.",
    "sdk-support": {
        "basic functionality": {
            "js": "0.43.0",
            "android": "6.0.0",
            "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"
],
"layout_background": {
  "visibility": {
    "type": "enum",
    "values": {
      "visible": {
        "doc": "The layer is shown."
      },
      "none": {
        "doc": "The layer is not shown."
      }
    },
    "default": "visible",
    "doc": "Whether this layer is displayed.",
    "sdk-support": {
      "basic functionality": {
        "js": "0.10.0",
        "android": "2.0.1",
        "ios": "2.0.0",
        "macos": "0.1.0"
      }
    },
    "property-type": "constant"
  },
  "layout_fill": {
    "fill-sort-key": {
      "type": "number",
      "doc": "Sorts features in ascending order based on this value. Features with a higher sort key will appear above features with a lower sort key.",
      "sdk-support": {
        "basic functionality": {
          "js": "1.2.0"
        },
        "data-driven styling": {
          "js": "1.2.0"
        }
      }
    },
  },

```

```

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

```

```

    "zoom",
    "feature"
  ]
},
"property-type": "data-driven"
},
"visibility": {
  "type": "enum",
  "values": {
    "visible": {
      "doc": "The layer is shown."
    },
    "none": {
      "doc": "The layer is not shown."
    }
  },
  "default": "visible",
  "doc": "Whether this layer is displayed.",
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    }
  },
  "property-type": "constant"
}
},
"layout_heatmap": {
  "visibility": {
    "type": "enum",
    "values": {
      "visible": {
        "doc": "The layer is shown."
      },
      "none": {
        "doc": "The layer is not shown."
      }
    },
    "default": "visible",
    "doc": "Whether this layer is displayed.",
    "sdk-support": {
      "basic functionality": {
        "js": "0.41.0",
        "android": "6.0.0",
        "ios": "4.0.0",
        "macos": "0.7.0"
      }
    }
  }
}

```

```

    }
  },
  "property-type": "constant"
}
},
"layout_fill-extrusion": {
  "visibility": {
    "type": "enum",
    "values": {
      "visible": {
        "doc": "The layer is shown."
      },
      "none": {
        "doc": "The layer is not shown."
      }
    },
    "default": "visible",
    "doc": "Whether this layer is displayed.",
    "sdk-support": {
      "basic functionality": {
        "js": "0.27.0",
        "android": "5.1.0",
        "ios": "3.6.0",
        "macos": "0.5.0"
      }
    },
    "property-type": "constant"
  }
},
"layout_line": {
  "line-cap": {
    "type": "enum",
    "values": {
      "butt": {
        "doc": "A cap with a squared-off end which is drawn to the exact endpoint of the line."
      },
      "round": {
        "doc": "A cap with a rounded end which is drawn beyond the endpoint of the line at a radius of one-half of the line's width and centered on the endpoint of the line."
      },
      "square": {
        "doc": "A cap with a squared-off end which is drawn beyond the endpoint of the line at a distance of one-half of the line's width."
      }
    },
    "default": "butt",
    "doc": "The display of line endings.",
    "sdk-support": {

```

```

"basic functionality": {
  "js": "0.10.0",
  "android": "2.0.1",
  "ios": "2.0.0",
  "macos": "0.1.0"
}
},
"expression": {
  "interpolated": false,
  "parameters": [
    "zoom"
  ]
},
"property-type": "data-constant"
},
"line-join": {
  "type": "enum",
  "values": {
    "bevel": {
      "doc": "A join with a squared-off end which is drawn beyond the endpoint of the line at a distance of one-half
of the line's width."
    },
    "round": {
      "doc": "A join with a rounded end which is drawn beyond the endpoint of the line at a radius of one-half of the
line's width and centered on the endpoint of the line."
    },
    "miter": {
      "doc": "A join with a sharp, angled corner which is drawn with the outer sides beyond the endpoint of the path
until they meet."
    }
  },
  "default": "miter",
  "doc": "The display of lines when joining.",
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    },
    "data-driven styling": {
      "js": "0.40.0",
      "android": "5.2.0",
      "ios": "3.7.0",
      "macos": "0.6.0"
    }
  },
  "expression": {

```

```

    "interpolated": false,
    "parameters": [
      "zoom",
      "feature"
    ]
  },
  "property-type": "data-driven"
},
"line-miter-limit": {
  "type": "number",
  "default": 2,
  "doc": "Used to automatically convert miter joins to bevel joins for sharp angles.",
  "requires": [
    {
      "line-join": "miter"
    }
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    }
  },
  "expression": {
    "interpolated": true,
    "parameters": [
      "zoom"
    ]
  },
  "property-type": "data-constant"
},
"line-round-limit": {
  "type": "number",
  "default": 1.05,
  "doc": "Used to automatically convert round joins to miter joins for shallow angles.",
  "requires": [
    {
      "line-join": "round"
    }
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    }
  }
}

```



```

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

```

```

    "macos": "0.1.0"
  }
},
"property-type": "constant"
}
},
"layout_symbol": {
  "symbol-placement": {
    "type": "enum",
    "values": {
      "point": {
        "doc": "The label is placed at the point where the geometry is located."
      },
      "line": {
        "doc": "The label is placed along the line of the geometry. Can only be used on `LineString` and `Polygon`
geometries."
      },
      "line-center": {
        "doc": "The label is placed at the center of the line of the geometry. Can only be used on `LineString` and
`Polygon` geometries. Note that a single feature in a vector tile may contain multiple line geometries."
      }
    },
    "default": "point",
    "doc": "Label placement relative to its geometry.",
    "sdk-support": {
      "basic functionality": {
        "js": "0.10.0",
        "android": "2.0.1",
        "ios": "2.0.0",
        "macos": "0.1.0"
      },
      "`line-center` value": {
        "js": "0.47.0",
        "android": "6.4.0",
        "ios": "4.3.0",
        "macos": "0.10.0"
      }
    },
    "expression": {
      "interpolated": false,
      "parameters": [
        "zoom"
      ]
    },
    "property-type": "data-constant"
  },
  "symbol-spacing": {
    "type": "number",

```

```

"default": 250,
"minimum": 1,
"units": "pixels",
"doc": "Distance between two symbol anchors.",
"requires": [
  {
    "symbol-placement": "line"
  }
],
"sdk-support": {
  "basic functionality": {
    "js": "0.10.0",
    "android": "2.0.1",
    "ios": "2.0.0",
    "macos": "0.1.0"
  }
},
"expression": {
  "interpolated": true,
  "parameters": [
    "zoom"
  ]
},
"property-type": "data-constant"
},
"symbol-avoid-edges": {
  "type": "boolean",
  "default": false,
  "doc": "If true, the symbols will not cross tile edges to avoid mutual collisions. Recommended in layers that don't
have enough padding in the vector tile to prevent collisions, or if it is a point symbol layer placed after a line symbol
layer. When using a client that supports global collision detection, like Mapbox GL JS version 0.42.0 or greater,
enabling this property is not needed to prevent clipped labels at tile boundaries.",
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    }
  },
  "expression": {
    "interpolated": false,
    "parameters": [
      "zoom"
    ]
  },
  "property-type": "data-constant"
},

```

```

"symbol-sort-key": {
  "type": "number",
  "doc": "Sorts features in ascending order based on this value. Features with 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": {
    "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",

```

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    "android": "6.6.0",
    "ios": "4.5.0",
    "macos": "0.12.0"
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},
"expression": {
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  "parameters": [
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  ]
},
"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": {
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    "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",

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    "macos": "0.1.0"
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},
"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": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    },
    "`auto` value": {
      "js": "0.25.0",
      "android": "4.2.0",
      "ios": "3.4.0",
      "macos": "0.3.0"
    }
  },
  "expression": {
    "interpolated": false,
    "parameters": [
      "zoom"
    ]
  },
  "property-type": "data-constant"
},
"icon-size": {
  "type": "number",
  "default": 1,
  "minimum": 0,
  "units": "factor of the original icon size",
  "doc": "Scales the original size of the icon by the provided factor. The new pixel size of the image will be the original pixel size multiplied by `icon-size`. 1 is the original size; 3 triples the size of the image.",
  "requires": [
    "icon-image"
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    },
  },
```

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"data-driven styling": {
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  "android": "5.1.0",
  "ios": "3.6.0",
  "macos": "0.5.0"
}
},
"expression": {
  "interpolated": true,
  "parameters": [
    "zoom",
    "feature"
  ]
},
"property-type": "data-driven"
},
"icon-text-fit": {
  "type": "enum",
  "values": {
    "none": {
      "doc": "The icon is displayed at its intrinsic aspect ratio."
    },
    "width": {
      "doc": "The icon is scaled in the x-dimension to fit the width of the text."
    },
    "height": {
      "doc": "The icon is scaled in the y-dimension to fit the height of the text."
    },
    "both": {
      "doc": "The icon is scaled in both x- and y-dimensions."
    }
  },
  "default": "none",
  "doc": "Scales the icon to fit around the associated text.",
  "requires": [
    "icon-image",
    "text-field"
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.21.0",
      "android": "4.2.0",
      "ios": "3.4.0",
      "macos": "0.2.1"
    }
  },
  "expression": {
    "interpolated": false,

```



```

    "parameters": [
      "zoom"
    ]
  },
  "property-type": "data-constant"
},
"icon-text-fit-padding": {
  "type": "array",
  "value": "number",
  "length": 4,
  "default": [
    0,
    0,
    0,
    0
  ],
  "units": "pixels",
  "doc": "Size of the additional area added to dimensions determined by `icon-text-fit`, in clockwise order: top,
right, bottom, left.",
  "requires": [
    "icon-image",
    "text-field",
    {
      "icon-text-fit": [
        "both",
        "width",
        "height"
      ]
    }
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.21.0",
      "android": "4.2.0",
      "ios": "3.4.0",
      "macos": "0.2.1"
    }
  },
  "expression": {
    "interpolated": true,
    "parameters": [
      "zoom"
    ]
  },
  "property-type": "data-constant"
},
"icon-image": {
  "type": "resolvedImage",

```

```

"doc": "Name of image in sprite to use for drawing an image background.",
"tokens": true,
"sdk-support": {
  "basic functionality": {
    "js": "0.10.0",
    "android": "2.0.1",
    "ios": "2.0.0",
    "macos": "0.1.0"
  },
  "data-driven styling": {
    "js": "0.35.0",
    "android": "5.1.0",
    "ios": "3.6.0",
    "macos": "0.5.0"
  }
},
"expression": {
  "interpolated": false,
  "parameters": [
    "zoom",
    "feature"
  ]
},
"property-type": "data-driven"
},
"icon-rotate": {
  "type": "number",
  "default": 0,
  "period": 360,
  "units": "degrees",
  "doc": "Rotates the icon clockwise.",
  "requires": [
    "icon-image"
  ]
},
"sdk-support": {
  "basic functionality": {
    "js": "0.10.0",
    "android": "2.0.1",
    "ios": "2.0.0",
    "macos": "0.1.0"
  },
  "data-driven styling": {
    "js": "0.21.0",
    "android": "5.0.0",
    "ios": "3.5.0",
    "macos": "0.4.0"
  }
},

```

```

"expression": {
  "interpolated": true,
  "parameters": [
    "zoom",
    "feature"
  ]
},
"property-type": "data-driven"
},
"icon-padding": {
  "type": "number",
  "default": 2,
  "minimum": 0,
  "units": "pixels",
  "doc": "Size of the additional area around the icon bounding box used for detecting symbol collisions.",
  "requires": [
    "icon-image"
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    }
  },
  "expression": {
    "interpolated": true,
    "parameters": [
      "zoom"
    ]
  },
  "property-type": "data-constant"
},
"icon-keep-upright": {
  "type": "boolean",
  "default": false,
  "doc": "If true, the icon may be flipped to prevent it from being rendered upside-down.",
  "requires": [
    "icon-image",
    {
      "icon-rotation-alignment": "map"
    },
    {
      "symbol-placement": [
        "line",
        "line-center"
      ]
    }
  ]
}

```

```

    }
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    }
  },
  "expression": {
    "interpolated": false,
    "parameters": [
      "zoom"
    ]
  },
  "property-type": "data-constant"
},
"icon-offset": {
  "type": "array",
  "value": "number",
  "length": 2,
  "default": [
    0,
    0
  ]
},

```

"doc": "Offset distance of icon from its anchor. Positive values indicate right and down, while negative values indicate left and up. Each component is multiplied by the value of `icon-size` to obtain the final offset in pixels. When combined with `icon-rotate` the offset will be as if the rotated direction was up.",

```

  "requires": [
    "icon-image"
  ]
},

```

```

"sdk-support": {
  "basic functionality": {
    "js": "0.10.0",
    "android": "2.0.1",
    "ios": "2.0.0",
    "macos": "0.1.0"
  },
  "data-driven styling": {
    "js": "0.29.0",
    "android": "5.0.0",
    "ios": "3.5.0",
    "macos": "0.4.0"
  }
},
"expression": {
  "interpolated": true,

```

```

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

```

```

    "macos": "0.6.0"
  },
  "data-driven styling": {
    "js": "0.40.0",
    "android": "5.2.0",
    "ios": "3.7.0",
    "macos": "0.6.0"
  }
},
"expression": {
  "interpolated": false,
  "parameters": [
    "zoom",
    "feature"
  ]
},
"property-type": "data-driven"
},
"icon-pitch-alignment": {
  "type": "enum",
  "values": {
    "map": {
      "doc": "The icon is aligned to the plane of the map."
    },
    "viewport": {
      "doc": "The icon is aligned to the plane of the viewport."
    },
    "auto": {
      "doc": "Automatically matches the value of `icon-rotation-alignment`."
    }
  },
  "default": "auto",
  "doc": "Orientation of icon when map is pitched.",
  "requires": [
    "icon-image"
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.39.0",
      "android": "5.2.0",
      "ios": "3.7.0",
      "macos": "0.6.0"
    }
  },
  "expression": {
    "interpolated": false,
    "parameters": [
      "zoom"
    ]
  }
}

```

```

    ]
  },
  "property-type": "data-constant"
},
"text-pitch-alignment": {
  "type": "enum",
  "values": {
    "map": {
      "doc": "The text is aligned to the plane of the map."
    },
    "viewport": {
      "doc": "The text is aligned to the plane of the viewport."
    },
    "auto": {
      "doc": "Automatically matches the value of `text-rotation-alignment`."
    }
  },
  "default": "auto",
  "doc": "Orientation of text when map is pitched.",
  "requires": [
    "text-field"
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.21.0",
      "android": "4.2.0",
      "ios": "3.4.0",
      "macos": "0.2.1"
    },
    "`auto` value": {
      "js": "0.25.0",
      "android": "4.2.0",
      "ios": "3.4.0",
      "macos": "0.3.0"
    }
  },
  "expression": {
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    "parameters": [
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    ]
  },
  "property-type": "data-constant"
},
"text-rotation-alignment": {
  "type": "enum",
  "values": {
    "map": {

```

```

    "doc": "When `symbol-placement` is set to `point`, aligns text east-west. When `symbol-placement` is set to
`line` or `line-center`, aligns text x-axes with the line."
  },
  "viewport": {
    "doc": "Produces glyphs whose x-axes are aligned with the x-axis of the viewport, regardless of the value of
`symbol-placement`."
  },
  "auto": {
    "doc": "When `symbol-placement` is set to `point`, this is equivalent to `viewport`. When `symbol-placement`
is set to `line` or `line-center`, this is equivalent to `map`."
  }
},
"default": "auto",
"doc": "In combination with `symbol-placement`, determines the rotation behavior of the individual glyphs
forming the text.",
"requires": [
  "text-field"
],
"sdk-support": {
  "basic functionality": {
    "js": "0.10.0",
    "android": "2.0.1",
    "ios": "2.0.0",
    "macos": "0.1.0"
  },
  "`auto` value": {
    "js": "0.25.0",
    "android": "4.2.0",
    "ios": "3.4.0",
    "macos": "0.3.0"
  }
},
"expression": {
  "interpolated": false,
  "parameters": [
    "zoom"
  ]
},
"property-type": "data-constant"
},
"text-field": {
  "type": "formatted",
  "default": "",
  "tokens": true,
  "doc": "Value to use for a text label. If a plain `string` is provided, it will be treated as a `formatted` with
default/inherited formatting options.",
  "sdk-support": {
    "basic functionality": {

```



```

    "js": "0.10.0",
    "android": "2.0.1",
    "ios": "2.0.0",
    "macos": "0.1.0"
  },
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    "js": "0.33.0",
    "android": "5.0.0",
    "ios": "3.5.0",
    "macos": "0.4.0"
  }
},
"expression": {
  "interpolated": false,
  "parameters": [
    "zoom",
    "feature"
  ]
},
"property-type": "data-driven"
},
"text-font": {
  "type": "array",
  "value": "string",
  "default": [
    "Open Sans Regular",
    "Arial Unicode MS Regular"
  ],
  "doc": "Font stack to use for displaying text.",
  "requires": [
    "text-field"
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    },
    "data-driven styling": {
      "js": "0.43.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"expression": {
  "interpolated": false,

```

```

    "parameters": [
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      "feature"
    ]
  },
  "property-type": "data-driven"
},
"text-size": {
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  "default": 16,
  "minimum": 0,
  "units": "pixels",
  "doc": "Font size.",
  "requires": [
    "text-field"
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    },
    "data-driven styling": {
      "js": "0.35.0",
      "android": "5.1.0",
      "ios": "3.6.0",
      "macos": "0.5.0"
    }
  },
  "expression": {
    "interpolated": true,
    "parameters": [
      "zoom",
      "feature"
    ]
  },
  "property-type": "data-driven"
},
"text-max-width": {
  "type": "number",
  "default": 10,
  "minimum": 0,
  "units": "ems",
  "doc": "The maximum line width for text wrapping.",
  "requires": [
    "text-field"
  ],

```

```

"sdk-support": {
  "basic functionality": {
    "js": "0.10.0",
    "android": "2.0.1",
    "ios": "2.0.0",
    "macos": "0.1.0"
  },
  "data-driven styling": {
    "js": "0.40.0",
    "android": "5.2.0",
    "ios": "3.7.0",
    "macos": "0.6.0"
  }
},
"expression": {
  "interpolated": true,
  "parameters": [
    "zoom",
    "feature"
  ]
},
"property-type": "data-driven"
},
"text-line-height": {
  "type": "number",
  "default": 1.2,
  "units": "ems",
  "doc": "Text leading value for multi-line text.",
  "requires": [
    "text-field"
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    }
  },
  "expression": {
    "interpolated": true,
    "parameters": [
      "zoom"
    ]
  },
  "property-type": "data-constant"
},
"text-letter-spacing": {

```

```

"type": "number",
"default": 0,
"units": "ems",
"doc": "Text tracking amount.",
"requires": [
  "text-field"
],
"sdk-support": {
  "basic functionality": {
    "js": "0.10.0",
    "android": "2.0.1",
    "ios": "2.0.0",
    "macos": "0.1.0"
  },
  "data-driven styling": {
    "js": "0.40.0",
    "android": "5.2.0",
    "ios": "3.7.0",
    "macos": "0.6.0"
  }
},
"expression": {
  "interpolated": true,
  "parameters": [
    "zoom",
    "feature"
  ]
},
"property-type": "data-driven"
},
"text-justify": {
  "type": "enum",
  "values": {
    "auto": {
      "doc": "The text is aligned towards the anchor position."
    },
    "left": {
      "doc": "The text is aligned to the left."
    },
    "center": {
      "doc": "The text is centered."
    },
    "right": {
      "doc": "The text is aligned to the right."
    }
  },
  "default": "center",
  "doc": "Text justification options.",

```

```

"requires": [
  "text-field"
],
"sdk-support": {
  "basic functionality": {
    "js": "0.10.0",
    "android": "2.0.1",
    "ios": "2.0.0",
    "macos": "0.1.0"
  },
  "data-driven styling": {
    "js": "0.39.0",
    "android": "5.2.0",
    "ios": "3.7.0",
    "macos": "0.6.0"
  },
  "auto": {
    "js": "0.54.0",
    "android": "7.4.0",
    "ios": "4.10.0",
    "macos": "0.14.0"
  }
},
"expression": {
  "interpolated": false,
  "parameters": [
    "zoom",
    "feature"
  ]
},
"property-type": "data-driven"
},
"text-radial-offset": {
  "type": "number",
  "units": "ems",
  "default": 0,
  "doc": "Radial offset of text, in the direction of the symbol's anchor. Useful in combination with `text-variable-anchor`, which defaults to using the two-dimensional `text-offset` if present.",
  "sdk-support": {
    "basic functionality": {
      "js": "0.54.0",
      "android": "7.4.0",
      "ios": "4.10.0",
      "macos": "0.14.0"
    },
    "data-driven styling": {
      "js": "0.54.0",
      "android": "7.4.0",

```

```

    "ios": "4.10.0",
    "macos": "0.14.0"
  }
},
"requires": [
  "text-field"
],
"property-type": "data-driven",
"expression": {
  "interpolated": true,
  "parameters": [
    "zoom",
    "feature"
  ]
}
},
"text-variable-anchor": {
  "type": "array",
  "value": "enum",
  "values": {
    "center": {
      "doc": "The center of the text is placed closest to the anchor."
    },
    "left": {
      "doc": "The left side of the text is placed closest to the anchor."
    },
    "right": {
      "doc": "The right side of the text is placed closest to the anchor."
    },
    "top": {
      "doc": "The top of the text is placed closest to the anchor."
    },
    "bottom": {
      "doc": "The bottom of the text is placed closest to the anchor."
    },
    "top-left": {
      "doc": "The top left corner of the text is placed closest to the anchor."
    },
    "top-right": {
      "doc": "The top right corner of the text is placed closest to the anchor."
    },
    "bottom-left": {
      "doc": "The bottom left corner of the text is placed closest to the anchor."
    },
    "bottom-right": {
      "doc": "The bottom right corner of the text is placed closest to the anchor."
    }
  }
},

```

```

"requires": [
  "text-field",
  {
    "symbol-placement": [
      "point"
    ]
  }
],
"doc": "To increase the chance of placing high-priority labels on the map, you can provide an array of `text-anchor` locations: the renderer will attempt to place the label at each location, in order, before moving onto the next label. Use `text-justify: auto` to choose justification based on anchor position. To apply an offset, use the `text-radial-offset` or the two-dimensional `text-offset`.",
"sdk-support": {
  "basic functionality": {
    "js": "0.54.0",
    "android": "7.4.0",
    "ios": "4.10.0",
    "macos": "0.14.0"
  }
},
"expression": {
  "interpolated": false,
  "parameters": [
    "zoom"
  ]
},
"property-type": "data-constant"
},
"text-anchor": {
  "type": "enum",
  "values": {
    "center": {
      "doc": "The center of the text is placed closest to the anchor."
    },
    "left": {
      "doc": "The left side of the text is placed closest to the anchor."
    },
    "right": {
      "doc": "The right side of the text is placed closest to the anchor."
    },
    "top": {
      "doc": "The top of the text is placed closest to the anchor."
    },
    "bottom": {
      "doc": "The bottom of the text is placed closest to the anchor."
    },
    "top-left": {
      "doc": "The top left corner of the text is placed closest to the anchor."
    }
  }
}

```

```

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

```



```

"text-field",
{
  "symbol-placement": [
    "line",
    "line-center"
  ]
}
],
"sdk-support": {
  "basic functionality": {
    "js": "0.10.0",
    "android": "2.0.1",
    "ios": "2.0.0",
    "macos": "0.1.0"
  }
},
"expression": {
  "interpolated": true,
  "parameters": [
    "zoom"
  ]
},
"property-type": "data-constant"
},
"text-writing-mode": {
  "type": "array",
  "value": "enum",
  "values": {
    "horizontal": {
      "doc": "If a text's language supports horizontal writing mode, symbols with point placement would be laid out horizontally."
    },
    "vertical": {
      "doc": "If a text's language supports vertical writing mode, symbols with point placement would be laid out vertically."
    }
  },
  "doc": "The property allows control over a symbol's orientation. Note that the property values act as a hint, so that a symbol whose language doesn't support the provided orientation will be laid out in its natural orientation. Example: English point symbol will be rendered horizontally even if array value contains single 'vertical' enum value. The order of elements in an array 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": {
      "interpolated": false,
      "parameters": [
        "zoom"
      ]
    },
    "property-type": "data-constant"
  },
  "text-rotate": {
    "type": "number",
    "default": 0,
    "period": 360,
    "units": "degrees",
    "doc": "Rotates the text clockwise.",
    "requires": [
      "text-field"
    ]
  },
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    },
    "data-driven styling": {
      "js": "0.35.0",
      "android": "5.1.0",
      "ios": "3.6.0",
      "macos": "0.5.0"
    }
  },
  "expression": {
    "interpolated": true,
    "parameters": [
      "zoom",
      "feature"
    ]
  },
  "property-type": "data-driven"

```

```

},
"text-padding": {
  "type": "number",
  "default": 2,
  "minimum": 0,
  "units": "pixels",
  "doc": "Size of the additional area around the text bounding box used for detecting symbol collisions.",
  "requires": [
    "text-field"
  ],
},
"sdk-support": {
  "basic functionality": {
    "js": "0.10.0",
    "android": "2.0.1",
    "ios": "2.0.0",
    "macos": "0.1.0"
  }
},
"expression": {
  "interpolated": true,
  "parameters": [
    "zoom"
  ]
},
"property-type": "data-constant"
},
"text-keep-upright": {
  "type": "boolean",
  "default": true,
  "doc": "If true, the text may be flipped vertically to prevent it from being rendered upside-down.",
  "requires": [
    "text-field",
    {
      "text-rotation-alignment": "map"
    },
    {
      "symbol-placement": [
        "line",
        "line-center"
      ]
    }
  ],
},
"sdk-support": {
  "basic functionality": {
    "js": "0.10.0",
    "android": "2.0.1",
    "ios": "2.0.0",
    "macos": "0.1.0"
  }
}

```

```

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

```

```

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

```

```

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

```

```

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

```

```

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

```



```

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

```

```

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

```

```

    }
  },
  "doc": "The interpolation strategy to use in function evaluation.",
  "default": "exponential"
},
"colorSpace": {
  "type": "enum",
  "values": {
    "rgb": {
      "doc": "Use the RGB color space to interpolate color values"
    },
    "lab": {
      "doc": "Use the LAB color space to interpolate color values."
    },
    "hcl": {
      "doc": "Use the HCL color space to interpolate color values, interpolating the Hue, Chroma, and Luminance channels individually."
    }
  },
  "doc": "The color space in which colors interpolated. Interpolating colors in perceptual color spaces like LAB and HCL tend to produce color ramps that look more consistent and produce colors that can be differentiated more easily than those interpolated in RGB space.",
  "default": "rgb"
},
"default": {
  "type": "*",
  "required": false,
  "doc": "A value to serve as a fallback function result when a value isn't otherwise available. It is used in the following circumstances:\n* In categorical functions, when the feature value does not match any of the stop domain values.\n* In property and zoom-and-property functions, when a feature does not contain a value for the specified property.\n* In identity functions, when the feature value is not valid for the style property (for example, if the function is being used for a `circle-color` property but the feature property value is not a string or not a valid color).\n* In interval or exponential property and zoom-and-property functions, when the feature value is not numeric.\nIf no default is provided, the style property's default is used in these circumstances."
}
},
"function_stop": {
  "type": "array",
  "minimum": 0,
  "maximum": 24,
  "value": [
    "number",
    "color"
  ],
  "length": 2,
  "doc": "Zoom level and value pair."
},
"expression": {

```

```

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

```

expression is evaluated, it is not of the asserted type, then this assertion will cause the whole expression to be aborted.",

```
"group": "Types",
"sdk-support": {
  "basic functionality": {
    "js": "0.41.0",
    "android": "6.0.0",
    "ios": "4.0.0",
    "macos": "0.7.0"
  }
},
"at": {
  "doc": "Retrieves an item from an array.",
  "group": "Lookup",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  },
"in": {
  "doc": "Determines whether an item exists in an array or a substring exists in a string.",
  "group": "Lookup",
  "sdk-support": {
    "basic functionality": {
      "js": "1.6.0"
    }
  },
"case": {
  "doc": "Selects the first output whose corresponding test condition evaluates to true, or the fallback value otherwise.",
  "group": "Decision",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  },
"match": {
  "doc": "Selects the output whose label value matches the input value, or the fallback value if no match is found.
```

The input can be any expression (e.g. `["get", "building_type"]`). Each label must be either:
`*` a single literal value;
`*` an array of literal values, whose values must be all strings or all numbers (e.g. `[100, 101]` or `["c", "b"]`). The input matches if any of the values in the array matches, similar to the `"in"` operator.
 Each label must be unique. If the input type does not match the type of the labels, the result will be the fallback value.",

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

```
"coalesce": {
  "doc": "Evaluates each expression in turn until the first non-null value is obtained, and returns that value.",
  "group": "Decision",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
```

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

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

```
"interpolate": {
  "doc": "Produces continuous, smooth results by interpolating between pairs of input and output values (\"stops\"). The `input` may be any numeric expression (e.g., `["get", "population"]`). Stop inputs must be numeric literals in strictly ascending order. The output type must be `number`, `array<number>`, or `color`.  

  Interpolation types:  

linear: interpolates linearly between the pair of stops just less than and just greater than the input.  

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.
["cubic-bezier", x1, y1, x2, y2]: interpolates using the cubic bezier curve defined by the given control points.",

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

```
},  
"interpolate-hcl": {  
  "doc": "Produces continuous, smooth results by interpolating between pairs of input and output values  
(\"stops\"). Works like `interpolate`, but the output type must be `color`, and the interpolation is performed in the  
Hue-Chroma-Luminance color space.",
```

```
"group": "Ramps, scales, curves",  
"sdk-support": {  
  "basic functionality": {  
    "js": "0.49.0"  
  }  
}
```

```
},  
"interpolate-lab": {  
  "doc": "Produces continuous, smooth results by interpolating between pairs of input and output values  
(\"stops\"). Works like `interpolate`, but the output type must be `color`, and the interpolation is performed in the  
CIELAB color space.",
```

```
"group": "Ramps, scales, curves",  
"sdk-support": {  
  "basic functionality": {  
    "js": "0.49.0"  
  }  
}
```

```
},
```

```
"ln2": {  
  "doc": "Returns mathematical constant ln(2).",  
  "group": "Math",  
  "sdk-support": {  
    "basic functionality": {  
      "js": "0.41.0",  
      "android": "6.0.0",  
      "ios": "4.0.0",  
      "macos": "0.7.0"  
    }  
  }  
}
```

```
},  
"pi": {  
  "doc": "Returns the mathematical constant pi.",
```

```

"group": "Math",
"sdk-support": {
  "basic functionality": {
    "js": "0.41.0",
    "android": "6.0.0",
    "ios": "4.0.0",
    "macos": "0.7.0"
  }
}
},
"e": {
  "doc": "Returns the mathematical constant e.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"typeof": {
  "doc": "Returns a string describing the type of the given value.",
  "group": "Types",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"string": {
  "doc": "Asserts that the input value is a string. If multiple values are provided, each one is evaluated in order
until a string is obtained. If none of the inputs are strings, the expression is an error.",
  "group": "Types",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"number": {

```


"doc": "Asserts that the input value is a number. If multiple values are provided, each one is evaluated in order until a number is obtained. If none of the inputs are numbers, the expression is an error.",

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

"doc": "Asserts that the input value is a boolean. If multiple values are provided, each one is evaluated in order until a boolean is obtained. If none of the inputs are booleans, the expression is an error.",

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

"doc": "Asserts that the input value is an object. If multiple values are provided, each one is evaluated in order until an object is obtained. If none of the inputs are objects, the expression is an error.",

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

"doc": "Returns a `collator` for use in locale-dependent comparison operations. The `case-sensitive` and `diacritic-sensitive` options default to `false`. The `locale` argument specifies the IETF language tag of the locale to use. If none is provided, the default locale is used. If the requested locale is not available, the `collator` will use a system-defined fallback locale. Use `resolved-locale` to test the results of locale fallback behavior.",

```
"group": "Types",  
"sdk-support": {  
  "basic functionality": {  
    "js": "0.45.0",  
    "android": "6.5.0",
```

```

    "ios": "4.2.0",
    "macos": "0.9.0"
  }
}
},

```

```

"format": {

```

"doc": "Returns `formatted` text containing annotations for use in mixed-format `text-field` entries. For a `text-field` entries of a string type, following option object's properties are supported: If set, the `text-font` value overrides the font specified by the root layout properties. If set, the `font-scale` value specifies a scaling factor relative to the `text-size` specified in the root layout properties. If set, the `text-color` value overrides the color specified by the root paint properties for this layer.",

```

  "group": "Types",

```

```

  "sdk-support": {

```

```

    "basic functionality": {

```

```

      "js": "0.48.0",

```

```

      "android": "6.7.0",

```

```

      "ios": "4.6.0",

```

```

      "macos": "0.12.0"

```

```

    },

```

```

    "text-font": {

```

```

      "js": "0.48.0",

```

```

      "android": "6.7.0",

```

```

      "ios": "4.6.0",

```

```

      "macos": "0.12.0"

```

```

    },

```

```

    "font-scale": {

```

```

      "js": "0.48.0",

```

```

      "android": "6.7.0",

```

```

      "ios": "4.6.0",

```

```

      "macos": "0.12.0"

```

```

    },

```

```

    "text-color": {

```

```

      "js": "1.3.0",

```

```

      "android": "7.3.0",

```

```

      "ios": "4.10.0",

```

```

      "macos": "0.14.0"

```

```

    },

```

```

    "image": {

```

```

      "js": "1.6.0"

```

```

    }

```

```

  }
},

```

```

"image": {

```

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

```

"group": "Types",
"sdk-support": {
  "basic functionality": {
    "js": "1.4.0",
    "android": "8.6.0",
    "ios": "5.6.0"
  }
}
},
"number-format": {
  "doc": "Converts the input number into a string representation using the providing formatting rules. If set, the `locale` argument specifies the locale to use, as a BCP 47 language tag. If set, the `currency` argument specifies an ISO 4217 code to use for currency-style formatting. If set, the `min-fraction-digits` and `max-fraction-digits` arguments specify the minimum and maximum number of fractional digits to include.",
  "group": "Types",
  "sdk-support": {
    "basic functionality": {
      "js": "0.54.0"
    }
  }
},
"to-string": {
  "doc": "Converts the input value to a string. If the input is `null`, the result is `\"\"`. If the input is a boolean, the result is `\"true\"` or `\"false\"`. If the input is a number, it is converted to a string as specified by the [\"NumberToString\" 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 argument is provided. Returns null if the requested property is missing.",

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

},
"has": {
 "doc": "Tests for the presence of an property value in the current feature's properties, or from another object if a second argument is provided.",

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

```

    }
  },
  "length": {
    "doc": "Gets the length of an array or string.",
    "group": "Lookup",
    "sdk-support": {
      "basic functionality": {
        "js": "0.41.0",
        "android": "6.0.0",
        "ios": "4.0.0",
        "macos": "0.7.0"
      }
    }
  },
  "properties": {
    "doc": "Gets the feature properties object. Note that in some cases, it may be more efficient to use [\"get\",
    \"property_name\"] directly.",
    "group": "Feature data",
    "sdk-support": {
      "basic functionality": {
        "js": "0.41.0",
        "android": "6.0.0",
        "ios": "4.0.0",
        "macos": "0.7.0"
      }
    }
  },
  "feature-state": {
    "doc": "Retrieves a property value from the current feature's state. Returns null if the requested property is not
    present on the feature's state. A feature's state is not part of the GeoJSON or vector tile data, and must be set
    programmatically on each feature. Features are identified by their `id` attribute, which must be an integer or a string
    that can be cast to an integer. Note that [\"feature-state\"] can only be used with paint properties that support data-
    driven styling.",
    "group": "Feature data",
    "sdk-support": {
      "basic functionality": {
        "js": "0.46.0"
      }
    }
  },
  "geometry-type": {
    "doc": "Gets the feature's geometry type: Point, MultiPoint, LineString, MultiLineString, Polygon,
    MultiPolygon.",
    "group": "Feature data",
    "sdk-support": {
      "basic functionality": {
        "js": "0.41.0",
        "android": "6.0.0",

```

```

        "ios": "4.0.0",
        "macos": "0.7.0"
    }
}
},
"id": {
    "doc": "Gets the feature's id, if it has one.",
    "group": "Feature data",
    "sdk-support": {
        "basic functionality": {
            "js": "0.41.0",
            "android": "6.0.0",
            "ios": "4.0.0",
            "macos": "0.7.0"
        }
    }
},
"zoom": {
    "doc": "Gets the current zoom level. Note that in style layout and paint properties, [\"zoom\"] may only appear
as the input to a top-level \"step\" or \"interpolate\" expression.",
    "group": "Zoom",
    "sdk-support": {
        "basic functionality": {
            "js": "0.41.0",
            "android": "6.0.0",
            "ios": "4.0.0",
            "macos": "0.7.0"
        }
    }
},
"heatmap-density": {
    "doc": "Gets the kernel density estimation of a pixel in a heatmap layer, which is a relative measure of how
many data points are crowded around a particular pixel. Can only be used in the `heatmap-color` property.",
    "group": "Heatmap",
    "sdk-support": {
        "basic functionality": {
            "js": "0.41.0",
            "android": "6.0.0",
            "ios": "4.0.0",
            "macos": "0.7.0"
        }
    }
},
"line-progress": {
    "doc": "Gets the progress along a gradient line. Can only be used in the `line-gradient` property.",
    "group": "Feature data",
    "sdk-support": {
        "basic functionality": {

```

```

    "js": "0.45.0",
    "android": "6.5.0",
    "ios": "4.6.0",
    "macos": "0.12.0"
  }
}
},
"accumulated": {
  "doc": "Gets the value of a cluster property accumulated so far. Can only be used in the `clusterProperties`
option of a clustered GeoJSON source.",
  "group": "Feature data",
  "sdk-support": {
    "basic functionality": {
      "js": "0.53.0"
    }
  }
},
"+": {
  "doc": "Returns the sum of the inputs.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"*": {
  "doc": "Returns the product of the inputs.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"-": {
  "doc": "For two inputs, returns the result of subtracting the second input from the first. For a single input,
returns the result of subtracting it from 0.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",

```



```

    "android": "6.0.0",
    "ios": "4.0.0",
    "macos": "0.7.0"
  }
}
},
"/": {
  "doc": "Returns the result of floating point division of the first input by the second.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
}
},
"%": {
  "doc": "Returns the remainder after integer division of the first input by the second.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
}
},
"^": {
  "doc": "Returns the result of raising the first input to the power specified by the second.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
}
},
"sqrt": {
  "doc": "Returns the square root of the input.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.42.0",

```

```

    "android": "6.0.0",
    "ios": "4.0.0",
    "macos": "0.7.0"
  }
}
},
"log10": {
  "doc": "Returns the base-ten logarithm of the input.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"ln": {
  "doc": "Returns the natural logarithm of the input.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"log2": {
  "doc": "Returns the base-two logarithm of the input.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"sin": {
  "doc": "Returns the sine of the input.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",

```

```

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

```

```

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

```

```

    "js": "0.45.0",
    "android": "6.0.0",
    "ios": "4.0.0",
    "macos": "0.7.0"
  }
},
"abs": {
  "doc": "Returns the absolute value of the input.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.45.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"ceil": {
  "doc": "Returns the smallest integer that is greater than or equal to the input.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.45.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"floor": {
  "doc": "Returns the largest integer that is less than or equal to the input.",
  "group": "Math",
  "sdk-support": {
    "basic functionality": {
      "js": "0.45.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"===": {
  "doc": "Returns `true` if the input values are equal, `false` otherwise. The comparison is strictly typed: values of different runtime types are always considered unequal. Cases where the types are known to be different at parse time are considered invalid and will produce a parse error. Accepts an optional `collator` argument to control locale-dependent string comparisons.",

```

```

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

```

"doc": "Returns `true` if the input values are not equal, `false` otherwise. The comparison is strictly typed: values of different runtime types are always considered unequal. Cases where the types are known to be different at parse time are considered invalid and will produce a parse error. Accepts an optional `collator` argument to control locale-dependent string comparisons.",

```

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

```

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

```

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

```

```

    "macos": "0.7.0"
  },
  "collator": {
    "js": "0.45.0",
    "android": "6.5.0",
    "ios": "4.2.0",
    "macos": "0.9.0"
  }
},
"<": {

```

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

```

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

```

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

```

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

```

```

    "macos": "0.9.0"
  }
}
},
"<=": {

```

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

```

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

```

```

"all": {

```

"doc": "Returns `true` if all the inputs are `true`, `false` otherwise. The inputs are evaluated in order, and evaluation is short-circuiting: once an input expression evaluates to `false`, the result is `false` and no further input expressions are evaluated.",

```

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

```

```

"any": {

```

"doc": "Returns `true` if any of the inputs are `true`, `false` otherwise. The inputs are evaluated in order, and evaluation is short-circuiting: once an input expression evaluates to `true`, the result is `true` and no further input expressions are evaluated.",

```

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

```



```

    "ios": "4.0.0",
    "macos": "0.7.0"
  }
}
},
"!": {
  "doc": "Logical negation. Returns `true` if the input is `false`, and `false` if the input is `true`.",
  "group": "Decision",
  "sdk-support": {
    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  }
},
"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"
    }
  }
},
"uppercase": {
  "doc": "Returns the input string converted to uppercase. Follows the Unicode Default Case Conversion algorithm and the locale-insensitive case mappings in the Unicode Character Database.",
  "group": "String",
  "sdk-support": {

```

```

    "basic functionality": {
      "js": "0.41.0",
      "android": "6.0.0",
      "ios": "4.0.0",
      "macos": "0.7.0"
    }
  },
  "downcase": {
    "doc": "Returns the input string converted to lowercase. Follows the Unicode Default Case Conversion algorithm and the locale-insensitive case mappings in the Unicode Character Database.",
    "group": "String",
    "sdk-support": {
      "basic functionality": {
        "js": "0.41.0",
        "android": "6.0.0",
        "ios": "4.0.0",
        "macos": "0.7.0"
      }
    }
  },
  "concat": {
    "doc": "Returns a `string` consisting of the concatenation of the inputs. Each input is converted to a string as if by `to-string`.",
    "group": "String",
    "sdk-support": {
      "basic functionality": {
        "js": "0.41.0",
        "android": "6.0.0",
        "ios": "4.0.0",
        "macos": "0.7.0"
      }
    }
  },
  "resolved-locale": {
    "doc": "Returns the IETF language tag of the locale being used by the provided `collator`. This can be used to determine the default system locale, or to determine if a requested locale was successfully loaded.",
    "group": "String",
    "sdk-support": {
      "basic functionality": {
        "js": "0.45.0",
        "android": "6.5.0",
        "ios": "4.2.0",
        "macos": "0.9.0"
      }
    }
  }
}

```

```

},
"light": {
  "anchor": {
    "type": "enum",
    "default": "viewport",
    "values": {
      "map": {
        "doc": "The position of the light source is aligned to the rotation of the map."
      },
      "viewport": {
        "doc": "The position of the light source is aligned to the rotation of the viewport."
      }
    },
  },
  "property-type": "data-constant",
  "transition": false,
  "expression": {
    "interpolated": false,
    "parameters": [
      "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"
  }
},
"color": {
  "type": "color",
  "property-type": "data-constant",
  "default": "#ffffff",
  "expression": {
    "interpolated": true,
    "parameters": [
      "zoom"
    ]
  }
},
"transition": true,
"doc": "Color tint for lighting extruded geometries.",
"sdk-support": {
  "basic functionality": {
    "js": "0.27.0",
    "android": "5.1.0",
    "ios": "3.6.0",
    "macos": "0.5.0"
  }
},
"intensity": {
  "type": "number",
  "property-type": "data-constant",
  "default": 0.5,
  "minimum": 0,
  "maximum": 1,
  "expression": {
```

```

    "interpolated": true,
    "parameters": [
      "zoom"
    ]
  },
  "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"
    }
  }
},
"paint": [
  "paint_fill",
  "paint_line",
  "paint_circle",
  "paint_heatmap",
  "paint_fill-extrusion",
  "paint_symbol",
  "paint_raster",
  "paint_hillshade",
  "paint_background"
],
"paint_fill": {
  "fill-antialias": {
    "type": "boolean",
    "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"
    },
    "data-driven styling": {
      "js": "0.21.0",
      "android": "5.0.0",
      "ios": "3.5.0",
      "macos": "0.4.0"
    }
  },
},
"expression": {
  "interpolated": true,
  "parameters": [
    "zoom",
    "feature",
    "feature-state"
  ]
},
"property-type": "data-driven"
},
"fill-color": {
  "type": "color",
  "default": "#000000",
  "doc": "The color of the filled part of this layer. This color can be specified as `rgba` with an alpha component
and the color's opacity will not affect the opacity of the 1px stroke, if it is used.",
  "transition": true,
  "requires": [
    {
      "!": "fill-pattern"
    }
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",

```

```

    "ios": "2.0.0",
    "macos": "0.1.0"
  },
  "data-driven styling": {
    "js": "0.19.0",
    "android": "5.0.0",
    "ios": "3.5.0",
    "macos": "0.4.0"
  }
},
"expression": {
  "interpolated": true,
  "parameters": [
    "zoom",
    "feature",
    "feature-state"
  ]
},
"property-type": "data-driven"
},
"fill-outline-color": {
  "type": "color",
  "doc": "The outline color of the fill. Matches the value of `fill-color` if unspecified.",
  "transition": true,
  "requires": [
    {
      "!": "fill-pattern"
    },
    {
      "fill-antialias": true
    }
  ],
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    },
    "data-driven styling": {
      "js": "0.19.0",
      "android": "5.0.0",
      "ios": "3.5.0",
      "macos": "0.4.0"
    }
  }
},
"expression": {
  "interpolated": true,

```

```

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

```



```

    "fill-translate"
  ],
  "sdk-support": {
    "basic functionality": {
      "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-pattern": {
  "type": "resolvedImage",
  "transition": true,
  "doc": "Name of image in sprite to use for drawing image fills. For seamless patterns, image width and height must be a factor of two (2, 4, 8, ..., 512). Note that zoom-dependent expressions will be evaluated only at integer zoom levels.",
  "sdk-support": {
    "basic functionality": {
      "js": "0.10.0",
      "android": "2.0.1",
      "ios": "2.0.0",
      "macos": "0.1.0"
    },
    "data-driven styling": {
      "js": "0.49.0",
      "android": "6.5.0",
      "macos": "0.11.0",
      "ios": "4.4.0"
    }
  },
  "expression": {
    "interpolated": false,
    "parameters": [
      "zoom",
      "feature"
    ]
  },
  "property-type": "cross-faded-data-driven"
}
},

```

```

"paint_fill-extrusion": {
  "fill-extrusion-opacity": {
    "type": "number",
    "default": 1,
    "minimum": 0,
    "maximum": 1,
    "doc": "The opacity of the entire fill extrusion layer. This is rendered on a per-layer, not per-feature, basis, and
data-driven styling is not available.",
    "transition": true,
    "sdk-support": {
      "basic functionality": {
        "js": "0.27.0",
        "android": "5.1.0",
        "ios": "3.6.0",
        "macos": "0.5.0"
      }
    },
    "expression": {
      "interpolated": true,
      "parameters": [
        "zoom"
      ]
    },
    "property-type": "data-constant"
  },
  "fill-extrusion-color": {
    "type": "color",
    "default": "#000000",
    "doc": "The base color of the extruded fill. The extrusion's surfaces will be shaded differently based on this color
in combination with the root `light` settings. If this color is specified as `rgba` with an alpha component, the alpha
component will be ignored; use `fill-extrusion-opacity` to set layer opacity.",
    "transition": true,
    "requires": [
      {
        "!": "fill-extrusion-pattern"
      }
    ],
    "sdk-support": {
      "basic functionality": {
        "js": "0.27.0",
        "android": "5.1.0",
        "ios": "3.6.0",
        "macos": "0.5.0"
      }
    },
    "data-driven styling": {
      "js": "0.27.0",
      "android": "5.1.0",
      "ios": "3.6.0",

```

```

    "macos": "0.5.0"
  }
},
"expression": {
  "interpolated": true,
  "parameters": [
    "zoom",
    "feature",
    "feature-state"
  ]
},
"property-type": "data-driven"
},
"fill-extrusion-translate": {
  "type": "array",
  "value": "number",
  "length": 2,
  "default": [
    0,
    0
  ],
  "transition": true,
  "units": "pixels",
  "doc": "The geometry's offset. Values are [x, y] where negatives indicate left and up (on the flat plane), respectively.",
  "sdk-support": {
    "basic functionality": {
      "js": "0.27.0",
      "android": "5.1.0",
      "ios": "3.6.0",
      "macos": "0.5.0"
    }
  },
  "expression": {
    "interpolated": true,
    "parameters": [
      "zoom"
    ]
  },
  "property-type": "data-constant"
},
"fill-extrusion-translate-anchor": {
  "type": "enum",
  "values": {
    "map": {
      "doc": "The fill extrusion is translated relative to the map."
    },
  },
  "viewport": {

```

```

    "doc": "The fill extrusion is translated relative to the viewport."
  }
},
"doc": "Controls the frame of reference for `fill-extrusion-translate`.",
"default": "map",
"requires": [
  "fill-extrusion-translate"
],
"sdk-support": {
  "basic functionality": {
    "js": "0.27.0",
    "android": "5.1.0",
    "ios": "3.6.0",
    "macos": "0.5.0"
  }
},
"expression": {
  "interpolated": false,
  "parameters": [
    "zoom"
  ]
},
"property-type": "data-constant"
},
"fill-extrusion-pattern": {
  "type": "resolvedImage",
  "transition": true,
  "doc": "Name of image in sprite to use for drawing images on extruded fills. For seamless patterns, image width and height must be a factor of two (2, 4, 8, ..., 512). Note that zoom-dependent expressions will be evaluated only at integer zoom levels.",
  "sdk-support": {
    "basic functionality": {
      "js": "0.27.0",
      "android": "5.1.0",
      "ios": "3.6.0",
      "macos": "0.5.0"
    },
    "data-driven styling": {
      "js": "0.49.0",
      "android": "6.5.0",
      "macos": "0.11.0",
      "ios": "4.4.0"
    }
  },
  "expression": {
    "interpolated": false,
    "parameters": [
      "zoom",

```

```

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

```

```

"basic functionality": {
  "js": "0.27.0",
  "android": "5.1.0",
  "ios": "3.6.0",
  "macos": "0.5.0"
},
"data-driven styling": {
  "js": "0.27.0",
  "android": "5.1.0",
  "ios": "3.6.0",
  "macos": "0.5.0"
}
},
"expression": {
  "interpolated": true,
  "parameters": [
    "zoom",
    "feature",
    "feature-state"
  ]
},
"property-type": "data-driven"
},
"fill-extrusion-vertical-gradient": {
  "type": "boolean",
  "default": true,
  "doc": "Whether to apply a vertical gradient to the sides of a fill-extrusion layer. If true, sides will be shaded slightly darker farther down.",
  "transition": false,
  "sdk-support": {
    "basic functionality": {
      "js": "0.50.0",
      "ios": "4.7.0",
      "macos": "0.13.0"
    }
  },
  "expression": {
    "interpolated": false,
    "parameters": [
      "zoom"
    ]
  },
  "property-type": "data-constant"
}
},
"paint_line": {
  "line-opacity": {
    "type": "number",

```

```

"doc": "The opacity at which the line will be drawn.",
"default": 1,
"minimum": 0,
"maximum": 1,
"transition": true,
"sdk-support": {
  "basic functionality": {
    "js": "0.10.0",
    "android": "2.0.1",
    "ios": "2.0.0",
    "macos": "0.1.0"
  },
  "data-driven styling": {
    "js": "0.29.0",
    "android": "5.0.0",
    "ios": "3.5.0",
    "macos": "0.4.0"
  }
},
"expression": {
  "interpolated": true,
  "parameters": [
    "zoom",
    "feature",
    "feature-state"
  ]
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  "values": {
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      "doc": "The line is translated relative to the map."
    }
  },

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"doc": "Controls the frame of reference for `line-translate`.",
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  "doc": "The line's offset. For linear features, a positive value offsets the line to the right, relative to the direction of the line, and a negative value to the left. For polygon features, a positive value results in an inset, and a negative value results in an outset.",
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  "default": 0,
  "minimum": 0,
  "transition": true,
  "units": "pixels",
  "doc": "Blur applied to the line, in pixels.",
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  "value": "number",
  "doc": "Specifies the lengths of the alternating dashes and gaps that form the dash pattern. The lengths are later scaled by the line width. To convert a dash length to pixels, multiply the length by the current line width. Note that GeoJSON sources with `lineMetrics: true` specified won't render dashed lines to the expected scale. Also note that zoom-dependent expressions will be evaluated only at integer zoom levels.",
  "minimum": 0,
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  "doc": "Defines a gradient with which to color a line feature. Can only be used with GeoJSON sources that specify \"lineMetrics\": true`.",
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  "default": "#000000",
  "doc": "The fill color of the circle.",
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  "default": 0,
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    "viewport": {
      "doc": "The circle is translated relative to the viewport."
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  "type": "enum",
  "values": {
    "map": {
      "doc": "Circles are scaled according to their apparent distance to the camera."
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  }
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```

```

    },
    "viewport": {
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  "default": "map",
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  "sdk-support": {
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  "values": {
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      "doc": "The circle is aligned to the plane of the map."
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      "doc": "The circle is aligned to the plane of the viewport."
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  "default": "viewport",
  "doc": "Orientation of circle when map is pitched.",
  "sdk-support": {
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        "feature-state"
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    "default": "#000000",
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"paint_heatmap": {

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"heatmap-radius": {
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  "default": 30,
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  "transition": true,
  "units": "pixels",
  "doc": "Radius of influence of one heatmap point in pixels. Increasing the value makes the heatmap smoother,
but less detailed.",
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    "basic functionality": {
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  "property-type": "data-driven"
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  "default": 1,
  "minimum": 0,
  "transition": false,
  "doc": "A measure of how much an individual point contributes to the heatmap. A value of 10 would be
equivalent to having 10 points of weight 1 in the same spot. Especially useful when combined with clustering.",
  "sdk-support": {
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  "default": 1,
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adjusting the heatmap based on zoom level.",
  "sdk-support": {
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    [
      "heatmap-density"
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```

```

    0,
    "rgba(0, 0, 255, 0)",
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    0.3,
    "cyan",
    0.5,
    "lime",
    0.7,
    "yellow",
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    "red"
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  "doc": "Defines the color of each pixel based on its density value in a heatmap. Should be an expression that
uses `[\"heatmap-density\"]` as input.",
  "transition": false,
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  "property-type": "data-driven"
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  "default": "#000000",
  "transition": true,

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"requires": [
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    "ios": "3.5.0",
    "macos": "0.4.0"
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  "default": "rgba(0, 0, 0, 0)",
  "transition": true,
  "doc": "The color of the icon's halo. Icon halos can only be used with SDF icons.",
  "requires": [
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  "doc": "Distance of halo to the icon outline.",
  "requires": [
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      "feature-state"
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"icon-halo-blur": {
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```

```

"default": 0,
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"doc": "Fade out the halo towards the outside.",
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  "transition": true,
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  "requires": [
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    "viewport": {
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  "doc": "Controls the frame of reference for `icon-translate`.",
  "default": "map",
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    "feature-state"
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  "default": "#000000",
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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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  }
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* /opt/ws_local/PERMITS_SQL/1034316672_1588680854.86/0/mapbox-mapbox-gl-style-spec-13-13-0-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","../../node_modules/@mapbox/unitbezier/index.js","../util/deep_equal.js","../util/util.js","../geo/lng_lat_bounds.js","../geo/lng_lat.js","../geo/mercator_coordinate.js","../data/extent.js","../expression/definitions/within.js","../expression/is_constant.js","../expression/definitions/var.js","../expression/parsing_context.js","../expression/stops.js","../expression/definitions/step.js","../util/interpolate.js","../util/color_spaces.js","../expression/definitions/interpolate.js","../expression/definitions/coalesce.js","../expression/definitions/let.js","../expression/definitions/at.js","../expression/definitions/in.js","../expression/definitions/match.js","../expression/definitions/case.js","../expression/definitions/comparison.js","../expression/definitions/number_format.js","../expression/definitions/length.js","../expression/definitions/index.js","../util/result.js","../util/properties.js","../util/get_type.js","../function/index.js","../expression/index.js","../function/convert.js","../feature_filter/index.js","../feature_filter/convert.js","../migrate/expressions.js","../migrate.js","../composite.js","../util/ref_properties.js","../deref.js","../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","

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0x80\ntdelimitter = '\x2D', // '\x2D'\nt/** Regular expressions *\ntregexPunycode = /^xn--/, \ntregexNonASCII =
/[\x20-\x7E]/, // unprintable ASCII chars + non-ASCII chars\ntregexSeparators =
/[\x2E\u3002\uFF0E\uFF61]/g, // RFC 3490 separators\nt/** Error messages *\nterrors = {\nt't'overflow':
'Overflow: input needs wider integers to process', \nt't'not-basic': 'Illegal input >= 0x80 (not a basic code
point)', \nt't'invalid-input': 'Invalid input'\nt}, \nt/** Convenience shortcuts *\ntbaseMinusTMin = base -
tMin, \ntfloor = Math.floor, \ntstringFromCharCode = String.fromCharCode, \nt/** Temporary variable
*\ntkey; \nt/*-----*\nt * A generic error utility
function.\nt * @private\nt * @param {String} type The error type.\nt * @returns {Error} Throws a `RangeError`
with the applicable error message.\nt * \ntfunction error(type) {\nt\tthrow
RangeError(errors[type]);\nt}\nt/** *\nt * A generic `Array#map` utility function.\nt * @private\nt * @param
{Array} array The array to iterate over.\nt * @param {Function} callback The function that gets called for every
array\nt * item.\nt * @returns {Array} A new array of values returned by the callback function.\nt * \ntfunction
map(array, fn) {\nt\tvar length = array.length; \nt\tvar result = []; \nt\twhile (length--) {\nt\t\tresult[length] =
fn(array[length]);\nt\t}\nt\treturn result;\nt}\nt/** *\nt * A simple `Array#map`-like wrapper to work with
domain name strings or email\nt * addresses.\nt * @private\nt * @param {String} domain The domain name or
email address.\nt * @param {Function} callback The function that gets called for every\nt * character.\nt *
@returns {Array} A new string of characters returned by the callback\nt * function.\nt * \ntfunction
mapDomain(string, fn) {\nt\tvar parts = string.split('@'); \nt\tvar result = ""; \nt\tif (parts.length > 1) {\nt\t\t// In
email addresses, only the domain name should be punycode. Leave\nt\t\t// the local part (i.e. everything up to `@`)
intact.\nt\t\tresult = parts[0] + '@'; \nt\t\tstring = parts[1]; \nt\t\t// Avoid `split(regex)` for IE8 compatibility.
See #17.\nt\t\tstring = string.replace(regexSeparators, '\x2E'); \nt\t\tvar labels = string.split('.'); \nt\t\tvar encoded =
map(labels, fn).join('.'); \nt\t\treturn result + encoded;\nt\t}\nt}\nt/** *\nt * Creates an array containing the numeric code
points of each Unicode\nt * character in the string. While JavaScript uses UCS-2 internally, \nt * this function will
convert a pair of surrogate halves (each of which\nt * UCS-2 exposes as separate characters) into a single code
point, \nt * matching UTF-16.\nt * @see `punycode.ucs2.encode`\nt * @see
<https://mathiasbynens.be/notes/javascript-encoding>\nt * @memberOf punycode.ucs2\nt * @name decode\nt *
@param {String} string The Unicode input string (UCS-2).\nt * @returns {Array} The new array of code
points.\nt * \ntfunction ucs2decode(string) {\nt\tvar output = [], \nt\t\tcounter = 0, \nt\t\tlength =
string.length, \nt\t\tvalue, \nt\t\textra; \nt\t\twhile (counter < length) {\nt\t\t\tvalue =
string.charCodeAt(counter++); \nt\t\tif (value >= 0xD800 && value <= 0xDBFF && counter < length) {\nt\t\t\t\t//
high surrogate, and there is a next character\nt\t\t\t\textra = string.charCodeAt(counter++); \nt\t\t\t\tif ((extra &
0xFC00) == 0xDC00) { // low surrogate\nt\t\t\t\t\toutput.push(((value & 0x3FF) << 10) + (extra & 0x3FF) +
0x10000); \nt\t\t\t\t} else {\nt\t\t\t\t\t// unmatched surrogate; only append this code unit, in case the next\nt\t\t\t\t\t//
code unit is the high surrogate of a surrogate pair\nt\t\t\t\t\toutput.push(value); \nt\t\t\t\t\tcounter--; \nt\t\t\t\t}
\nt\t\t\t\t}\nt\t\t\toutput.push(value); \nt\t\t}\nt\t\treturn output;\nt}\nt/** *\nt * Creates a string based on an array of
numeric code points.\nt * @see `punycode.ucs2.decode`\nt * @memberOf punycode.ucs2\nt * @name encode\nt *
@param {Array} codePoints The array of numeric code points.\nt * @returns {String} The new Unicode string
(UCS-2).\nt * \ntfunction ucs2encode(array) {\nt\treturn map(array, function(value) {\nt\t\tvar output = ""; \nt\t\tif
(value > 0xFFFF) {\nt\t\t\tvalue -= 0x10000; \nt\t\t\toutput += stringFromCharCode(value >>> 10 & 0x3FF |
0xD800); \nt\t\t\tvalue = 0xDC00 | value & 0x3FF; \nt\t\t\toutput += stringFromCharCode(value); \nt\t\t\treturn
output;\nt\t\t}).join(""); \nt}\nt/** *\nt * Converts a basic code point into a digit/integer.\nt * @see
`digitToBasic()`\nt * @private\nt * @param {Number} codePoint The basic numeric code point value.\nt *
@returns {Number} The numeric value of a basic code point (for use in\nt * representing integers) in the range `0`
to `base - 1`, or `base` if\nt * the code point does not represent a value.\nt * \ntfunction basicToDigit(codePoint)
{\nt\tif (codePoint - 48 < 10) {\nt\t\treturn codePoint - 22; \nt\t}\nt\tif (codePoint - 65 < 26) {\nt\t\treturn
codePoint - 65; \nt\t}\nt\tif (codePoint - 97 < 26) {\nt\t\treturn codePoint - 97; \nt\t}\nt\treturn
base;\nt}\nt/** *\nt * Converts a digit/integer into a basic code point.\nt * @see `basicToDigit()`\nt *
@private\nt * @param {Number} digit The numeric value of a basic code point.\nt * @returns {Number} The

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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\t\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\t\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 *
@return {String} The resulting string of Unicode symbols.\n\t */\n\tfunction decode(input) {\n\t\t// Don't use
UCS-2\n\t\tvar output = [],\n\t\t\tinputLength = input.length,\n\t\t\tout,\n\t\t\ti = 0,\n\t\t\tn = initialN,\n\t\t\tbias
= initialBias,\n\t\t\tbasic,\n\t\t\tj,\n\t\t\tindex,\n\t\t\toldi,\n\t\t\tw,\n\t\t\tk,\n\t\t\tdigit,\n\t\t\tt,\n\t\t\t/*
Cached calculation results */\n\t\t\tbaseMinusT;\n\t\t\t// Handle the basic code points: let `basic` be the number of
input code\n\t\t\t// points before the last delimiter, or `0` if there is none, then copy\n\t\t\t// the first basic code points to
the output.\n\t\t\tbasic = input.lastIndexOf(delimiter);\n\t\t\tif (basic < 0) {\n\t\t\t\tbasic = 0;\n\t\t\t}\n\t\t\tfor (j = 0; j <
basic; ++j) {\n\t\t\t\tif it's not a basic code point\n\t\t\t\tif (input.charCodeAt(j) >= 0x80) {\n\t\t\t\t\tterror('not-
basic');\n\t\t\t\t}\n\t\t\t\toutput.push(input.charCodeAt(j));\n\t\t\t}\n\t\t\t// Main decoding loop: start just after the last
delimiter if any basic code\n\t\t\t// points were copied; start at the beginning otherwise.\n\t\t\tfor (index = basic > 0 ?
basic + 1 : 0; index < inputLength; /* no final expression */) {\n\t\t\t\t`index` is the index of the next character to
be consumed.\n\t\t\t\t// Decode a generalized variable-length integer into `delta`,\n\t\t\t\t// which gets added to `i`. The
overflow checking is easier\n\t\t\t\t// if we increase `i` as we go, then subtract off its starting\n\t\t\t\t// value at the end to
obtain `delta`.\n\t\t\t\tfor (oldi = i, w = 1, k = base; /* no condition */; k += base) {\n\t\t\t\t\tif (index >= inputLength)
{\n\t\t\t\t\t\tterror('invalid-input');\n\t\t\t\t\t}\n\t\t\t\t\ttdigit = basicToDigit(input.charCodeAt(index++));\n\t\t\t\t\tif (digit
>= base || digit > floor((maxInt - i) / w)) {\n\t\t\t\t\t\tterror('overflow');\n\t\t\t\t\t}\n\t\t\t\t\tti += digit * w;\n\t\t\t\t\tt = k <=
bias ? tMin : (k >= bias + tMax ? tMax : k - bias);\n\t\t\t\t\tif (digit < t)
{\n\t\t\t\t\t\ttbreak;\n\t\t\t\t\t}\n\t\t\t\t\tbaseMinusT = base - t;\n\t\t\t\t\tif (w > floor(maxInt / baseMinusT))
{\n\t\t\t\t\t\tterror('overflow');\n\t\t\t\t\t}\n\t\t\t\t\ttw *= baseMinusT;\n\t\t\t\t\t}\n\t\t\t\t\tout = output.length + 1;\n\t\t\t\t\tbias
= adapt(i - oldi, out, oldi == 0);\n\t\t\t\t\t`i` was supposed to wrap around from `out` to `0`,\n\t\t\t\t\t// incrementing `n`
each time, so we'll fix that now:\n\t\t\t\t\tif (floor(i / out) > maxInt - n) {\n\t\t\t\t\t\tterror('overflow');\n\t\t\t\t\t}\n\t\t\t\t\ttn +=
floor(i / out);\n\t\t\t\t\t %= out;\n\t\t\t\t\t// Insert `n` at position `i` of the output\n\t\t\t\t\toutput.splice(i++, 0,
n);\n\t\t\t\t}\n\t\t\t\treturn ucs2encode(output);\n\t\t}\n\t\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\tdelta,\n\t\t\thandledCPCount,\n\t\t\tbasicLength,\n\t\t\tbias,\n\t\t\tj,\n\t\t\tm,\n\t\t\tq,\n\t\t\tk,\n\t\t\tt,\n\t\t\tcurrentValue,\n\t\t\toutput = [],\n\t\t\t/** `inputLength`
will hold the number of code points in `input`. */\n\t\t\tinputLength,\n\t\t\t/** Cached calculation results */\n\t\t\thandledCPCountPlusOne,\n\t\t\t\tbaseMinusT,\n\t\t\t\tqMinusT;\n\t\t\t// Convert the input in UCS-2 to
Unicode\n\t\t\tinput = ucs2decode(input);\n\t\t\t// Cache the length\n\t\t\tinputLength = input.length;\n\t\t\t// Initialize
the state\n\t\t\ttn = initialN;\n\t\t\tdelta = 0;\n\t\t\tbias = initialBias;\n\t\t\t// Handle the basic code points\n\t\t\tfor (j = 0; j <
inputLength; ++j) {\n\t\t\t\tcurrentValue = input[j];\n\t\t\t\tif (currentValue < 0x80)
{\n\t\t\t\t\toutput.push(stringFromCharCode(currentValue));\n\t\t\t\t}\n\t\t\t\t}\n\t\t\t\thandledCPCount = basicLength =
output.length;\n\t\t\t\t// `handledCPCount` is the number of code points that have been handled;\n\t\t\t\t// `basicLength`
is the number of basic code points.\n\t\t\t\t// Finish the basic string - if it is not empty - with a delimiter\n\t\t\t\tif
(basicLength) {\n\t\t\t\t\toutput.push(delimiter);\n\t\t\t\t}\n\t\t\t\t// Main encoding loop:\n\t\t\t\twhile (handledCPCount <
inputLength) {\n\t\t\t\t\t// All non-basic code points < n have been handled already. Find the next\n\t\t\t\t\t// larger
one:\n\t\t\t\t\tfor (m = maxInt, j = 0; j < inputLength; ++j) {\n\t\t\t\t\t\tcurrentValue = input[j];\n\t\t\t\t\t\tif (currentValue >= n

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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\n// If obj.hasOwnProperty has been overridden, then calling\n// obj.hasOwnProperty(prop) will break.\n\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\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\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\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 } else if (!name) {\n return '';\n\n return encodeURIComponent(stringifyPrimitive(name)) + eq +\n\n encodeURIComponent(stringifyPrimitive(obj));\n};\n\n", "use strict";\n\nexports.decode = exports.parse = require('./decode');\nexports.encode = exports.stringify = require('./encode');\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,


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THE USE OR OTHER DEALINGS IN THE SOFTWARE.
'use strict';
var punycode =
require('punycode');
var util = require('./util');
exports.parse = urlParse;
exports.resolve =
urlResolve;
exports.resolveObject = urlResolveObject;
exports.format = urlFormat;

exports.Url =
Url;

function Url() {
  this.protocol = null;
  this.slashes = null;
  this.auth = null;
  this.host = null;
  this.port = null;
  this.hostname = null;
  this.hash = null;
  this.search = null;
  this.query = null;
  this.pathname = null;
  this.path = null;
  this.href = null;
}

// Reference: RFC 3986, RFC 1808, RFC
// 2396
// define these here so at least they only have to be compiled once on the first module load.
var
  protocolPattern = /^[a-z0-9.+-:]/i,
  portPattern = /[0-9]*$/,
  // Special case for a simple path URL
  simplePathPattern = /^(\\|\/|(?![\|\\][^\/?]|s*))(\|?[\|\\s]*)?$/,
  // RFC 2396: characters reserved for delimiting
  // URLs.
  // We actually just auto-escape these.
  delims = ['<', '>', '\\', '\'', '"', '\\r', '\\n', '\\t'],
  // RFC 2396:
  // characters not allowed for various reasons.
  unwise = ['{', '}', '|', '\\\\', '^', '\'].concat(delims),
  // Allowed by
  // RFCs, but cause of XSS attacks. Always escape these.
  autoEscape = ['\\'].concat(unwise),
  // Characters that
  // are never ever allowed in a hostname.
  // Note that any invalid chars are also handled, but these
  // are the ones
  // that are *expected* to be seen, so we fast-path
  // them.
  nonHostChars = ['%', '/', '?', ';',
  '#'].concat(autoEscape),
  hostEndingChars = ['/', '?', '#'],
  hostnameMaxLen = 255,
  hostnamePartPattern =
  /^[+a-z0-9A-Z_-]{0,63}$/i,
  hostnamePartStart = /^[+a-z0-9A-Z_-]{0,63}(.*)$/i,
  // protocols that can allow
  // "unsafe" and "unwise" chars.
  unsafeProtocol = {
    'javascript': true,
    'javascript:': true
  },
  // protocols that never have a hostname.
  hostlessProtocol = {
    'javascript': true,
    'javascript:': true
  },
  // protocols that always contain a
  // bit.
  slashedProtocol = {
    'http': true,
    'https': true,
    'ftp': true,
    'gopher': true,
    'file': true,
    'http:': true,
    'https:': true,
    'ftp:': true,
    'gopher:': true,
    'file:':
    true
  },
  querystring = require('querystring');

function urlParse(url, parseQueryString, slashesDenoteHost) {
  if (url && util.isObject(url) && url instanceof Url) return url;

  var u = new Url();
  u.parse(url,
  parseQueryString, slashesDenoteHost);
  return u;
}

Url.prototype.parse = function(url, parseQueryString,
  slashesDenoteHost) {
  if (!util.isString(url)) {
    throw new TypeError("Parameter 'url' must be a string, not " +
    typeof url);
  }

  // Copy chrome, IE, opera backslash-handling behavior.
  // Back slashes before the query
  // string get converted to forward slashes
  // See: https://code.google.com/p/chromium/issues/detail?id=25916
  var
    queryIndex = url.indexOf('?'),
    splitter =
    (queryIndex !== -1 && queryIndex < url.indexOf('#')) ? '?' :
    '#',
    uSplit = url.split(splitter),
    slashRegex = /\\/g;
  uSplit[0] = uSplit[0].replace(slashRegex, '/');
  url =
  uSplit.join(splitter);

  var rest = url;

  // trim before proceeding.
  // This is to support parse stuff like
  // http://foo.com \n
  rest = rest.trim();

  if (slashesDenoteHost && url.split('#').length === 1) {
    // Try fast
    // path regexp
    var simplePath = simplePathPattern.exec(rest);
    if (simplePath) {
      this.path = rest;
      this.href = rest;
      this.pathname = simplePath[1];
      if (simplePath[2]) {
        this.search = simplePath[2];
        if (parseQueryString) {
          this.query = querystring.parse(this.search.substr(1));
        } else {
          this.query =
          this.search.substr(1);
        }
      } else if (parseQueryString) {
        this.search =
        "";
        this.query =
        {};
      }
      return this;
    }
  }

  var proto = protocolPattern.exec(rest);
  if (proto) {
    proto =
    proto[0];
    var lowerProto = proto.toLowerCase();
    this.protocol = lowerProto;
    rest =
    rest.substr(proto.length);
  }

  // figure out if it's got a host
  // user@server is *always* interpreted as a
  // hostname, and url
  // resolution will treat //foo/bar as host=foo,path=bar because that's
  // how the browser
  // resolves relative URLs.
  if (slashesDenoteHost || proto || rest.match(/^\\/\\/[^\|\\]+@[^\|\\|+]/)) {
    var slashes =
    rest.substr(0, 2) === '//';
    if (slashes && !(proto && hostlessProtocol[proto])) {
      rest =
      rest.substr(2);
      this.slashes = true;
    }
  }

  if (!hostlessProtocol[proto] && (slashes || (proto &&
  !slashedProtocol[proto]))) {
    // there's a hostname.
    // the first instance of /, ?, :, or # ends the host.
    //
    // If there is an @ in the hostname, then non-host chars
    // *are* allowed
    // to the left of the last @ sign, unless
    // some host-ending character
    // comes *before* the @-sign.
    // URLs are obnoxious.
    // ex:
    // http://a@b@c/ => user:a@b host:c
    // http://a@b?@c => user:a host:c path:@c
    // v0.12 TODO(isaacs):
    // This is not quite how Chrome does things.
    // Review our test case against browsers more comprehensively.

    // find the first instance of any hostEndingChars
    var hostEnd = -1;
    for (var i = 0; i < hostEndingChars.length;

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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\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        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 punycode representation of \"domain\".\n            // It only converts parts of the domain name
that\n            // have non-ASCII characters, i.e. it doesn't matter if\n            // you call it with a domain that already is
ASCII-only.\n            this.hostname = punycode.toASCII(this.hostname);\n        }\n\n        var p = this.port ? ':' + this.port :
'';\n        var h = this.hostname || '';\n        this.host = h + p;\n        this.href += this.host;\n\n        // strip [ and ] from the
hostname\n        // the host field still retains them, though\n        if (ipv6Hostname) {\n            this.hostname =
this.hostname.substr(1, this.hostname.length - 2);\n            if (rest[0] !== '/') {\n                rest = '/' + rest;\n            }\n        }\n\n        // now rest is set to the post-host stuff.\n        // chop off any delim chars.\n        if (!unsafeProtocol[lowerProto]) {\n            //
First, make 100% sure that any \"autoEscape\" chars get\n            // escaped, even if encodeURIComponent doesn't think
they\n            // need to be.\n            for (var i = 0, l = autoEscape.length; i < l; i++) {\n                var ae = autoEscape[i];\n                if
(rest.indexOf(ae) === -1)\n                    continue;\n                var esc = encodeURIComponent(ae);\n                if (esc === ae) {\n
                    esc = escape(ae);\n                }\n                rest = rest.split(ae).join(esc);\n            }\n        }\n\n        // chop off from the tail first.\n        var hash
= rest.indexOf('#');\n        if (hash !== -1) {\n            // got a fragment string.\n            this.hash = rest.substr(hash);\n            rest =
rest.slice(0, hash);\n        }\n        var qm = rest.indexOf('?');\n        if (qm !== -1) {\n            this.search = rest.substr(qm);\n
            this.query = rest.substr(qm + 1);\n            if (parseQueryString) {\n                this.query = querystring.parse(this.query);\n            }\n            rest = rest.slice(0, qm);\n        } else if (parseQueryString) {\n            // no query string, but parseQueryString still requested\n
            this.search = '';\n            this.query = {};\n        }\n        if (rest) this.pathname = rest;\n        if (slashedProtocol[lowerProto] &&\n
            this.hostname && !this.pathname) {\n            this.pathname = '/';\n        }\n\n        //to support http.request\n        if (this.pathname ||
this.search) {\n            var p = this.pathname || '';\n            var s = this.search || '';\n            this.path = p + s;\n        }\n\n        // finally,
reconstruct the href based on what has been validated.\n        this.href = this.format();\n        return this;\n    }\n\n    // format a
parsed object into a url string\n    function 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

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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  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
||\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

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./reference/v8.json';\nimport type {StylePropertySpecification} from './style-spec';\nimport type {\n
StyleSpecification,\n SourceSpecification,\n LayerSpecification,\n PropertyValueSpecification,\n
DataDrivenPropertyValueSpecification\n} from './types';\n\nfunction getPropertyReference(propertyName):
StylePropertySpecification {\n  for (let i = 0; i < Reference.layout.length; i++) {\n    for (const key in
Reference[Reference.layout[i]]) {\n      if (key === propertyName) return (Reference[Reference.layout[i]][key]:
any);\n    }\n  }\n  for (let i = 0; i < Reference.paint.length; i++) {\n    for (const key in
Reference[Reference.paint[i]]) {\n      if (key === propertyName) return (Reference[Reference.paint[i]][key]:
any);\n    }\n  }\n  return (null: any);\n}\n\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  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  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    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    property.set(value);\n  });\n  delete style.constants;\n\n  eachLayer(style,
(layer) => {\n    // get rid of text-max-size, icon-max-size\n    // turn text-size, icon-size into layout properties\n
    // https://github.com/mapbox/mapbox-gl-style-spec/issues/255\n    eachLayout(layer, (layout) => {\n      delete
layout['text-max-size'];\n      delete layout['icon-max-size'];\n    });\n\n    eachPaint(layer, (paint) =>
{\n      if (paint['text-size']) {\n        if (!layer.layout) layer.layout = {};\n        layer.layout['text-size'] =
paint['text-size'];\n        delete paint['text-size'];\n      }\n      if (paint['icon-size']) {\n        if
(!layer.layout) layer.layout = {};\n        layer.layout['icon-size'] = paint['icon-size'];\n        delete

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paint['icon-size'];\n      }\n    });\n  });\n\n  function migrateFontstackURL(input) {\n    const inputParsed\n= URL.parse(input);\n    const inputPathnameParts = inputParsed.pathname.split('/');\n    if\n(inputParsed.protocol !== 'mapbox:') {\n      return input;\n    } else if (inputParsed.hostname ===\n'fontstack') {\n      assert(decodeURI(inputParsed.pathname) === '/{fontstack}/{range}.pbf');\n      return\n'mapbox://fonts/mapbox/{fontstack}/{range}.pbf';\n    } else if (inputParsed.hostname === 'fonts') {\n      assert(inputPathnameParts[1] === 'v1');\n      assert(decodeURI(inputPathnameParts[3]) === '{fontstack}');\n      assert(decodeURI(inputPathnameParts[4]) === 'range.pbf');\n      return\n`mapbox://fonts/${inputPathnameParts[2]}/{fontstack}/{range}.pbf`;\n    } else {\n      assert(false);\n    }\n  }\n\n  function assert(predicate) {\n    if (!predicate) {\n      throw new Error(`Invalid font url:\n\"${input}\"`);\n    }\n  }\n\n  if (style.glyphs) {\n    style.glyphs =\nmigrateFontstackURL(style.glyphs);\n  }\n\n  function migrateFontStack(font) {\n    function\nsplitAndTrim(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    } else if (typeof font ===\n'object') {\n      font.stops.forEach((stop) => {\n        stop[1] = splitAndTrim(stop[1]);\n      });\n      return font;\n    } else {\n      throw new Error("unexpected font value");\n    }\n  }\n\n  eachLayer(style, (layer) => {\n    eachLayout(layer, (layout) => {\n      if (layout['text-font']) {\n        layout['text-font'] = migrateFontStack(layout['text-font']);\n      }\n    });\n  });\n\n  // Reverse order of\nsymbol layers. This is an imperfect migration.\n  // The order of a symbol layer in the layers list affects two\nthings:\n  // - how it is drawn relative to other layers (like oneway arrows below bridges)\n  // - the placement\npriority compared to other layers\n  // It's impossible to reverse the placement priority without breaking the\ndraw order\n  // in some cases. This migration only reverses the order of symbol layers that\n  // are above all\nother types of layers.\n  // Symbol layers that are at the top of the map preserve their priority.\n  // Symbol\nlayers that are below another type (line, fill) of layer preserve their draw order.\n  let firstSymbolLayer = 0;\n  for (let i = style.layers.length - 1; i >= 0; i--) {\n    const layer = style.layers[i];\n    if (layer.type !== 'symbol')\n{\n      firstSymbolLayer = i + 1;\n      break;\n    }\n  }\n  const symbolLayers =\nstyle.layers.splice(firstSymbolLayer);\n  symbolLayers.reverse();\n  style.layers =\nstyle.layers.concat(symbolLayers);\n\n  return style;\n}\n\n\"// @flow\n\n\nexport default function (output: any,\n...inputs: Array<any>) {\n  for (const input of inputs) {\n    for (const k in input) {\n      output[k] =\ninput[k];\n    }\n  }\n  return output;\n}\n\n\"// @flow\n\n\nclass ParsingError extends Error {\n  key: string;\n  message: string;\n  constructor(key: string, message: string) {\n    super(message);\n    this.message =\nmessage;\n    this.key = key;\n  }\n}\n\nexport default ParsingError;\n\n\"// @flow\n\n\nimport type {Expression}\nfrom './expression';\n\n/**\n * Tracks `let` bindings during expression parsing.\n * @private\n */\n\nclass Scope {\n  parent: ?Scope;\n  bindings: {[_: string]: Expression};\n  constructor(parent?: Scope, bindings: Array<[string,\nExpression]> = []) {\n    this.parent = parent;\n    this.bindings = {};\n    for (const [name, expression] of\nbindings) {\n      this.bindings[name] = expression;\n    }\n  }\n\n  concat(bindings: Array<[string,\nExpression]>) {\n    return new Scope(this, bindings);\n  }\n\n  get(name: string): Expression {\n    if\n(this.bindings[name]) {\n      return this.bindings[name];\n    }\n    if (this.parent) {\n      return this.parent.get(name);\n    }\n    throw new Error(`${name} not found in scope.`);\n  }\n\n  has(name: string): boolean {\n    if\n(this.bindings[name])\nreturn true;\n    return this.parent ? this.parent.has(name) : false;\n  }\n}\n\nexport default\nScope;\n\n\"// @flow\n\n\nexport type NullTypeT = { kind: 'null' };\nexport type NumberTypeT = { kind: 'number'\n};\nexport type StringTypeT = { kind: 'string' };\nexport type BooleanTypeT = { kind: 'boolean' };\nexport type\nColorTypeT = { kind: 'color' };\nexport type ObjectTypeT = { kind: 'object' };\nexport type ValueTypeT = { kind:\n'value' };\nexport type ErrorTypeT = { kind: 'error' };\nexport type CollatorTypeT = { kind: 'collator' };\nexport type\nFormattedTypeT = { kind: 'formatted' };\nexport type ResolvedImageTypeT = { kind: 'resolvedImage' };\n\n\nexport type EvaluationKind = 'constant' | 'source' | 'camera' | 'composite';\n\n\nexport type Type =\nNullTypeT | \nNumberTypeT | \nStringTypeT | \nBooleanTypeT | \nColorTypeT | \nObjectTypeT | \nValueTypeT | \nArrayType | \n// eslint-disable-line no-use-before-define\nErrorTypeT | \nCollatorTypeT | \nFormattedTypeT | \n
```

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ResolvedImageTypeT\n\nexport type ArrayType = {\n  kind: 'array',\n  itemType: Type,\n  N:
?number\n}\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    } 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\n", // (c) Dean McNamee
<dean@gmail.com>, 2012.\n\n// https://github.com/deanm/css-color-parser-js\n\n// Permission is hereby granted,
free of charge, to any person obtaining a copy\n\n// of this software and associated documentation files (the
\n\n// "Software"), to\n\n// deal in the Software without restriction, including without limitation the\n\n// rights to use, copy,
modify, merge, publish, distribute, sublicense, and/or\n\n// sell copies of the Software, and to permit persons to whom
the Software is\n\n// furnished to do so, subject to the following conditions:\n\n// The above copyright notice and this
permission notice shall be included in\n\n// all copies or substantial portions of the Software.\n\n// THE
SOFTWARE IS PROVIDED\n\n// "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR\n\n// IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,\n\n// FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE\n\n// AUTHORS OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER\n\n// LIABILITY, WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING\n\n// FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS\n\n// IN THE SOFTWARE.\n\n\n//
http://www.w3.org/TR/css3-color/\n\nvar kCSSColorTable = {\n  "transparent": [0,0,0,0], "aliceblue":
[240,248,255,1],\n  "antiquewhite": [250,235,215,1], "aqua": [0,255,255,1],\n  "aquamarine": [127,255,212,1],
"azure": [240,255,255,1],\n  "beige": [245,245,220,1], "bisque": [255,228,196,1],\n  "black": [0,0,0,1],
"blanchedalmond": [255,235,205,1],\n  "blue": [0,0,255,1], "blueviolet": [138,43,226,1],\n  "brown":
[165,42,42,1], "burlywood": [222,184,135,1],\n  "cadetblue": [95,158,160,1], "chartreuse": [127,255,0,1],\n
"chocolate": [210,105,30,1], "coral": [255,127,80,1],\n  "cornflowerblue": [100,149,237,1], "cornsilk":
[255,248,220,1],\n  "crimson": [220,20,60,1], "cyan": [0,255,255,1],\n  "darkblue": [0,0,139,1], "darkcyan":
[0,139,139,1],\n  "darkgoldenrod": [184,134,11,1], "darkgray": [169,169,169,1],\n  "darkgreen": [0,100,0,1],
"darkgrey": [169,169,169,1],\n  "darkkhaki": [189,183,107,1], "darkmagenta": [139,0,139,1],\n
"darkolivegreen": [85,107,47,1], "darkorange": [255,140,0,1],\n  "darkorchid": [153,50,204,1], "darkred":
[139,0,0,1],\n  "darksalmon": [233,150,122,1], "darkseagreen": [143,188,143,1],\n  "darkslateblue":
[72,61,139,1], "darkslategray": [47,79,79,1],\n  "darkslategrey": [47,79,79,1], "darkturquoise": [0,206,209,1],\n
"darkviolet": [148,0,211,1], "deeppink": [255,20,147,1],\n  "deepskyblue": [0,191,255,1], "dimgray":
[105,105,105,1],\n  "dimgrey": [105,105,105,1], "dodgerblue": [30,144,255,1],\n  "firebrick": [178,34,34,1],
"floralwhite": [255,250,240,1],\n  "forestgreen": [34,139,34,1], "fuchsia": [255,0,255,1],\n  "gainsboro":
[220,220,220,1], "ghostwhite": [248,248,255,1],\n  "gold": [255,215,0,1], "goldenrod": [218,165,32,1],\n

```

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"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)
return kCSSColorTable[str].slice(); // dup.\n\n  // #abc and #abc123 syntax.\n  if (str[0] === '#') {\n    if (str.length
=== 4) {\n      var iv = parseInt(str.substr(1), 16); // TODO(deanm): Stricter parsing.\n      if (!(iv >= 0 && iv <=
0xffff)) return null; // Covers NaN.\n      return [(iv & 0xf00) >> 4] | ((iv & 0xf00) >> 8),\n              (iv & 0xf0) | ((iv
& 0xf0) >> 4),\n              (iv & 0xf) | ((iv & 0xf) << 4),\n              1];\n    } else if (str.length === 7) {\n      var iv =
parseInt(str.substr(1), 16); // TODO(deanm): Stricter parsing.\n      if (!(iv >= 0 && iv <= 0xfffffff)) return null; //
Covers NaN.\n      return [(iv & 0xff0000) >> 16,\n              (iv & 0xff00) >> 8,\n              iv & 0xff,\n              1];\n    }\n\n    return null;\n  }\n\n  var op = str.indexOf('('), ep = str.indexOf('');\n  if (op !== -1 && ep + 1 === str.length)
{\n    var fname = str.substr(0, op);\n    var params = str.substr(op+1, ep-(op+1)).split(',');\n    var alpha = 1; // To
allow case fallthrough.\n    switch (fname) {\n      case 'rgba':\n        if (params.length !== 4) return null;\n        alpha
= parse_css_float(params.pop());\n        // Fall through.\n        case 'rgb':\n          if (params.length !== 3) return null;\n

```



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return [parse_css_int(params[0]),\n          parse_css_int(params[1]),\n          parse_css_int(params[2]),\n          alpha];\n  case 'hsla':\n    if (params.length !== 4) return null;\n    alpha =\n      parse_css_float(params.pop());\n    // Fall through.\n    case 'hsl':\n      if (params.length !== 3) return null;\n      var h = (((parseFloat(params[0]) % 360) + 360) % 360) / 360; // 0 .. 1\n      // NOTE(deanm): According to the\n      // CSS spec s/l should only be\n      // percentages, but we don't bother and let float or percentage.\n      var s =\n        parse_css_float(params[1]);\n      var l = parse_css_float(params[2]);\n      var m2 = 1 <= 0.5 ? 1 * (s + 1) : 1 + s -\n        * s;\n      var m1 = 1 * 2 - m2;\n      return [clamp_css_byte(css_hue_to_rgb(m1, m2, h+1/3) * 255),\n              clamp_css_byte(css_hue_to_rgb(m1, m2, h) * 255),\n              clamp_css_byte(css_hue_to_rgb(m1, m2, h-1/3) *\n                255),\n              alpha];\n  default:\n    return null;\n  }\n}\n\nreturn null;\n}\n\nentry {\n  exports.parseCSSColor = parseCSSColor } catch(e) { }\n", "// @flow\n\nimport {parseCSSColor} from\n'csscolorparser';\n\n/**\n * An RGBA color value. Create instances from color strings using the static\n * method\n * `Color.parse`. The constructor accepts RGB channel values in the range\n * `[0, 1]`, premultiplied by A.\n * @param {number} r The red channel.\n * @param {number} g The green channel.\n * @param {number} b The\n * blue channel.\n * @param {number} a The alpha channel.\n * @private\n */\n\nclass Color {\n  r: number;\n  g:\n  number;\n  b: number;\n  a: number;\n\n  constructor(r: number, g: number, b: number, a: number = 1) {\n    this.r = r;\n    this.g = g;\n    this.b = b;\n    this.a = a;\n  }\n\n  static black: Color;\n  static white: Color;\n\n  static transparent: Color;\n  static red: Color;\n\n  /**\n   * Parses valid CSS color strings and returns a `Color`\n   * instance.\n   * @returns A `Color` instance, or `undefined` if the input is not a valid color string.\n   */\n  static\n  parse(input?: string | Color | null): Color | void {\n    if (!input) {\n      return undefined;\n    }\n\n    if\n    (input instanceof Color) {\n      return input;\n    }\n\n    if (typeof input !== 'string') {\n      return\n      undefined;\n    }\n\n    const rgba = parseCSSColor(input);\n    if (!rgba) {\n      return undefined;\n    }\n\n    return new Color(\n      rgba[0] / 255 * rgba[3],\n      rgba[1] / 255 * rgba[3],\n      rgba[2] / 255\n      * rgba[3],\n      rgba[3]\n    );\n  }\n\n  /**\n   * Returns an RGBA string representing the color value.\n   */\n  * @returns An RGBA string.\n   * @example\n   * var purple = new Color.parse('purple');\n   *\n   * purple.toString(); // = "rgba(128,0,128,1)"\n   * var translucentGreen = new Color.parse('rgba(26, 207, 26, .73)');\n   * translucentGreen.toString(); // = "rgba(26,207,26,0.73)"\n   */\n  toString(): string {\n    const [r, g, b, a] =\n      this.toArray();\n    return `rgba(${Math.round(r)},${Math.round(g)},${Math.round(b)},${a})`;\n  }\n\n  toArray(): [number, number, number, number] {\n    const [r, g, b, a] = this;\n    return a === 0 ? [0, 0, 0, 0] :\n      [\n        r * 255 / a,\n        g * 255 / a,\n        b * 255 / a,\n        a\n      ];\n  }\n}\n\nColor.black = new\nColor(0, 0, 0, 1);\nColor.white = new Color(1, 1, 1, 1);\nColor.transparent = new Color(0, 0, 0, 0);\nColor.red = new\nColor(1, 0, 0, 1);\n\nexport default Color;\n", "// @flow\n\n// Flow type declarations for Intl cribbed from\n//\n// https://github.com/facebook/flow/issues/1270\n\ndeclare var Intl: {\n  Collator:\n  Class<Intl$Collator>);\n\n  declare class Intl$Collator {\n    constructor (\n      locales?: string | string[],\n      options?: CollatorOptions\n    ): Intl$Collator;\n\n    static (\n      locales?: string | string[],\n      options?:\n      CollatorOptions\n    ): Intl$Collator;\n\n    compare (a: string, b: string): number;\n\n    resolvedOptions():\n    any;\n  }\n\n  type CollatorOptions = {\n    localeMatcher?: 'lookup' | 'best fit',\n    usage?: 'sort' | 'search',\n    sensitivity?: 'base' | 'accent' | 'case' | 'variant',\n    ignorePunctuation?: boolean,\n    numeric?: boolean,\n    caseFirst?:\n    'upper' | 'lower' | 'false'\n  }\n\n  export default class Collator {\n    locale: string | null;\n    sensitivity: 'base' | 'accent' |\n    'case' | 'variant';\n    collator: Intl$Collator;\n\n    constructor(caseSensitive: boolean, diacriticSensitive: boolean,\n      locale: string | null) {\n      if (caseSensitive)\n        this.sensitivity = diacriticSensitive ? 'variant' : 'case';\n      else\n        this.sensitivity = diacriticSensitive ? 'accent' : 'base';\n      this.locale = locale;\n      this.collator =\n      new Intl.Collator(this.locale ? this.locale : [],\n        {sensitivity: this.sensitivity, usage: 'search'});\n    }\n\n    compare(lhs: string, rhs: string): number {\n      return this.collator.compare(lhs, rhs);\n    }\n\n    resolvedLocale():\n    string {\n      // We create a Collator without "usage: search" because we don't want\n      // the search options\n      // encoded in our result (e.g. "en-u-co-search")\n      return new Intl.Collator(this.locale ? this.locale : [])\n      .resolvedOptions().locale;\n    }\n  }\n", "// @flow\n\nimport type Color from '../util/color';\nimport type\nResolvedImage from '../types/resolved_image';\n\nexport class FormattedSection {\n  text: string;\n  image:\n  ResolvedImage | null;\n  scale: number | null;\n  fontStack: string | null;\n  textColor: Color | null;\n\n}

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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\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
{\n            type = expected;\n        }\n\n        return new Literal(type, value);\n    }\n\n    evaluate() {\n        return
this.value;\n    }\n\n    eachChild() {\n    }\n\n    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';\nimport
{\n    ObjectType,\n    ValueType,\n    StringType,\n    NumberType,\n    BooleanType,\n    checkSubtype,\n
toString,\n    array\n} from './types';\nimport RuntimeError from './runtime_error';\nimport {typeOf} from
'./values';\nimport type {Expression} from './expression';\nimport type ParsingContext from
'./parsing_context';\nimport type EvaluationContext from './evaluation_context';\nimport type {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                {\n                    return context.error(`The length argument to \"array\" must be a positive integer literal, 2);\n                }\n                N = args[2];\n                i++;\n            }\n            type = array(itemType, N);\n        } else {\n

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    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        {\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\n"/ @flow\n\nimport {NumberType, ValueType, FormattedType, array, StringType, ColorType,
ResolvedImageType} from './types';\nimport Formatted, {FormattedSection} from './types/formatted';\nimport
{toString, typeOf} from './values';\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        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        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                let
font = null;\n                if (arg['text-font']) {\n                    font = context.parse(arg['text-font'], 1,
array(StringType));\n                    if (!font) return null;\n                }\n                let textColor = null;\n                if
(arg['text-color']) {\n                    textColor = context.parse(arg['text-color'], 1, ColorType);\n                    if
(!textColor) return null;\n                }\n                const lastExpression = sections[sections.length - 1];\n                lastExpression.scale = scale;\n                lastExpression.font = font;\n                lastExpression.textColor =
textColor;\n            } else {\n                const content = context.parse(args[i], 1, ValueType);\n                if (!content)
return null;\n                const kind = content.type.kind;\n                if (kind !== 'string' && kind !== 'value' &&
kind !== 'null' && kind !== 'resolvedImage')\n                    return context.error(`Formatted text type must be 'string',
'value', 'image' or 'null'.`);\n                nextTokenMaybeObject = true;\n                sections.push({content, scale:
null, font: null, textColor: null});\n            }\n        }\n\n        return new FormatExpression(sections);\n    }\n\n    evaluate(ctx: EvaluationContext) {\n        const evaluateSection = section => {\n            const evaluatedContent =
section.content.evaluate(ctx);\n            if (typeof(evaluatedContent) === ResolvedImageType) {\n                return
new FormattedSection(\"\", evaluatedContent, null, null, null);\n            }\n            return new FormattedSection(\n                toString(evaluatedContent),\n                null,\n                section.scale ? section.scale.evaluate(ctx) :
null,\n                section.font ? section.font.evaluate(ctx).join(',') : null,\n                section.textColor ?
section.textColor.evaluate(ctx) : null\n            );\n        }\n\n        return new
Formatted(this.sections.map(evaluateSection));\n    }\n\n    eachChild(fn: (_: Expression) => void) {\n        for (const

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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      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';\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  static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n    if (args.length
!== 2) {\n      return context.error(`Expected two arguments.`);\n    }\n    const name =
context.parse(args[1], 1, StringType);\n    if (!name) return context.error(`No image name provided.`);\n    return new ImageExpression(name);\n  }\n  evaluate(ctx: EvaluationContext) {\n    const
evaluatedImageName = this.input.evaluate(ctx);\n    const value =
ResolvedImage.fromString(evaluatedImageName);\n    if (value && ctx.availableImages) value.available =
ctx.availableImages.indexOf(evaluatedImageName) > -1;\n    return value;\n  }\n  eachChild(fn: (_:
Expression) => void) {\n    fn(this.input);\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  serialize() {\n
return [\"image\", this.input.serialize()];\n  }\n}\n\" ,\"// @flow\n\nimport assert from 'assert';\nimport
{ BooleanType, ColorType, NumberType, StringType, ValueType } from './types';\nimport { Color, toString as
valueToString, validateRGBA } from './values';\nimport RuntimeError from './runtime_error';\nimport Formatted
from './types/formatted';\nimport FormatExpression from './definitions/format';\nimport ImageExpression from
'./definitions/image';\nimport ResolvedImage from './types/resolved_image';\nimport type { Expression } from
'./expression';\nimport type ParsingContext from './parsing_context';\nimport type EvaluationContext from
'./evaluation_context';\nimport type { Type } from './types';\n\nconst types = {\n  'to-boolean': BooleanType,\n
'to-color': ColorType,\n  'to-number': NumberType,\n  'to-string': StringType\n};\n\n/**\n * Special form for
error-coalescing coercion expressions \"to-number\", \" * \"to-color\". Since these coercions can fail at runtime, they
accept multiple\n * arguments, only evaluating one at a time until one succeeds.\n * \n * @private\n */\n\nclass
Coercion implements Expression {\n  type: Type;\n  args: Array<Expression>;\n\n  constructor(type: Type, args:
Array<Expression>) {\n    this.type = type;\n    this.args = args;\n  }\n  static parse(args:
$ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n    if (args.length < 2)\n      return
context.error(`Expected at least one argument.`);\n    const name: string = (args[0]: any);\n    assert(types[name], name);\n    if ((name === 'to-boolean' || name === 'to-string') && args.length !== 2)\n    return context.error(`Expected one argument.`);\n    const type = types[name];\n    const parsed = [];\n    for (let i = 1; i < args.length; i++) {\n      const input = context.parse(args[i], i, ValueType);\n      if (!input)
return null;\n      parsed.push(input);\n    }\n    return new Coercion(type, parsed);\n  }\n  evaluate(ctx:
EvaluationContext) {\n    if (this.type.kind === 'boolean') {\n      return Boolean(this.args[0].evaluate(ctx));\n    }
else if (this.type.kind === 'color') {\n      let input;\n      let error;\n      for (const arg of this.args) {\n
input = arg.evaluate(ctx);\n      error = null;\n      if (input instanceof Color) {\n
return input;\n      } else if (typeof input === 'string') {\n      const c = ctx.parseColor(input);\n      if (c) return c;\n      } else if (Array.isArray(input)) {\n      if (input.length < 3 || input.length > 4)
{\n      error = `Invalid rgba value ${JSON.stringify(input)}: expected an array containing either three or
four numeric values.`;\n      } else {\n      error = validateRGBA(input[0], input[1], input[2],

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input[3]);\n          }\n          if (!error) {\n              return new Color((input[0]: any) / 255,\n                (input[1]: any) / 255, (input[2]: any) / 255, (input[3]: any));\n          }\n          }\n          }\n          throw\nnew RuntimeException(error || `Could not parse color from value '${typeof input === 'string' ? input :\nString(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\nnew RuntimeException(` Could not convert ${JSON.stringify(value)} to number.`);\n      } else if (this.type.kind ===\n'formatted') {\n          // There is no explicit 'to-formatted' but this coercion can be implicitly\n          // created by\nproperties that expect the 'formatted' type.\n          return\nFormatted.fromString(valueToString(this.args[0].evaluate(ctx))); \n      } else if (this.type.kind ===\n'resolvedImage') {\n          return ResolvedImage.fromString(valueToString(this.args[0].evaluate(ctx))); \n      } \n      else {\n          return valueToString(this.args[0].evaluate(ctx)); \n      }\n      }\n      }\n      eachChild(fn: (_: Expression) =>\nvoid) {\n      this.args.forEach(fn);\n      }\n      }\n      outputDefined(): boolean {\n      return this.args.every(arg =>\narg.outputDefined());\n      }\n      }\n      serialize() {\n      if (this.type.kind === 'formatted') {\n          return new\nFormatExpression([{\ncontent: this.args[0], scale: null, font: null, textColor: null}]).serialize();\n      }\n      }\n      if\n(this.type.kind === 'resolvedImage') {\n          return new ImageExpression(this.args[0]).serialize();\n      }\n      }\n      const serialized = [to-${this.type.kind}];\n      this.eachChild(child => { serialized.push(child.serialize()); });\n      return serialized;\n      }\n      }\n      }\n      export default Coercion;\n      "\n      @flow\n      \n      import {Color} from './values';\n      import type\n{FormattedSection} from './types/formatted';\n      import type {GlobalProperties, Feature, FeatureState} from\n'/index';\n      import type {CanonicalTileID} from '../source/tile_id';\n      \n      const geometryTypes = ['Unknown', 'Point',\n'LineString', 'Polygon'];\n      \n      class EvaluationContext {\n          globals: GlobalProperties;\n          feature: ?Feature;\n          featureState: ?FeatureState;\n          formattedSection: ?FormattedSection;\n          availableImages: ?Array<string>;\n          canonical: ?CanonicalTileID;\n          \n          _parseColorCache: {[_: string]: ?Color};\n          \n          constructor() {\n              this.globals\n= (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\nthis.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 &&\nthis.feature.properties || {};\n          }\n          \n          parseColor(input: string): ?Color {\n              let cached =\nthis._parseColorCache[input];\n              if (!cached) {\n                  cached = this._parseColorCache[input] =\nColor.parse(input);\n              }\n              return cached;\n          }\n      }\n      \n      export default EvaluationContext;\n      "\n      @flow\n      \n      import {toString} from './types';\n      import ParsingContext from './parsing_context';\n      import\nEvaluationContext from './evaluation_context';\n      import assert from 'assert';\n      import type {Expression,\nExpressionRegistry} from './expression';\n      import type {Type} from './types';\n      import type {Value} from\n'/values';\n      \n      export type Varargs = | type: Type |;\n      \n      type Signature = Array<Type> | Varargs;\n      \n      type Evaluate =\n(EvaluationContext, Array<Expression>) => Value;\n      \n      type Definition = [Type, Signature, Evaluate] | \n      {\n      type:\nType, overloads: Array<[Signature, Evaluate]>};\n      \n      class CompoundExpression implements Expression {\n          name: string;\n          type: Type;\n          _evaluate: Evaluate;\n          args: Array<Expression>;\n          \n          static definitions: {[_:\nstring]: 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: (_:\nExpression) => 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\nparse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n              const op: string = (args[0]:\nany);\n              const definition = CompoundExpression.definitions[op];\n              if (!definition) {\n                  return\ncontext.error(`Unknown expression \"${op}\". If you wanted a literal array, use [\"literal\", [...]].`, 0);\n              }\n          }\n          \n          // Now check argument types against each signature\n          const type = Array.isArray(definition) ?\n
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definition[0] : definition.type;\n\n    const availableOverloads = Array.isArray(definition) ?\n
[[definition[1], definition[2]]] :\n\n    definition.overloads;\n\n    const overloads =\n
availableOverloads.filter(([signature]) => (\n\n        !Array.isArray(signature) || // varargs\n\n        signature.length\n
=== args.length - 1 // correct param count\n\n    ));\n\n    let signatureContext: ParsingContext = (null: any);\n\n
for (const [params, evaluate] of overloads) {\n\n        // Use a fresh context for each attempted signature so that,\n
if\n\n        // we eventually succeed, we haven't polluted `context.errors`.\n\n        signatureContext = new\n
ParsingContext(context.registry, context.path, null, context.scope);\n\n        // First parse all the args, potentially\n
coercing to the\n\n        // types expected by this overload.\n\n        const parsedArgs: Array<Expression> = [];\n\n
let argParseFailed = false;\n\n        for (let i = 1; i < args.length; i++) {\n\n            const arg = args[i];\n\n
const expectedType = Array.isArray(params) ?\n\n                params[i - 1] :\n\n                params.type;\n\n
const parsed = signatureContext.parse(arg, 1 + parsedArgs.length, expectedType);\n\n            if (!parsed) {\n\n
                argParseFailed = true;\n\n                break;\n\n            }\n\n            parsedArgs.push(parsed);\n\n
        }\n\n        if (argParseFailed) {\n\n            // Couldn't coerce args of this overload to expected type, move\n\n
            // on to\n\n            next one.\n\n            continue;\n\n        }\n\n        if (Array.isArray(params)) {\n\n            if (params.length !==\n
parsedArgs.length) {\n\n                signatureContext.error(`Expected ${params.length} arguments, but found\n
${parsedArgs.length} instead.`);\n\n                continue;\n\n            }\n\n            }\n\n            for (let i = 0; i <\n
parsedArgs.length; i++) {\n\n                const expected = Array.isArray(params) ? params[i] : params.type;\n\n
const arg = parsedArgs[i];\n\n                signatureContext.concat(i + 1).checkSubtype(expected, arg.type);\n\n
            }\n\n            if (signatureContext.errors.length === 0) {\n\n                return new CompoundExpression(op, type,\n
evaluate, parsedArgs);\n\n            }\n\n            }\n\n            assert(!signatureContext || signatureContext.errors.length > 0);\n\n
            if (overloads.length === 1) {\n\n                context.errors.push(...signatureContext.errors);\n\n            } else {\n\n
const expected = overloads.length ? overloads : availableOverloads;\n\n                const signatures = expected\n
.map(([params]) => stringifySignature(params))\n\n                    .join(' | ');\n\n                const actualTypes = [];\n\n                //\n
For error message, re-parse arguments without trying to\n\n                // apply any coercions\n\n                for (let i = 1; i <\n
args.length; i++) {\n\n                    const parsed = context.parse(args[i], 1 + actualTypes.length);\n\n                    if (!parsed)\n
return null;\n\n                    actualTypes.push(toString(parsed.type));\n\n                }\n\n                context.error(`Expected\n
arguments of type ${signatures}, but found (${actualTypes.join(', ')}) instead.`);\n\n                }\n\n                return null;\n\n
            }\n\n            static register(\n\n                registry: ExpressionRegistry,\n\n                definitions: {[_: string]: Definition } \n\n            ) {\n\n
assert(!CompoundExpression.definitions);\n\n                CompoundExpression.definitions = definitions;\n\n                for (const\n
name in definitions) {\n\n                    registry[name] = CompoundExpression;\n\n                }\n\n            }\n\n            }\n\n
function\n
stringifySignature(signature: Signature): string {\n\n                if (Array.isArray(signature)) {\n\n                    return\n
`${signature.map(toString).join(', ')}`;\n\n                } else {\n\n                    return `${toString(signature.type)}...`;\n\n
                }\n\n            }\n\n            }\n\n            export default CompoundExpression;\n\n            @flow\n\n            import { StringType, BooleanType, CollatorType }\n
from './types';\n\n            import Collator from './types/collator';\n\n            import type { Expression } from './expression';\n\n
import type EvaluationContext from './evaluation_context';\n\n            import type ParsingContext from './parsing_context';\n\n
import type { Type } from './types';\n\n            export default class CollatorExpression implements Expression {\n\n                type: Type;\n\n
caseSensitive: Expression;\n\n                diacriticSensitive: Expression;\n\n                locale: Expression | null;\n\n
            }\n\n            constructor(caseSensitive: Expression, diacriticSensitive: Expression, locale: Expression | null) {\n\n                this.type =\n
CollatorType;\n\n                this.locale = locale;\n\n                this.caseSensitive = caseSensitive;\n\n                this.diacriticSensitive =\n
diacriticSensitive;\n\n            }\n\n            static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression\n
{\n\n                if (args.length !== 2)\n\n                    return context.error(`Expected one argument.`);\n\n                const options =\n
(args[1]: any);\n\n                if (typeof options !== \"object\" || Array.isArray(options))\n\n                    return\n
context.error(`Collator options argument must be an object.`);\n\n                const caseSensitive = context.parse(\n\n
options['case-sensitive'] === undefined ? false : options['case-sensitive'], 1, BooleanType);\n\n                if (!caseSensitive)\n
return null;\n\n                const diacriticSensitive = context.parse(\n\n                    options['diacritic-sensitive'] === undefined ?\n
false : options['diacritic-sensitive'], 1, BooleanType);\n\n                if (!diacriticSensitive) return null;\n\n                let locale =\n
null;\n\n                if (options['locale']) {\n\n                    locale = context.parse(options['locale'], 1, StringType);\n\n                    if\n
(!locale) return null;\n\n                }\n\n                return new CollatorExpression(caseSensitive, diacriticSensitive, locale);\n\n
            }\n\n

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}\n\n evaluate(ctx: EvaluationContext) {\n    return new Collator(this.caseSensitive.evaluate(ctx),
this.diacriticSensitive.evaluate(ctx), this.locale ? this.locale.evaluate(ctx) : null);\n }\n\n eachChild(fn: (_:
Expression) => void) {\n    fn(this.caseSensitive);\n    fn(this.diacriticSensitive);\n    if (this.locale) {\n
fn(this.locale);\n    }\n }\n\n outputDefined() {\n    // Technically the set of possible outputs is the
combinatoric set of Collators produced\n    // by all possible outputs of locale/caseSensitive/diacriticSensitive\n
// But for the primary use of Collators in comparison operators, we ignore the Collator's\n    // possible outputs
anyway, so we can get away with leaving this false for now.\n    return false;\n }\n\n serialize() {\n    const
options = {};\n    options['case-sensitive'] = this.caseSensitive.serialize();\n    options['diacritic-sensitive'] =
this.diacriticSensitive.serialize();\n    if (this.locale) {\n        options['locale'] = this.locale.serialize();\n    }\n
return ["collator", options];\n }\n}\n\n", "/*\n * Copyright (C) 2008 Apple Inc. All Rights Reserved.\n *\n *
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following conditions\n * are met:\n * 1. Redistributions of source code must retain the above copyright\n * notice,
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(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 = p1y;\n    this.p2x = p2x;\n    this.p2y =
p2y;\n}\n\nUnitBezier.prototype.sampleCurveX = function(t) {\n    // `ax t^3 + bx t^2 + cx t` expanded using
Horner's rule.\n    return ((this.ax * t + this.bx) * t + this.cx) * t;\n}\n\nUnitBezier.prototype.sampleCurveY =
function(t) {\n    return ((this.ay * t + this.by) * t + this.cy) *
t;\n}\n\nUnitBezier.prototype.sampleCurveDerivativeX = function(t) {\n    return (3.0 * this.ax * t + 2.0 * this.bx) *
t + this.cx;\n}\n\nUnitBezier.prototype.solveCurveX = function(x, epsilon) {\n    if (typeof epsilon === 'undefined')
epsilon = 1e-6;\n    var t0, t1, t2, x2, i;\n\n    // First try a few iterations of Newton's method -- normally very fast.\n
for (t2 = x, i = 0; i < 8; i++) {\n        x2 = this.sampleCurveX(t2) - x;\n        if (Math.abs(x2) < epsilon) return
t2;\n\n        var d2 = this.sampleCurveDerivativeX(t2);\n        if (Math.abs(d2) < 1e-6) break;\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        x2 = this.sampleCurveX(t2);\n        if
(Math.abs(x2 - x) < epsilon) return t2;\n\n        if (x > x2) {\n            t0 = t2;\n        } else {\n            t1 =
t2;\n        }\n\n        t2 = (t1 - t0) * 0.5 + t0;\n    }\n\n    // Failure.\n    return t2;\n}\n\nUnitBezier.prototype.solve =
function(x, epsilon) {\n    return this.sampleCurveY(this.solveCurveX(x, epsilon));\n};\n\n", "/* @flow\n\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\n\nexport default

```



```

deepEqual;
", "/* @flow
import UnitBezier from '@mapbox/unitbezier';
import Point from '@mapbox/point-
geometry';
import window from './window';
import type {Callback} from '../types/callback';
**
@module util
* @private
*/
* Given a value `t` that varies between 0 and 1, return
* an interpolation
function that eases between 0 and 1 in a pleasing
* cubic in-out fashion.
*/
* @private
*/
export function
easeCubicInOut(t: number): number {
  if (t <= 0) return 0;
  if (t >= 1) return 1;
  const t2 = t * t,
    t3 =
t2 * t;
  return 4 * (t < 0.5 ? t3 : 3 * (t - t2) + t3 - 0.75);
}
**
* Given given (x, y), (x1, y1) control points
for a bezier curve,
* return a function that interpolates along that curve.
*/
* @param p1x control point 1 x
coordinate
* @param p1y control point 1 y coordinate
* @param p2x control point 2 x coordinate
* @param
p2y control point 2 y coordinate
* @private
*/
export function bezier(p1x: number, p1y: number, p2x: number,
p2y: number): (t: number) => number {
  const bezier = new UnitBezier(p1x, p1y, p2x, p2y);
  return
function(t: number) {
    return bezier.solve(t);
  };
}
**
* A default bezier-curve powered easing
function with
* control points (0.25, 0.1) and (0.25, 1)
*/
* @private
*/
export const ease = bezier(0.25, 0.1,
0.25, 1);
**
* constrain n to the given range via min + max
*/
* @param n value
* @param min the
minimum value to be returned
* @param max the maximum value to be returned
* @returns the clamped
value
* @private
*/
export function clamp(n: number, min: number, max: number): number {
  return
Math.min(max, Math.max(min, n));
}
**
* constrain n to the given range, excluding the minimum, via
modular arithmetic
*/
* @param n value
* @param min the minimum value to be returned, exclusive
* @param max the maximum value to be returned, inclusive
* @returns constrained number
* @private
*/
export function wrap(n: number, min: number, max: number): number {
  const d = max - min;
  const w =
((n - min) % d + d) % d + min;
  return (w === min) ? max : w;
}
**
* Call an asynchronous function on an
array of arguments,
* calling `callback` with the completed results of all calls.
*/
* @param array input to each
call of the async function.
* @param fn an async function with signature (data, callback)
* @param callback a
callback run after all async work is done.
* called with an array, containing the results of each async call.
*/
* @private
*/
export function asyncAll<Item, Result>(
  array: Array<Item>,
  fn: (item: Item, fnCallback:
Callback<Result>) => void,
  callback: Callback<Array<Result>>) {
  if (!array.length) { return
callback(null, []); }
  let remaining = array.length;
  const results = new Array(array.length);
  let error =
null;
  array.forEach((item, i) => {
    fn(item, (err, result) => {
      if (err) error = err;
      results[i] =
((result: any): Result); // https://github.com/facebook/flow/issues/2123
      if (--remaining === 0)
callback(error, results);
    });
  });
}
**
* Polyfill for Object.values. Not fully spec compliant, but we
don't
* need it to be.
*/
* @private
*/
export function values<T>(obj: {[key: string]: T}): Array<T> {
  const result = [];
  for (const k in obj) {
    result.push(obj[k]);
  }
  return result;
}
**
* Compute
the difference between the keys in one object and the keys
* in another object.
*/
* @returns keys difference
* @private
*/
export function keysDifference<S, T>(obj: {[key: string]: S}, other: {[key: string]: T}):
Array<string> {
  const difference = [];
  for (const i in obj) {
    if (!(i in other)) {
      difference.push(i);
    }
  }
  return difference;
}
**
* Given a destination object and optionally many
source objects,
* copy all properties from the source objects into the destination.
* The last source object given
overrides properties from previous
* source objects.
*/
* @param dest destination object
* @param sources
sources from which properties are pulled
* @private
*/
export function extend(dest: Object, ...sources:
Array<?Object>): Object {
  for (const src of sources) {
    for (const k in src) {
      dest[k] = src[k];
    }
  }
  return dest;
}
**
* Given an object and a number of properties as strings, return version
* of that
object with only those properties.
*/
* @param src the object
* @param properties an array of property names
chosen
* to appear on the resulting object.
* @returns object with limited properties.
* @example
* var foo
= { name: 'Charlie', age: 10 };
* var justName = pick(foo, ['name']);
* // justName = { name: 'Charlie' }
*/
* @private
*/
export function pick(src: Object, properties: Array<string>): Object {
  const result = {};
  for
(let i = 0; i < properties.length; i++) {
    const k = properties[i];
    if (k in src) {
      result[k] = src[k];
    }
  }
  return result;
}
**
* Return a unique numeric id, starting at 1 and incrementing
with
* each call.
*/
* @returns unique numeric id.
* @private
*/
export function uniqueId(): number {
  return id++;
}
**
* Return a random UUID (v4). Taken from: https://gist.github.com/jed/982883
*/

```

```

@private\n *\nexport function uuid(): string {\n  function b(a) {\n    return a ? (a ^ Math.random() * 16 >> a /
4).toString(16) :\n    // $FlowFixMe: Flow doesn't like the implied array literal conversion here\n    ([1e7] + -
[1e3] + -4e3 + -8e3 + -1e11).replace(/([018]/g, b);\n  }\n  return b();\n}\n\n/**\n * Validate a string to match
UUID(v4) of the\n * form: xxxxxxxx-xxxx-4xxx-[89ab]xxx-xxxxxxxxxxxx\n * @param str string to validate.\n *
@private\n *\nexport function validateUuid(str: ?string): boolean {\n  return str ? /^[0-9a-f]{8}-[0-9a-f]{4}-[4][0-
9a-f]{3}-[89ab][0-9a-f]{3}-[0-9a-f]{12}$/i.test(str) : false;\n}\n\n/**\n * Given an array of member function names
as strings, replace all of them\n * with bound versions that will always refer to `context` as `this`. This\n * is useful
for classes where otherwise event bindings would reassign\n * `this` to the evented object or some other value: this
lets you ensure\n * the `this` value always.\n *\n * @param fns list of member function names\n * @param context
the context value\n * @example\n * function MyClass() {\n *   bindAll(['ontimer'], this);\n *   this.name = 'Tom';\n * }\n * MyClass.prototype.ontimer = function() {\n *   alert(this.name);\n * };\n * var myClass = new MyClass();\n *
setTimeout(myClass.ontimer, 100);\n * @private\n *\nexport function bindAll(fns: Array<string>, context:
Object): void {\n  fns.forEach((fn => {\n    if (!context[fn]) { return; }\n    context[fn] =
context[fn].bind(context);\n  }));\n}\n\n/**\n * Determine if a string ends with a particular substring\n *\n *
@private\n *\nexport function endsWith(string: string, suffix: string): boolean {\n  return string.indexOf(suffix,
string.length - suffix.length) !== -1;\n}\n\n/**\n * Create an object by mapping all the values of an existing object
while\n * preserving their keys.\n *\n * @private\n *\nexport function mapObject(input: Object, iterator: Function,
context?: Object): Object {\n  const output = {};\n  for (const key in input) {\n    output[key] =
iterator.call(context || this, input[key], key, input);\n  }\n  return output;\n}\n\n/**\n * Create an object by filtering
out values of an existing object.\n *\n * @private\n *\nexport function filterObject(input: Object, iterator: Function,
context?: Object): Object {\n  const output = {};\n  for (const key in input) {\n    if (iterator.call(context || this,
input[key], key, input)) {\n      output[key] = input[key];\n    }\n  }\n  return output;\n}\n\nimport deepEqual
from './style-spec/util/deep_equal';\nexport {deepEqual};\n\n/**\n * Deeply clones two objects.\n *\n * @private\n *\nexport function clone<T>(input: T): T {\n  if (Array.isArray(input)) {\n    return input.map(clone);\n  } else
if (typeof input === 'object' && input) {\n    return ((mapObject(input, clone): any): T);\n  } else {\n    return
input;\n  }\n}\n\n/**\n * Check if two arrays have at least one common element.\n *\n * @private\n *\nexport
function arraysIntersect<T>(a: Array<T>, b: Array<T>): boolean {\n  for (let l = 0; l < a.length; l++) {\n    if
(b.indexOf(a[l]) >= 0) return true;\n  }\n  return false;\n}\n\n/**\n * Print a warning message to the console and
ensure duplicate warning messages\n * are not printed.\n *\n * @private\n *\nconst warnOnceHistory: {[key:
string]: boolean} = {};\n\nexport function warnOnce(message: string): void {\n  if (!warnOnceHistory[message])
{\n    // console isn't defined in some WebWorkers, see #2558\n    if (typeof console !== 'undefined')\n      console.warn(message);\n    warnOnceHistory[message] = true;\n  }\n}\n\n/**\n * Indicates if the provided
Points are in a counter clockwise (true) or clockwise (false) order\n *\n * @private\n *\n@returns true for a counter
clockwise set of points\n *\n// http://bryceboe.com/2006/10/23/line-segment-intersection-algorithm\n\nexport
function isCounterClockwise(a: Point, b: Point, c: Point): boolean {\n  return (c.y - a.y) * (b.x - a.x) > (b.y - a.y) *
(c.x - a.x);\n}\n\n/**\n * Returns the signed area for the polygon ring. Postive areas are exterior rings and\n * have
a clockwise winding. Negative areas are interior rings and have a counter clockwise\n * ordering.\n *\n *
@private\n *\n@param ring Exterior or interior ring\n *\nexport function calculateSignedArea(ring: Array<Point>):
number {\n  let sum = 0;\n  for (let i = 0, len = ring.length, j = len - 1, p1, p2; i < len; j = i++) {\n    p1 =
ring[i];\n    p2 = ring[j];\n    sum += (p2.x - p1.x) * (p1.y + p2.y);\n  }\n  return sum;\n}\n\n/**\n * Detects
closed polygons, first + last point are equal\n *\n * @private\n *\n@param points array of points\n *\n@return true if
the points are a closed polygon\n *\nexport function isClosedPolygon(points: Array<Point>): boolean {\n  // If it is
2 points that are the same then it is a point\n  // If it is 3 points with start and end the same then it is a line\n  if
(points.length < 4)\n    return false;\n\n  const p1 = points[0];\n  const p2 = points[points.length - 1];\n\n  if
(Math.abs(p1.x - p2.x) > 0 ||\n    Math.abs(p1.y - p2.y) > 0) {\n    return false;\n  }\n\n  // polygon
simplification can produce polygons with zero area and more than 3 points\n  return
Math.abs(calculateSignedArea(points)) > 0.01;\n}\n\n/**\n * Converts spherical coordinates to cartesian
coordinates.\n *\n * @private\n *\n@param spherical Spherical coordinates, in [radial, azimuthal, polar]\n * @return

```



```

this.setSouthWest(sw[0]).setNorthEast(sw[1]);\n    }\n    }\n\n    /**\n     * Set the northeast corner of the
bounding box\n     *\n     * @param {LngLatLike} ne a {@link LngLatLike} object describing the northeast corner
of the bounding box.\n     *\n     * @returns {LngLatBounds} `this`\n     *\n     * ^\n     setNorthEast(ne: LngLatLike) {\n
this._ne = ne instanceof LngLat ? new LngLat(ne.lng, ne.lat) : LngLat.convert(ne);\n     return this;\n     }\n\n    /**\n     * Set the southwest corner of the bounding box\n     *\n     * @param {LngLatLike} sw a {@link
LngLatLike} object describing the southwest corner of the bounding box.\n     *\n     * @returns {LngLatBounds} `this`\n     *\n     * ^\n     setSouthWest(sw: LngLatLike) {\n
this._sw = sw instanceof LngLat ? new LngLat(sw.lng, sw.lat) :
LngLat.convert(sw);\n     return this;\n     }\n\n    /**\n     * Extend the bounds to include a given LngLatLike or
LngLatBoundsLike.\n     *\n     * @param {LngLatLike|LngLatBoundsLike} obj object to extend to\n     *\n     * @returns
{LngLatBounds} `this`\n     *\n     * ^\n     extend(obj: LngLatLike | LngLatBoundsLike) {\n
const sw = this._sw,\n     ne = this._ne;\n     let sw2, ne2;\n\n     if (obj instanceof LngLat) {\n
sw2 = obj;\n     ne2 = obj;\n     } else if (obj instanceof LngLatBounds) {\n
sw2 = obj._sw;\n     ne2 = obj._ne;\n\n     if (!sw2 ||
!ne2) return this;\n     } else {\n
if (Array.isArray(obj)) {\n
if (obj.length === 4 ||
obj.every(Array.isArray)) {\n
const lngLatBoundsObj = ((obj: any): LngLatBoundsLike);\n
return this.extend(LngLatBounds.convert(lngLatBoundsObj));\n
} else {\n
const lngLatObj =
((obj: any): LngLatLike);\n
return this.extend(LngLat.convert(lngLatObj));\n
}\n
}\n
return this;\n
}\n\n     if (!sw && !ne) {\n
this._sw = new LngLat(sw2.lng, sw2.lat);\n
this._ne
= new LngLat(ne2.lng, ne2.lat);\n
} else {\n
sw.lng = Math.min(sw2.lng, sw.lng);\n
sw.lat =
Math.min(sw2.lat, sw.lat);\n
ne.lng = Math.max(ne2.lng, ne.lng);\n
ne.lat = Math.max(ne2.lat,
ne.lat);\n
}\n\n     return this;\n
}\n\n    /**\n     * Returns the geographical coordinate equidistant from the
bounding box's corners.\n     *\n     * @returns {LngLat} The bounding box's center.\n     *\n     * @example\n     * var llb
= new mapboxgl.LngLatBounds([-73.9876, 40.7661], [-73.9397, 40.8002]);\n     * llb.getCenter(); // = LngLat {lng:
-73.96365, lat: 40.78315}\n     *\n     * ^\n     getCenter(): LngLat {\n
return new LngLat((this._sw.lng + this._ne.lng) /
2, (this._sw.lat + this._ne.lat) / 2);\n
}\n\n    /**\n     * Returns the southwest corner of the bounding box.\n     *\n     * @returns {LngLat} The southwest corner of the bounding box.\n     *\n     * ^\n     getSouthWest(): LngLat { return
this._sw; }\n\n    /**\n     * Returns the northeast corner of the bounding box.\n     *\n     * @returns {LngLat} The
northeast corner of the bounding box.\n     *\n     * ^\n     getNorthEast(): LngLat { return this._ne; }\n\n    /**\n     * Returns
the northwest corner of the bounding box.\n     *\n     * @returns {LngLat} The northwest corner of the bounding
box.\n     *\n     * ^\n     getNorthWest(): LngLat { return new LngLat(this.getWest(), this.getNorth()); }\n\n    /**\n     *
Returns the southeast corner of the bounding box.\n     *\n     * @returns {LngLat} The southeast corner of the
bounding box.\n     *\n     * ^\n     getSouthEast(): LngLat { return new LngLat(this.getEast(), this.getSouth()); }\n\n    /**\n     *
Returns the west edge of the bounding box.\n     *\n     * @returns {number} The west edge of the bounding box.\n     *\n     * ^\n     getWest(): number { return this._sw.lng; }\n\n    /**\n     * Returns the south edge of the bounding box.\n     *\n     * @returns {number} The south edge of the bounding box.\n     *\n     * ^\n     getSouth(): number { return this._sw.lat;
}\n\n    /**\n     * Returns the east edge of the bounding box.\n     *\n     * @returns {number} The east edge of the
bounding box.\n     *\n     * ^\n     getEast(): number { return this._ne.lng; }\n\n    /**\n     * Returns the north edge of the
bounding box.\n     *\n     * @returns {number} The north edge of the bounding box.\n     *\n     * ^\n     getNorth(): number {
return this._ne.lat; }\n\n    /**\n     * Returns the bounding box represented as an array.\n     *\n     * @returns
{Array<Array<number>>} The bounding box represented as an array, consisting of the\n     * southwest and
northeast coordinates of the bounding represented as arrays of numbers.\n     *\n     * @example\n     * var llb = new
mapboxgl.LngLatBounds([-73.9876, 40.7661], [-73.9397, 40.8002]);\n     * llb.toArray(); // = [[-73.9876, 40.7661],
[-73.9397, 40.8002]]\n     *\n     * ^\n     toArray() {\n
return [this._sw.toArray(), this._ne.toArray()];\n
}\n\n    /**\n     * Return the bounding box represented as a string.\n     *\n     * @returns {string} The bounding box represents as a
string of the format\n     * `LngLatBounds(LngLat(lng, lat), LngLat(lng, lat))`\n     *\n     * @example\n     * var llb =
new mapboxgl.LngLatBounds([-73.9876, 40.7661], [-73.9397, 40.8002]);\n     * llb.toString(); // =
`LngLatBounds(LngLat(-73.9876, 40.7661), LngLat(-73.9397, 40.8002))`\n     *\n     * ^\n     toString() {\n
return
`LngLatBounds(${this._sw.toString()}, ${this._ne.toString()}`;\n
}\n\n    /**\n     * Check if the bounding box is
an empty/`null`-type box.\n     *\n     * @returns {boolean} True if bounds have been defined, otherwise false.\n

```

```

*\n isEmpty() {\n    return !(this._sw && this._ne);\n }\n\n /**\n  * Check if the point is within the
bounding box.\n  *\n  * @param {LngLatLike} lnglat geographic point to check against.\n  * @returns
{boolean} True if the point is within the bounding box.\n  */\n  contains(lnglat: LngLatLike) {\n    const {lng,
lat} = LngLat.convert(lnglat);\n    const containsLatitude = this._sw.lat <= lat && lat <= this._ne.lat;\n    let
containsLongitude = this._sw.lng <= lng && lng <= this._ne.lng;\n    if (this._sw.lng > this._ne.lng) { // wrapped
coordinates\n        containsLongitude = this._sw.lng >= lng && lng >= this._ne.lng;\n    }\n\n    return
containsLatitude && containsLongitude;\n  }\n\n /**\n  * Converts an array to a `LngLatBounds` object.\n
*\n  * If a `LngLatBounds` object is passed in, the function returns it unchanged.\n  *\n  * Internally, the
function calls `LngLat#convert` to convert arrays to `LngLat` values.\n  *\n  * @param {LngLatBoundsLike}
input An array of two coordinates to convert, or a `LngLatBounds` object to return.\n  * @returns
{LngLatBounds} A new `LngLatBounds` object, if a conversion occurred, or the original `LngLatBounds` object.\n
*\n  * @example\n  * var arr = [[-73.9876, 40.7661], [-73.9397, 40.8002]];\n  * var llb =
mapboxgl.LngLatBounds.convert(arr);\n  * llb; // = LngLatBounds {_sw: LngLat {lng: -73.9876, lat: 40.7661},
_ne: LngLat {lng: -73.9397, lat: 40.8002}}\n  */\n  static convert(input: LngLatBoundsLike): LngLatBounds {\n
    if (!input || input instanceof LngLatBounds) return input;\n    return new LngLatBounds(input);\n
}\n}\n\n/**\n * A {@link LngLatBounds} object, an array of {@link LngLatLike} objects in [sw, ne] order,\n * or
an array of numbers in [west, south, east, north] order.\n *\n * @typedef {LngLatBounds | [LngLatLike,
LngLatLike] | [number, number, number, number]} LngLatBoundsLike\n * @example\n * var v1 = new
mapboxgl.LngLatBounds(\n *   new mapboxgl.LngLat(-73.9876, 40.7661),\n *   new mapboxgl.LngLat(-73.9397,
40.8002)\n * );\n * var v2 = new mapboxgl.LngLatBounds([-73.9876, 40.7661], [-73.9397, 40.8002])\n * var v3 =
[[-73.9876, 40.7661], [-73.9397, 40.8002]];\n *\nexport type LngLatBoundsLike = LngLatBounds | [LngLatLike,
LngLatLike] | [number, number, number, number];\n\nexport default LngLatBounds;\n", "/* @flow\n\nimport
{wrap} from './util/util';\nimport LngLatBounds from './lng_lat_bounds';\n\n/**\n * Approximate radius of the earth
in meters.\n * Uses the WGS-84 approximation. The radius at the equator is ~6378137 and at the poles is ~6356752.
https://en.wikipedia.org/wiki/World\_Geodetic\_System#WGS84\n * 6371008.8 is one published "average radius"\n
see https://en.wikipedia.org/wiki/Earth\_radius#Mean\_radius, or ftp://athena.fsv.cvut.cz/ZFG/grs80-Moritz.pdf\n
p.4\n *\nexport const earthRadius = 6371008.8;\n\n/**\n * A `LngLat` object represents a given longitude and
latitude coordinate, measured in degrees.\n *\n * Mapbox GL uses longitude, latitude coordinate order (as opposed
to latitude, longitude) to match GeoJSON.\n *\n * Note that any Mapbox GL method that accepts a `LngLat` object
as an argument or option\n * can also accept an `Array` of two numbers and will perform an implicit conversion.\n
*\n This flexible type is documented as {@link LngLatLike}.\n *\n * @param {number} lng Longitude, measured in
degrees.\n * @param {number} lat Latitude, measured in degrees.\n * @example\n * var ll = new
mapboxgl.LngLat(-73.9749, 40.7736);\n * @see [Get coordinates of the mouse
pointer](https://www.mapbox.com/mapbox-gl-js/example/mouse-position/)\n * @see [Display a
popup](https://www.mapbox.com/mapbox-gl-js/example/popup/)\n * @see [Highlight features within a bounding
box](https://www.mapbox.com/mapbox-gl-js/example/using-box-queryrenderedfeatures/)\n * @see [Create a
timeline animation](https://www.mapbox.com/mapbox-gl-js/example/timeline-animation/)\n *\n\nclass LngLat {\n
  lng: number;\n  lat: number;\n\n  constructor(lng: number, lat: number) {\n    if (isNaN(lng) || isNaN(lat)) {\n
      throw new Error(`Invalid LngLat object: (${lng}, ${lat})`);\n    }\n    this.lng = +lng;\n    this.lat = +lat;\n
    if (this.lat > 90 || this.lat < -90) {\n      throw new Error("Invalid LngLat latitude value: must be between -90
and 90");\n    }\n  }\n\n  /**\n   * Returns a new `LngLat` object whose longitude is wrapped to the range (-
180, 180).\n   *\n   * @returns {LngLat} The wrapped `LngLat` object.\n   * @example\n   * var ll = new
mapboxgl.LngLat(286.0251, 40.7736);\n   * var wrapped = ll.wrap();\n   * wrapped.lng; // = -73.9749\n   *\n  wrap() {\n    return new LngLat(wrap(this.lng, -180, 180), this.lat);\n  }\n\n  /**\n   * Returns the coordinates
represented as an array of two numbers.\n   *\n   * @returns {Array<number>} The coordinates represented as an
array of longitude and latitude.\n   * @example\n   * var ll = new mapboxgl.LngLat(-73.9749, 40.7736);\n   *
ll.toArray(); // = [-73.9749, 40.7736]\n   *\n  toArray() {\n    return [this.lng, this.lat];\n  }\n\n  /**\n   *
Returns the coordinates represent as a string.\n   *\n   * @returns {string} The coordinates represented as a string

```

```

of the format `LngLat(lng, lat)`.
 * @example
 * var ll = new mapboxgl.LngLat(-73.9749, 40.7736);
 * ll.toString(); // = "LngLat(-73.9749, 40.7736)"
 * ^ toString() {
 *   return `LngLat(${this.lng},
 *   ${this.lat})`;
 * }
 /**
 * Returns the approximate distance between a pair of coordinates in meters
 * Uses the Haversine Formula (from R.W. Sinnott, "Virtues of the Haversine", Sky and Telescope, vol. 68, no. 2,
 * 1984, p. 159)
 * @param {LngLat} lngLat coordinates to compute the distance to
 * @returns
 * {number} Distance in meters between the two coordinates.
 * @example
 * var new_york = new
 * mapboxgl.LngLat(-74.0060, 40.7128);
 * var los_angeles = new mapboxgl.LngLat(-118.2437, 34.0522);
 * new_york.distanceTo(los_angeles); // = 3935751.690893987, "true distance" using a non-spherical approximation
 * is ~3966km
 * ^ distanceTo(lngLat: LngLat) {
 *   const rad = Math.PI / 180;
 *   const lat1 = this.lat *
 *   rad;
 *   const lat2 = lngLat.lat * rad;
 *   const a = Math.sin(lat1) * Math.sin(lat2) + Math.cos(lat1) *
 *   Math.cos(lat2) * Math.cos((lngLat.lng - this.lng) * rad);
 *   const maxMeters = earthRadius *
 *   Math.acos(Math.min(a, 1));
 *   return maxMeters;
 * }
 /**
 * Returns a `LngLatBounds` from the
 * coordinates extended by a given `radius`. The returned `LngLatBounds` completely contains the `radius`.
 * @param {number} [radius=0] Distance in meters from the coordinates to extend the bounds.
 * @returns
 * {LngLatBounds} A new `LngLatBounds` object representing the coordinates extended by the `radius`.
 * @example
 * var ll = new mapboxgl.LngLat(-73.9749, 40.7736);
 * ll.toBounds(100).toArray(); // = [[-
 * 73.97501862141328, 40.77351016847229], [-73.97478137858673, 40.77368983152771]]
 * ^
 * toBounds(radius?: number = 0) {
 *   const earthCircumferenceInMetersAtEquator = 40075017;
 *   const
 *   latAccuracy = 360 * radius / earthCircumferenceInMetersAtEquator;
 *   lngAccuracy = latAccuracy /
 *   Math.cos((Math.PI / 180) * this.lat);
 *   return new LngLatBounds(new LngLat(this.lng - lngAccuracy, this.lat
 *   - latAccuracy),
 *   new LngLat(this.lng + lngAccuracy, this.lat + latAccuracy));
 * }
 /**
 * Converts
 * an array of two numbers or an object with `lng` and `lat` or `lon` and `lat` properties
 * to a `LngLat` object.
 * If a `LngLat` object is passed in, the function returns it unchanged.
 * @param {LngLatLike}
 * input An array of two numbers or object to convert, or a `LngLat` object to return.
 * @returns {LngLat} A new
 * `LngLat` object, if a conversion occurred, or the original `LngLat` object.
 * @example
 * var arr = [-
 * 73.9749, 40.7736];
 * var ll = mapboxgl.LngLat.convert(arr);
 * ll; // = LngLat {lng: -73.9749, lat:
 * 40.7736}
 * ^ static convert(input: LngLatLike): LngLat {
 *   if (input instanceof LngLat) {
 *     return
 *     input;
 *   }
 *   if (Array.isArray(input) && (input.length === 2 || input.length === 3)) {
 *     return new
 *     LngLat(Number(input[0]), Number(input[1]));
 *   }
 *   if (!Array.isArray(input) && typeof input === 'object'
 *   && input !== null) {
 *     return new LngLat(
 *       // flow can't refine this to have one of lng or lat, so we
 *       have to cast to any
 *       Number('lng' in input ? (input: any).lng : (input: any).lon),
 *       Number(input.lat));
 *   }
 *   throw new Error("`LngLatLike` argument must be specified as a
 *   LngLat instance, an object {lng: <lng>, lat: <lat>}, an object {lon: <lng>, lat: <lat>}, or an array of [<lng>,
 *   <lat>]");
 * }
 /**
 * A LngLat object, an array of two numbers representing longitude and
 * latitude,
 * or an object with `lng` and `lat` or `lon` and `lat` properties.
 * @typedef {LngLat | {lng: number,
 *   lat: number} | {lon: number, lat: number} | [number, number]} LngLatLike
 * @example
 * var v1 = new
 * mapboxgl.LngLat(-122.420679, 37.772537);
 * var v2 = [-122.420679, 37.772537];
 * var v3 = {lon: -
 * 122.420679, lat: 37.772537};
 * ^ export type LngLatLike = LngLat | {lng: number, lat: number} | {lon: number,
 *   lat: number} | [number, number];
 * export default LngLat;
 * // @flow
 * import LngLat, {earthRadius} from
 * './geo/lng_lat';
 * import type {LngLatLike} from './geo/lng_lat';
 * The average circumference of the world
 * in meters.
 * ^ const earthCircumference = 2 * Math.PI * earthRadius; // meters
 * The circumference at a
 * line of latitude in meters.
 * ^ function circumferenceAtLatitude(latitude: number) {
 *   return earthCircumference
 *   * Math.cos(latitude * Math.PI / 180);
 * }
 * export function mercatorXfromLng(lng: number) {
 *   return (180 +
 *   lng) / 360;
 * }
 * export function mercatorYfromLat(lat: number) {
 *   return (180 - (180 / Math.PI *
 *   Math.log(Math.tan(Math.PI / 4 + lat * Math.PI / 360)))) / 360;
 * }
 * export function
 * mercatorZfromAltitude(altitude: number, lat: number) {
 *   return altitude /
 *   circumferenceAtLatitude(lat);
 * }
 * export function lngFromMercatorX(x: number) {
 *   return x * 360 -
 *   180;
 * }
 * export function latFromMercatorY(y: number) {
 *   const y2 = 180 - y * 360;
 *   return 360 / Math.PI *

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Math.atan(Math.exp(y2 * Math.PI / 180)) - 90;\n\n\nexport function altitudeFromMercatorZ(z: number, y: number)
{\n  return z * circumferenceAtLatitude(latFromMercatorY(y));\n}\n\n/**\n * Determine the Mercator scale factor
for a given latitude, see\n * https://en.wikipedia.org/wiki/Mercator_projection#Scale_factor\n *\n * At the equator
the scale factor will be 1, which increases at higher latitudes.\n *\n * @param {number} lat Latitude\n *\n * @returns
{number} scale factor\n *\n * @private\n */\n\nexport function mercatorScale(lat: number) {\n  return 1 / Math.cos(lat *
Math.PI / 180);\n}\n\n/**\n * A `MercatorCoordinate` object represents a projected three dimensional position.\n
*\n * `MercatorCoordinate` uses the web mercator projection ([EPSG:3857](https://epsg.io/3857)) with slightly
different units:\n * - the size of 1 unit is the width of the projected world instead of the `mercator meter`\n * - the
origin of the coordinate space is at the north-west corner instead of the middle\n *\n * For example,
`MercatorCoordinate(0, 0, 0)` is the north-west corner of the mercator world and\n * `MercatorCoordinate(1, 1, 0)`
is the south-east corner. If you are familiar with\n * [vector tiles](https://github.com/mapbox/vector-tile-spec) it may
be helpful to think\n * of the coordinate space as the `0/0/0` tile with an extent of `1`.\n *\n * The `z` dimension of
`MercatorCoordinate` is conformal. A cube in the mercator coordinate space would be rendered as a cube.\n *\n *
@param {number} x The x component of the position.\n * @param {number} y The y component of the position.\n
*\n * @param {number} z The z component of the position.\n *\n * @example\n * var nullIsland = new
mapboxgl.MercatorCoordinate(0.5, 0.5, 0);\n *\n * @see [Add a custom style
layer](https://www.mapbox.com/mapbox-gl-js/example/custom-style-layer/)\n *\n * @class MercatorCoordinate {\n
x: number;\n y: number;\n z: number;\n\n constructor(x: number, y: number, z: number = 0) {\n  this.x =
+x;\n  this.y = +y;\n  this.z = +z;\n }\n\n /**\n * Project a `LngLat` to a `MercatorCoordinate`.\n *\n *
@param {LngLatLike} lngLatLike The location to project.\n * @param {number} altitude The altitude in
meters of the position.\n * @returns {MercatorCoordinate} The projected mercator coordinate.\n *\n *
@example\n * var coord = mapboxgl.MercatorCoordinate.fromLngLat({ lng: 0, lat: 0 }, 0);\n * coord;\n
MercatorCoordinate(0.5, 0.5, 0)\n *\n * static fromLngLat(lngLatLike: LngLatLike, altitude: number = 0) {\n
const lngLat = LngLat.convert(lngLatLike);\n\n  return new MercatorCoordinate(\n
mercatorXfromLng(lngLat.lng),\n          mercatorYfromLat(lngLat.lat),\n
mercatorZfromAltitude(altitude, lngLat.lat));\n }\n\n /**\n * Returns the `LngLat` for the coordinate.\n *\n *
@returns {LngLat} The `LngLat` object.\n *\n * @example\n * var coord = new
mapboxgl.MercatorCoordinate(0.5, 0.5, 0);\n * var latLng = coord.toLngLat(); // LngLat(0, 0)\n *\n *
toLngLat() {\n  return new LngLat(\n    lngFromMercatorX(this.x),\n
latFromMercatorY(this.y));\n }\n\n /**\n * Returns the altitude in meters of the coordinate.\n *\n *
@returns {number} The altitude in meters.\n *\n * @example\n * var coord = new
mapboxgl.MercatorCoordinate(0, 0, 0.02);\n * coord.toAltitude(); // 6914.281956295339\n *\n * toAltitude()
{\n  return altitudeFromMercatorZ(this.z, this.y);\n }\n\n /**\n * Returns the distance of 1 meter in
`MercatorCoordinate` units at this latitude.\n *\n * For coordinates in real world units using meters, this
naturally provides the scale\n * to transform into `MercatorCoordinate`s.\n *\n * @returns {number}
Distance of 1 meter in `MercatorCoordinate` units.\n *\n * meterInMercatorCoordinateUnits() {\n  // 1 meter
/ circumference at equator in meters * Mercator projection scale factor at this latitude\n  return 1 /
earthCircumference * mercatorScale(latFromMercatorY(this.y));\n }\n\n\n\nexport default
MercatorCoordinate;\n", "/* @flow\n\n/**\n * The maximum value of a coordinate in the internal tile coordinate
system. Coordinates of\n * all source features normalized to this extent upon load.\n *\n * The value is a
consequence of the following:\n *\n * * Vertex buffer store positions as signed 16 bit integers.\n * * One bit is lost
for signedness to support tile buffers.\n * * One bit is lost because the line vertex buffer used to pack 1 bit of other
data into the int.\n * * One bit is lost to support features extending past the extent on the right edge of the tile.\n *
*\n * This leaves us with 2^13 = 8192\n *\n * @private\n * @readonly\n */\n\nexport default 8192;\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 MercatorCoordinate from

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'././././geo/mercator_coordinate';\nimport EXTENT from '././././data/extent';\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];\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 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 coord = MercatorCoordinate.fromLngLat({lng: p[0], lat: p[1]}, 0);\n  const
tilesAtZoom = Math.pow(2, canonical.z);\n  return [Math.round(coord.x * tilesAtZoom * EXTENT),
Math.round(coord.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  if ((x1 * y3 - x3 *
y1) * (x2 * y3 - x3 * y2) < 0) return true;\n  return false;\n}\n\n// a, b are end points for line segment1, c and d are
end points for line segment2\nfunction lineIntersectLine(a, b, c, d) {\n  // check if two segments are parallel or
not\n  // precondition is end point a, b is inside polygon, if line a->b is\n  // parallel to polygon edge c->d, then a-
>b won't intersect with c->d\n  const vectorP = [b[0] - a[0], b[1] - a[1]]; \n  const vectorQ = [d[0] - c[0], d[1] -
c[1]]; \n  if (perp(vectorQ, vectorP) === 0) return false;\n\n  // If lines are intersecting with each other, the relative
location should be:\n  // a and b lie in different sides of segment c->d\n  // c and d lie in different sides of segment
a->b\n  if (twoSided(a, b, c, d) && twoSided(c, d, a, b)) return true;\n  return false;\n}\n\nfunction
lineIntersectPolygon(p1, p2, polygon) {\n  for (const ring of polygon) {\n    // loop through every edge of the
ring\n    for (let j = 0; j < ring.length - 1; ++j) {\n      if (lineIntersectLine(p1, p2, ring[j], ring[j + 1])) {\n
        return true;\n      }\n    }\n  }\n  return false;\n}\n\nfunction lineStringWithinPolygon(line, polygon) {\n
// First, check if geometry points of line segments are all inside polygon\n  for (let i = 0; i < line.length; ++i) {\n
if (!pointWithinPolygon(line[i], polygon)) {\n    return false;\n  }\n}\n\n  // Second, check if there is line
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 pointsWithinPolygons(ctx: EvaluationContext, polygonGeometry: GeoJSONPolygons) {\n
const pointBBox = [Infinity, Infinity, -Infinity, -Infinity];\n  const polyBBox = [Infinity, Infinity, -Infinity, -
Infinity];\n  const canonical = ctx.canonicalID();\n  const shifts = [canonical.x * EXTENT, canonical.y *

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=== '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\n\nclass Var implements
Expression {\n  type: Type;\n  name: string;\n  boundExpression: Expression;\n\n  constructor(name: string,
boundExpression: Expression) {\n    this.type = boundExpression.type;\n    this.name = name;\n
this.boundExpression = boundExpression;\n  }\n\n  static parse(args: $ReadOnlyArray<mixed>, context:
ParsingContext) {\n    if (args.length !== 2 || typeof args[1] !== 'string')\n      return context.error(`var
expression requires exactly one string literal argument.`);\n    const name = args[1];\n    if
(!context.scope.has(name)) {\n      return context.error(`Unknown variable \"${name}\". Make sure \"${name}\"
has been bound in an enclosing \"let\" expression before using it.`);\n    }\n    return new Var(name,
context.scope.get(name));\n  }\n\n  evaluate(ctx: EvaluationContext) {\n    return
this.boundExpression.evaluate(ctx);\n  }\n\n  eachChild() {\n\n  }\n\n  outputDefined() {\n    return false;\n  }\n\n
serialize() {\n    return [\"var\", this.name];\n  }\n}\n\nexport default Var;\n", "// @flow\n\nimport Scope from
'./scope';\nimport {checkSubtype} from './types';\nimport ParsingError from './parsing_error';\nimport Literal from
'./definitions/literal';\nimport Assertion from './definitions/assertion';\nimport Coercion from
'./definitions/coercion';\nimport EvaluationContext from './evaluation_context';\nimport CompoundExpression from
'./compound_expression';\nimport CollatorExpression from './definitions/collator';\nimport Within from
'./definitions/within';\nimport {isGlobalPropertyConstant, isFeatureConstant} from './is_constant';\nimport Var from
'./definitions/var';\n\nimport type {Expression, ExpressionRegistry} from './expression';\nimport type {Type} from
'./types';\n\n/**\n * State associated parsing at a given point in an expression tree.\n * @private\n */\n\nclass
ParsingContext {\n  registry: ExpressionRegistry;\n  path: Array<number>;\n  key: string;\n  scope: Scope;\n
errors: Array<ParsingError>;\n\n  // The expected type of this expression. Provided only to allow Expression\n //
implementations to infer argument types: Expression#parse() need not\n // check that the output type of the parsed
expression matches\n // `expectedType`\n  expectedType: ?Type;\n\n  constructor(\n    registry:
ExpressionRegistry,\n    path: Array<number> = [],\n    expectedType: ?Type,\n    scope: Scope = new
Scope(),\n    errors: Array<ParsingError> = []\n  ) {\n    this.registry = registry;\n    this.path = path;\n
this.key = path.map(part => `_${part}`).join("");\n    this.scope = scope;\n    this.errors = errors;\n
this.expectedType = expectedType;\n  }\n\n  /**\n   * @param expr the JSON expression to parse\n   * @param
index the optional argument index if this expression is an argument of a parent expression that's being parsed\n   *
@param options\n   * @param options.omitTypeAnnotations set true to omit inferred type annotations. Caller
beware: with this option set, the parsed expression's type will NOT satisfy `expectedType` if it would normally be
wrapped in an inferred annotation.\n   * @private\n   */\n  parse(\n    expr: mixed,\n    index?: number,\n
expectedType?: ?Type,\n    bindings?: Array<string, Expression>,\n    options: {typeAnnotation?: 'assert' |
'coerce' | 'omit'} = {})\n  ): ?Expression {\n    if (index) {\n      return this.concat(index, expectedType,
bindings)._parse(expr, options);\n    }\n    return this._parse(expr, options);\n  }\n\n  _parse(expr: mixed,
options: {typeAnnotation?: 'assert' | 'coerce' | 'omit'}): ?Expression {\n    if (expr === null || typeof expr ===
'string' || typeof expr === 'boolean' || typeof expr === 'number') {\n      expr = [\"literal\", expr];\n    }\n\n
function annotate(parsed, type, typeAnnotation: 'assert' | 'coerce' | 'omit') {\n      if (typeAnnotation === 'assert')
{\n        return new Assertion(type, [parsed]);\n      } else if (typeAnnotation === 'coerce') {\n
return new Coercion(type, [parsed]);\n      } else {\n        return parsed;\n      }\n    }\n\n    if
(Array.isArray(expr)) {\n      if (expr.length === 0) {\n        return this.error(`Expected an array with at least
one element. If you wanted a literal array, use [\"literal\", []].`);\n      }\n      const op = expr[0];\n      if
(typeof op !== 'string') {\n        this.error(`Expression name must be a string, but found ${typeof op} instead. If

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

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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';\n\nimport type {Expression} from './expression';\n\nimport type ParsingContext from
'./parsing_context';\n\nimport type EvaluationContext from './evaluation_context';\n\nimport type {Type} from
'./types';\n\nclass 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\n            serialized.push(this.outputs[i].serialize());\n        }\n        return serialized;\n    }\n}\n\nexport default Step;\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)
}

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

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

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

* Returns a ratio that can be used to interpolate between exponential function *
stops. * How it works: Two consecutive stop values define a (scaled and shifted) exponential function  $f(x) = a * base^x + b$ , where `base` is the user-specified base, * and `a` and `b` are constants affording sufficient degrees of freedom to fit * the function to the given stops. * Here's a bit of algebra that lets us compute `f(x)` directly from the stop * values without explicitly solving for `a` and `b`: * First stop value:  $f(x_0) = y_0 = a * base^{x_0} + b$  * Second stop value:  $f(x_1) = y_1 = a * base^{x_1} + b$  *  $\Rightarrow y_1 - y_0 = a(base^{x_1} - base^{x_0})$  *  $\Rightarrow a = (y_1 - y_0) / (base^{x_1} - base^{x_0})$  * Desired value:  $f(x) = y = a * base^x + b$  *  $\Rightarrow f(x) = y_0 + a * (base^x - base^{x_0})$  * From the above, we can replace the `a` in  $a * (base^x - base^{x_0})$  and do a * little algebra: *  $a * (base^x - base^{x_0}) = (y_1 - y_0) / (base^{x_1} - base^{x_0}) * (base^x - base^{x_0})$  *  $= (y_1 - y_0) * (base^x - base^{x_0}) / (base^{x_1} - base^{x_0})$  * If we let  $(base^x - base^{x_0}) / (base^{x_1} - base^{x_0})$ , then we have *  $f(x) = y_0 + (y_1 - y_0) * ratio$ . In other words, `ratio` may be treated as * an interpolation factor between the two stops' output values. * (Note: a slightly different form for `ratio`,  $(base^{(x-x_0)} - 1) / (base^{(x_1-x_0)} - 1)$ , is equivalent, but requires fewer * expensive `Math.pow()` operations.) * @private * ^function exponentialInterpolation(input, base, lowerValue, upperValue) {
    const difference = upperValue - lowerValue;
    const progress = input - lowerValue;
    if (difference === 0) {
        return 0;
    } else if (base === 1) {
        return progress / difference;
    } else {
        return (Math.pow(base, progress) - 1) / (Math.pow(base, difference) - 1);
    }
}

export default Interpolate;

@flow
import assert from 'assert';
import {checkSubtype, ValueType} from './types';
import ResolvedImage from './types/resolved_image';
import type {Expression} from './expression';
import type ParsingContext from './parsing_context';
import type EvaluationContext from './evaluation_context';
import type {Type} from './types';

class Coalesce implements Expression {
    type: Type;
    args: Array<Expression>;
    constructor(type: Type, args: Array<Expression>) {
        this.type = type;
        this.args = args;
    }

    static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {
        if (args.length < 2) {
            return context.error("Expected at least one argument.");
        }
        let outputType: Type = (null: any);
        const expectedType = context.expectedType;
        if (expectedType && expectedType.kind !== 'value') {
            outputType = expectedType;
        }
        const parsedArgs = [];
        for (const arg of args.slice(1)) {
            const parsed = context.parse(arg, 1 + parsedArgs.length, outputType, undefined, {typeAnnotation: 'omit'});
            if (!parsed) return null;
            outputType = outputType || parsed.type;
            parsedArgs.push(parsed);
        }
        assert(outputType);

        // Above, we parse arguments without inferred type annotation so that // they don't produce a runtime error for `null` input, which would // preempt the desired null-coalescing behavior. // Thus, if any of our arguments would have needed an annotation, we // need to wrap the enclosing coalesce expression with it instead.
        const needsAnnotation = expectedType && parsedArgs.some(arg => checkSubtype(expectedType, arg.type));
        return needsAnnotation ? new Coalesce(ValueType, parsedArgs) : new Coalesce((outputType: any), parsedArgs);
    }

    evaluate(ctx: EvaluationContext) {
        let result = null;
        let argCount = 0;
        let requestedImageName;
        for (const arg of this.args) {
            argCount++;
            result = arg.evaluate(ctx);
            // we need to keep track of the first requested image in a coalesce statement
            // if coalesce can't find a valid image, we return the first image name so styleimagemissing can fire
            if (result && result instanceof ResolvedImage && !result.available) {
                if (!requestedImageName) {
                    requestedImageName = result.name;
                }
                result = null;
            }
            if (argCount === this.args.length) {
                result = requestedImageName;
            }
        }
        if (result !== null) break;
    }
    return result;
}

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

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

serialize() {
    const serialized = ["coalesce"];
    this.eachChild(child => {
        serialized.push(child.serialize());
    });
    return serialized;
}
}

export default Coalesce;

```

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@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
if (typeof name !== 'string') {\n        return context.error(`Expected string, but found ${typeof name}
instead.`); i);\n      }\n      if (/^[a-zA-Z0-9_]/.test(name)) {\n        return context.error(`Variable names
must contain only alphanumeric characters or '_'`); i);\n      }\n      const value = context.parse(args[i + 1], i
+ 1);\n      if (!value) return null;\n      bindings.push([name, value]);\n    }\n\n    const result =
context.parse(args[args.length - 1], args.length - 1, context.expectedType, bindings);\n    if (!result) return
null;\n\n    return new Let(bindings, result);\n  }\n\n  outputDefined() {\n    return
this.result.outputDefined();\n  }\n\n  serialize() {\n    const serialized = [\"let\"];\n    for (const [name, expr]
of this.bindings) {\n      serialized.push(name, expr.serialize());\n    }\n
serialized.push(this.result.serialize());\n    return serialized;\n  }\n}\n\nexport default Let;\n\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    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\n\"// @flow\n\nimport
{ValueType, BooleanType, toString} from './types';\n\nimport RuntimeError from './runtime_error';\nimport
{typeof} from './values';\n\nimport type {Expression} from './expression';\nimport type ParsingContext from
 './parsing_context';\nimport type EvaluationContext from './evaluation_context';\nimport type {Type} from
 './types';\nimport type {Value} from './values';\n\nfunction isComparableType(type: Type) {\n  return type.kind
=== 'boolean' ||\n    type.kind === 'string' ||\n    type.kind === 'number' ||\n    type.kind === 'null' ||\n
type.kind === 'value';\n}\n\nfunction isComparableRuntimeValue(needle: boolean | string | number | null) {\n
return typeof needle === 'boolean' ||\n    typeof needle === 'string' ||\n    typeof needle ===
'number';\n}\n\nfunction isSearchableRuntimeValue(haystack: Array<Value> | string) {\n  return
Array.isArray(haystack) ||\n    typeof haystack === 'string';\n}\n\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

```



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

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eachChild(fn: (_: Expression) => void) {
    fn(this.input);
    this.outputs.forEach(fn);
    fn(this.else);
}
outputDefined(): boolean {
    return this.outputs.every(out =>
        out.outputDefined() && this.else.outputDefined());
}
serialize(): Array<mixed> {
    const serialized = ["match"];
    // Sort so serialization has an arbitrary defined order, even
    // though
    // branch order doesn't affect evaluation
    const sortedLabels = Object.keys(this.cases).sort();
    // Group branches by unique match expression to support condensed
    // serializations of the form [case1,
    case2, ...] -> matchExpression
    const groupedByOutput: Array<[number, Array<number | string>]> = [];
    const outputLookup: {[index: number]: number} = {};
    // lookup index into groupedByOutput for a given output
    // expression
    for (const label of sortedLabels) {
        const outputIndex = outputLookup[this.cases[label]];
        if (outputIndex === undefined) {
            // First time seeing this output, add it to the end of the grouped
            // list
            outputLookup[this.cases[label]] = groupedByOutput.length;
            groupedByOutput.push([this.cases[label], [label]]);
        } else {
            // We've seen this expression before,
            // add the label to that output's group
            groupedByOutput[outputIndex][1].push(label);
        }
    }
    const coerceLabel = (label) => this.inputType.kind === 'number' ? Number(label) : label;
    for (const [outputIndex, labels] of groupedByOutput) {
        if (labels.length === 1) {
            // Only a single label
            // matches this output expression
            serialized.push(coerceLabel(labels[0]));
        } else {
            //
            // Array of literal labels pointing to this output expression
            serialized.push(labels.map(coerceLabel));
        }
    }
    serialized.push(this.outputs[outputIndex].serialize());
}
serialized.push(this.else.serialize());
return serialized;
}
}
export default Match;
"""
@flow
import assert from 'assert';
import { BooleanType } from './types';
import type { Expression } from
'./expression';
import type ParsingContext from './parsing_context';
import type EvaluationContext from
'./evaluation_context';
import type { Type } from './types';
nntype Branches = Array<[Expression,
Expression]>;
nnclass Case implements Expression {
    type: Type;
    branches: Branches;
    else:
Expression;
    constructor(type: Type, branches: Branches, else: Expression) {
        this.type = type;
        this.branches = branches;
        this.else = else;
    }
    static parse(args: $ReadOnlyArray<mixed>,
context: ParsingContext) {
        if (args.length < 4)
            return context.error('Expected at least 3 arguments,
but found only ${args.length - 1}.');
        if (args.length % 2 !== 0)
            return context.error('Expected an odd
number of arguments.');
```

```

ordering operator\n    return type.kind === 'string' ||\n        type.kind === 'number' ||\n        type.kind ===
'value';\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:
$ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n        if (args.length !== 3 && args.length
!== 4)\n            return context.error(`Expected two or three arguments.`);\n\n        const op:
ComparisonOperator = (args[0]: any);\n        let lhs = context.parse(args[1], 1, ValueType);\n        if (!lhs)
return null;\n        if (!isComparableType(op, lhs.type)) {\n            return context.concat(1).error(`"${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            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());

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});\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\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  ):\n  Intl$NumberFormat;\n\n  static (\n    locales?: string | string[],\n    options?: NumberFormatOptions\n  ):\n  Intl$NumberFormat;\n\n  format(a: number): string;\n\n  resolvedOptions(): any;\n\n}\n\ntype NumberFormatOptions = {\n  style?: 'decimal' | 'currency' | 'percent';\n  currency?: null | string;\n  minimumFractionDigits?: null | string;\n  maximumFractionDigits?: null | string;\n};\n\nexport default class NumberFormat implements Expression {\n  type: Type;\n  number: Expression;\n  locale: Expression | null; // BCP 47 language tag\n  currency: Expression | null; // ISO 4217 currency code, required if style=currency\n  minFractionDigits: Expression | null; // Default 0\n  maxFractionDigits: Expression | null; // Default 3\n\n  constructor(number: Expression,\n    locale: Expression | null,\n    currency: Expression | null,\n    minFractionDigits: Expression | null,\n    maxFractionDigits: Expression | null) {\n    this.type = StringType;\n    this.number = number;\n    this.locale = locale;\n    this.currency = currency;\n    this.minFractionDigits = minFractionDigits;\n    this.maxFractionDigits = maxFractionDigits;\n  }\n\n  static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n    if (args.length !== 3)\n      return context.error(`Expected two arguments.`);\n\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';\nimport {typeOf} from './values';\nimport RuntimeError from './runtime_error';\nimport type {Expression} from './expression';\nimport type ParsingContext from './parsing_context';\nimport type EvaluationContext from

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

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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),\n
obj.evaluate(ctx))\n
    ],\n
    ],\n
'feature-state': [\n
    ValueType,\n
    [StringType],\n
    (ctx,\n
[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
    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,\n
[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,\n
v]) => ctx.properties()[k] === (v: any).value\n
],\n
'filter-id===': [\n
    BooleanType,\n
    [ValueType],\n
    (ctx, [v]) => ctx.id() === (v: any).value\n
],\n
'filter-type===': [\n
    BooleanType,\n
    [StringType],\n
    (ctx, [v]) => ctx.geometryType() === (v: any).value\n
],\n
'filter-<': [\n
    BooleanType,\n
    [StringType, ValueType],\n
    (ctx, [k, v]) => {\n
        const a = ctx.properties()[k].value;\n
        const b = (v: any).value;\n
        return typeof a === typeof b && a < b;\n
    }\n
],\n
'filter-id-<': [\n
    BooleanType,\n
    [ValueType],\n
    (ctx, [v]) => {\n
        const a = ctx.id();\n
        const b = (v:\n
any).value;\n
        return typeof a === typeof b && a < b;\n
    }\n
],\n
'filter->': [\n
    BooleanType,\n

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[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    'any': {\n        type: BooleanType,\n        overloads: [\n            [\n                [BooleanType, BooleanType],\n                (ctx, [a, b]) => a.evaluate(ctx) || b.evaluate(ctx)\n            ],\n            [\n                varargs(BooleanType),\n                (ctx, args) => {\n                    for (const arg of args) {\n                        if (arg.evaluate(ctx))\n                            return true;\n                    }\n                    return false;\n                }\n            ]\n        ]\n    },\n    '!': [\n        BooleanType,\n        [BooleanType],\n        (ctx, [b]) => !b.evaluate(ctx)\n    ],\n    'is-supported-script': [\n        BooleanType,\n        [StringType],\n        // At parse time this will always return true, so we need to exclude this expression with isGlobalPropertyConstant\n        (ctx, [s]) => {\n            const isSupportedScript = ctx.globals && ctx.globals.isSupportedScript;\n            if (isSupportedScript) {\n                return isSupportedScript(s.evaluate(ctx));\n            }\n            return true;\n        }\n    ],\n    'uppercase': [\n        StringType,\n        [StringType],\n        (ctx, [s]) => s.evaluate(ctx).toUpperCase()\n    ],\n    'downcase': [\n        StringType,\n        [StringType],\n        (ctx, [s]) => s.evaluate(ctx).toLowerCase()\n    ],\n    'concat': [\n        StringType,\n        varargs(ValueType),\n        (ctx, args) => args.map(arg => valueToString(arg.evaluate(ctx))).join("")\n    ],\n    'resolved-locale': [\n        StringType,\n        [CollatorType],\n        (ctx, [collator]) => collator.evaluate(ctx).resolvedLocale()\n    ]\n});\n\nexport default expressions;\n\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 */\n\n@private\n\nexport type Result<T, E> =\n    | {\n        result: 'success',\n        value: T\n    }\n    | {\n        result: 'error',\n        value: E\n    };\n\nexport function success<T, E>(value: T): Result<T, E> {\n    return {\n        result: 'success',\n        value\n    };\n}\n\nexport function error<T, E>(value: E): Result<T, E> {\n    return {\n        result: 'error',\n        value\n    };\n}\n\n// @flow\n\nimport type {\n    StylePropertySpecification\n} 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 &&

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

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

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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.');

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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,
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

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(!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\" expression (collectively referred to as a \"curve\").
The curve may be wrapped in one or more \"let\" or \"coalesce\" expressions.\nfunction
findZoomCurve(expression: Expression): Step | Interpolate | ParsingError | null {\n    let result = null;\n    if
(expression instanceof Let) {\n        result = findZoomCurve(expression.result);\n    }\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        }\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        }\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,

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FormattedType, ResolvedImageType, array} from './types';\n\nfunction getExpectedType(spec:
StylePropertySpecification): Type {\n  const types = {\n    color: ColorType,\n    string: StringType,\n    number: NumberType,\n    enum: StringType,\n    boolean: BooleanType,\n    formatted: FormattedType,\n    resolvedImage: ResolvedImageType\n  };\n  if (spec.type === 'array') {\n    return array(types[spec.value] ||
ValueType, spec.length);\n  }\n  return types[spec.type];\n}\n\nfunction getDefaultType(spec:
StylePropertySpecification): Value {\n  if (spec.type === 'color' && isFunction(spec.default)) {\n    // Special
case for heatmap-color: it uses the 'default:' to define a\n    // default color ramp, but createExpression expects a
simple value to fall\n    // back to in case of runtime errors\n    return new Color(0, 0, 0, 0);\n  } else if
(spec.type === 'color') {\n    return Color.parse(spec.default) || null;\n  } else if (spec.default === undefined) {\n
return null;\n  } else {\n    return spec.default;\n  }\n}\n\n"/ @flow\n\nimport assert from 'assert';\nimport
type {StylePropertySpecification} from './style-spec';\n\nexport default convertFunction;\n\nfunction
convertLiteral(value) {\n  return typeof value === 'object' ? ['literal', value] : value;\n}\n\nfunction
convertFunction(parameters: any, propertySpec: StylePropertySpecification) {\n  let stops = parameters.stops;\n
if (!stops) {\n    // identity function\n    return convertIdentityFunction(parameters, propertySpec);\n  }\n\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    }; featureFunctionStops[zoom] = [];\n
zoomStops.push(zoom);\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

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

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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}: ${err.message}`).join(', '));\n }\n\n const needGeometry = Array.isArray(filter) && filter.length !== 0 && filter[0] === 'within';\n return {filter: (globalProperties: GlobalProperties, feature: Feature, canonical?: CanonicalTileID) => compiled.value.evaluate(globalProperties, feature, {}, canonical),\n needGeometry};\n }\n}\n\n// Comparison function to sort numbers and strings\nfunction compare(a, b) {\n return a < b ? -1 : a > b ? 1 : 0;\n}\n\nfunction convertFilter(filter: ?Array<any>): mixed {\n if (!filter) return true;\n\n const op = filter[0];\n\n if (filter.length <= 1) return (op !== 'any');\n\n const converted =\n\n op === '=' ?\n convertComparisonOp(filter[1], filter[2], '=') :\n\n op === '!=' ?\n convertNegation(convertComparisonOp(filter[1], filter[2], '=')) :\n\n op === '<' ||\n op === '>' ||\n op === '<=' ||\n op === '>=' ?\n convertComparisonOp(filter[1], filter[2], op) :\n\n op === 'any' ?\n convertDisjunctionOp(filter.slice(1)) :\n\n op === 'all' ?\n ['all'].concat(filter.slice(1).map(convertFilter)) :\n\n op === 'none' ?\n ['all'].concat(filter.slice(1).map(convertFilter).map(convertNegation)) :\n\n op === 'in' ?\n convertInOp(filter[1], filter.slice(2)) :\n\n op === 'in' ?\n convertNegation(convertInOp(filter[1], filter.slice(2))) :\n\n op === 'has' ?\n convertHasOp(filter[1]) :\n\n op === 'has' ?\n convertNegation(convertHasOp(filter[1])) :\n\n true;\n\n return converted;\n }\n}\n\nfunction convertComparisonOp(property: string, value: any, op: string) {\n switch (property) {\n case '$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}\n\nfunction convertInOp(property: string, values: Array<any>) {\n if (values.length === 0) {\n return false;\n }\n\n switch (property) {\n case '$type':\n return ['filter-type-in', ['literal', values]];\n case '$id':\n return ['filter-id-in', ['literal', values]];\n default:\n if (values.length > 200 && !values.some(v => typeof v !== typeof values[0])) {\n return ['filter-in-large', property, ['literal', values.sort(compare)]];\n }\n\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}\n\nfunction convertNegation(filter: mixed) {\n return ['!', filter];\n }\n}\n\n/** @flow\nimport {isExpressionFilter} from './index';\nimport type {FilterSpecification} from '../types';\n\nexport type ExpectedTypes = {[_: string]: 'string' | 'number' | 'boolean'};\n\n/**\n * Convert the given legacy filter to (the JSON representation of) an equivalent expression\n *\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 any feature properties referenced in expectedTypes.\n *\n * These expected types are needed in order to construct preflight type checks needed for handling 'any' filters. A preflight type check is necessary in order to mimic legacy filters' semantics around expected type mismatches.\n *\n * For example, consider the legacy filter:\n *\n * ["any", ["all", [{">": "y"}, {"y": 0}], [{">": "y"}, {"y": 0}], [{">": "x"}, {"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 [{">": "get", "y": 0} would

```

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

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

// Given a set of feature properties and an expected type for each one, construct
// a boolean expression that tests whether each property has the right type.
// E.g.: for {name: 'string', population: 'number'}, return [
//   'all', ['==', ['typeof', 'get', 'name'], 'string'],
//   ['==', ['typeof', 'get', 'population'], 'number']]
function runtimeTypeChecks(expectedTypes: ExpectedTypes) {
  const conditions = [];
  for (const property in expectedTypes) {
    const get = property === '$id' ? ['id'] : ['get', property];
    conditions.push(['==', ['typeof', get], expectedTypes[property]]);
  }
  if (conditions.length === 0) return true;
  if (conditions.length === 1) return conditions[0];
  return ['all'].concat(conditions);
}

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

function convertInOp(property: string, values: Array<any>, negate = false) {
  if (values.length === 0) return negate;
  let get;
  if (property === '$type') {
    get = ['geometry-type'];
  } else if (property === '$id') {
    get = ['id'];
  } else {
    get = ['get', property];
  }
  // Determine if the list of values to be searched is homogeneously typed.
  // If so (and if the type is string or number), then we can use a [match, input, [...values], true, false] construction rather than a bunch of '==' tests.
  let uniformTypes = true;
  const type = typeof values[0];
  for (const value of values) {
    if (typeof value !== type) {
      uniformTypes = false;
      break;
    }
  }
  if (uniformTypes &&
```



```

(type === 'string' || type === 'number')) {\n    // Match expressions must have unique values.\n    const
uniqueValues = values.sort().filter((v, i) => i === 0 || values[i - 1] !== v);\n    return ['match', get, uniqueValues,
!negate, negate];\n  }\n\n  return [ negate ? 'all' : 'any' ].concat(\n    values.map(v => [negate ? '!=' : '==', get,
v])\n  );\n}\n\nfunction convertHasOp(property: string) {\n  if (property === '$type') {\n    return true;\n  }
else if (property === '$id') {\n    return ['!=', 'id', null];\n  } else {\n    return ['has', property];\n  }\n}\n\n", "//
@flow\n\nimport {\n  eachLayer,\n  eachProperty\n} from './visit';\nimport {isExpression} from
'./expression';\nimport convertFunction, {convertTokenString} from './function/convert';\nimport convertFilter
from './feature_filter/convert';\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\n", "\nexport default function (style) {\n  const styleIDs = [];\n  const sourceIDs = [];\n  const
compositedSourceLayers = [];\n\n  for (const id in style.sources) {\n    const source = style.sources[id];\n\n
if (source.type !== 'vector')\n    continue;\n\n    const match = /^mapbox:\\\\(\\(.*\\).exec(source.url));\n
if (!match)\n    continue;\n\n    styleIDs.push(id);\n    sourceIDs.push(match[1]);\n  }\n\n  if
(styleIDs.length < 2)\n    return style;\n\n  styleIDs.forEach((id) => {\n    delete style.sources[id];\n  });\n\n
const compositeID = sourceIDs.join(',');\n  style.sources[compositeID] = {\n    \"type\": \"vector\", \n
\"url\": `mapbox://${compositeID}`\n  }; \n\n  style.layers.forEach((layer) => {\n    if
(styleIDs.indexOf(layer.source) >= 0) {\n      layer.source = compositeID;\n\n      if ('source-layer' in layer)
{\n        if (compositedSourceLayers.indexOf(layer['source-layer']) >= 0) {\n          throw new
Error('Conflicting source layer names');\n        } else {\n
compositedSourceLayers.push(layer['source-layer']);\n        }\n      }\n    }\n  });\n\n  return
style;\n}\n\n", "\nexport default ['type', 'source', 'source-layer', 'minzoom', 'maxzoom', 'filter', 'layout'];\n\n", "\nimport
refProperties from './util/ref_properties';\n\nfunction deref(layer, parent) {\n  const result = {};\n\n  for (const k in
layer) {\n    if (k !== 'ref') {\n      result[k] = layer[k];\n    }\n  }\n\n  refProperties.forEach((k) => {\n
if (k in parent) {\n      result[k] = parent[k];\n    }\n  });\n\n  return result;\n}\n\nexport default
derefLayers;\n\n/**\n * Given an array of layers, some of which may contain `ref` properties\n * whose value is the
`id` of another property, return a new array where\n * such layers have been augmented with the 'type', 'source', etc.
properties\n * from the parent layer, and the `ref` property has been removed.\n */\n * The input is not modified. The
output may contain references to portions\n * of the input.\n */\n * @private\n * @param {Array<Layer>} layers\n *
@returns {Array<Layer>}\n */\nfunction derefLayers(layers) {\n  layers = layers.slice();\n\n  const map =
Object.create(null);\n  for (let i = 0; i < layers.length; i++) {\n    map[layers[i].id] = layers[i];\n  }\n\n  for (let i
= 0; i < layers.length; i++) {\n    if ('ref' in layers[i]) {\n      layers[i] = deref(layers[i], map[layers[i].ref]);\n
}\n  }\n\n  return layers;\n}\n\n", "\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:

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[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
}\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}\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

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

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(!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    // 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  } catch (e) {\n    // fall back to setStyle\n    console.warn('Unable to compute style diff:', e);\n    commands = [{command: operations.setStyle, args: [after]}];\n  }\n  return commands;\n}\n\nexport default diffStyles;\nexport {operations};\n"/ @flow\n\n// Note: Do not inherit from Error. It breaks when transpiling to ES5.\nexport default class ValidationError {\n  message: string;\n  identifier: ?string;\n  line: ?number;\n\n  constructor(key: ?string, value: ?{ __line__: number }, message: string, identifier: ?string) {\n    this.message = (key ? `${key}: ` : '') + message;\n    if (identifier) this.identifier = identifier;\n\n    if (value !== null && value !== undefined && value.__line__) {\n      this.line = value.__line__;\n    }\n  }\n}\n\n// Note: Do not inherit from Error. It breaks when transpiling to ES5.\nexport default class ParsingError {\n  message: string;\n  error: Error;\n  line: number;\n\n  constructor(error: Error) {\n    this.error = error;\n    this.message = error.message;\n    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';\nexport default function validateConstants(options) {\n  const key = options.key;\n  const constants = options.value;\n\n  if (constants) {\n    return [new ValidationError(key, constants, 'constants have been deprecated as of v8')];\n  } else {\n    return [];\n  }\n}\n\n// 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';\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  const type = getType(object);\n  if (type !== 'object') {\n    return

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[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\n  for (let i = 0; i < array.length; i++) {\n    errors = errors.concat(validateArrayElement({\n      array,\n      arrayIndex: i,\n      value: array[i],\n      valueSpec: arrayElementSpec,\n      style,\n      styleSpec,\n      key: `${key}[${i}]\n    }));\n  }\n\n  return errors;\n}\n", "\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

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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
ValidationErrorMessage(options.key, options.value, 'missing required property \''property'\');\n };\n\n if (functionType
!== 'identity' && !options.value.stops) {\n    errors.push(new ValidationErrorMessage(options.key, options.value, 'missing
required property \''stops'\');\n };\n\n if (functionType === 'exponential' && options.valueSpec.expression &&
!supportsInterpolation(options.valueSpec)) {\n    errors.push(new ValidationErrorMessage(options.key, options.value,
'exponential functions not supported');\n };\n\n if (options.styleSpec.$version >= 8) {\n    if
(isPropertyFunction && !supportsPropertyExpression(options.valueSpec)) {\n        errors.push(new
ValidationErrorMessage(options.key, options.value, 'property functions not supported');\n    } else if (isZoomFunction
&& !supportsZoomExpression(options.valueSpec)) {\n        errors.push(new ValidationErrorMessage(options.key,
options.value, 'zoom functions not supported');\n    };\n };\n\n if ((functionType === 'categorical' ||
isZoomAndPropertyFunction) && options.value.property === undefined) {\n    errors.push(new
ValidationErrorMessage(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
ValidationErrorMessage(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 ValidationErrorMessage(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 ValidationErrorMessage(key, value, `array expected, ${getType(value)} found`)];\n    };\n\n    if
(value.length !== 2) {\n        return [new ValidationErrorMessage(key, value, `array length 2 expected, length
${value.length} found`)];\n    };\n\n    if (isZoomAndPropertyFunction) {\n        if (getType(value[0]) !==
'object') {\n            return [new ValidationErrorMessage(key, value, `object expected, ${getType(value[0])} found`)];\n
        };\n        if (value[0].zoom === undefined) {\n            return [new ValidationErrorMessage(key, value, 'object stop key
must have zoom`)];\n        };\n        if (value[0].value === undefined) {\n            return [new
ValidationErrorMessage(key, value, 'object stop key must have value`)];\n        };\n        if (previousStopDomainZoom
&& previousStopDomainZoom > unbundle(value[0].zoom)) {\n            return [new ValidationErrorMessage(key,
value[0].zoom, 'stop zoom values must appear in ascending order`)];\n        };\n        if (unbundle(value[0].zoom)
!== previousStopDomainZoom) {\n            previousStopDomainZoom = unbundle(value[0].zoom);\n        };\n        previousStopDomainValue = undefined;\n        stopDomainValues = { };\n        errors =
errors.concat(validateObject({\n    key: `_${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: `_${key}[0]`,\n    value: value[0],\n
valueSpec: { },\n    style: options.style,\n    styleSpec: options.styleSpec\n }, value));\n
}\n\n    if (isExpression(deepUnbundle(value[1]))) {\n        return errors.concat([new
ValidationErrorMessage(`_${key}[1]`, value[1], 'expressions are not allowed in function stops.`)];\n    };\n\n    return
errors.concat(validate({\n    key: `_${key}[1]`,\n    value: value[1],\n    valueSpec:
functionValueSpec,\n    style: options.style,\n    styleSpec: options.styleSpec\n }));\n };\n\n
function validateStopDomainValue(options, stop) {\n    const type = getType(options.value);\n    const value =
unbundle(options.value);\n\n    const reportValue = options.value !== null ? options.value : stop;\n\n    if
(!stopKeyType) {\n        stopKeyType = type;\n    } else if (type !== stopKeyType) {\n        return [new
ValidationErrorMessage(options.key, reportValue, `_${type} stop domain type must match previous stop domain type

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

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

```



```

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

```

```

js/issues/5772.\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\n              validateLayoutProperty(extend({layerType: type}, options));\n            }\n          });\n        },\n        paint(options) {\n          return validateObject({\n            layer,\n            key: options.key,\n            value: options.value,\n            style: options.style,\n            styleSpec: options.styleSpec,\n            objectElementValidators: {\n              *(options) {\n                return\n                validatePaintProperty(extend({layerType: type}, options));\n              }\n            });\n          }\n        });\n      }\n    });\n\n    return errors;\n  }\n}\n", "\nimport getType from './util/get_type';\nimport ValidationError from './error/validation_error';\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\n    ValidationError(key, value, `string expected, ${type} found`)];\n  }\n\n  return [];\n}\n", "\nimport ValidationError from './error/validation_error';\nimport {unbundle} from './util/unbundle_jsonlint';\nimport validateObject from './validate_object';\nimport validateEnum from './validate_enum';\nimport validateExpression from './validate_expression';\nimport validateString from './validate_string';\nimport getType from './util/get_type';\n\nconst objectElementValidators = {\n  promoteId: validatePromoteId;\n};\n\nexport default\nfunction validateSource(options) {\n  const value = options.value;\n  const key = options.key;\n  const styleSpec\n= options.styleSpec;\n  const style = options.style;\n\n  if (!value.type) {\n    return [new ValidationError(key,\nvalue, `"type" is required`)];\n  }\n\n  const type = unbundle(value.type);\n  let errors;\n\n  switch (type) {\n    case 'vector':\n    case 'raster':\n    case 'raster-dem':\n      errors = validateObject({\n        key,\n        value,\n        valueSpec: styleSpec[`source_${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\n=== 'string' ? [operator, ['accumulated'], ['get', prop]] : operator;\n          errors.push(...validateExpression({\n            key: `${key}.${prop}.map`,\n            value: mapExpr,\n            expressionContext: 'cluster-\nmap'\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:\nstyleSpec.source_video,\n        style,\n        styleSpec\n      });\n\n    case 'image':\n      return\nvalidateObject({\n        key,\n        value,\n        valueSpec: styleSpec.source_image,\n        style,\n        styleSpec\n      });\n\n    case 'canvas':\n      return [new ValidationError(key, null, `Please use runtime APIs to add\ncanvas sources, rather than including them in stylesheets.`, 'source.canvas')];\n\n    default:\n      return\nvalidateEnum({\n        key: `${key}.type`,\n        value: value.type,\n        valueSpec: {values: ['vector',\n'raster', 'raster-dem', 'geojson', 'video', 'image']},\n        style,\n        styleSpec\n      });\n  }\n}\n\nfunction\nvalidatePromoteId({key, value}) {\n  if (getType(value) === 'string') {\n    return validateString({key, value});\n  }\n  else {\n    const errors = [];\n    for (const prop in value) {\n      errors.push(...validateString({key:\n`${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\nfunction validateLight(options) {\n  const light = options.value;\n  const styleSpec = options.styleSpec;\n  const\nlightSpec = styleSpec.light;\n  const style = options.style;\n\n  let errors = [];\n\n  const rootType =\ngetType(light);\n  if (light === undefined) {\n    return errors;\n  }\n  else if (rootType !== 'object') {\n    errors\n= errors.concat([new ValidationError('light', light, `object expected, ${rootType} found`)]);\n    return errors;\n  }\n\n  for (const key in light) {\n    const transitionMatch = key.match(/^(.*)-transition$/);\n    if

```

```

(transitionMatch && lightSpec[transitionMatch[1]] && lightSpec[transitionMatch[1]].transition) {\n      errors =
errors.concat(validate({\n          key,\n          value: light[key],\n          valueSpec: styleSpec.transition,\n          style,\n          styleSpec\n      }));\n    } else if (lightSpec[key]) {\n      errors =
errors.concat(validate({\n          key,\n          value: light[key],\n          valueSpec: lightSpec[key],\n          style,\n          styleSpec\n      }));\n    } else {\n      errors = errors.concat([new ValidationError(key,
light[key], `unknown property "${key}"`));\n    }\n  }\n  \n  return errors;\n}\n\n", "// @flow\nimport
validateExpression from './validate_expression';\nimport validateString from './validate_string';\n\nexport default
function validateFormatted(options: any) {\n  if (validateString(options).length === 0) {\n    return [];\n  }\n  \n  return validateExpression(options);\n}\n\n", "// @flow\nimport validateExpression from
'./validate_expression';\nimport validateString from './validate_string';\n\nexport default function
validateImage(options: any) {\n  if (validateString(options).length === 0) {\n    return [];\n  }\n  \n  return
validateExpression(options);\n}\n\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// - 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  \n  } else if (valueSpec.expression && isExpression(deepUnbundle(value))) {\n
return validateExpression(options);\n  }\n  \n  } else if (valueSpec.type && VALIDATORS[valueSpec.type]) {\n
return VALIDATORS[valueSpec.type](options);\n  }\n  \n  } else {\n    const valid = validateObject(extend({,
options, {\n      valueSpec: valueSpec.type ? styleSpec[valueSpec.type] : valueSpec\n    }));\n    return
valid;\n  }\n}\n\n", "\nimport ValidationError from './error/validation_error';\nimport validateString from
'./validate_string';\n\nexport default function(options) {\n  const value = options.value;\n  const key =
options.key;\n  \n  const errors = validateString(options);\n  if (errors.length) return errors;\n  \n  if
(value.indexOf('{fontstack}') === -1) {\n    errors.push(new ValidationError(key, value, "\"glyphs\" url must
include a \"{fontstack}\" token")); \n  }\n  \n  if (value.indexOf('{range}') === -1) {\n    errors.push(new
ValidationError(key, value, "\"glyphs\" url must include a \"{range}\" token")); \n  }\n  \n  return
errors;\n}\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, `mapbox-gl-style-spec/lib/validate_style.min`, is designed to produce as small a browserify bundle as possible by omitting unnecessary functionality and legacy style specifications.

`@private`

`@param {Object} style` The style to be validated.

`@param {Object} [styleSpec]` The style specification to validate against. If omitted, the latest style spec is used.

`@returns {Array<ValidationError>}`

`@example`

```

var validate = require('mapbox-gl-style-spec/lib/validate_style.min');
var errors = validate(style);

function validateStyleMin(style, styleSpec = latestStyleSpec) {
  let errors = [];
  errors = errors.concat(validate({
    key: "value: style",
    valueSpec: styleSpec.$root,
    styleSpec,
    style,
    objectElementValidators: {
      glyphs: validateGlyphsURL,
    }
  }));
  if (style.constants) {
    errors = errors.concat(validateConstants({
      key: 'constants',
      value: style.constants,
      style,
      styleSpec
    }));
  }
  return sortErrors(errors);
}

validateStyleMin.source =
wrapCleanErrors(validateSource);
validateStyleMin.light =
wrapCleanErrors(validateLight);
validateStyleMin.layer =
wrapCleanErrors(validateLayer);
validateStyleMin.filter =
wrapCleanErrors(validateFilter);
validateStyleMin.paintProperty =
wrapCleanErrors(validatePaintProperty);
validateStyleMin.layoutProperty =
wrapCleanErrors(validateLayoutProperty);

function sortErrors(errors) {
  return [].concat(errors).sort((a, b) => {
    return a.line - b.line;
  });
}

function wrapCleanErrors(inner) {
  return function(...args) {
    return sortErrors(inner.apply(this, args));
  };
}

export default validateStyleMin;

```

parser generated by jison 0.4.15

Returns a Parser object of the following structure:

```

Parser: {
  yy: {}
}

Parser.prototype: {
  yy: {},
  trace: function(),
  symbols_: {associative list: name ==> number},
  terminals_: {associative list: number ==> name},
  productions_: [...],
  performAction: function
anonymous(yytext, yylen, yylineno, yy, yystate, $$, _$),
  table: [...],
  defaultActions: {...},
  parseError: function(str, hash),
  parse: function(input),
  lexer: {
    EOF: 1,
    parseError: function(str, hash),
    setInput: function(input),
    input: function(),
    unput: function(str),
    more: function(),
    less: function(n),
    pastInput: function(),
    upcomingInput: function(),
    showPosition: function(),
    test_match: function(regex_match_array, rule_index),
    next: function(),
    lex: function(),
    begin: function(condition),
    popState: function(),
    _currentRules: function(),
    topState: function(),
    pushState: function(condition),
    options: {
      ranges: boolean (optional: true ==> token location info will include a .range[] member)
      flex: boolean (optional: true ==> flex-like lexing behaviour where the rules are tested exhaustively to find the longest match)
      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)
    },
    performAction: function(yy, yy_, $avoiding_name_collisions, YY_START),
    rules: [...],
    conditions: {associative list: name ==> set},
  }
}

token location info (@$, _$, etc.): {
  first_line: n,
  last_line: n,
  first_column: n,
  last_column: n,
  range: [start_number, end_number] (where the numbers are indexes into the input string, regular zero-based)
}

the parseError function receives a 'hash' object with these members for lexer and parser errors: {
  text: (matched text)
  token: (the produced terminal token, if any)
  line: (yylineno)
}

while parser (grammar) errors will also provide these members, i.e. parser errors deliver a superset of attributes: {
  loc: (yyloc)
  expected: (string describing the set of expected tokens)
  recoverable: (boolean: TRUE when the parser has a error recovery rule available for this particular error)
}

var parser =
(function() {
  var o=function(k,v,o,l){for(o=o||{ },l=k.length;l--;o[k[l]]=v);return o},$V0=[1,12],$V1=[1,13],$V2=[1,9],$V3=[1,10],$V4=[1,11],$V5=[1,14],$V6=[1,15],$V7=[14,18,22,24],$V8=[1,8,22],$V9=[22,24];
  var 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,"$accept":0,"$end":1},nterminals_:

```

```

{2:"error",4:"STRING",6:"NUMBER",8:"NULL",10:"TRUE",11:"FALSE",14:"EOF",17:"{",18:"}",21
:":",22:"\n",23:"[",24:"]"},\nproductions_
[0,[3,1],[5,1],[7,1],[9,1],[12,2],[13,1],[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]; $$[$0-2].push($$[$0]);\nbreak;\n}\n},\nntable:
[{{3:5,4:$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])],\ndefau
ltActions: {16:[2,6]},\nparseError: function parseError(str, hash) {\n    if (hash.recoverable) {\n
this.trace(str);\n    } else {\n        throw new Error(str);\n    }\n},\nparse: function parse(input) {\n    var self = this,
stack = [0], tstack = [], vstack = [null], lstack = [], table = 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: {} }; 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

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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.yyloc);\n
stack.push(action[1]);\n
symbol =
null;\n
if (!preErrorSymbol) {\n
yylen = lexer.yyleng;\n
yytext = lexer.yytext;\n
yylineno = lexer.yylineno;\n
yyloc = lexer.yylloc;\n
if (recovering > 0) {\n
recovering--;\n
}\n
} else {\n
symbol = preErrorSymbol;\n
preErrorSymbol =
null;\n
}\n
break;\n
case 2:\n
len = this.productions_[action[1]][1];\n
yyval.$ =
vstack[vstack.length - len];\n
yyval._$ = {\n
first_line: lstack[lstack.length - (len || 1)].first_line,\n
last_line: lstack[lstack.length - 1].last_line,\n
first_column: lstack[lstack.length - (len ||
1)].first_column,\n
last_column: lstack[lstack.length - 1].last_column\n
};\n
if (ranges) {\n
yyval._$.range = [\n
lstack[lstack.length - (len || 1)].range[0],\n
lstack[lstack.length -
1].range[1]\n
];\n
}\n
r = this.performAction.apply(yyval, [\n
yytext,\n
yyleng,\n
yylineno,\n
sharedState.yy,\n
action[1],\n
vstack,\n
lstack\n
].concat(args));\n
if (typeof r !== 'undefined') {\n
return r;\n
}\n
if (len) {\n
stack = stack.slice(0, -1 * len * 2);\n
vstack = vstack.slice(0, -1 * len);\n
lstack = lstack.slice(0,
-1 * len);\n
}\n
stack.push(this.productions_[action[1]][0]);\n
vstack.push(yyval.$);\n
lstack.push(yyval._$);\n
newState = table[stack[stack.length - 2]][stack[stack.length - 1]);\n
stack.push(newState);\n
break;\n
case 3:\n
return true;\n
}\n
}\n
return true;\n
};\n\n/*
generated by json-lex 0.3.4 *\n\nvar lexer = (function(){\n\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\n\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\n\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\n\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\n\nmore:function () {\n
this._more = true;\n
return this;\n
},\n\n// When called from action,
signals the lexer that this rule fails to match the input, so the next matching rule (regex) should be tested
instead.\n\nreject:function () {\n
if (this.options.backtrack_lexer) {\n
this._backtrack = true;\n
} else

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{\n      return this.parseError('Lexical error on line ' + (this.yylineno + 1) + '. You can only invoke reject() in the
lexer when the lexer is of the backtracking persuasion (options.backtrack_lexer = true).\\n' + this.showPosition(), {\n
      text: \"\", \n      token: null, \n      line: this.yylineno \n    }); \n    } \n    return this; \n
}, \n \n // retain first n characters of the match \n less: function (n) {\n      this.unput(this.match.slice(n)); \n    }, \n \n //
displays already matched input, i.e. for error messages \n pastInput: 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 \n upcomingInput: 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 \n showPosition: function () {\n      var pre =
this.pastInput(); \n      var c = new Array(pre.length + 1).join('-'); \n      return pre + this.upcomingInput() +
'\\n\\n' + c + '\\n'; \n    }, \n \n // test the lexed token: return FALSE when not a match, otherwise return
token \n test_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      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 \n next: 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
          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

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}
},\n\n// return next match that has a token\nlex:function lex() {\n    var r = this.next();\n    if (r) {\n    return r;\n    } else {\n    return this.lex();\n    }\n},\n\n// activates a new lexer condition state (pushes the
new lexer condition state onto the condition stack)\nbegin:function begin(condition) {\n
this.conditionStack.push(condition);\n },\n\n// pop the previously active lexer condition state off the condition
stack\npopState:function popState() {\n    var n = this.conditionStack.length - 1;\n    if (n > 0) {\n    return
this.conditionStack.pop();\n    } else {\n    return this.conditionStack[0];\n    }\n },\n\n// produce the
lexer rule set which is active for the currently active lexer condition state\n_currentRules:function _currentRules()
{\n    if (this.conditionStack.length && this.conditionStack[this.conditionStack.length - 1]) {\n    return
this.conditions[this.conditionStack[this.conditionStack.length - 1]].rules;\n    } else {\n    return
this.conditions["INITIAL"].rules;\n    }\n },\n\n// return the currently active lexer condition state; when an
index argument is provided it produces the N-th previous condition state, if available\ntopState:function topState(n)
{\n    n = this.conditionStack.length - 1 - Math.abs(n || 0);\n    if (n >= 0) {\n    return
this.conditionStack[n];\n    } else {\n    return "INITIAL";\n    }\n },\n\n// alias for
begin(condition)\npushState:function pushState(condition) {\n    this.begin(condition);\n },\n\n// return the
number of states currently on the stack\nstateStackSize:function stateStackSize() {\n    return
this.conditionStack.length;\n },\n\noptions: {},\n\nperformAction: function
anonymous(yy,yy_,$avoiding_name_collisions,YY_START) {\nvar
YYSTATE=YY_START;\nswitch($avoiding_name_collisions) {\ncase 0:/* skip whitespace */\nbreak;\ncase
1:return 6\nbreak;\ncase 2:yy_.yytext = yy_.yytext.substr(1,yy_.yyleng-2); return 4\nbreak;\ncase 3:return
17\nbreak;\ncase 4:return 18\nbreak;\ncase 5:return 23\nbreak;\ncase 6:return 24\nbreak;\ncase 7:return
22\nbreak;\ncase 8:return 21\nbreak;\ncase 9:return 10\nbreak;\ncase 10:return 11\nbreak;\ncase 11:return
8\nbreak;\ncase 12:return 14\nbreak;\ncase 13:return 'INVALID'\nbreak;\n}\n},\n\nrules: [/\^(?:\\s+)/,\/^(?:(-?([0-9][1-
9][0-9]+))(\.[0-9]+)?([eE][+]?[0-9]+)?\b)/,\/^(?:'(?::\\[[\\|\\]\\\bfnrt]\\\u[a-fA-F0-9]{4})|[\^\\\|\\\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],\n'inclusive':true}}\n});\nreturn
lexer;\n})();\nparser.lexer = lexer;\nfunction Parser () {\n    this.yy = {};\n}\nParser.prototype = parser;\nParser
= Parser;\nreturn new Parser;\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\nreturn
style;\n}\n","import validateStyleMin from './validate_style.min';\nimport {v8} from './style-spec';\nimport
readStyle from './read_style';\n\n/**\n * Validate a Mapbox GL style against the style specification.\n * \n *
@param \n * @alias validate \n * @param {Object|String|Buffer} style The style to be validated. If a `String` \n *
or `Buffer` is provided, the returned errors will contain line numbers.\n * @param {Object} [styleSpec] The style
specification to validate against.\n * If omitted, the spec version is inferred from the stylesheet.\n * @returns
{Array<Validation|ParsingError>}\n * @example \n * var validate = require('mapbox-gl-style-spec').validate;\n *
var style = fs.readFileSync('./style.json', 'utf8');\n * var errors = validate(style);\n * \n\nexport
default function validateStyle(style, styleSpec = v8) {\n    let s = style;\n\n    try {\n    s = readStyle(s);\n    } catch
(e) {\n    return [e];\n    }\n\n    return validateStyleMin(s, styleSpec);\n}\n\nexport const source =
validateStyleMin.source;\nexport const light = validateStyleMin.light;\nexport const layer =
validateStyleMin.layer;\nexport const filter = validateStyleMin.filter;\nexport const paintProperty =
validateStyleMin.paintProperty;\nexport const layoutProperty = validateStyleMin.layoutProperty;\n","//
@flow\nimport validateStyle from './validate_style.min';\nimport {v8} from './style-spec';\nimport readStyle from
'./read_style';\nimport Validation 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

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true;\n  return !!value.match(regex);\n}\n\nfunction getSourceCount(source: Object): number {\n  if (source.url)
{\n    return source.url.split(',').length;\n  } else {\n    return 0;\n  }\n}\n\nfunction getAllowedKeyErrors(obj:
Object, keys: Array<*>, path: ?string): Array<?ValidationError> {\n  const allowed = new Set(keys);\n  const
errors = [];\n  Object.keys(obj).forEach(k => {\n    if (!allowed.has(k)) {\n      const prop = path ?
` ${path}.${k}` : null;\n      errors.push(new ValidationError(prop, obj[k], `Unsupported property ` + ` ${k}`));\n
    }\n  });\n  return errors;\n}\n\nfunction getSourceErrors(source: Object, i: number): Array<?ValidationError>
{\n  const errors = [];\n  /*\n   * Inlined sources are not supported by the Mapbox Styles API, so only\n   *
"type", "url", and "tileSize" properties are valid\n   */\n  const sourceKeys = ['type', 'url', 'tileSize'];\n
errors.push(...getAllowedKeyErrors(source, sourceKeys, 'source'));\n  /*\n   * "source" is required. Valid
examples:\n   * mapbox://mapbox.abcd1234\n   * mapbox://penny.abcd1234\n   *
mapbox://mapbox.abcd1234,penny.abcd1234\n   */\n  const sourceUrlPattern = /^mapbox:\\\\(\\/([^\n]*)$);
\n  if (!isValid(source.url, sourceUrlPattern)) {\n    errors.push(new ValidationError(`sources[${i}]`, source.url, 'Source
url must be a valid Mapbox tileset url'));\n  }\n  return errors;\n}\n\nfunction getSourcesErrors(sources: Object):
Array<?ValidationError> {\n  const errors = [];\n  let count = 0;\n  Object.keys(sources).forEach((s: string, i:
number) => {\n    const sourceErrors = getSourceErrors(sources[s], i);\n    // If source has errors, skip
counting\n    if (!sourceErrors.length) {\n      count = count + getSourceCount(sources[s]);\n    }\n    errors.push(...sourceErrors);\n  });\n  if (count > MAX_SOURCES_IN_STYLE) {\n    errors.push(new
ValidationError('sources', null, `Styles must contain ${MAX_SOURCES_IN_STYLE} or fewer sources`));\n  }\n  return errors;\n}\n\nfunction getRootErrors(style: Object, specKeys: Array<any>): Array<?ValidationError>
{\n  const errors = [];\n  /*\n   * The following keys are optional but fully managed by the Mapbox Styles\n   *
API. Values on stylesheet on POST or PATCH will be ignored: "owner",\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  const allowedKeyErrors = getAIlowedKeyErrors(style, [...specKeys, ...optionalRootProperties]);\n
errors.push(...allowedKeyErrors);\n  if (style.version > SUPPORTED_SPEC_VERSION || style.version <
SUPPORTED_SPEC_VERSION) {\n    errors.push(new ValidationError('version', style.version, `Style version
must be ${SUPPORTED_SPEC_VERSION}`));\n  }\n  /*\n   * "glyphs" is optional. If present, valid
examples:\n   * mapbox://fonts/penny/{fontstack}/{range}.pbf\n   *
mapbox://fonts/mapbox/{fontstack}/{range}.pbf\n   */\n  const glyphUrlPattern =
/^mapbox:\\\\(\\/fonts\\/([^\n]*)\\\/{fontstack}\\\/{range}.pbf$);
\n  if (!isValid(style.glyphs, glyphUrlPattern)) {\n    errors.push(new ValidationError('glyphs', style.glyphs, 'Styles must reference glyphs hosted by Mapbox'));\n  }\n  /*\n   * "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]*)\\\/([^\n]*)\\\/?([^\n]*)?$/);
\n  if (!isValid(style.sprite, spriteUrlPattern)) {\n    errors.push(new ValidationError('sprite', style.sprite, 'Styles must reference sprites hosted by Mapbox'));\n  }\n  /*\n   * "visibility" is optional. If present, valid examples:\n   * "private"\n   * "public"\n   */\n  const visibilityPattern = /^(public|private)$/;
\n  if (!isValid(style.visibility, visibilityPattern)) {\n    errors.push(new ValidationError('visibility', style.visibility, 'Style visibility must be public or private'));\n  }\n  return errors;\n}\n\n/**\n * Validate a Mapbox GL style against the style specification and check for\n *
compatibility with the Mapbox Styles API.\n * @param {Object} style The style to be validated.\n * @returns
{Array<ValidationError>}\n * @example\n * var validateMapboxApiSupported = require('mapbox-gl-style-
spec/lib/validate_style_mapbox_api_supported.js');\n * var errors = validateMapboxApiSupported(style);\n
*/\n\nexport default function validateMapboxApiSupported(style: Object): Array<?ValidationError> {\n  let s =
style;\n  try {\n    s = readStyle(s);\n  } catch (e) {\n    return [e];\n  }\n  let errors = validateStyle(s, v8)\n    .concat(getRootErrors(s, Object.keys(v8.$root)));\n  if (s.sources) {\n    errors =
errors.concat(getSourcesErrors(s.sources));\n  }\n  return errors;\n}\n\n"/ @flow\n\nntype ExpressionType =
'data-driven' | 'cross-faded' | 'cross-faded-data-driven' | 'color-ramp' | 'data-constant' | 'constant';\nntype

```

```

ExpressionParameters = Array<'zoom' | 'feature' | 'feature-state' | 'heatmap-density' | 'line-progress'>;\n\n\ntype
ExpressionSpecification = {\n  interpolated: boolean,\n  parameters: ExpressionParameters\n}\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\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 from './feature_filter';\nimport convertFilter from
 './feature_filter/convert';\nimport Color from './util/color';\nimport {createFunction, isFunction} from
 './function';\nimport convertFunction from './function/convert';\nimport {eachSource, eachLayer, eachProperty}
from './visit';\nimport validate from './validate_style';\nimport validateMapboxApiSupported from
 './validate_mapbox_api_supported';\n\n\nconst expression = {\n  StyleExpression,\n  isExpression,\n  createExpression,\n  createPropertyExpression,\n  normalizePropertyExpression,\n  ZoomConstantExpression,\n  ZoomDependentExpression,\n  StylePropertyFunction\n};\n\n\nconst styleFunction = {\n  convertFunction,\n  createFunction,\n  isFunction\n};\n\n\nconst visit = {eachSource, eachLayer, eachProperty};\n\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\n\nvalidate.parsed = validate;\nvalidate.latest =
validate;\n\n"], "names": ["sortKeysBy", "obj", "reference", "const", "result", "key", "undefined", "format", "style", "space", "$root", "layers", "map", "layer", "stringifyPretty", "indent", "global", "this", "require$$0", "require$$1", "getPropertyReference", "propertyName", "let", "i", "Reference", "layout", "length", "paint", "eachSource", "callback", "k", "sources", "eachLayer", "eachProperty", "options", "inner", "propertyType", "properties", "Object", "keys", "forEach", "path", "id", "value", "set", "x", "eachLayout", "indexOf", "eachPaint", "resolveConstant", "constants", "isFunction", "Array", "isArray", "stops", "renameProperty", "from", "to", "version", "source", "type", "url", "coordinates", "coord", "reverse", "property", "stop", "migrateFontstackURL", "input", "inputParsed", "URL", "parse", "inputPathnameParts", "pathname", "split", "protocol", "hostname", "glyphs", "migrateFontStack", "font", "splitAndTrim", "string", "s", "trim", "Error", "firstSymbolLayer", "symbolLayers", "splice", "concat", "output", "inputs", "ParsingError", "message", "super", "Scope", "parent", "bindings", "ref", "name", "expression", "get", "has", "NullType", "kind", "NumberType", "StringType", "BooleanType", "ColorType", "ObjectType", "ValueType", "ErrorType", "CollatorType", "FormattedType", "ResolvedImageType", "array", "itemType", "N", "toString", "valueMemberTypes", "checkSubtype", "expected", "t", "memberType", "Color", "r", "g", "b", "a", "rgba", "parseCSSColor", "toArray", "Math", "round", "black", "white", "transparent", "red", "Collator", "caseSensitive", "diacriticSensitive", "locale", "sensitivity", "collator", "Intl", "usage", "compare", "lhs", "rhs", "resolvedLocale", "resolvedOptions", "FormattedSection", "text", "image", "scale", "fontStack", "textColor", "Formatted", "sections", "fromString", "unformatted", "isEmpty", "some", "section", "factory", "join", "serialize", "serialized", "push", "ResolvedImage", "available", "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", "lastExpres

```

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"pointWithinPolygon", "point", "rings", "inside", "len", "ring", "j", "len2", "pointWithinPolygons", "polygons", "perp", "v1", "v2", "twoSided", "q1", "q2", "x3", "y3", "lineIntersectLine", "d", "vectorP", "vectorQ", "lineIntersectPolygon", "polygon", "lineStringWithinPolygon", "line", "lineStringWithinPolygons", "getTilePolygon", "getTilePolygons", "pointsWithinPolygons", "polygonGeometry", "pointBBox", "Infinity", "polyBBox", "shifts", "tilePoints", "points", "tilePolygon", "tilePolygons", "linesWithinPolygons", "lineBBox", "tileLines", "tileLine", "Within", "geojson", "geometries", "features", "isFeatureConstant", "e", "test", "isStateConstant", "isGlobalPropertyConstant", "Var", "boundExpression", "part", "expr", "index", "_parse", "annotate", "typeAnnotation", "Expr", "actual", "isConstant", "ec", "isTypeAnnotation", "childrenConstant", "findStopLessThanOrEqualTo", "lastIndex", "lowerIndex", "upperIndex", "currentIndex", "currentValue", "nextValue", "Step", "labels", "outputs", 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AAR,CAAhBpC,CAD8F;EAAA,IAE9FA,IAAMmP,MAAA,GAAS,EAAfnP,CAF8F;EAAA,IAG9FmC,MAAA,C
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AAA,MAAA,GAAQX,CAAIB,GAAwB,IAArC3B,CADiB;EAAA,YAEjBmP,MAAA,CAAO/E,IAAP,CAAY,IAA
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;EAAA,KA7CmC;EAAA,IASDjF/qB,IAAM8yB,iBAAA,GAAoB,oBAA1B9yB,CAtDiF;EAAA,IAuDjF,IAAI,CA
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B,CAAd,EAAiB5C,MAAA,CAAOC,IAAP,CAAYqvB,EAAA,CAAGlxB,KAAf,CAAJB,CADC,CAAbY,CARuF;

EAAA,IAWvF,IAAI4D,CAAA,CAAEnD,OAAN,EAAe;EAAA,QACXuN,MAAA,GAASA,MAAA,CAA09J,MAAP,CAAcgtB,gBAAA,CAAiBtB,CAAA,CAAEnD,OAAnB,CAAd,CAAT,CADW;EAAA,KAXwE;EAAA,IAevF,OAAOuN,MAAP,CAfuF;EAAA;;MCzErFnJ,YAAA,GAAa;EAAA,qBACf8b,eADe;EAAA,kBAEfS,YAFe;EAAA,sBAGfC,gBAHe;EAAA,8BAIfO,wBAJe;EAAA,iCAKfS,2BALe;EAAA,4BAMfb,sBANe;EAAA,6BAOfG,uBAPe;EAAA,2BAQfK,qBARE;EAAA,CAAnBnjB,CAjFA;AA4FAA,MAAMizB,aAAA,GAAgB;EAAA,qBACIBjP,eADkB;EAAA,oBAEIBnE,cAFkB;EAAA,gBAGIB7c,YAHkB;EAAA,CAAtBhD,CA5FA;AAkGAA,MAAMkzB,KAAA,GAAQ;EAAA,gBAACzxB,UAAD;EAAA,eAAaI,SAAb;EAAA,kBAAwBC,YAAxB;EAAA,CAAd9B,CAIGA;AAoGA,AAoBA6sB,eAAA,CAAS9gB,MAAT,GAAkB8gB,aAAIB,CAxHA;AAyHAA,eAAA,CAASsG,MAAT,GAAkBTg,aAAIB;,,,,,,,,,,,,,,,,,,,,,,,,,,,,,;}

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1034316672_1588680854.86/0/mapbox-mapbox-gl-style-spec-13-13-0-tgz/package/dist/index.js.map

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

```
{ "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", "../../../../node_modules/@mapbox/unitbezier/index.js", "../util/deep_equal.js", "../util/util.js", "../../../../geo/lng_lat_bounds.js", "../../../../geo/lng_lat.js", "../../../../geo/mercator_coordinate.js", "../../../../data/extent.js", "../expression/definitions/within.js", "../expression/is_constant.js", "../expression/definitions/var.js", "../expression/parsing_context.js", "../expression/stops.js", "../expression/definitions/step.js", "../util/interpolate.js", "../util/color_spaces.js", "../expression/definitions/interpolate.js", "../expression/definitions/coalesce.js", "../expression/definitions/let.js", "../expression/definitions/at.js", "../expression/definitions/in.js", "../expression/definitions/match.js", "../expression/definitions/case.js", "../expression/definitions/comparison.js", "../expression/definitions/number_format.js", "../expression/definitions/length.js", "../expression/definitions/index.js", "../util/result.js", "../util/properties.js", "../util/get_type.js", "../function/index.js", "../expression/index.js", "../function/convert.js", "../feature_filter/index.js", "../feature_filter/convert.js", "../migrate/expressions.js", "../migrate.js", "../composite.js", "../util/ref_properties.js", "../deref.js", "../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 = /(?:[^\u0000\u0001-\u001f]|\\u[0-9a-f]{4})/g;\n\nmodule.exports = function stringify(passedObj, options) {\n  var indent, maxLength, replacer;\n  options = options || {};\n  indent = JSON.stringify(\n    [1],\n    undefined,\n    options.indent === undefined ? 2 : options.indent\n  ).slice(2, -3);\n  maxLength =\n    indent === \"\n  ?
```

```

Infinity\n    : options.maxLength === undefined\n    ? 80\n    : options.maxLength;\n    replacer =
options.replacer;\n\n    return (function _stringify(obj, currentIndent, reserved) {\n    // prettier-ignore\n    var end,
index, items, key, keyPart, keys, length, nextIndent, prettified, start, string, value;\n\n    if (obj && typeof
obj.toJSON === "function") {\n    obj = obj.toJSON();\n    }\n\n    string = JSON.stringify(obj, replacer);\n\n    if
(string === undefined) {\n    return string;\n    }\n\n    length = maxLength - currentIndent.length - reserved;\n\n    if
(string.length <= length) {\n    prettified = string.replace(stringOrChar, function(match, stringLiteral) {\n
return stringLiteral || match + "\\n";\n    });\n    if (prettified.length <= length) {\n    return prettified;\n    }\n
}\n\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
"\nnull"\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) + ": ";
value = _stringify(\n    obj[key],\n    nextIndent,\n
keyPart.length + (index === length - 1 ? 0 : 1)\n    );\n    if (value !== undefined) {\n
items.push(keyPart + value);\n    }\n    }\n\n    if (items.length > 0) {\n    return [start, indent +
items.join(",\n" + nextIndent), end].join(\n    "\\n" + currentIndent\n    );\n    }\n\n    return string;\n
})(passedObj, "\\n", 0);\n};\n\n",\n\nimport reference from './reference/latest.js';\nimport stringifyPretty from 'json-
stringify-pretty-compact';\n\nfunction sortKeysBy(obj, reference) {\n    const result = {};\n    for (const key in
reference) {\n    if (obj[key] !== undefined) {\n    result[key] = obj[key];\n    }\n    }\n    for (const key in
obj) {\n    if (result[key] === undefined) {\n    result[key] = obj[key];\n    }\n    }\n    return
result;\n}\n\n/**\n * Format a Mapbox GL Style. Returns a stringified style with its keys\n * sorted in the same
order as the reference style.\n * The optional `space` argument is passed to\n *
[JSON.stringify](https://developer.mozilla.org/en-
US/docs/Web/JavaScript/Reference/Global_Objects/JSON/stringify)\n * to generate formatted output.\n * If
`space` is unspecified, a default of `2` spaces will be used.\n * @private\n * @param {Object} style a Mapbox
GL Style\n * @param {number} [space] space argument to pass to `JSON.stringify`\n * @returns {string}
stringified formatted JSON\n * @example\n * var fs = require('fs');\n * var format = require('mapbox-gl-style-
spec').format;\n * var style = fs.readFileSync('./source.json', 'utf8');\n * fs.writeFileSync('./dest.json',
format(style));\n * fs.writeFileSync('./dest.min.json', format(style, 0));\n * ^\nfunction format(style, space = 2) {\n
style = sortKeysBy(style, reference.$root);\n\n    if (style.layers) {\n    style.layers = style.layers.map((layer) =>
sortKeysBy(layer, reference.layer));\n    }\n\n    return stringifyPretty(style, {indent: space});\n}\n\nexport default
format;\n",\n\n! https://mths.be/punycode v1.3.2 by @mathias *\n;(function(root) {\n\n\t/** Detect free variables
*\n\t\tvar freeExports = typeof exports === 'object' && exports &&\n\t\t\t!exports.nodeType && exports;\n\t\tvar
freeModule = typeof module === 'object' && module &&\n\t\t\t!module.nodeType && module;\n\t\tvar freeGlobal =
typeof global === 'object' && global;\n\t\tif (\n\t\t\t!freeGlobal.global === freeGlobal ||\n\t\t\t!freeGlobal.window ===
freeGlobal ||\n\t\t\t!freeGlobal.self === freeGlobal\n\t\t) {\n\t\t\troot = freeGlobal;\n\t\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\t\tmaxInt = 2147483647, // aka. 0x7FFFFFFF or 2^31-1\n\n\t/** Bootstring parameters *\n\t\tbase =
36,\n\t\ttMin = 1,\n\t\ttMax = 26,\n\t\ttskew = 38,\n\t\ttdamp = 700,\n\t\ttinitialBias = 72,\n\t\ttinitialN = 128, //
0x80\n\t\ttdelimiter = '-', // "\x2D"\n\n\t/** Regular expressions *\n\t\tregexPunycode = /^xn--/, \n\t\tregexNonASCII =
/[\^\x20-\x7E]/, // unprintable ASCII chars + non-ASCII chars\n\t\tregexSeparators =
/[\^\x2E\u3002\uFF0E\uFF61]/g, // RFC 3490 separators\n\n\t/** Error messages *\n\t\terrors = {\n\t\t\t'overflow':
'Overflow: input needs wider integers to process',\n\t\t\t'not-basic': 'Illegal input >= 0x80 (not a basic
code point)',\n\t\t\t'invalid-input': 'Invalid input'\n\t\t},\n\n\t/** Convenience shortcuts *\n\t\tbaseMinusTMin = base -
tMin,\n\t\ttfloor = Math.floor,\n\t\ttstringFromCharCode = String.fromCharCode,\n\n\t/** Temporary variable
*\n\t\tkey;\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 * 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-- > 0) {\n\t\t\tresult[length] =
fn(array[length]);\n\t\t}\n\t\treturn result;\n\t}\n\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 punyencoded. 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 * 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\tcounter = 0,\n\t\t\tlength =
string.length,\n\t\t\tvalue,\n\t\t\textra;\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}\n\t\t\toutput.push(value);\n\t\t\t}\n\t\t}\n\t\treturn output;\n\t}\n\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\toutput -= 0x10000;\n\t\t\t\toutput += stringFromCharCode(value >>> 10 & 0x3FF |
0xD800);\n\t\t\t\tvalue = 0xDC00 | value & 0x3FF;\n\t\t\t\toutput += stringFromCharCode(value);\n\t\t\t\treturn
output;\n\t\t\t}\n\t\t}).join('');\n\t}\n\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 * 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 * 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\t// (* no initialization */; delta > baseMinusTMin * tMax >> 1; k += base)\n\t\treturn delta =
```



```

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

```



```

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

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protocolPattern = /^[a-z0-9.+:\-]/i,\n portPattern = /^[0-9]*$/i,\n // Special case for a simple path URL\n
simplePathPattern = /^(\\|\/|(?!\|\/)[^\|\/s]*)((?!\|\/s)*)?$/i,\n // RFC 2396: characters reserved for delimiting\n
URLs.\n // We actually just auto-escape these.\n delims = ['<', '>', '"', '\'', '\\r', '\\n', '\\t'],\n // RFC 2396:\n
characters not allowed for various reasons.\n unwise = ['{', '}', '|', '\\\\\\\\', '^', '~'].concat(delims),\n // Allowed by\n
RFCs, but cause of XSS attacks. Always escape these.\n autoEscape = ['\\'].concat(unwise),\n // Characters that\n
are never ever allowed in a hostname.\n // Note that any invalid chars are also handled, but these\n // are the ones\n
that are *expected* to be seen, so we fast-path\n // them.\n nonHostChars = ['%', '/', '?', ';',\n
'#'].concat(autoEscape),\n hostEndingChars = [',', '?', '#'],\n hostnameMaxLen = 255,\n hostnamePartPattern =\n
/^[+a-z0-9A-Z_-]{0,63}$/i,\n hostnamePartStart = /^[+a-z0-9A-Z_-]{0,63}(.*)$/i,\n // protocols that can allow\n
\"unsafe\" and \"unwise\" chars.\n unsafeProtocol = {\n 'javascript': true,\n 'javascript:': true\n },\n //\n
protocols that never have a hostname.\n hostlessProtocol = {\n 'javascript': true,\n 'javascript:': true\n },\n\n
// protocols that always contain a\n // bit.\n slashedProtocol = {\n 'http': true,\n 'https': true,\n 'ftp': true,\n\n
'gopher': true,\n 'file': true,\n 'http:': true,\n 'https:': true,\n 'ftp:': true,\n 'gopher:': true,\n 'file':\n
true\n },\n querystring = require('querystring');\n\nfunction urlParse(url, parseQueryString, slashesDenoteHost)\n
{\n if (url && util.isObject(url) && url instanceof Url) return url;\n\n var u = new Url;\n u.parse(url,\n
parseQueryString, slashesDenoteHost);\n return u;\n}\n\nUrl.prototype.parse = function(url, parseQueryString,\n
slashesDenoteHost) {\n if (!util.isString(url)) {\n throw new TypeError(\"Parameter 'url' must be a string, not \" +\n
typeof url);\n }\n\n // Copy chrome, IE, opera backslash-handling behavior.\n // Back slashes before the query\n
string get converted to forward slashes\n // See: https://code.google.com/p/chromium/issues/detail?id=25916\n var\n
queryIndex = url.indexOf('?'),\n splitter =\n (queryIndex !== -1 && queryIndex < url.indexOf('#')) ? '?' :\n
'#',\n uSplit = url.split(splitter),\n slashRegex = /^\\\\\\\\g;\n uSplit[0] = uSplit[0].replace(slashRegex, '/');\n url =\n
uSplit.join(splitter);\n\n var rest = url;\n\n // trim before proceeding.\n // This is to support parse stuff like \"\n\n
http://foo.com \\n\\n\" rest = rest.trim();\n\n if (!slashesDenoteHost && url.split('#').length === 1) {\n // Try fast\n
path regexp\n var simplePath = simplePathPattern.exec(rest);\n if (simplePath) {\n this.path = rest;\n\n
this.href = rest;\n this.pathname = simplePath[1];\n if (simplePath[2]) {\n this.search = simplePath[2];\n\n
if (parseQueryString) {\n this.query = querystring.parse(this.search.substr(1));\n } else {\n\n
this.query = this.search.substr(1);\n }\n } else if (parseQueryString) {\n this.search = \";\n this.query =\n
{};\n }\n } return this;\n }\n\n var proto = protocolPattern.exec(rest);\n if (proto) {\n proto =\n
proto[0];\n var lowerProto = proto.toLowerCase();\n this.protocol = lowerProto;\n rest =\n
rest.substr(proto.length);\n }\n\n // figure out if it's got a host\n // user@server is *always* interpreted as a\n
hostname, and url\n // resolution will treat //foo/bar as host=foo,path=bar because that's\n // how the browser\n
resolves relative URLs.\n if (slashesDenoteHost || proto || rest.match(/^\\\\\\\\\\\\[^\|\/]+@[^\|\/]+/)) {\n var slashes =\n
rest.substr(0, 2) === '//';\n if (slashes && !(proto && hostlessProtocol[proto])) {\n rest = rest.substr(2);\n\n
this.slashes = true;\n }\n }\n\n if (!hostlessProtocol[proto] &&\n (slashes || (proto &&\n
!slashedProtocol[proto]))) {\n\n // there's a hostname.\n // the first instance of /, ?, :, or # ends the host.\n\n\n
// If there is an @ in the hostname, then non-host chars *are* allowed\n // to the left of the last @ sign, unless\n
some host-ending character\n // comes *before* the @-sign.\n // URLs are obnoxious.\n\n // ex:\n //\n\n
http://a@b@c/ => user:a@b host:c\n // http://a@b?@c => user:a host:c path:@c\n // v0.12 TODO(isaacs):\n\n
This is not quite how Chrome does things.\n // Review our test case against browsers more comprehensively.\n\n\n
// find the first instance of any hostEndingChars\n var hostEnd = -1;\n for (var i = 0; i < hostEndingChars.length;\n
i++) {\n var hec = rest.indexOf(hostEndingChars[i]);\n if (hec !== -1 && (hostEnd === -1 || hec <\n\n
hostEnd))\n hostEnd = hec;\n }\n\n // at this point, either we have an explicit point where the\n // auth\n
portion cannot go past, or the last @ char is the decider.\n var auth, atSign;\n if (hostEnd === -1) {\n // atSign\n
can be anywhere.\n atSign = rest.lastIndexOf('@');\n } else {\n // atSign must be in auth portion.\n //\n\n
http://a@b/c@d => host:b auth:a path:c@d\n atSign = rest.lastIndexOf('@', hostEnd);\n }\n\n // Now we\n
have a portion which is definitely the auth.\n // Pull that off.\n if (atSign !== -1) {\n auth = rest.slice(0,\n
atSign);\n rest = rest.slice(atSign + 1);\n this.auth = decodeURIComponent(auth);\n }\n\n // the host is the\n
remaining to the left of the first non-host char\n hostEnd = -1;\n for (var i = 0; i < nonHostChars.length; i++) {\n

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

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

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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\nexport type 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];\n  delete obj[from];\n}\n\nexport default function(style) {\n  style.version = 8;\n\n  // Rename properties, reverse coordinates in source and layers\n  eachSource(style, (source) => {\n    if (source.type === 'video' && source.url !== undefined) {\n      renameProperty(source, 'url', 'urls');\n    }\n    if (source.type === 'video') {\n      source.coordinates.forEach((coord) => {\n        return coord.reverse();\n      });\n    }\n  });\n\n  eachLayer(style, (layer) => {\n    eachLayout(layer, (layout) => {\n      if (layout['symbol-min-distance'] !== undefined) {\n        renameProperty(layout, 'symbol-min-distance', 'symbol-spacing');\n      }\n    });\n\n    eachPaint(layer, (paint) => {\n      if (paint['background-image'] !== undefined) {\n        renameProperty(paint, 'background-image', 'background-pattern');\n      }\n      if (paint['line-image'] !== undefined) {\n        renameProperty(paint, 'line-image', 'line-pattern');\n      }\n      if (paint['fill-image'] !== undefined) {\n        renameProperty(paint, 'fill-image', 'fill-pattern');\n      }\n    });\n  });\n\n  // Inline Constants\n  eachProperty(style, {paint: true, layout: true}, (property) => {\n    const value = resolveConstant(style, property.value);\n\n    if (isFunction(value)) {\n      value.stops.forEach((stop) => {\n        stop[1] = resolveConstant(style, stop[1]);\n      });\n    }\n\n    property.set(value);\n  });\n  delete style.constants;\n\n  eachLayer(style, (layer) => {\n    // get rid of text-max-size, icon-max-size\n    // turn text-size, icon-size into layout properties\n    // https://github.com/mapbox/mapbox-gl-style-spec/issues/255\n    eachLayout(layer, (layout) => {\n      delete layout['text-max-size'];\n      delete layout['icon-max-size'];\n    });\n\n    eachPaint(layer, (paint) => {\n      if (paint['text-size']) {\n        if (!layer.layout) layer.layout = {};\n        layer.layout['text-size'] = paint['text-size'];\n        delete paint['text-size'];\n      }\n      if (paint['icon-size']) {\n        if (!layer.layout) layer.layout = {};\n        layer.layout['icon-size'] = paint['icon-size'];\n        delete paint['icon-size'];\n      }\n    });\n  });\n\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    } else if (inputParsed.hostname === 'fontstack') {\n      assert(decodeURI(inputParsed.pathname) === `/{fontstack}/{range}.pbf`);\n      return `mapbox://fonts/mapbox/{fontstack}/{range}.pbf`;\n    } else if (inputParsed.hostname === 'fonts') {\n      assert(inputPathnameParts[1] === 'v1');\n      assert(decodeURI(inputPathnameParts[3]) === '{fontstack}');\n      assert(decodeURI(inputPathnameParts[4]) === 'range.pbf');\n      return `mapbox://fonts/${inputPathnameParts[2]}/{fontstack}/{range}.pbf`;\n    } else {\n      assert(false);\n    }\n  }\n}

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

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[119,136,153,1], \"lightsteelblue\": [176,196,222,1],\n \"lightyellow\": [255,255,224,1], \"lime\": [0,255,0,1],\n
\"limegreen\": [50,205,50,1], \"linen\": [250,240,230,1],\n \"magenta\": [255,0,255,1], \"maroon\": [128,0,0,1],\n
\"mediumaquamarine\": [102,205,170,1], \"mediumblue\": [0,0,205,1],\n \"mediumorchid\": [186,85,211,1],
\"mediumpurple\": [147,112,219,1],\n \"mediumseagreen\": [60,179,113,1], \"mediumslateblue\":
[123,104,238,1],\n \"mediumspringgreen\": [0,250,154,1], \"mediumturquoise\": [72,209,204,1],\n
\"mediumvioletred\": [199,21,133,1], \"midnightblue\": [25,25,112,1],\n \"mintcream\": [245,255,250,1],
\"mistyrose\": [255,228,225,1],\n \"moccasin\": [255,228,181,1], \"navajowhite\": [255,222,173,1],\n \"navy\":
[0,0,128,1], \"oldlace\": [253,245,230,1],\n \"olive\": [128,128,0,1], \"olivedrab\": [107,142,35,1],\n \"orange\":
[255,165,0,1], \"orangered\": [255,69,0,1],\n \"orchid\": [218,112,214,1], \"palegoldenrod\": [238,232,170,1],\n
\"palegreen\": [152,251,152,1], \"paleturquoise\": [175,238,238,1],\n \"palevioletred\": [219,112,147,1],
\"papayawhip\": [255,239,213,1],\n \"peachpuff\": [255,218,185,1], \"peru\": [205,133,63,1],\n \"pink\":
[255,192,203,1], \"plum\": [221,160,221,1],\n \"powderblue\": [176,224,230,1], \"purple\": [128,0,128,1],\n
\"rebeccapurple\": [102,51,153,1],\n \"red\": [255,0,0,1], \"rosybrown\": [188,143,143,1],\n \"royalblue\":
[65,105,225,1], \"saddlebrown\": [139,69,19,1],\n \"salmon\": [250,128,114,1], \"sandybrown\": [244,164,96,1],\n
\"seagreen\": [46,139,87,1], \"seashell\": [255,245,238,1],\n \"sienna\": [160,82,45,1], \"silver\": [192,192,192,1],\n
\"skyblue\": [135,206,235,1], \"slateblue\": [106,90,205,1],\n \"slategray\": [112,128,144,1], \"slategrey\":
[112,128,144,1],\n \"snow\": [255,250,250,1], \"springgreen\": [0,255,127,1],\n \"steelblue\": [70,130,180,1],
\"tan\": [210,180,140,1],\n \"teal\": [0,128,128,1], \"thistle\": [216,191,216,1],\n \"tomato\": [255,99,71,1],
\"turquoise\": [64,224,208,1],\n \"violet\": [238,130,238,1], \"wheat\": [245,222,179,1],\n \"white\":
[255,255,255,1], \"whitesmoke\": [245,245,245,1],\n \"yellow\": [255,255,0,1], \"yellowgreen\":
[154,205,50,1]}\n\nfunction clamp_css_byte(i) { // Clamp to integer 0 .. 255.\n  i = Math.round(i); // Seems to be
what Chrome does (vs truncation).\n  return i < 0 ? 0 : i > 255 ? 255 : i;}\n\nfunction clamp_css_float(f) { //
Clamp to float 0.0 .. 1.0.\n  return f < 0 ? 0 : f > 1 ? 1 : f;}\n\nfunction parse_css_int(str) { // int or percentage.\n
if (str[str.length - 1] === '%')\n  return clamp_css_byte(parseFloat(str) / 100 * 255);\n  return
clamp_css_byte(parseInt(str));}\n\nfunction parse_css_float(str) { // float or percentage.\n  if (str[str.length - 1]
=== '%')\n    return clamp_css_float(parseFloat(str) / 100);\n    return clamp_css_float(parseFloat(str));}\n\nfunction
css_hue_to_rgb(m1, m2, h) {\n  if (h < 0) h += 1;\n  else if (h > 1) h -= 1;\n\n  if (h * 6 < 1) return m1 + (m2 - m1) *
h * 6;\n  if (h * 2 < 1) return m2;\n  if (h * 3 < 2) return m1 + (m2 - m1) * (2/3 - h) * 6;\n  return m1;}\n\nfunction
parseCSSColor(css_str) {\n  // Remove all whitespace, not compliant, but should just be more accepting.\n  var str =
css_str.replace(/ /g, '').toLowerCase();\n\n  // Color keywords (and transparent) lookup.\n  if (str in kCSSColorTable)
return kCSSColorTable[str].slice(); // dup.\n\n  // #abc and #abc123 syntax.\n  if (str[0] === '#') {\n    if (str.length
=== 4) {\n      var iv = parseInt(str.substr(1), 16); // TODO(deanm): Stricter parsing.\n      if (!(iv >= 0 && iv <=
0xffff)) return null; // Covers NaN.\n      return [(iv & 0xf0) >> 4] | ((iv & 0xf0) >> 8),\n              (iv & 0xf0) | ((iv
& 0xf0) >> 4),\n              (iv & 0xf) | ((iv & 0xf) << 4),\n              1];\n    } else if (str.length === 7) {\n      var iv =
parseInt(str.substr(1), 16); // TODO(deanm): Stricter parsing.\n      if (!(iv >= 0 && iv <= 0xfffffff)) return null; //
Covers NaN.\n      return [(iv & 0xff0000) >> 16,\n              (iv & 0xff00) >> 8,\n              iv & 0xff,\n              1];\n    }\n\n    return null;\n  }\n\n  var op = str.indexOf('('), ep = str.indexOf('');\n  if (op !== -1 && ep + 1 === str.length)
{\n    var fname = str.substr(0, op);\n    var params = str.substr(op+1, ep-(op+1)).split(',');\n    var alpha = 1; // To
allow case fallthrough.\n    switch (fname) {\n      case 'rgba':\n        if (params.length !== 4) return null;\n        alpha
= parse_css_float(params.pop());\n        // Fall through.\n        case 'rgb':\n          if (params.length !== 3) return null;\n
          return [parse_css_int(params[0]),\n                  parse_css_int(params[1]),\n                  parse_css_int(params[2]),\n
                  alpha];\n        case 'hsla':\n          if (params.length !== 4) return null;\n          alpha =
parse_css_float(params.pop());\n          // Fall through.\n          case 'hsl':\n            if (params.length !== 3) return null;\n
            var h = (((parseFloat(params[0]) % 360) + 360) % 360) / 360; // 0 .. 1\n            // NOTE(deanm): According to the
CSS spec s/l should only be\n            // percentages, but we don't bother and let float or percentage.\n            var s =
parse_css_float(params[1]);\n            var l = parse_css_float(params[2]);\n            var m2 = 1 <= 0.5 ? 1 * (s + 1) : 1 + s - 1
* s;\n            var m1 = 1 * 2 - m2;\n            return [clamp_css_byte(css_hue_to_rgb(m1, m2, h+1/3) * 255),\n                    clamp_css_byte(css_hue_to_rgb(m1, m2, h) * 255),\n                    clamp_css_byte(css_hue_to_rgb(m1, m2, h-1/3) *

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255),\n      alpha);\n      default:\n      return null;\n    }\n  }\n  return null;\n}\n\ntry {\n  exports.parseColor = parseCSSColor } catch(e) { }\n", "// @flow\n\nimport {parseCSSColor} from\n'csscolorparser';\n\n/**\n * An RGBA color value. Create instances from color strings using the static\n * method\n * `Color.parse`. The constructor accepts RGB channel values in the range\n * `[0, 1]`, premultiplied by A.\n * @param {number} r The red channel.\n * @param {number} g The green channel.\n * @param {number} b The\n * blue channel.\n * @param {number} a The alpha channel.\n * @private\n */\n\nclass Color {\n  r: number;\n  g:\n  number;\n  b: number;\n  a: number;\n\n  constructor(r: number, g: number, b: number, a: number = 1) {\n    this.r = r;\n    this.g = g;\n    this.b = b;\n    this.a = a;\n  }\n\n  static black: Color;\n  static white: Color;\n\n  static transparent: Color;\n  static red: Color;\n\n  /**\n   * Parses valid CSS color strings and returns a `Color`\n   * instance.\n   * @returns A `Color` instance, or `undefined` if the input is not a valid color string.\n   */\n  static\n  parse(input?: string | Color | null): Color | void {\n    if (!input) {\n      return undefined;\n    }\n\n    if\n    (input instanceof Color) {\n      return input;\n    }\n\n    if (typeof input !== 'string') {\n      return\n      undefined;\n    }\n\n    const rgba = parseCSSColor(input);\n    if (!rgba) {\n      return undefined;\n    }\n\n    return new Color(\n      rgba[0] / 255 * rgba[3],\n      rgba[1] / 255 * rgba[3],\n      rgba[2] / 255\n      * rgba[3],\n      rgba[3]\n    );\n  }\n\n  /**\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] =\n    this.toArray();\n    return `rgba(${Math.round(r)},${Math.round(g)},${Math.round(b)},${a})`;\n  }\n\n  toArray(): [number, number, number, number] {\n    const [r, g, b, a] = this;\n    return a === 0 ? [0, 0, 0, 0] :\n    [\n      r * 255 / a,\n      g * 255 / a,\n      b * 255 / a,\n      a\n    ];\n  }\n}\n\nColor.black = new\nColor(0, 0, 0, 1);\nColor.white = new Color(1, 1, 1, 1);\nColor.transparent = new Color(0, 0, 0, 0);\nColor.red = new\nColor(1, 0, 0, 1);\n\nexport default Color;\n", "// @flow\n\n// Flow type declarations for Intl cribbed from\n//\n// https://github.com/facebook/flow/issues/1270\n\ndeclare var Intl: {\n  Collator:\n  Class<Intl$Collator>);\n\n  declare class Intl$Collator {\n    constructor (\n      locales?: string | string[],\n      options?: CollatorOptions\n    ): Intl$Collator;\n\n    static (\n      locales?: string | string[],\n      options?:\n      CollatorOptions\n    ): Intl$Collator;\n\n    compare (a: string, b: string): number;\n\n    resolvedOptions():\n    any;\n  }\n\n  type CollatorOptions = {\n    localeMatcher?: 'lookup' | 'best fit',\n    usage?: 'sort' | 'search',\n    sensitivity?: 'base' | 'accent' | 'case' | 'variant',\n    ignorePunctuation?: boolean,\n    numeric?: boolean,\n    caseFirst?:\n    'upper' | 'lower' | 'false'\n  }\n\n  export default class Collator {\n    locale: string | null;\n    sensitivity: 'base' | 'accent' |\n    'case' | 'variant';\n    collator: Intl$Collator;\n\n    constructor(caseSensitive: boolean, diacriticSensitive: boolean,\n    locale: string | null) {\n      if (caseSensitive)\n        this.sensitivity = diacriticSensitive ? 'variant' : 'case';\n      else\n        this.sensitivity = diacriticSensitive ? 'accent' : 'base';\n\n      this.locale = locale;\n      this.collator =\n      new Intl.Collator(this.locale ? this.locale : [],\n        {sensitivity: this.sensitivity, usage: 'search'});\n    }\n\n    compare(lhs: string, rhs: string): number {\n      return this.collator.compare(lhs, rhs);\n    }\n\n    resolvedLocale():\n    string {\n      // We create a Collator without `usage: search` because we don't want\n      // the search options\n      encoded in our result (e.g. `en-u-co-search`)\n      return new Intl.Collator(this.locale ? this.locale : [])\n      .resolvedOptions().locale;\n    }\n  }\n", "// @flow\n\nimport type Color from '../util/color';\n\nimport type\nResolvedImage from '../types/resolved_image';\n\nexport class FormattedSection {\n  text: string;\n  image:\n  ResolvedImage | null;\n  scale: number | null;\n  fontStack: string | null;\n  textColor: Color | null;\n\n  constructor(text: string, image: ResolvedImage | null, scale: number | null, fontStack: string | null, textColor: Color |\n  null) {\n    this.text = text;\n    this.image = image;\n    this.scale = scale;\n    this.fontStack = fontStack;\n\n    this.textColor = textColor;\n  }\n}\n\nexport default class Formatted {\n  sections:\n  Array<FormattedSection>;\n\n  constructor(sections: Array<FormattedSection>) {\n    this.sections = sections;\n  }\n\n  static fromString(unformatted: string): Formatted {\n    return new Formatted([new\n    FormattedSection(unformatted, null, null, null, null)];\n  }\n\n  isEmpty(): boolean {\n    if (this.sections.length\n    === 0) return true;\n    return !this.sections.some(section => section.text.length !== 0 ||\n    (section.image && section.image.name.length !== 0));\n  }\n\n  static factory(text: Formatted | string):

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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\n", "// @flow\n\nexport type
ResolvedImageOptions = {\n    name: string,\n    available: boolean\n};\n\nexport default class ResolvedImage {\n
name: string;\n    available: boolean;\n\n    constructor(options: ResolvedImageOptions) {\n        this.name =
options.name;\n        this.available = options.available;\n    }\n\n    toString(): string {\n        return this.name;\n
}\n\n    static fromString(name: string): ResolvedImage | null {\n        if (!name) return null; // treat empty values as
no image\n        return new ResolvedImage({name, available: false});\n    }\n\n    serialize(): Array<string> {\n
return ["image", this.name];\n    }\n}\n\n", "// @flow\n\nimport assert from 'assert';\n\nimport Color from
'./util/color';\nimport Collator from './types/collator';\nimport Formatted from './types/formatted';\nimport
ResolvedImage from './types/resolved_image';\nimport {NullType, NumberType, StringType, BooleanType,
ColorType, ObjectType, ValueType, CollatorType, FormattedType, ResolvedImageType, array} from
'./types';\n\nimport type {Type} from './types';\n\nexport function validateRGBA(r: mixed, g: mixed, b: mixed, a?:
mixed): string | null {\n    if (!(typeof r === 'number' && r >= 0 && r <= 255 && typeof g ===
'number' && g >= 0 && g <= 255 && typeof b === 'number' && b >= 0 && b <= 255\n    )) {\n        const
value = typeof a === 'number' ? [r, g, b, a] : [r, g, b];\n        return `Invalid rgba value [${value.join(', ')}]: 'r', 'g', and
'b' must be between 0 and 255.`;\n    }\n\n    if (!(typeof a === 'undefined' || (typeof a === 'number' && a >=
0 && a <= 1)\n    )) {\n        return `Invalid rgba value [${[r, g, b, a].join(', ')}]: 'a' must be between 0 and 1.`;\n
}\n\n    return null;\n}\n\nexport type Value = null | string | boolean | number | Color | Collator | Formatted |
ResolvedImage | $ReadOnlyArray<Value> | { +[string]: Value }\n\nexport function isValue(mixed: mixed): boolean
{\n    if (mixed === null) {\n        return true;\n    } else if (typeof mixed === 'string') {\n        return true;\n    }
else if (typeof mixed === 'boolean') {\n        return true;\n    } else if (typeof mixed === 'number') {\n        return true;\n
}\n    } else if (mixed instanceof Color) {\n        return true;\n    } else if (mixed instanceof Collator) {\n        return true;\n
}\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
}\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
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,

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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\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      {\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\n\nclass RuntimeError {\n  name: string;\n  message: string;\n\n  constructor(message:
string) {\n    this.name = 'ExpressionEvaluationError';\n    this.message = message;\n  }\n\n  toJSON() {\n    return
this.message;\n  }\n}\n\nexport default RuntimeError;\n", "// @flow\n\nimport assert from 'assert';\nimport
{\n  ObjectType,\n  ValueType,\n  StringType,\n  NumberType,\n  BooleanType,\n  checkSubtype,\n  toString,\n  array\n} from './types';\nimport RuntimeError from './runtime_error';\nimport {typeOf} from
 './values';\nimport type {Expression} from './expression';\nimport type ParsingContext from
 './parsing_context';\nimport type EvaluationContext from './evaluation_context';\nimport type {Type} from
 './types';\n\nconst types = {\n  string: StringType,\n  number: NumberType,\n  boolean: BooleanType,\n  object: ObjectType\n};\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

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}\n\n outputDefined(): boolean {\n    return this.args.every(arg => arg.outputDefined());\n }\n\n serialize():\nArray<mixed> {\n    const type = this.type;\n    const serialized = [type.kind];\n    if (type.kind === 'array')\n    {\n        const itemType = type.itemType;\n        if (itemType.kind === 'string' ||\n            itemType.kind ===\n            'number' ||\n            itemType.kind === 'boolean') {\n            serialized.push(itemType.kind);\n            const\n            N = type.N;\n            if (typeof N === 'number' || this.args.length > 1) {\n                serialized.push(N);\n            }\n        }\n    }\n    return serialized.concat(this.args.map(arg => arg.serialize()));\n }\n}\n\nexport default\nAssertion;\n\n"/ @flow\n\nimport {NumberType, ValueType, FormattedType, array, StringType, ColorType,\nResolvedImageType} from './types';\nimport Formatted, {FormattedSection} from './types/formatted';\nimport\n{toString, typeOf} from './values';\nimport type {Expression} from './expression';\nimport type\nEvaluationContext from './evaluation_context';\nimport type ParsingContext from './parsing_context';\nimport type\n{Type} from './types';\n\ntype FormattedSectionExpression = {\n    // Content of a section may be Image expression\nor other\n    // type of expression that is coercable to 'string'.\n    content: Expression,\n    scale: Expression | null;\n    font: Expression | null;\n    textColor: Expression | null;\n}\n\nexport default class FormatExpression implements\nExpression {\n    type: Type;\n    sections: Array<FormattedSectionExpression>;\n\n    constructor(sections:\nArray<FormattedSectionExpression>) {\n        this.type = FormattedType;\n        this.sections = sections;\n    }\n\n    static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n        if (args.length < 2) {\n            return context.error(`Expected at least one argument.`);\n        }\n        const firstArg = args[1];\n        if\n        (!Array.isArray(firstArg) && typeof firstArg === 'object') {\n            return context.error(`First argument must be\nan image or text section.`);\n        }\n        const sections: Array<FormattedSectionExpression> = [];\n        let\n        nextTokenMaybeObject = false;\n        for (let i = 1; i <= args.length - 1; ++i) {\n            const arg = (args[i]:\nany);\n            if (nextTokenMaybeObject && typeof arg === `object` && !Array.isArray(arg)) {\n                nextTokenMaybeObject = false;\n                let scale = null;\n                if (arg[`font-scale`]) {\n                    scale =\n                    context.parse(arg[`font-scale`], 1, NumberType);\n                    if (!scale) return null;\n                }\n                let\n                font = null;\n                if (arg[`text-font`]) {\n                    font = context.parse(arg[`text-font`], 1,\narray(StringType));\n                    if (!font) return null;\n                }\n                let textColor = null;\n                if\n                (arg[`text-color`]) {\n                    textColor = context.parse(arg[`text-color`], 1, ColorType);\n                    if\n                    (!textColor) return null;\n                }\n                const lastExpression = sections[sections.length - 1];\n                lastExpression.scale = scale;\n                lastExpression.font = font;\n                lastExpression.textColor =\n                textColor;\n            } else {\n                const content = context.parse(args[i], 1, ValueType);\n                if (!content)\n                return null;\n                const kind = content.type.kind;\n                if (kind !== 'string' && kind !== 'value' &&\n                kind !== 'null' && kind !== 'resolvedImage')\n                return context.error(`Formatted text type must be 'string',\n'value', 'image' or 'null'.`);\n                nextTokenMaybeObject = true;\n                sections.push({content, scale:\n                null, font: null, textColor: null});\n            }\n        }\n        return new FormatExpression(sections);\n    }\n\n    evaluate(ctx: EvaluationContext) {\n        const evaluateSection = section => {\n            const evaluatedContent =\n            section.content.evaluate(ctx);\n            if (typeof(evaluatedContent) === ResolvedImageType) {\n                return\n                new FormattedSection("", evaluatedContent, null, null, null);\n            }\n            return new FormattedSection(\n                toString(evaluatedContent),\n                null,\n                section.scale ? section.scale.evaluate(ctx) :\n                null,\n                section.font ? section.font.evaluate(ctx).join(',') : null,\n                section.textColor ?\n                section.textColor.evaluate(ctx) : null\n            );\n        };\n        return new\n        Formatted(this.sections.map(evaluateSection));\n    }\n\n    eachChild(fn: (_: Expression) => void) {\n        for (const\n        section of this.sections) {\n            fn(section.content);\n            if (section.scale) {\n                fn(section.scale);\n            }\n            if (section.font) {\n                fn(section.font);\n            }\n            if (section.textColor) {\n                fn(section.textColor);\n            }\n        }\n    }\n\n    outputDefined() {\n        // Technically the combinatoric set of\nall children\n        // Usually, this.text will be undefined anyway\n        return false;\n    }\n\n    serialize() {\n        const serialized = [ `format` ];\n        for (const section of this.sections) {\n            serialized.push(section.content.serialize());\n            const options = { };\n            if (section.scale) {\n                options[ `font-scale` ] = section.scale.serialize();\n            }\n            if (section.font) {\n                options[ `text-font` ] =\n                section.font.serialize();\n            }\n            if (section.textColor) {\n                options[ `text-color` ] =

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

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

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

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this.diacriticSensitive.serialize();\n    if (this.locale) {\n        options['locale'] = this.locale.serialize();\n    }\n    return ["collator\"", options];\n } \n } \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\n * following conditions\n * are met:\n * 1. Redistributions of source code must retain the above copyright\n * notice,\n * this list of conditions and the following disclaimer.\n * 2. Redistributions in binary form must reproduce the above\n * copyright\n * notice, this list of conditions and the following disclaimer in the\n * documentation and/or other\n * materials provided with the distribution.\n *\n * THIS SOFTWARE IS PROVIDED BY APPLE INC. ``AS IS``\n * 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\n * ARE DISCLAIMED. IN NO EVENT SHALL APPLE INC. OR\n * CONTRIBUTORS BE LIABLE FOR ANY\n * DIRECT, INDIRECT, INCIDENTAL, SPECIAL,\n * EXEMPLARY, OR CONSEQUENTIAL DAMAGES\n * (INCLUDING, BUT NOT LIMITED TO,\n * PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;\n * LOSS OF USE, DATA, OR\n * PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON\n * 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\n * SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.\n *\n * Ported from Webkit\n * http://svn.webkit.org/repository/webkit/trunk/Source/WebCore/platform/graphics/UnitBezier.h\n *\n */\n\nmodule.exports = UnitBezier;\n\nfunction UnitBezier(p1x, p1y, p2x, p2y) {\n    // Calculate the polynomial\n    // coefficients, implicit first and last control points are (0,0) and (1,1).\n    this.cx = 3.0 * p1x;\n    this.bx = 3.0 * (p2x -\n    p1x) - this.cx;\n    this.ax = 1.0 - this.cx - this.bx;\n\n    this.cy = 3.0 * p1y;\n    this.by = 3.0 * (p2y - p1y) -\n    this.cy;\n    this.ay = 1.0 - this.cy -\n    this.by;\n\n    this.p1x = p1x;\n    this.p1y = p1y;\n    this.p2x = p2x;\n    this.p2y =\n    p2y;\n\n    UnitBezier.prototype.sampleCurveX = function(t) {\n        // `ax t^3 + bx t^2 + cx t` expanded using\n        // Horner's rule.\n        return ((this.ax * t + this.bx) * t + this.cx) * t;\n    }\n\n    UnitBezier.prototype.sampleCurveY =\n    function(t) {\n        return ((this.ay * t + this.by) * t + this.cy) *\n        t;\n    }\n\n    UnitBezier.prototype.sampleCurveDerivativeX = function(t) {\n        return (3.0 * this.ax * t + 2.0 * this.bx) *\n        t + this.cx;\n    }\n\n    UnitBezier.prototype.solveCurveX = function(x, epsilon) {\n        if (typeof epsilon === 'undefined')\n            epsilon = 1e-6;\n\n        var t0, t1, t2, x2, i;\n\n        // First try a few iterations of Newton's method -- normally very fast.\n        for (t2 = x, i = 0; i < 8; i++) {\n            x2 = this.sampleCurveX(t2) - x;\n            if (Math.abs(x2) < epsilon) return\n            t2;\n\n            var d2 = this.sampleCurveDerivativeX(t2);\n            if (Math.abs(d2) < 1e-6) break;\n            t2 = t2 - x2 /\n            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)\n            return t0;\n        if (t2 > t1)\n            return t1;\n\n        while (t0 < t1) {\n            x2 = this.sampleCurveX(t2);\n            if (Math.abs(x2 - x) < epsilon)\n                return t2;\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\n    UnitBezier.prototype.solve =\n    function(x, epsilon) {\n        return this.sampleCurveY(this.solveCurveX(x, epsilon));\n    }\n}\n\n/**\n * @flow\n */\n\nDeeply 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 <\n        a.length; i++) {\n            if (!deepEqual(a[i], b[i])) return false;\n        }\n        return true;\n    }\n    if (typeof a ===\n    'object' && a !== null && b !== null) {\n        if (typeof b !== 'object') return false;\n        const keys =\n        Object.keys(a);\n        if (keys.length !== Object.keys(b).length) return false;\n        for (const key in a) {\n            if\n            (!deepEqual(a[key], b[key])) return false;\n        }\n        return true;\n    }\n    return a === b;\n}\n\nexport default\n    deepEqual;\n\n @flow\n\nimport UnitBezier from '@mapbox/unitbezier';\nimport Point from '@mapbox/point-geometry';\nimport window from './window';\nimport type { Callback } from '../types/callback';\n\n @module util\n\n @private\n\n/**\n * Given a value `t` that varies between 0 and 1, return\n * an interpolation\n * function that eases between 0 and 1 in a pleasing\n * cubic in-out fashion.\n *\n * @private\n\nexport function\n    easeCubicInOut(t: number): number {\n        if (t <= 0) return 0;\n        if (t >= 1) return 1;\n        const t2 = t * t,\n            t3 =\n            t2 * t;\n        return 4 * (t < 0.5 ? t3 : 3 * (t - t2) + t3 - 0.75);\n    }\n\n/**\n * Given given (x, y), (x1, y1) control points\n * for a bezier curve,\n * return a function that interpolates along that curve.\n *\n * @param p1x control point 1 x\n * coordinate\n * @param p1y control point 1 y coordinate\n * @param p2x control point 2 x coordinate\n * @param

```

```

p2y control point 2 y coordinate\n * @private\n */\nexport function bezier(p1x: number, p1y: number, p2x: number,
p2y: number): (t: number) => number {\n  const bezier = new UnitBezier(p1x, p1y, p2x, p2y);\n  return
function(t: number) {\n    return bezier.solve(t);\n  };\n}\n\n/**\n * A default bezier-curve powered easing
function with\n * control points (0.25, 0.1) and (0.25, 1)\n */\n * @private\n */\nexport const ease = bezier(0.25, 0.1,
0.25, 1);\n\n/**\n * constrain n to the given range via min + max\n */\n * @param n value\n * @param min the
minimum value to be returned\n * @param max the maximum value to be returned\n * @returns the clamped
value\n * @private\n */\nexport function clamp(n: number, min: number, max: number): number {\n  return
Math.min(max, Math.max(min, n));\n}\n\n/**\n * constrain n to the given range, excluding the minimum, via
modular arithmetic\n */\n * @param n value\n * @param min the minimum value to be returned, exclusive\n *
@param max the maximum value to be returned, inclusive\n * @returns constrained number\n * @private\n
*/\nexport function wrap(n: number, min: number, max: number): number {\n  const d = max - min;\n  const w =
((n - min) % d + d) % d + min;\n  return (w === min) ? max : w;\n}\n\n/**\n * Call an asynchronous function on an
array of arguments,\n * calling `callback` with the completed results of all calls.\n */\n * @param array input to each
call of the async function.\n * @param fn an async function with signature (data, callback)\n * @param callback a
callback run after all async work is done.\n * called with an array, containing the results of each async call.\n *
@private\n */\nexport function asyncAll<Item, Result>(\n  array: Array<Item>,\n  fn: (item: Item, fnCallback:
Callback<Result>) => void,\n  callback: Callback<Array<Result>>)\n) {\n  if (!array.length) { return
callback(null, []); }\n  let remaining = array.length;\n  const results = new Array(array.length);\n  let error =
null;\n  array.forEach((item, i) => {\n    fn(item, (err, result) => {\n      if (err) error = err;\n      results[i] =
((result: any): Result); // https://github.com/facebook/flow/issues/2123\n      if (--remaining === 0)\n        callback(error, results);\n    });\n  });\n}\n\n/**\n * Polyfill for Object.values. Not fully spec compliant, but we
don't\n * need it to be.\n */\n * @private\n */\nexport function values<T>(obj: {[key: string]: T}): Array<T> {\n
const result = [];\n  for (const k in obj) {\n    result.push(obj[k]);\n  }\n  return result;\n}\n\n/**\n * Compute
the difference between the keys in one object and the keys\n * in another object.\n */\n * @returns keys difference\n
* @private\n */\nexport function keysDifference<S, T>(obj: {[key: string]: S}, other: {[key: string]: T}):
Array<string> {\n  const difference = [];\n  for (const i in obj) {\n    if (!(i in other)) {\n
difference.push(i);\n    }\n  }\n  return difference;\n}\n\n/**\n * Given a destination object and optionally many
source objects,\n * copy all properties from the source objects into the destination.\n * The last source object given
overrides properties from previous\n * source objects.\n */\n * @param dest destination object\n * @param sources
sources from which properties are pulled\n * @private\n */\nexport function extend(dest: Object, ...sources:
Array<?Object>): Object {\n  for (const src of sources) {\n    for (const k in src) {\n      dest[k] = src[k];\n
}\n  }\n  return dest;\n}\n\n/**\n * Given an object and a number of properties as strings, return version\n * of that
object with only those properties.\n */\n * @param src the object\n * @param properties an array of property names
chosen\n * to appear on the resulting object.\n * @returns object with limited properties.\n * @example\n * var foo
= { name: 'Charlie', age: 10 }; \n * var justName = pick(foo, ['name']); \n * // justName = { name: 'Charlie' } \n *
@private\n */\nexport function pick(src: Object, properties: Array<string>): Object {\n  const result = {};\n  for
(let i = 0; i < properties.length; i++) {\n    const k = properties[i];\n    if (k in src) {\n      result[k] = src[k];\n
}\n  }\n  return result;\n}\n\nlet id = 1;\n\n/**\n * Return a unique numeric id, starting at 1 and incrementing
with\n * each call.\n */\n * @returns unique numeric id.\n * @private\n */\nexport function uniqueId(): number {\n
return id++;\n}\n\n/**\n * Return a random UUID (v4). Taken from: https://gist.github.com/jed/982883\n *
@private\n */\nexport function uuid(): string {\n  function b(a) {\n    return a ? (a ^ Math.random() * 16 >> a /
4).toString(16) :\n    // $FlowFixMe: Flow doesn't like the implied array literal conversion here\n    ([1e7] + -
[1e3] + -4e3 + -8e3 + -1e11).replace(/[018]/g, b);\n  }\n  return b();\n}\n\n/**\n * Validate a string to match
UUID(v4) of the\n * form: xxxxxxxx-xxxx-4xxx-[89ab]xxx-xxxxxxxxxxxx\n * @param str string to validate.\n *
@private\n */\nexport function validateUuid(str: ?string): boolean {\n  return str ? /^[0-9a-f]{8}-[0-9a-f]{4}-[4][0-
9a-f]{3}-[89ab][0-9a-f]{3}-[0-9a-f]{12}$/i.test(str) : false;\n}\n\n/**\n * Given an array of member function names
as strings, replace all of them\n * with bound versions that will always refer to `context` as `this`. This\n * is useful
for classes where otherwise event bindings would reassign\n * `this` to the evented object or some other value: this

```

```

lets you ensure the `this` value always.
@param fns list of member function names
@param context the context value
@example function MyClass() {
  bindAll(['ontimer'], this);
  this.name = 'Tom';
}
MyClass.prototype.ontimer = function() {
  alert(this.name);
};
var myClass = new MyClass();
setTimeout(myClass.ontimer, 100);
@private
^/next export function bindAll(fns: Array<string>, context:
Object): void {
  fns.forEach((fn => {
    if (!context[fn]) { return; }
    context[fn] =
context[fn].bind(context);
  }));
}
^/next Determine if a string ends with a particular substring
@private
^/next export function endsWith(string: string, suffix: string): boolean {
  return string.indexOf(suffix,
string.length - suffix.length) !== -1;
}
^/next Create an object by mapping all the values of an existing object
while preserving their keys.
@private
^/next export function mapObject(input: Object, iterator: Function,
context?: Object): Object {
  const output = {};
  for (const key in input) {
    output[key] =
iterator.call(context || this, input[key], key, input);
  }
  return output;
}
^/next Create an object by filtering
out values of an existing object.
@private
^/next export function filterObject(input: Object, iterator: Function,
context?: Object): Object {
  const output = {};
  for (const key in input) {
    if (iterator.call(context || this,
input[key], key, input)) {
      output[key] = input[key];
    }
  }
  return output;
}
import deepEqual
from './style-spec/util/deep_equal';
export {deepEqual};
^/next Deeply clones two objects.
@private
^/next export function clone<T>(input: T): T {
  if (Array.isArray(input)) {
    return input.map(clone);
  } else
if (typeof input === 'object' && input) {
  return ((mapObject(input, clone): any): T);
} else {
  return
input;
}
}
^/next Check if two arrays have at least one common element.
@private
^/next export
function arraysIntersect<T>(a: Array<T>, b: Array<T>): boolean {
  for (let l = 0; l < a.length; l++) {
    if
(b.indexOf(a[l]) >= 0) return true;
  }
  return false;
}
^/next Print a warning message to the console and
ensure duplicate warning messages are not printed.
@private
^/next const warnOnceHistory: {[key:
string]: boolean} = {};
export function warnOnce(message: string): void {
  if (!warnOnceHistory[message])
{
  // console isn't defined in some WebWorkers, see #2558
  if (typeof console !== 'undefined')
console.warn(message);
  warnOnceHistory[message] = true;
}
}
^/next Indicates if the provided
Points are in a counter clockwise (true) or clockwise (false) order
@private
^/next @returns true for a counter
clockwise set of points
^/next http://bryceboe.com/2006/10/23/line-segment-intersection-algorithm
export
function isCounterClockwise(a: Point, b: Point, c: Point): boolean {
  return (c.y - a.y) * (b.x - a.x) > (b.y - a.y) *
(c.x - a.x);
}
^/next Returns the signed area for the polygon ring. Postive areas are exterior rings and
have a clockwise winding. Negative areas are interior rings and have a counter clockwise
ordering.
@private
^/next @param ring Exterior or interior ring
^/next export function calculateSignedArea(ring: Array<Point>):
number {
  let sum = 0;
  for (let i = 0, len = ring.length, j = len - 1, p1, p2; i < len; j = i++) {
    p1 =
ring[i];
    p2 = ring[j];
    sum += (p2.x - p1.x) * (p1.y + p2.y);
  }
  return sum;
}
^/next Detects
closed polygons, first + last point are equal
@private
^/next @param points array of points
^/next @return true if
the points are a closed polygon
^/next export function isClosedPolygon(points: Array<Point>): boolean {
  // If it is
2 points that are the same then it is a point
  // If it is 3 points with start and end the same then it is a line
  if
(points.length < 4)
return false;
  const p1 = points[0];
  const p2 = points[points.length - 1];
  if
(Math.abs(p1.x - p2.x) > 0 ||
Math.abs(p1.y - p2.y) > 0)
return false;
}
  // polygon
simplification can produce polygons with zero area and more than 3 points
  return
Math.abs(calculateSignedArea(points)) > 0.01;
}
^/next Converts spherical coordinates to cartesian
coordinates.
@private
^/next @param spherical Spherical coordinates, in [radial, azimuthal, polar]
^/next @return
cartesian coordinates in [x, y, z]
^/next export function sphericalToCartesian([r, azimuthal, polar]: [number,
number, number]): {x: number, y: number, z: number} {
  // We abstract "north" ^ "up" (compass-wise) to be 0°
when really this is 90° (/2):
  // correct for that here
  azimuthal += 90;
  // Convert azimuthal and polar
angles to radians
  azimuthal *= Math.PI / 180;
  polar *= Math.PI / 180;
  return {
    x: r *
Math.cos(azimuthal) * Math.sin(polar),
    y: r * Math.sin(azimuthal) * Math.sin(polar),
    z: r *
Math.cos(polar)
  };
}
^/next global self, WorkerGlobalScope
^/next Retuns true if the when run in the web-
worker context.
@private
^/next @returns {boolean}
^/next export function isWorker(): boolean {
  return
typeof WorkerGlobalScope !== 'undefined' && typeof self !== 'undefined' &&
self instanceof

```



```

LngLatBoundsLike.\n * \n * @param {LngLatLike|LngLatBoundsLike} obj object to extend to\n * @returns
{LngLatBounds} `this`\n * \n extend(obj: LngLatLike | LngLatBoundsLike) {\n const sw = this._sw,\n ne = this._ne;\n let sw2, ne2;\n if (obj instanceof LngLat) {\n sw2 = obj;\n ne2 = obj;\n } else if (obj instanceof LngLatBounds) {\n sw2 = obj._sw;\n ne2 = obj._ne;\n if (!sw2 ||
!ne2) return this;\n } else {\n if (Array.isArray(obj)) {\n if (obj.length === 4 ||
obj.every(Array.isArray)) {\n const lngLatBoundsObj = ((obj: any): LngLatBoundsLike);\n
return this.extend(LngLatBounds.convert(lngLatBoundsObj));\n } else {\n const lngLatObj =
((obj: any): LngLatLike);\n return this.extend(LngLat.convert(lngLatObj));\n }\n }\n
return this;\n }\n if (!sw && !ne) {\n this._sw = new LngLat(sw2.lng, sw2.lat);\n this._ne
= new LngLat(ne2.lng, ne2.lat);\n } else {\n sw.lng = Math.min(sw2.lng, sw.lng);\n sw.lat =
Math.min(sw2.lat, sw.lat);\n ne.lng = Math.max(ne2.lng, ne.lng);\n ne.lat = Math.max(ne2.lat,
ne.lat);\n }\n return this;\n }\n\n /**\n * Returns the geographical coordinate equidistant from the
bounding box's corners.\n * \n * @returns {LngLat} The bounding box's center.\n * @example\n * var llb
= new mapboxgl.LngLatBounds([-73.9876, 40.7661], [-73.9397, 40.8002]);\n * llb.getCenter(); // = LngLat {lng:
-73.96365, lat: 40.78315}\n * \n * getCenter(): LngLat {\n return new LngLat((this._sw.lng + this._ne.lng) /
2, (this._sw.lat + this._ne.lat) / 2);\n }\n\n /**\n * Returns the southwest corner of the bounding box.\n * \n
* @returns {LngLat} The southwest corner of the bounding box.\n * \n * getSouthWest(): LngLat { return
this._sw; }\n\n /**\n * Returns the northeast corner of the bounding box.\n * \n * @returns {LngLat} The
northeast corner of the bounding box.\n * \n * getNorthEast(): LngLat { return this._ne; }\n\n /**\n * Returns
the northwest corner of the bounding box.\n * \n * @returns {LngLat} The northwest corner of the bounding
box.\n * \n * getNorthWest(): LngLat { return new LngLat(this.getWest(), this.getNorth()); }\n\n /**\n *
Returns the southeast corner of the bounding box.\n * \n * @returns {LngLat} The southeast corner of the
bounding box.\n * \n * getSouthEast(): LngLat { return new LngLat(this.getEast(), this.getSouth()); }\n\n /**\n
* Returns the west edge of the bounding box.\n * \n * @returns {number} The west edge of the bounding box.\n
* \n * getWest(): number { return this._sw.lng; }\n\n /**\n * Returns the south edge of the bounding box.\n
* \n * @returns {number} The south edge of the bounding box.\n * \n * getSouth(): number { return this._sw.lat;
}\n\n /**\n * Returns the east edge of the bounding box.\n * \n * @returns {number} The east edge of the
bounding box.\n * \n * getEast(): number { return this._ne.lng; }\n\n /**\n * Returns the north edge of the
bounding box.\n * \n * @returns {number} The north edge of the bounding box.\n * \n * getNorth(): number {
return this._ne.lat; }\n\n /**\n * Returns the bounding box represented as an array.\n * \n * @returns
{Array<Array<number>>} The bounding box represented as an array, consisting of the\n * southwest and
northeast coordinates of the bounding represented as arrays of numbers.\n * @example\n * var llb = new
mapboxgl.LngLatBounds([-73.9876, 40.7661], [-73.9397, 40.8002]);\n * llb.toArray(); // = [[-73.9876, 40.7661],
[-73.9397, 40.8002]]\n * \n * toArray() {\n return [this._sw.toArray(), this._ne.toArray()];\n }\n\n /**\n
* Return the bounding box represented as a string.\n * \n * @returns {string} The bounding box represents as a
string of the format\n * `LngLatBounds(LngLat(lng, lat), LngLat(lng, lat))`\n * @example\n * var llb =
new mapboxgl.LngLatBounds([-73.9876, 40.7661], [-73.9397, 40.8002]);\n * llb.toString(); // =
`LngLatBounds(LngLat(-73.9876, 40.7661), LngLat(-73.9397, 40.8002))`\n * \n * toString() {\n return
`LngLatBounds(${this._sw.toString()}, ${this._ne.toString()});\n }\n\n /**\n * Check if the bounding box is
an empty/`null`-type box.\n * \n * @returns {boolean} True if bounds have been defined, otherwise false.\n
* \n * isEmpty() {\n return !(this._sw && this._ne);\n }\n\n /**\n * Check if the point is within the
bounding box.\n * \n * @param {LngLatLike} lnglat geographic point to check against.\n * @returns
{boolean} True if the point is within the bounding box.\n * \n * contains(lnglat: LngLatLike) {\n const {lng,
lat} = LngLat.convert(lnglat);\n const containsLatitude = this._sw.lat <= lat && lat <= this._ne.lat;\n let
containsLongitude = this._sw.lng <= lng && lng <= this._ne.lng;\n if (this._sw.lng > this._ne.lng) { // wrapped
coordinates\n containsLongitude = this._sw.lng >= lng && lng >= this._ne.lng;\n }\n return
containsLatitude && containsLongitude;\n }\n\n /**\n * Converts an array to a `LngLatBounds` object.\n
* \n * If a `LngLatBounds` object is passed in, the function returns it unchanged.\n * \n * Internally, the

```

```

function calls `LngLat#convert` to convert arrays to `LngLat` values.
  * @param {LngLatBoundsLike}
input An array of two coordinates to convert, or a `LngLatBounds` object to return.
  * @returns
{LngLatBounds} A new `LngLatBounds` object, if a conversion occurred, or the original `LngLatBounds` object.
  * @example
  * var arr = [[-73.9876, 40.7661], [-73.9397, 40.8002]];
  * var llb =
mapboxgl.LngLatBounds.convert(arr);
  * llb; // = LngLatBounds { _sw: LngLat { lng: -73.9876, lat: 40.7661 },
_ne: LngLat { lng: -73.9397, lat: 40.8002 } }
  * ^
  * static convert(input: LngLatBoundsLike): LngLatBounds {
  *   if (!input || input instanceof LngLatBounds) return input;
  *   return new LngLatBounds(input);
  * }
}
  * A { @link LngLatBounds } object, an array of { @link LngLatLike } objects in [sw, ne] order,
  * or
  * an array of numbers in [west, south, east, north] order.
  * @typedef {LngLatBounds | [LngLatLike,
LngLatLike] | [number, number, number, number]} LngLatBoundsLike
  * @example
  * var v1 = new
mapboxgl.LngLatBounds(new mapboxgl.LngLat(-73.9876, 40.7661),
  * new mapboxgl.LngLat(-73.9397,
40.8002));
  * var v2 = new mapboxgl.LngLatBounds([-73.9876, 40.7661], [-73.9397, 40.8002]);
  * var v3 =
[[-73.9876, 40.7661], [-73.9397, 40.8002]];
  * ^
  * export type LngLatBoundsLike = LngLatBounds | [LngLatLike,
LngLatLike] | [number, number, number, number];
  * export default LngLatBounds;
  * ,"/>
  * Approximate radius of the earth
in meters.
  * Uses the WGS-84 approximation. The radius at the equator is ~6378137 and at the poles is ~6356752.
https://en.wikipedia.org/wiki/World\_Geodetic\_System#WGS84
  * 6371008.8 is one published "average radius"
see https://en.wikipedia.org/wiki/Earth\_radius#Mean\_radius, or ftp://athena.fsv.cvut.cz/ZFG/grs80-Moritz.pdf
  * 4
  * export const earthRadius = 6371008.8;
  * A `LngLat` object represents a given longitude and
latitude coordinate, measured in degrees.
  * Mapbox GL uses longitude, latitude coordinate order (as opposed
to latitude, longitude) to match GeoJSON.
  * Note that any Mapbox GL method that accepts a `LngLat` object
as an argument or option
  * can also accept an `Array` of two numbers and will perform an implicit conversion.
  * This flexible type is documented as { @link LngLatLike }.
  * @param {number} lng Longitude, measured in
degrees.
  * @param {number} lat Latitude, measured in degrees.
  * @example
  * var ll = new
mapboxgl.LngLat(-73.9749, 40.7736);
  * @see [Get coordinates of the mouse
pointer](https://www.mapbox.com/mapbox-gl-js/example/mouse-position/)
  * @see [Display a
popup](https://www.mapbox.com/mapbox-gl-js/example/popup/)
  * @see [Highlight features within a bounding
box](https://www.mapbox.com/mapbox-gl-js/example/using-box-queryrenderedfeatures/)
  * @see [Create a
timeline animation](https://www.mapbox.com/mapbox-gl-js/example/timeline-animation/)
  * ^
  * class LngLat {
  *   lng: number;
  *   lat: number;
  *   constructor(lng: number, lat: number) {
  *     if (isNaN(lng) || isNaN(lat)) {
  *       throw new Error(`Invalid LngLat object: (${lng}, ${lat})`);
  *     }
  *     this.lng = +lng;
  *     this.lat = +lat;
  *     if (this.lat > 90 || this.lat < -90) {
  *       throw new Error("Invalid LngLat latitude value: must be between -90
and 90");
  *     }
  *   }
  *   /**
  *    * Returns a new `LngLat` object whose longitude is wrapped to the range (-
180, 180).
  *    * @returns {LngLat} The wrapped `LngLat` object.
  *    * @example
  *    * var ll = new
mapboxgl.LngLat(286.0251, 40.7736);
  *    * var wrapped = ll.wrap();
  *    * wrapped.lng; // = -73.9749
  *    * ^
  *    * wrap() {
  *     return new LngLat(wrap(this.lng, -180, 180), this.lat);
  *   }
  *   /**
  *    * Returns the coordinates
represented as an array of two numbers.
  *    * @returns {Array<number>} The coordinates represented as an
array of longitude and latitude.
  *    * @example
  *    * var ll = new mapboxgl.LngLat(-73.9749, 40.7736);
  *    * ll.toArray(); // = [-73.9749, 40.7736]
  *    * ^
  *    * toArray() {
  *     return [this.lng, this.lat];
  *   }
  *   /**
  *    * Returns the coordinates represent
as a string.
  *    * @returns {string} The coordinates represented as a string
of the format `LngLat(lng, lat)`.
  *    * @example
  *    * var ll = new mapboxgl.LngLat(-73.9749, 40.7736);
  *    * ll.toString(); // = "LngLat(-73.9749, 40.7736)"
  *    * ^
  *    * toString() {
  *     return `LngLat(${this.lng},
${this.lat})`;
  *   }
  *   /**
  *    * Returns the approximate distance between a pair of coordinates in meters
  *    * Uses the Haversine Formula (from R.W. Sinnott, "Virtues of the Haversine", Sky and Telescope, vol. 68, no. 2,
1984, p. 159)
  *    * @param {LngLat} lngLat coordinates to compute the distance to
  *    * @returns
{number} Distance in meters between the two coordinates.
  *    * @example
  *    * var new_york = new
mapboxgl.LngLat(-74.0060, 40.7128);
  *    * var los_angeles = new mapboxgl.LngLat(-118.2437, 34.0522);
  *    * new_york.distanceTo(los_angeles); // = 3935751.690893987, "true distance" using a non-spherical approximation

```



```

is ~3966km\n    *\n    distanceTo(lngLat: LngLat) {\n        const rad = Math.PI / 180;\n        const lat1 = this.lat *
rad;\n        const lat2 = lngLat.lat * rad;\n        const a = Math.sin(lat1) * Math.sin(lat2) + Math.cos(lat1) *
Math.cos(lat2) * Math.cos((lngLat.lng - this.lng) * rad);\n        const maxMeters = earthRadius *
Math.acos(Math.min(a, 1));\n        return maxMeters;\n    }\n\n    /**\n     * Returns a `LngLatBounds` from the
coordinates extended by a given `radius`. The returned `LngLatBounds` completely contains the `radius`.\n     *\n     * @param {number} [radius=0] Distance in meters from the coordinates to extend the bounds.\n     * @returns
{LngLatBounds} A new `LngLatBounds` object representing the coordinates extended by the `radius`.\n     *
@example\n     * var ll = new mapboxgl.LngLat(-73.9749, 40.7736);\n     * ll.toBounds(100).toArray(); // = [[-
73.97501862141328, 40.77351016847229], [-73.97478137858673, 40.77368983152771]]\n     *\n     toBounds(radius?: number = 0) {\n        const earthCircumferenceInMetersAtEquator = 40075017;\n        const
latAccuracy = 360 * radius / earthCircumferenceInMetersAtEquator,\n        lngAccuracy = latAccuracy /
Math.cos((Math.PI / 180) * this.lat);\n        return new LngLatBounds(new LngLat(this.lng - lngAccuracy, this.lat
- latAccuracy),\n            new LngLat(this.lng + lngAccuracy, this.lat + latAccuracy));\n    }\n\n    /**\n     * Converts
an array of two numbers or an object with `lng` and `lat` or `lon` and `lat` properties\n     * to a `LngLat` object.\n     *
*\n     * If a `LngLat` object is passed in, the function returns it unchanged.\n     *\n     * @param {LngLatLike}
input An array of two numbers or object to convert, or a `LngLat` object to return.\n     * @returns {LngLat} A new
`LngLat` object, if a conversion occurred, or the original `LngLat` object.\n     * @example\n     * var arr = [-
73.9749, 40.7736];\n     * var ll = mapboxgl.LngLat.convert(arr);\n     * ll; // = LngLat {lng: -73.9749, lat:
40.7736}\n     *\n     static convert(input: LngLatLike): LngLat {\n        if (input instanceof LngLat) {\n            return
input;\n        }\n        if (Array.isArray(input) && (input.length === 2 || input.length === 3)) {\n            return new
LngLat(Number(input[0]), Number(input[1]));\n        }\n        if (!Array.isArray(input) && typeof input === 'object'
&& input !== null) {\n            return new LngLat(\n                // flow can't refine this to have one of lng or lat, so we
have to cast to any\n                Number('lng' in input ? (input: any).lng : (input: any).lon),\n                Number(input.lat)\n            );\n        }\n        throw new Error("`LngLatLike` argument must be specified as a
LngLat instance, an object {lng: <lng>, lat: <lat>}, an object {lon: <lng>, lat: <lat>}, or an array of [<lng>,
<lat>]");\n    }\n\n    /**\n     * A {@link LngLat} object, an array of two numbers representing longitude and
latitude,\n     * or an object with `lng` and `lat` or `lon` and `lat` properties.\n     *\n     * @typedef {LngLat | {lng: number,
lat: number} | {lon: number, lat: number} | [number, number]} LngLatLike\n     * @example\n     * var v1 = new
mapboxgl.LngLat(-122.420679, 37.772537);\n     * var v2 = [-122.420679, 37.772537];\n     * var v3 = {lon: -
122.420679, lat: 37.772537};\n     *\n     export type LngLatLike = LngLat | {lng: number, lat: number} | {lon: number,
lat: number} | [number, number];\n     export default LngLat;\n\n    /**\n     * @flow\n     * import LngLat, {earthRadius} from
'./geo/lng_lat';\n     * import type {LngLatLike} from './geo/lng_lat';\n     *\n     * The average circumference of the world
in meters.\n     *\n     const earthCircumference = 2 * Math.PI * earthRadius; // meters\n     *\n     * The circumference at a
line of latitude in meters.\n     *\n     function circumferenceAtLatitude(latitude: number) {\n        return earthCircumference
* Math.cos(latitude * Math.PI / 180);\n    }\n\n     export function mercatorXfromLng(lng: number) {\n        return (180 +
lng) / 360;\n    }\n\n     export function mercatorYfromLat(lat: number) {\n        return (180 - (180 / Math.PI *
Math.log(Math.tan(Math.PI / 4 + lat * Math.PI / 360)))) / 360;\n    }\n\n     export function
mercatorZfromAltitude(altitude: number, lat: number) {\n        return altitude /
circumferenceAtLatitude(lat);\n    }\n\n     export function lngFromMercatorX(x: number) {\n        return x * 360 -
180;\n    }\n\n     export function latFromMercatorY(y: number) {\n        const y2 = 180 - y * 360;\n        return 360 / Math.PI *
Math.atan(Math.exp(y2 * Math.PI / 180)) - 90;\n    }\n\n     export function altitudeFromMercatorZ(z: number, y: number)
{\n        return z * circumferenceAtLatitude(latFromMercatorY(y));\n    }\n\n    /**\n     * Determine the Mercator scale factor
for a given latitude, see\n     * https://en.wikipedia.org/wiki/Mercator_projection#Scale_factor\n     *\n     * At the equator
the scale factor will be 1, which increases at higher latitudes.\n     *\n     * @param {number} lat Latitude\n     * @returns
{number} scale factor\n     * @private\n     *\n     export function mercatorScale(lat: number) {\n        return 1 / Math.cos(lat *
Math.PI / 180);\n    }\n\n    /**\n     * A `MercatorCoordinate` object represents a projected three dimensional position.\n     *
*\n     * `MercatorCoordinate` uses the web mercator projection ([EPSG:3857](https://epsg.io/3857)) with slightly
different units:\n     * - the size of 1 unit is the width of the projected world instead of the "mercator meter"\n     * - the

```

origin of the coordinate space is at the north-west corner instead of the middle

For example, `MercatorCoordinate(0, 0, 0)` is the north-west corner of the mercator world and `MercatorCoordinate(1, 1, 0)` is the south-east corner. If you are familiar with [vector tiles](https://github.com/mapbox/vector-tile-spec) it may be helpful to think of the coordinate space as the `0/0/0` tile with an extent of `1`. The `z` dimension of `MercatorCoordinate` is conformal. A cube in the mercator coordinate space would be rendered as a cube.

`@param {number} x` The x component of the position.
`@param {number} y` The y component of the position.
`@param {number} z` The z component of the position.

`@example`

```
var nullIsland = new
mapboxgl.MercatorCoordinate(0.5, 0.5, 0);
```

`@see` [Add a custom style layer](https://www.mapbox.com/mapbox-gl-js/example/custom-style-layer/)

```
class MercatorCoordinate {
  x: number;
  y: number;
  z: number;
  constructor(x: number, y: number, z: number = 0) {
    this.x = x;
    this.y = y;
    this.z = z;
  }
  /**
   * Project a `LngLat` to a `MercatorCoordinate`.
   * @param {LngLatLike} lngLatLike The location to project.
   * @param {number} altitude The altitude in meters of the position.
   * @returns {MercatorCoordinate} The projected mercator coordinate.
   * @example
   * var coord = mapboxgl.MercatorCoordinate.fromLngLat({ lng: 0, lat: 0 }, 0);
   * coord;
   * MercatorCoordinate(0.5, 0.5, 0)
   */
  static fromLngLat(lngLatLike: LngLatLike, altitude: number = 0) {
    const lngLat = LngLat.convert(lngLatLike);
    return new MercatorCoordinate(
      mercatorXfromLng(lngLat.lng),
      mercatorYfromLat(lngLat.lat),
      mercatorZfromAltitude(altitude, lngLat.lat));
  }
  /**
   * Returns the `LngLat` for the coordinate.
   * @returns {LngLat} The `LngLat` object.
   * @example
   * var coord = new
  mapboxgl.MercatorCoordinate(0.5, 0.5, 0);
  * var latLng = coord.toLngLat(); // LngLat(0, 0)
  * latLng()
  * return new LngLat(
    lngFromMercatorX(this.x),
    latFromMercatorY(this.y));
  }
  /**
   * Returns the altitude in meters of the coordinate.
   * @returns {number} The altitude in meters.
   * @example
   * var coord = new
  mapboxgl.MercatorCoordinate(0, 0, 0.02);
  * coord.toAltitude(); // 6914.281956295339
  * toAltitude()
  * return altitudeFromMercatorZ(this.z, this.y);
  }
  /**
   * Returns the distance of 1 meter in `MercatorCoordinate` units at this latitude.
   * For coordinates in real world units using meters, this naturally provides the scale
   * to transform into `MercatorCoordinate`'s.
   * @returns {number} Distance of 1 meter in `MercatorCoordinate` units.
   * meterInMercatorCoordinateUnits() // 1 meter / circumference at equator in meters * Mercator projection scale factor at this latitude
   * return 1 / earthCircumference * mercatorScale(latFromMercatorY(this.y));
  }
}
export default
MercatorCoordinate;
```

`@flow`

```
/**
 * The maximum value of a coordinate in the internal tile coordinate system. Coordinates of
 * all source features normalized to this extent upon load.
 * The value is a consequence of the following:
 * * Vertex buffer store positions as signed 16 bit integers.
 * * One bit is lost for signedness to support tile buffers.
 * * One bit is lost because the line vertex buffer used to pack 1 bit of other data into the int.
 * * One bit is lost to support features extending past the extent on the right edge of the tile.
 * This leaves us with 2^13 = 8192
 * @private
 * @readonly
 */
export default 8192;
```

```
@flow
import {isValue} from './values';
import type {Type} from './types';
import {BooleanType} from './types';
import type {Expression} from './expression';
import type ParsingContext from './parsing_context';
import type EvaluationContext from './evaluation_context';
import type {GeoJSON, GeoJSONPolygon, GeoJSONMultiPolygon} from '@mapbox/geojson-types';
import MercatorCoordinate from './../geo/mercator_coordinate';
import EXTENT from './../data/extent';
import Point from '@mapbox/point-geometry';
import type {CanonicalTileID} from './../source/tile_id';
nntype GeoJSONPolygons = |
GeoJSONPolygon | GeoJSONMultiPolygon;
n// minX, minY, maxX, maxY
ntype BBox = [number, number, number, number];
nfunction updateBBox(bbox: BBox, coord: Point) {
  bbox[0] = Math.min(bbox[0], coord[0]);
  bbox[1] = Math.min(bbox[1], coord[1]);
  bbox[2] = Math.max(bbox[2], coord[0]);
  bbox[3] = Math.max(bbox[3], coord[1]);
}
nfunction boxWithinBox(bbox1: BBox, bbox2: BBox) {
  if (bbox1[0] <= bbox2[0]) return false;
  if (bbox1[2] >= bbox2[2]) return false;
  if (bbox1[1] <= bbox2[1]) return false;
  if (bbox1[3] >= bbox2[3]) return false;
  return true;
}
nfunction getTileCoordinates(p, canonical:
```

```

CanonicalTileID) {\n  const coord = MercatorCoordinate.fromLngLat({lng: p[0], lat: p[1]}, 0);\n  const
tilesAtZoom = Math.pow(2, canonical.z);\n  return [Math.round(coord.x * tilesAtZoom * EXTENT),
Math.round(coord.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  if ((x1 * y3 - x3 *
y1) * (x2 * y3 - x3 * y2) < 0) return true;\n  return false;\n}\n\n// a, b are end points for line segment1, c and d are
end points for line segment2\nfunction lineIntersectLine(a, b, c, d) {\n  // check if two segments are parallel or
not\n  // precondition is end point a, b is inside polygon, if line a->b is\n  // parallel to polygon edge c->d, then a-
>b won't intersect with c->d\n  const vectorP = [b[0] - a[0], b[1] - a[1]];\n  const vectorQ = [d[0] - c[0], d[1] -
c[1]];\n  if (perp(vectorQ, vectorP) === 0) return false;\n\n  // If lines are intersecting with each other, the relative
location should be:\n  // a and b lie in different sides of segment c->d\n  // c and d lie in different sides of segment
a->b\n  if (twoSided(a, b, c, d) && twoSided(c, d, a, b)) return true;\n  return false;\n}\n\nfunction
lineIntersectPolygon(p1, p2, polygon) {\n  for (const ring of polygon) {\n    // loop through every edge of the
ring\n    for (let j = 0; j < ring.length - 1; ++j) {\n      if (lineIntersectLine(p1, p2, ring[j], ring[j + 1])) {\n
return true;\n      }\n    }\n  }\n  return false;\n}\n\nfunction lineStringWithinPolygon(line, polygon) {\n
// First, check if geometry points of line segments are all inside polygon\n  for (let i = 0; i < line.length; ++i) {\n
if (!pointWithinPolygon(line[i], polygon)) {\n    return false;\n  }\n }\n\n  // Second, check if there is line
segment intersecting polygon edge\n  for (let i = 0; i < line.length - 1; ++i) {\n    if (lineIntersectPolygon(line[i],
line[i + 1], polygon)) {\n    return false;\n  }\n }\n  return true;\n}\n\nfunction
lineStringWithinPolygons(line, polygons) {\n  for (let i = 0; i < polygons.length; i++) {\n    if
(lineStringWithinPolygon(line, polygons[i])) return true;\n  }\n  return false;\n}\n\nfunction
getTilePolygon(coordinates, bbox, canonical) {\n  const polygon = [];\n  for (let i = 0; i < coordinates.length; i++)
{\n    const ring = [];\n    for (let j = 0; j < coordinates[i].length; j++) {\n      const coord =
getTileCoordinates(coordinates[i][j], canonical);\n      updateBBBox(bbox, coord);\n      ring.push(coord);\n
}\n    polygon.push(ring);\n  }\n  return polygon;\n}\n\nfunction getTilePolygons(coordinates, bbox, canonical)
{\n  const polygons = [];\n  for (let i = 0; i < coordinates.length; i++) {\n    const polygon =
getTilePolygon(coordinates[i], bbox, canonical);\n    polygons.push(polygon);\n  }\n  return
polygons;\n}\n\nfunction pointsWithinPolygons(ctx: EvaluationContext, polygonGeometry: GeoJSONPolygons) {\n
const pointBBBox = [Infinity, Infinity, -Infinity, -Infinity];\n  const polyBBBox = [Infinity, Infinity, -Infinity, -
Infinity];\n  const canonical = ctx.canonicalID();\n  const shifts = [canonical.x * EXTENT, canonical.y *
EXTENT];\n  const tilePoints = [];\n\n  for (const points of ctx.geometry()) {\n    for (const point of points) {\n
const p = [point.x + shifts[0], point.y + shifts[1]];\n    updateBBBox(pointBBBox, p);\n
tilePoints.push(p);\n    }\n  }\n\n  if (polygonGeometry.type === 'Polygon') {\n    const tilePolygon =
getTilePolygon(polygonGeometry.coordinates, polyBBBox, canonical);\n    if (!boxWithinBox(pointBBBox,
polyBBBox)) return false;\n\n    for (const point of tilePoints) {\n      if (!pointWithinPolygon(point,
tilePolygon)) return false;\n    }\n  }\n\n  if (polygonGeometry.type === 'MultiPolygon') {\n    const
tilePolygons = getTilePolygons(polygonGeometry.coordinates, polyBBBox, canonical);\n    if
(!boxWithinBox(pointBBBox, polyBBBox)) return false;\n\n    for (const point of tilePoints) {\n      if

```

```

(!pointWithinPolygons(point, tilePolygons)) return false;\n    }\n    }\n    return true;\n}\n\nfunction
linesWithinPolygons(ctx: EvaluationContext, polygonGeometry: GeoJSONPolygons) {\n    const lineBBox =
[Infinity, Infinity, -Infinity, -Infinity];\n    const polyBBox = [Infinity, Infinity, -Infinity, -Infinity];\n    const
canonical = ctx.canonicalID();\n    const shifts = [canonical.x * EXTENT, canonical.y * EXTENT];\n    const
tileLines = [];\n    for (const line of ctx.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 (polygonGeometry.type === 'Polygon') {\n
        const tilePolygon = getTilePolygon(polygonGeometry.coordinates, polyBBox, canonical);\n        if
(!boxWithinBox(lineBBox, polyBBox)) return false;\n        for (const line of tileLines) {\n            if
(!lineStringWithinPolygon(line, tilePolygon)) return false;\n        }\n    }\n    if (polygonGeometry.type ===
'MultiPolygon') {\n        const tilePolygons = getTilePolygons(polygonGeometry.coordinates, polyBBox,
canonical);\n        if (!boxWithinBox(lineBBox, polyBBox)) return false;\n        for (const line of tileLines) {\n
            if (!lineStringWithinPolygons(line, tilePolygons)) return false;\n        }\n    }\n    return true;\n}\n\n
class
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        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    if (e instanceof Within) {\n        return false;\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) {\n        return false;\n    }\n    let result = true;\n    e.eachChild((arg) => {\n        if (result
&& !isGlobalPropertyConstant(arg, properties)) {\n            result = false;\n        }\n    });\n    return result;\n}\n\nexport
{isFeatureConstant, isGlobalPropertyConstant, isStateConstant};\n", "// @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

```

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Expression {\n  type: Type;\n  name: string;\n  boundExpression: Expression;\n\n  constructor(name: string,\n  boundExpression: Expression) {\n    this.type = boundExpression.type;\n    this.name = name;\n    this.boundExpression = boundExpression;\n  }\n\n  static parse(args: $ReadOnlyArray<mixed>, context:\n  ParsingContext) {\n    if (args.length !== 2 || typeof args[1] !== 'string')\n      return context.error(`var\n  expression requires exactly one string literal argument.`);\n    const name = args[1];\n    if\n  (!context.scope.has(name)) {\n      return context.error(`Unknown variable \"${name}\". Make sure \"${name}\"  
has been bound in an enclosing \"let\" expression before using it.`); }\n    return new Var(name,\n  context.scope.get(name));\n  }\n\n  evaluate(ctx: EvaluationContext) {\n    return\n  this.boundExpression.evaluate(ctx);\n  }\n\n  eachChild() {\n    outputDefined() {\n      return false;\n    }\n\n  serialize() {\n    return [\"var\", this.name];\n  }\n}\n\nexport default Var;\n\n\"\" @flow\nimport Scope from\n  './scope';\nimport {checkSubtype} from './types';\nimport ParsingError from './parsing_error';\nimport Literal from\n  './definitions/literal';\nimport Assertion from './definitions/assertion';\nimport Coercion from\n  './definitions/coercion';\nimport EvaluationContext from './evaluation_context';\nimport CompoundExpression from\n  './compound_expression';\nimport CollatorExpression from './definitions/collator';\nimport Within from\n  './definitions/within';\nimport {isGlobalPropertyConstant, isFeatureConstant} from './is_constant';\nimport Var from\n  './definitions/var';\nimport type {Expression, ExpressionRegistry} from './expression';\nimport type {Type} from\n  './types';\n\n/**\n * State associated parsing at a given point in an expression tree.\n * @private\n */\n\nclass\n  ParsingContext {\n  registry: ExpressionRegistry;\n  path: Array<number>;\n  key: string;\n  scope: Scope;\n  errors: Array<ParsingError>;\n\n  // The expected type of this expression. Provided only to allow Expression\n  // implementations to infer argument types: Expression#parse() need not\n  // check that the output type of the parsed\n  expression matches\n  // `expectedType`. \n  expectedType: ?Type;\n\n  constructor(\n    registry:\n  ExpressionRegistry,\n    path: Array<number> = [],\n    expectedType: ?Type,\n    scope: Scope = new\n  Scope(),\n    errors: Array<ParsingError> = []\n  ) {\n    this.registry = registry;\n    this.path = path;\n    this.key = path.map(part => `_${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\n  index the optional argument index if this expression is an argument of a parent expression that's being parsed\n   * @param\n  options\n   * @param options.omitTypeAnnotations set true to omit inferred type annotations. Caller\n  beware: with this option set, the parsed expression's type will NOT satisfy `expectedType` if it would normally be\n  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' |\n  'coerce' | 'omit'} = {})\n  ): ?Expression {\n    if (index) {\n      return this.concat(index, expectedType,\n  bindings)._parse(expr, options);\n    }\n    return this._parse(expr, options);\n  }\n\n  _parse(expr: mixed,\n  options: {typeAnnotation?: 'assert' | 'coerce' | 'omit'}): ?Expression {\n    if (expr === null || typeof expr ===\n  '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\n  (Array.isArray(expr)) {\n      if (expr.length === 0) {\n        return this.error(`Expected an array with at least\n  one element. If you wanted a literal array, use [\"literal\", []].`);\n      }\n      const op = expr[0];\n      if\n  (typeof op !== 'string') {\n        this.error(`Expression name must be a string, but found ${typeof op} instead. If\n  you wanted a literal array, use [\"literal\", [...]].`, 0);\n        return null;\n      }\n      const Expr =\n  this.registry[op];\n      if (Expr) {\n        let parsed = Expr.parse(expr, this);\n        if (!parsed) return\n  null;\n        if (this.expectedType) {\n          const expected = this.expectedType;\n          const\n  actual = parsed.type;\n          // When we expect a number, string, boolean, or array but have a value, wrap it\n  in an assertion.\n          // When we expect a color or formatted string, but have a string or value, wrap it in a\n  coercion.\n          // Otherwise, we do static type-checking.\n          // These behaviors are\n  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      }\n    }\n  }

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    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                // If an
    expression's arguments are all literals, we can evaluate\n                // it immediately and replace it with a literal value
    in the\n                // parsed/compiled result. Expressions that expect an image should\n                // not be resolved
    here so we can later get the available images.\n                if (!(parsed instanceof Literal) && (parsed.type.kind !==
    'resolvedImage') && isConstant(parsed)) {\n                const ec = new EvaluationContext();\n                try {\n
    parsed = new Literal(parsed.type, parsed.evaluate(ec));\n                } catch (e) {\n
    this.error(e.message);\n                return null;\n                }\n                }\n                return parsed;\n
    }\n\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     * @private\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    export default
    ParsingContext;\n\n    function isConstant(expression: Expression) {\n    if (expression instanceof Var) {\n    return
    isConstant(expression.boundExpression);\n    } else if (expression instanceof CompoundExpression &&
    expression.name === 'error') {\n    return false;\n    } else if (expression instanceof CollatorExpression) {\n    //
    Although the results of a Collator expression with fixed arguments\n    // generally shouldn't change between
    executions, we can't serialize them\n    // as constant expressions because results change based on environment.\n
    return false;\n    } 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\n    \"\", \"// @flow\n\n    import RuntimeError from './runtime_error';\n\n    import type {Expression} from
    './expression';\n\n    export type Stops = Array<[number, Expression]>;\n\n    /**\n     * Returns the index of the last stop <=
    input, or 0 if it doesn't exist.\n     * @private\n     */\n    export function findStopLessThanOrEqualTo(stops:
    Array<number>, input: number) {\n    const lastIndex = stops.length - 1;\n    let lowerIndex = 0;\n    let upperIndex

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= lastIndex;\n  let currentIndex = 0;\n  let currentValue, nextValue;\n\n  while (lowerIndex <= upperIndex) {\n    currentIndex = Math.floor((lowerIndex + upperIndex) / 2);\n    currentValue = stops[currentIndex];\n    nextValue = stops[currentIndex + 1];\n\n    if (currentValue <= input) {\n      if (currentIndex === lastIndex ||\n      input < nextValue) { // Search complete\n        return currentIndex;\n      }\n      lowerIndex =\n      currentIndex + 1;\n    } else if (currentValue > input) {\n      upperIndex = currentIndex - 1;\n    } else {\n      throw new RuntimeError('Input is not a number.);\n    }\n  }\n\n  return 0;\n}\n\n", "// @flow\n\n\nimport\n{NumberType} from './types';\n\nimport {findStopLessThanOrEqualTo} from './stops';\n\nimport type {Stops}\nfrom './stops';\n\nimport type {Expression} from './expression';\n\nimport type ParsingContext from\n './parsing_context';\n\nimport type EvaluationContext from './evaluation_context';\n\nimport type {Type} from\n './types';\n\n\nclass Step implements Expression {\n  type: Type;\n\n  input: Expression;\n  labels:\n  Array<number>;\n  outputs: Array<Expression>;\n\n  constructor(type: Type, input: Expression, stops: Stops) {\n    this.type = type;\n    this.input = input;\n    this.labels = [];\n    this.outputs = [];\n\n    for (const [label,\n    expression] of stops) {\n      this.labels.push(label);\n      this.outputs.push(expression);\n    }\n  }\n\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\n    ((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\n    let outputType: Type = (null: any);\n    if (context.expectedType && context.expectedType.kind !==\n    '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      const labelKey = i;\n      const valueKey = i + 1;\n\n      if (typeof label !== 'number') {\n        return context.error('Input/output pairs\n        for \\\"step\\\" expressions must be defined using literal numeric values (not computed expressions) for the input\n        values.', labelKey);\n      }\n\n      if (stops.length && stops[stops.length - 1][0] >= label) {\n        return\n        context.error('Input/output pairs for \\\"step\\\" expressions must be arranged with input values in strictly ascending\n        order.', labelKey);\n      }\n\n      const parsed = context.parse(value, valueKey, outputType);\n      if\n      (!parsed) return null;\n      outputType = outputType || parsed.type;\n      stops.push([label, parsed]);\n    }\n\n    return new Step(outputType, input, stops);\n  }\n\n  evaluate(ctx: EvaluationContext) {\n    const\n    labels = this.labels;\n    const outputs = this.outputs;\n\n    if (labels.length === 1) {\n      return\n      outputs[0].evaluate(ctx);\n    }\n\n    const value = ((this.input.evaluate(ctx): any): number);\n    if (value <=\n    labels[0]) {\n      return outputs[0].evaluate(ctx);\n    }\n\n    const stopCount = labels.length;\n    if (value\n    >= labels[stopCount - 1]) {\n      return outputs[stopCount - 1].evaluate(ctx);\n    }\n\n    const index =\n    findStopLessThanOrEqualTo(labels, value);\n    return outputs[index].evaluate(ctx);\n  }\n\n  eachChild(fn: (_:\n  Expression) => void) {\n    fn(this.input);\n\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\n    for (let i = 0; i < this.labels.length; i++)\n    {\n      if (i > 0) {\n        serialized.push(this.labels[i]);\n      }\n\n      serialized.push(this.outputs[i].serialize());\n    }\n\n    return serialized;\n  }\n}\n\nexport default Step;\n\n", "//\n\n\n@flow\n\nimport Color from './color';\n\nexport function number(a: number, b: number, t: number) {\n  return (a *\n  (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\n  from.map((d, i) => {\n    return number(d, to[i], t);\n  });\n}\n\n", "// @flow\n\n\nimport Color from\n './color';\n\nimport {number as interpolateNumber} from './interpolate';\n\n\ntype LABColor = {\n  l: number,\n  a: number,\n  b: number,\n  alpha: number\n};\n\n\ntype HCLColor = {\n  h: number,\n  c: number,\n  l: number,\n  alpha: number\n};\n\n\n// Constants\nconst Xn = 0.950470, // D65 standard referent\n      Yn = 1,\n      Zn =\n      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\n// Utilities\nfunction xyz2lab(t: number) {\n  return t > t3 ? Math.pow(t, 1 / 3) : t / t2 +\n  t0;\n}\n\nfunction lab2xyz(t: number) {\n  return t > t1 ? t * t * t : t2 * (t - t0);\n}\n\nfunction xyz2rgb(x: number)

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{\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.alpha\n  };}\n\nfunction labToRgb(labColor: LABColor): Color
{\n  let y = (labColor.l + 16) / 116,\n    x = isNaN(labColor.a) ? y : y + labColor.a / 500,\n    z =
isNaN(labColor.b) ? y : y - labColor.b / 200;\n  y = Yn * lab2xyz(y);\n  x = Xn * lab2xyz(x);\n  z = Zn *
lab2xyz(z);\n  return new Color(\n    xyz2rgb(3.2404542 * x - 1.5371385 * y - 0.4985314 * z), // D65 -> sRGB\n
    xyz2rgb(-0.9692660 * x + 1.8760108 * y + 0.0415560 * z),\n    xyz2rgb(0.0556434 * x - 0.2040259 * y +
1.0572252 * z),\n    labColor.alpha\n  );}\n\nfunction interpolateLab(from: LABColor, to: LABColor, t:
number) {\n  return {\n    l: interpolateNumber(from.l, to.l, t),\n    a: interpolateNumber(from.a, to.a, t),\n
b: interpolateNumber(from.b, to.b, t),\n    alpha: interpolateNumber(from.alpha, to.alpha, t)\n  };}\n\n//
HCL\nfunction rgbToHcl(rgbColor: Color): HCLColor {\n  const {l, a, b} = rgbToLab(rgbColor);\n  const h =
Math.atan2(b, a) * rad2deg;\n  return {\n    h: h < 0 ? h + 360 : h,\n    c: Math.sqrt(a * a + b * b),\n    l,\n
alpha: rgbColor.alpha\n  };}\n\nfunction hclToRgb(hclColor: HCLColor): Color {\n  const h = hclColor.h *
deg2rad,\n    c = hclColor.c,\n    l = hclColor.l;\n  return labToRgb({\n    l,\n    a: Math.cos(h) * c,\n
b: Math.sin(h) * c,\n    alpha: hclColor.alpha\n  });}\n\nfunction interpolateHue(a: number, b: number, t:
number) {\n  const d = b - a;\n  return a + t * (d > 180 || d < -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\nexport const lab = {\n  forward:
rgbToLab,\n  reverse: labToRgb,\n  interpolate: interpolateLab\n};\n\nexport const hcl = {\n  forward:
rgbToHcl,\n  reverse: hclToRgb,\n  interpolate: interpolateHcl\n};\n\n", "// @flow\n\nimport UnitBezier from
'@mapbox/unitbezier';\n\nimport * as interpolate from '../util/interpolate';\n\nimport {toString, NumberType,
ColorType} from './types';\n\nimport {findStopLessThanOrEqualTo} from './stops';\n\nimport {hcl, lab} from
'../util/color_spaces';\n\nimport type {Stops} from './stops';\n\nimport type {Expression} from
'./expression';\n\nimport type ParsingContext from './parsing_context';\n\nimport type EvaluationContext from
'./evaluation_context';\n\nimport type {Type} from './types';\n\nexport type InterpolationType =\n  {\n    name: 'linear'\n  } |
{\n    name: 'exponential', base: number\n  } | {\n    name: 'cubic-bezier', controlPoints: [number, number, number,
number]\n  };\n\nclass Interpolate implements Expression {\n  type: Type;\n\n  operator: 'interpolate' | 'interpolate-
hcl' | 'interpolate-lab';\n  interpolation: InterpolationType;\n  input: Expression;\n  labels: Array<number>;\n
outputs: Array<Expression>;\n\n  constructor(type: Type, operator: 'interpolate' | 'interpolate-hcl' | 'interpolate-lab',
interpolation: InterpolationType, input: Expression, stops: Stops) {\n    this.type = type;\n    this.operator =
operator;\n    this.interpolation = interpolation;\n    this.input = input;\n\n    this.labels = [];\n    this.outputs
= [];\n\n    for (const [label, expression] of stops) {\n      this.labels.push(label);\n
this.outputs.push(expression);\n    }\n  }\n\n  static interpolationFactor(interpolation: InterpolationType, input:
number, lower: number, upper: number) {\n    let t = 0;\n    if (interpolation.name === 'exponential') {\n
t = exponentialInterpolation(input, interpolation.base, lower, upper);\n    } else if (interpolation.name === 'linear')
{\n      t = exponentialInterpolation(input, 1, lower, upper);\n    } else if (interpolation.name === 'cubic-
bezier') {\n      const c = interpolation.controlPoints;\n      const ub = new UnitBezier(c[0], c[1], c[2], c[3]);\n
t = ub.solve(exponentialInterpolation(input, 1, lower, upper));\n    }\n\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

```



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requires a numeric base.`), 1, 1);
    interpolation = {
      name: 'exponential',
      base
    };
  } else if (interpolation[0] === 'cubic-bezier') {
    const controlPoints = interpolation.slice(1);
    if (controlPoints.length !== 4 || controlPoints.some(t => typeof t !== 'number' || t < 0 || t > 1)) {
      return context.error('Cubic bezier interpolation requires four numeric arguments with values between 0 and 1.', 1);
    }
    interpolation = {
      name: 'cubic-bezier',
      controlPoints: (controlPoints: any)
    };
  } else {
    return context.error('Unknown interpolation type ${String(interpolation[0])}`, 1, 0);
  }
  if (args.length - 1 < 4) {
    return context.error('Expected at least 4 arguments, but found only ${args.length - 1}.');
  }
  if ((args.length - 1) % 2 !== 0) {
    return context.error('Expected an even number of arguments.');
```

input = context.parse(input, 2, NumberType);
 if (!input) return null;
 const stops: Stops = [];
 let outputType: Type = (null: any);
 if (operator === 'interpolate-hcl' || operator === 'interpolate-lab') {
 outputType = ColorType;
 } else if (context.expectedType && context.expectedType.kind !== 'value') {
 outputType = context.expectedType;
 }
 for (let i = 0; i < rest.length; i += 2) {
 const label = rest[i];
 const value = rest[i + 1];
 const labelKey = i + 3;
 const valueKey = i + 4;
 if (typeof label !== 'number') {
 return context.error('Input/output pairs for "interpolate" expressions must be defined using literal numeric values (not computed expressions) for the input values.', labelKey);
 }
 if (stops.length && stops[stops.length - 1][0] >= label) {
 return context.error('Input/output pairs for "interpolate" expressions must be arranged with input values in strictly ascending order.', labelKey);
 }
 const parsed = context.parse(value, valueKey, outputType);
 if (!parsed) return null;
 outputType = outputType || parsed.type;
 stops.push([label, parsed]);
 if (outputType.kind !== 'number' && outputType.kind !== 'color' && !(outputType.kind === 'array' && outputType.itemType.kind === 'number' && typeof outputType.N === 'number')) {
 return context.error(`Type \${toString(outputType)} is not interpolatable.`);
 }
 return new Interpolate(outputType, {operator: any}, interpolation, input, stops);
 }
 evaluate(ctx: EvaluationContext) {
 const labels = this.labels;
 const outputs = this.outputs;
 if (labels.length === 1) {
 return outputs[0].evaluate(ctx);
 }
 const value = ((this.input.evaluate(ctx): any): number);
 if (value <= labels[0]) {
 return outputs[0].evaluate(ctx);
 }
 const stopCount = labels.length;
 if (value >= labels[stopCount - 1]) {
 return outputs[stopCount - 1].evaluate(ctx);
 }
 const index = findStopLessThanOrEqualTo(labels, value);
 const lower = labels[index];
 const upper = labels[index + 1];
 const t = Interpolate.interpolationFactor(this.interpolation, value, lower, upper);
 const outputLower = outputs[index].evaluate(ctx);
 const outputUpper = outputs[index + 1].evaluate(ctx);
 if (this.operator === 'interpolate') {
 return (interpolate[this.type.kind.toLowerCase()]: any)(outputLower, outputUpper, t);
 } else if (this.operator === 'interpolate-hcl') {
 return hcl.reverse(hcl.interpolate(hcl.forward(outputLower), hcl.forward(outputUpper), t));
 } else {
 return lab.reverse(lab.interpolate(lab.forward(outputLower), lab.forward(outputUpper), t));
 }
 }
 eachChild(fn: (_: Expression) => void) {
 fn(this.input);
 for (const expression of this.outputs) {
 fn(expression);
 }
 }
 outputDefined(): boolean {
 return this.outputs.every(out => out.outputDefined());
 }
 serialize(): Array<mixed> {
 let interpolation;
 if (this.interpolation.name === 'linear') {
 interpolation = ["linear"];
 } else if (this.interpolation.name === 'exponential') {
 if (this.interpolation.base === 1) {
 interpolation = ["linear"];
 } else {
 interpolation = ["exponential", this.interpolation.base];
 }
 } else {
 interpolation = ["cubic-bezier", ...this.interpolation.controlPoints];
 }
 const serialized = [this.operator, interpolation, this.input.serialize()];
 for (let i = 0; i < this.labels.length; i++) {
 serialized.push(this.labels[i], this.outputs[i].serialize());
 }
 return serialized;
 }
 }
}

Returns a ratio that can be used to interpolate between exponential function $f(x) = a \cdot \text{base}^x + b$, where `base` is the user-specified base and `a` and `b` are constants affording sufficient degrees of freedom to fit the function to the given stops. Here's a bit of algebra that lets us compute $f(x)$ directly

from the stop values without explicitly solving for a and b :

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

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

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

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

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

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

```

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

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

export default Coalesce;
" //
@flow
import type {Type} from './types';
import type {Expression} from './expression';
import type
ParsingContext from './parsing_context';
import type EvaluationContext from
'./evaluation_context';
class Let
implements Expression {
  type: Type;
  bindings: Array<[string, Expression]>;
  result: Expression;
  constructor(bindings: Array<[string, Expression]>, result: Expression) {
    this.type = result.type;
    this.bindings = [].concat(bindings);
    this.result = result;
  }
  evaluate(ctx: EvaluationContext) {
    return this.result.evaluate(ctx);
  }
  eachChild(fn: (_: Expression) => void) {
    for (const binding of
this.bindings) {
      fn(binding[1]);
    }
    fn(this.result);
  }
  static parse(args:
$ReadOnlyArray<mixed>, context: ParsingContext) {
    if (args.length < 4)
return

```

```

context.error(`Expected at least 3 arguments, but found ${args.length - 1} instead.`);\n\n    const bindings:
Array<[string, Expression]> = [];\n    for (let i = 1; i < args.length - 1; i += 2) {\n        const name = args[i];\n        if (typeof name !== 'string') {\n            return context.error(`Expected string, but found ${typeof name}
instead.`); }\n        if (/^[^a-zA-Z0-9_]/.test(name)) {\n            return context.error(`Variable names
must contain only alphanumeric characters or '_'`); }\n        const value = context.parse(args[i + 1], i
+ 1);\n        if (!value) return null;\n        bindings.push([name, value]);\n    }\n    const result =
context.parse(args[args.length - 1], args.length - 1, context.expectedType, bindings);\n    if (!result) return
null;\n    return new Let(bindings, result);\n}\n\noutputDefined() {\n    return
this.result.outputDefined();\n}\n\nserialize() {\n    const serialized = ["let";\n        for (const [name, expr]
of this.bindings) {\n            serialized.push(name, expr.serialize());\n        }\n        serialized.push(this.result.serialize());\n    }\n    return serialized;\n}\n}\n\nexport default Let;\n", "// @flow\n\nimport
{array, ValueType, NumberType} from './types';\n\nimport RuntimeError from './runtime_error';\n\nimport type
{Expression} from './expression';\n\nimport type ParsingContext from './parsing_context';\n\nimport type
EvaluationContext from './evaluation_context';\n\nimport type {Type, ArrayType} from './types';\n\nimport type
{Value} from './values';\n\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        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
{ValueType, BooleanType, toString} from './types';\n\nimport RuntimeError from './runtime_error';\n\nimport
{typeof} from './values';\n\nimport type {Expression} from './expression';\n\nimport type ParsingContext from
'./parsing_context';\n\nimport type EvaluationContext from './evaluation_context';\n\nimport type {Type} from
'./types';\n\nimport type {Value} from './values';\n\nfunction isComparableType(type: Type) {\n    return type.kind
=== 'boolean' ||\n        type.kind === 'string' ||\n        type.kind === 'number' ||\n        type.kind === 'null' ||\n
type.kind === 'value';\n}\n\nfunction isComparableRuntimeValue(needle: boolean | string | number | null) {\n
return typeof needle === 'boolean' ||\n        typeof needle === 'string' ||\n        typeof needle ===
'number';\n}\n\nfunction isSearchableRuntimeValue(haystack: Array<Value> | string) {\n    return
Array.isArray(haystack) ||\n        typeof haystack === 'string';\n}\n\nclass In implements Expression {\n    type:
Type;\n    needle: Expression;\n    haystack: Expression;\n\n    constructor(needle: Expression, haystack: Expression)
{\n        this.type = BooleanType;\n        this.needle = needle;\n        this.haystack = haystack;\n    }\n\n    static
parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n        if (args.length !== 3) {\n            return
context.error(`Expected 2 arguments, but found ${args.length - 1} instead.`);\n        }\n\n        const needle =
context.parse(args[1], 1, ValueType);\n        const haystack = context.parse(args[2], 2, ValueType);\n        if
(!needle || !haystack) return null;\n\n        if (!isComparableType(needle.type)) {\n            return
context.error(`Expected first argument to be of type boolean, string, number or null, but found
${toString(needle.type)} instead`);\n        }\n\n        return new In(needle, haystack);\n    }\n\n    evaluate(ctx:
EvaluationContext) {\n        const needle = (this.needle.evaluate(ctx): any);\n        const haystack =
(this.haystack.evaluate(ctx): any);\n        if (needle == null || !haystack) return false;\n        if

```

```

(isComparableRuntimeValue(needle)) {\n      throw new RuntimeError(`Expected first argument to be of type
boolean, string or number, but found ${toString(typeOf(needle))} instead.`);\n    }\n\n    if
(isSearchableRuntimeValue(haystack)) {\n      throw new RuntimeError(`Expected second argument to be of
type array or string, but found ${toString(typeOf(haystack))} instead.`);\n    }\n\n    return
haystack.indexOf(needle) >= 0;\n  }\n\n  eachChild(fn: (_: Expression) => void) {\n    fn(this.needle);\n
fn(this.haystack);\n  }\n\n  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 assert from
'assert';\n\nimport {typeOf} from './values';\n\nimport {ValueType, type Type} from './types';\n\nimport type
{Expression} from './expression';\n\nimport type ParsingContext from './parsing_context';\n\nimport type
EvaluationContext from './evaluation_context';\n\n// Map input label values to output expression index\ntype Cases
= {[number | string]: number};\n\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\n    if (context.expectedType && context.expectedType.kind !== 'value') {\n      outputType =
context.expectedType;\n    }\n\n    const cases = {};\n    const outputs = [];\n\n    for (let i = 2; i < args.length -
1; i += 2) {\n      let labels = args[i];\n      const value = args[i + 1];\n\n      if (!Array.isArray(labels)) {\n
labels = [labels];\n      }\n\n      const labelContext = context.concat(i);\n      if (labels.length ===
0) {\n        return labelContext.error(`Expected at least one branch label.`);\n      }\n\n      for (const label
of labels) {\n        if (typeof label !== 'number' && typeof label !== 'string') {\n          return
labelContext.error(`Branch labels must be numbers or strings.`);\n        } else if (typeof label === 'number' &&
Math.abs(label) > Number.MAX_SAFE_INTEGER) {\n          return labelContext.error(`Branch labels must
be integers no larger than ${Number.MAX_SAFE_INTEGER}.`);\n        } else if (typeof label === 'number'
&& Math.floor(label) !== label) {\n          return labelContext.error(`Numeric branch labels must be integer
values.`);\n        } else if (!inputType) {\n          inputType = typeOf(label);\n        } else if
(labelContext.checkSubtype(inputType, typeOf(label))) {\n          return null;\n        }\n\n        if
(typeof cases[String(label)] !== 'undefined') {\n          return labelContext.error(`Branch labels must be
unique.`);\n        }\n\n        cases[String(label)] = outputs.length;\n      }\n\n      const result =
context.parse(value, i, outputType);\n      if (!result) return null;\n      outputType = outputType ||
result.type;\n      outputs.push(result);\n    }\n\n    const input = context.parse(args[1], 1, ValueType);\n
if (!input) return null;\n\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} = {};\n    // lookup index into groupedByOutput for a given output

```

```

expression\n      for (const label of sortedLabels) {\n          const outputIndex = outputLookup[this.cases[label]];\n          if (outputIndex === undefined) {\n              // First time seeing this output, add it to the end of the grouped\n              list\n              outputLookup[this.cases[label]] = groupedByOutput.length;\n              groupedByOutput.push([this.cases[label], [label]]);\n          } else {\n              // We've seen this expression before,\n              add the label to that output's group\n              groupedByOutput[outputIndex][1].push(label);\n          }\n          const coerceLabel = (label) => this.inputType.kind === 'number' ? Number(label) : label;\n          for (const [outputIndex, labels] of groupedByOutput) {\n              if (labels.length === 1) {\n                  // Only a single label\n                  matches this output expression\n                  serialized.push(coerceLabel(labels[0]));\n              } else {\n                  //\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}\n\nexport default Match;\n", "//\n@flow\n\nimport assert from 'assert';\nimport { BooleanType } from './types';\nimport type { Expression } from './expression';\nimport type ParsingContext from './parsing_context';\nimport type EvaluationContext from './evaluation_context';\nimport type { Type } from './types';\n\nexport type Branches = Array<[Expression, Expression]>;\n\nexport class Case implements Expression {\n  type: Type;\n  branches: Branches;\n  otherwise: Expression;\n\n  constructor(type: Type, branches: Branches, otherwise: Expression) {\n    this.type = type;\n    this.branches = branches;\n    this.otherwise = otherwise;\n  }\n\n  static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n    if (args.length < 4)\n      return context.error('Expected at least 3 arguments, but found only ${args.length - 1}.');\n    if (args.length % 2 !== 0)\n      return context.error('Expected an odd number of arguments.');\n    let outputType: ?Type;\n    if (context.expectedType && context.expectedType.kind !== 'value') {\n      outputType = context.expectedType;\n    }\n    const branches = [];\n    for (let i = 1; i < args.length - 1; i += 2) {\n      const test = context.parse(args[i], i, BooleanType);\n      if (!test) return null;\n      const result = context.parse(args[i + 1], i + 1, outputType);\n      if (!result) return null;\n      branches.push([test, result]);\n      outputType = outputType || result.type;\n    }\n    const otherwise = context.parse(args[args.length - 1], args.length - 1, outputType);\n    if (!otherwise) return null;\n    assert(outputType);\n    return new Case((outputType: any), branches, otherwise);\n  }\n\n  evaluate(ctx: EvaluationContext) {\n    for (const [test, expression] of this.branches) {\n      if (test.evaluate(ctx)) {\n        return expression.evaluate(ctx);\n      }\n    }\n    return this.otherwise.evaluate(ctx);\n  }\n\n  eachChild(fn: (_: Expression) => void) {\n    for (const [test, expression] of this.branches) {\n      fn(test);\n      fn(expression);\n    }\n    fn(this.otherwise);\n  }\n\n  outputDefined(): boolean {\n    return this.branches.every(([_ , out]) => out.outputDefined()) && this.otherwise.outputDefined();\n  }\n\n  serialize() {\n    const serialized = ["case"];\n    this.eachChild(child => { serialized.push(child.serialize()); });\n    return serialized;\n  }\n}\n\nexport default Case;\n", "//\n@flow\n\nimport { toString, ValueType, BooleanType, CollatorType } from './types';\nimport Assertion from './assertion';\nimport { typeOf } from './values';\nimport RuntimeError from './runtime_error';\nimport type { Expression } from './expression';\nimport type EvaluationContext from './evaluation_context';\nimport type ParsingContext from './parsing_context';\nimport type { Type } from './types';\n\nexport type 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 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:
$ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n    if (args.length !== 3 && args.length
!== 4)\n      return context.error(`Expected two or three arguments.`);\n\n    const op:
ComparisonOperator = (args[0]: any);\n\n    let lhs = context.parse(args[1], 1, ValueType);\n\n    if (!lhs)
return null;\n\n    if (!isComparableType(op, lhs.type)) {\n      return context.concat(1).error(`"${op}"
comparisons are not supported for type '${toString(lhs.type)}'.`);\n    }\n\n    let rhs = context.parse(args[2],
2, ValueType);\n\n    if (!rhs) return null;\n\n    if (!isComparableType(op, rhs.type)) {\n      return
context.concat(2).error(`"${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 '${toString(rhs.type)}'.`);\n    }\n\n    if (isOrderComparison) {\n      // typing rules specific to
less/greater than operators\n      if (lhs.type.kind === 'value' && rhs.type.kind !== 'value') {\n        //
(value, T)\n        lhs = new Assertion(rhs.type, [lhs]);\n      } else if (lhs.type.kind !== 'value' &&
rhs.type.kind === 'value') {\n        // (T, value)\n        rhs = new Assertion(lhs.type, [rhs]);\n      }\n
    }\n\n    let collator = null;\n\n    if (args.length === 4) {\n      if ((\n        lhs.type.kind
!== 'string' &&\n        rhs.type.kind !== 'string' &&\n        lhs.type.kind !== 'value' &&\n
rhs.type.kind !== 'value'\n      )) {\n        return context.error(`Cannot use collator to compare non-string
types.`);\n      }\n\n      collator = context.parse(args[3], 3, CollatorType);\n\n      if (!collator) return
null;\n    }\n\n    return new Comparison(lhs, rhs, collator);\n  }\n\n  evaluate(ctx:
EvaluationContext) {\n    const lhs = this.lhs.evaluate(ctx);\n    const rhs = this.rhs.evaluate(ctx);\n\n
if (isOrderComparison && this.hasUntypedArgument) {\n      const lt = typeOf(lhs);\n      const rt =
typeOf(rhs);\n\n      // check that type is string or number, and equal\n      if (lt.kind !== rt.kind || !lt.kind
=== 'string' || lt.kind === 'number')) {\n        throw new RuntimeError(`Expected arguments for "${op}" to
be (string, string) or (number, number), but found (${lt.kind}, ${rt.kind}) instead.`);\n      }\n    }\n\n
if (this.collator && !isOrderComparison && this.hasUntypedArgument) {\n      const lt = typeOf(lhs);\n
      const rt = typeOf(rhs);\n\n      if (lt.kind !== 'string' || rt.kind !== 'string') {\n        return
compareBasic(ctx, lhs, rhs);\n      }\n    }\n\n    return this.collator ?\n
compareWithCollator(ctx, lhs, rhs, this.collator.evaluate(ctx)) :\n    compareBasic(ctx, lhs, rhs);\n  }\n\n
  eachChild(fn: (_: Expression) => void) {\n    fn(this.lhs);\n    fn(this.rhs);\n\n    if (this.collator) {\n
      fn(this.collator);\n    }\n  }\n\n  outputDefined(): boolean {\n    return true;\n  }\n\n  serialize() {\n
    const serialized = [op];\n\n    this.eachChild(child => { serialized.push(child.serialize());
});\n\n    return serialized;\n  }\n};\n\nexport const Equals = makeComparison('==', eq,
eqCollate);\nexport const NotEquals = makeComparison('!=', neq, neqCollate);\nexport const LessThan =
makeComparison('<', lt, ltCollate);\nexport const GreaterThan = makeComparison('>', gt, gtCollate);\nexport const
LessThanOrEqual = makeComparison('<=', lteq, lteqCollate);\nexport const GreaterThanOrEqual =
makeComparison('>=', gteq, gteqCollate);\n"}\n\n// @flow\n\nimport {StringType, NumberType} from
'./types';\n\nimport type {Expression} from './expression';\nimport type EvaluationContext from
'./evaluation_context';\nimport type ParsingContext from './parsing_context';\nimport type {Type} from
'./types';\n\ndeclare var Intl: {\n  NumberFormat: Class<Intl$NumberFormat>;\n};\n\ndeclare class

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

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(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 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] === (v: any).value\n ],\n 'filter-id-===': [\n BooleanType,\n
[ValueType],\n (ctx, [v]) => ctx.id() === (v: any).value\n ],\n 'filter-type-===': [\n BooleanType,\n
[StringType],\n (ctx, [v]) => ctx.geometryType() === (v: any).value\n ],\n 'filter-<': [\n BooleanType,\n
[StringType, ValueType],\n (ctx, [k, v]) => {\n const a = ctx.properties()[k].value;\n
const b = (v: any).value;\n return typeof a === typeof b && a < b;\n }\n ],\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].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].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

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

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'./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: ${parameters.colorSpace}`);\n  }\n\n  let innerFun;\n  let hashedStops;\n  let
categoricalKeyType;\n  if (type === 'exponential') {\n    innerFun = evaluateExponentialFunction;\n  } else if
(type === 'interval') {\n    innerFun = evaluateIntervalFunction;\n  } else if (type === 'categorical') {\n
innerFun = evaluateCategoricalFunction;\n\n    // For categorical functions, generate an Object as a hashmap of
the stops for fast searching\n    hashedStops = Object.create(null);\n    for (const stop of parameters.stops) {\n
hashedStops[stop[0]] = stop[1];\n    }\n\n    // Infer key type based on first stop key-- used to enforce strict
type checking later\n    categoricalKeyType = typeof parameters.stops[0][0];\n\n    } else if (type === 'identity')
{\n    innerFun = evaluateIdentityFunction;\n  } else {\n    throw new Error(`Unknown function type
\"${type}\"`);\n  }\n\n  if (zoomAndFeatureDependent) {\n    const featureFunctions = {};\n    const
zoomStops = [];\n    for (let s = 0; s < parameters.stops.length; s++) {\n      const stop = parameters.stops[s];\n
const zoom = stop[0].zoom;\n      if (featureFunctions[zoom] === undefined) {\n
featureFunctions[zoom] = {\n        zoom,\n        type: parameters.type,\n        property:
parameters.property,\n        default: parameters.default,\n        stops: []\n      };\n
zoomStops.push(zoom);\n      featureFunctions[zoom].stops.push([stop[0].value, stop[1]]);\n
}\n\n    const featureFunctionStops = [];\n    for (const z of zoomStops) {\n
featureFunctionStops.push([featureFunctions[z].zoom, createFunction(featureFunctions[z], propertySpec)]);\n
}\n\n    const interpolationType = {name: 'linear'};\n    return {\n      kind: 'composite',\n
interpolationType,\n      interpolationFactor: Interpolate.interpolationFactor.bind(undefined,
interpolationType),\n      zoomStops: featureFunctionStops.map(s => s[0]),\n      evaluate: ({ zoom },
properties) {\n        return evaluateExponentialFunction({\n          stops: featureFunctionStops,\n
base: parameters.base\n        }, propertySpec, zoom).evaluate(zoom, properties);\n      }\n    };\n  } else
if (zoomDependent) {\n    const interpolationType = type === 'exponential' ?\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
}

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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 * How it works:\n * Two consecutive stop values define
a (scaled and shifted) exponential\n * function `f(x) = a * base^x + b`, where `base` is the user-specified base,\n * and `a` and `b` are constants affording sufficient degrees of freedom to fit\n * the function to the given stops.\n * Here's a bit of algebra that lets us compute `f(x)` directly from the stop\n * values without explicitly solving for `a`
and `b`:\n * 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 * Desired value: `f(x) =
y = a * base^x + b`\n * => `f(x) = y0 + a * (base^x - base^x0)`\n * From the above, we can replace the `a` in `a *
(base^x - base^x0)` and do a\n * little algebra:\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 * 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 * (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 * @private\n */\nfunction interpolationFactor(input, base, lowerValue, upperValue)
{\n  const difference = upperValue - lowerValue;\n  const progress = input - lowerValue;\n\n  if (difference ===
0) {\n    return 0;\n  } else if (base === 1) {\n    return progress / difference;\n  } else {\n    return
(Math.pow(base, progress) - 1) / (Math.pow(base, difference) - 1);\n  }\n}\n\n\"// @flow\n\nimport assert from
'assert';\nimport extend from './util/extend';\nimport ParsingError from './parsing_error';\nimport ParsingContext
from './parsing_context';\nimport EvaluationContext from './evaluation_context';\nimport CompoundExpression
from './compound_expression';\nimport Step from './definitions/step';\nimport Interpolate from
'./definitions/interpolate';\nimport Coalesce from './definitions/coalesce';\nimport Let from './definitions/let';\nimport
definitions from './definitions';\nimport * as isConstant from './is_constant';\nimport RuntimeError from
'./runtime_error';\nimport {success, error} from './util/result';\nimport {supportsPropertyExpression,

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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.');

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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,
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

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be used with this property')));\n  }\n\n  if (!zoomCurve) {\n    return success(isFeatureConstant ?\n      (new\n      ZoomConstantExpression('constant', expression.value): ConstantExpression) :\n      (new\n      ZoomConstantExpression('source', expression.value): SourceExpression));\n  }\n\n  const interpolationType =\n    zoomCurve instanceof Interpolate ? zoomCurve.interpolation : undefined;\n\n  return success(isFeatureConstant\n    ?\n      (new ZoomDependentExpression('camera', expression.value, zoomCurve.labels, interpolationType):\n      CameraExpression) :\n      (new ZoomDependentExpression('composite', expression.value, zoomCurve.labels,\n      interpolationType): CompositeExpression));\n}\n\nimport {isFunction, createFunction} from './function';\nimport\n{Color} from './values';\n\n// serialization wrapper for old-style stop functions normalized to the\n// expression\ninterface\nexport class StylePropertyFunction<T> {\n  _parameters: PropertyValueSpecification<T>;\n  _specification: StylePropertySpecification;\n\n  kind: EvaluationKind;\n  evaluate: (globals: GlobalProperties,\n  feature?: Feature) => any;\n  interpolationFactor: ?(input: number, lower: number, upper: number) => number;\n  zoomStops: ?Array<number>;\n\n  constructor(parameters: PropertyValueSpecification<T>, specification:\n  StylePropertySpecification) {\n    this._parameters = parameters;\n    this._specification = specification;\n\n    extend(this, createFunction(this._parameters, this._specification));\n  }\n\n  static deserialize(serialized:\n  { _parameters: PropertyValueSpecification<T>, _specification: StylePropertySpecification }) {\n    return ((new\n  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:\n  PropertyValueSpecification<T>, specification: StylePropertySpecification): StylePropertyExpression {\n  if\n  (isFunction(value)) {\n    return (new StylePropertyFunction(value, specification): any);\n  }\n  else if\n  (isExpression(value)) {\n    const expression = createPropertyExpression(value, specification);\n    if\n  (expression.result === 'error') {\n      // this should have been caught in validation\n      throw new\n      Error(expression.value.map(err => `${err.key}: ${err.message}`).join(', '));\n    }\n    return\n  expression.value;\n  }\n  else {\n    let constant: any = value;\n    if (typeof value === 'string' &&\n  specification.type === 'color') {\n      constant = Color.parse(value);\n    }\n    return {\n      kind:\n      'constant',\n      evaluate: () => constant\n    }; \n  }\n}\n\n// Zoom-dependent expressions may only use\n["zoom"] as the input to a top-level "step" or "interpolate" expression (collectively referred to as a "curve").\n\nThe curve may be wrapped in one or more "let" or "coalesce" expressions.\n\nfunction\nfindZoomCurve(expression: Expression): Step | Interpolate | ParsingError | null {\n  let result = null;\n  if\n  (expression instanceof Let) {\n    result = findZoomCurve(expression.result);\n  }\n  else if (expression instanceof\n  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  &&\n  expression.input instanceof CompoundExpression &&\n  expression.input.name === 'zoom') {\n    result = expression;\n  }\n  else if (result instanceof ParsingError) {\n    return result;\n  }\n\n  expression.eachChild((child) => {\n    const childResult = findZoomCurve(child);\n    if (childResult instanceof\n  ParsingError) {\n      result = childResult;\n    }\n    else if (!result && childResult) {\n      result = new\n      ParsingError(", \"zoom\" expression may only be used as input to a top-level \"step\" or \"interpolate\" expression.");\n    }\n    else if (result && childResult && result !== childResult) {\n      result = new\n      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,\n  FormattedType, ResolvedImageType, array} from './types';\n\nfunction getExpectedType(spec:\n  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] ||\n  ValueType, spec.length);\n  }\n\n  return types[spec.type];\n}\n\nfunction getDefaultValue(spec:\n  StylePropertySpecification): Value {\n  if (spec.type === 'color' && isFunction(spec.default)) {\n    // Special\n    case for heatmap-color: it uses the 'default:' to define a\n    // default color ramp, but createExpression expects a\n    simple value to fall\n    // back to in case of runtime errors\n    return new Color(0, 0, 0, 0);\n  }\n  else if

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(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 //
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}

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expression.push(convertLiteral(coalesce(parameters.default, propertySpec.default)));
return expression;
}
else if (type === 'interval') {
  const expression = ['step', ['number', get]];
  for (const stop of stops) {
    appendStopPair(expression, stop[0], stop[1], true);
  }
  fixupDegenerateStepCurve(expression);
return parameters.default === undefined ? expression : [
  'case', ['==', ['typeof', get], 'number'],
  expression,
  convertLiteral(parameters.default)];
}
else if (type === 'exponential') {
  const base = parameters.base !== undefined ? parameters.base : 1;
  const expression = [
    getInterpolateOperator(parameters),
    base === 1 ? ['linear'] : ['exponential', base],
    ['number', get]];
  for (const stop of stops) {
    appendStopPair(expression, stop[0], stop[1], false);
  }
  return parameters.default === undefined ? expression : [
    'case', ['==', ['typeof', get], 'number'],
    expression,
    convertLiteral(parameters.default)];
}
else {
  throw new Error(`Unknown property function type ${type}`);
}
}
function convertZoomFunction(parameters, propertySpec, stops, input = ['zoom']) {
  const type = getFunctionType(parameters, propertySpec);
  let expression;
  let isStep = false;
  if (type === 'interval') {
    expression = ['step', input];
    isStep = true;
  }
  else if (type === 'exponential') {
    const base = parameters.base !== undefined ? parameters.base : 1;
    expression = [getInterpolateOperator(parameters), base === 1 ? ['linear'] : ['exponential', base], input];
  }
  else {
    throw new Error(`Unknown zoom function type "${type}"`);
  }
  for (const stop of stops) {
    appendStopPair(expression, stop[0], stop[1], isStep);
  }
  fixupDegenerateStepCurve(expression);
  return expression;
}
function fixupDegenerateStepCurve(expression) {
  // degenerate step curve (i.e. a constant function): add a noop stop
  if (expression[0] === 'step' && expression.length === 3) {
    expression.push(0);
    expression.push(expression[3]);
  }
}
function appendStopPair(curve, input, output, isStep) {
  // Skip duplicate stop values. They were not validated for functions, but they are for expressions.
  if (curve.length > 3 && input === curve[curve.length - 2]) {
    return;
  }
  // step curves don't get the first input value, as it is redundant.
  if (!(isStep && curve.length === 2)) {
    curve.push(input);
    curve.push(output);
  }
}
function getFunctionType(parameters, propertySpec) {
  if (parameters.type) {
    return parameters.type;
  }
  else {
    assert(propertySpec.expression);
    return (propertySpec.expression: any).interpolated ? 'exponential' : 'interval';
  }
}
// "String with {name} token" => ["concat", "String with ", ["get", "name"], "token"]
export function convertTokenString(s: string) {
  const result = ['concat'];
  const re = /{([^\}]+)}/g;
  let pos = 0;
  for (let match = re.exec(s); match !== null; match = re.exec(s)) {
    const literal = s.slice(pos, re.lastIndex - match[0].length);
    pos = re.lastIndex;
    if (literal.length > 0) result.push(literal);
    result.push(['get', match[1]]);
  }
  if (result.length === 1) {
    return s;
  }
  if (pos < s.length) {
    result.push(s.slice(pos));
  }
  else if (result.length === 2) {
    return ['to-string', result[1]];
  }
  return result;
}
// @flow
import { createExpression } from './expression';
import type { GlobalProperties, Feature } from './expression';
import type { CanonicalTileID } from './source/tile_id';
type FilterExpression = (globalProperties: GlobalProperties, feature: Feature, canonical?: CanonicalTileID) => boolean;
export type FeatureFilter = { filter: FilterExpression, needGeometry: boolean };
export default createFilter;
export { isExpressionFilter };
function isExpressionFilter(filter: any) {
  if (filter === true || filter === false) {
    return true;
  }
  if (!Array.isArray(filter) || filter.length === 0) {
    return false;
  }
  switch (filter[0]) {
    case 'has':
      return filter.length >= 2 && filter[1] !== '$id' && filter[1] !== '$type';
    case 'in':
      return filter.length >= 3 && (typeof filter[1] !== 'string' || Array.isArray(filter[2]));
    case '!in':
    case '!has':
    case 'none':
      return false;
    case '==':
    case '!=':
    case '>':
    case '>=':
    case '<':
    case '<=':
      return filter.length !== 3 || (Array.isArray(filter[1]) || Array.isArray(filter[2]));
    case 'any':
    case 'all':
      for (const f of filter.slice(1)) {
        if (!isExpressionFilter(f) && typeof f !== 'boolean') {
          return false;
        }
      }
      return true;
    default:
      return true;
  }
}
const filterSpec = {
  type: 'boolean',
  default: false,
  transition: false,
  property-type: 'data-driven',
  expression: {
    interpolated: false,
    parameters: ['zoom', 'feature']
  }
};
/**
 * Given a filter expressed as nested arrays, return a new function
 * that evaluates whether a given feature (with a .properties or .tags property)

```

```

passes its test.\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\n// @flow\n\nimport {isExpressionFilter} from
'/index';\n\nimport type {FilterSpecification} from './types';\n\nexport type ExpectedTypes = {[_: string]: 'string' | 'number'
| 'boolean'};\n\n/**\n * Convert the given legacy filter to (the JSON representation of) an\n * equivalent
expression\n * @private\n * \nexport default function convertFilter(filter: FilterSpecification): mixed {\n  return
_convertFilter(filter, {});\n}\n\n/**\n * Convert the given filter to an expression, storing the expected types for\n *
any feature properties referenced in expectedTypes.\n * \n * These expected types are needed in order to construct
preflight type checks\n * needed for handling 'any' filters. A preflight type check is necessary in\n * order to mimic
legacy filters' semantics around expected type mismatches.\n * For example, consider the legacy filter:\n * \n *
["any", ["all", [{">": "y", 0}, {">": "y", 0}], [{">": "x", 0}]]\n * \n * Naively, we might convert this to the
expression:\n * \n * ["any", ["all", [{">": "get", "y"}, 0], [{">": "get", "z"}, 0], [{">": "get", "x"},
0]]\n * \n * But if we tried to evaluate this against, say {x: 1, y: null, z: 0}, the\n * [{">": "get", "y"}, 0] would
cause an evaluation error, leading to the\n * entire filter returning false. Legacy filter semantics, though, ask for\n *
[">": "y", 0] to simply return `false` when `y` is of the wrong type,\n * allowing the subsequent terms of the outer
`any` expression to be evaluated\n * (resulting, in this case, in a `true` value, because x > 0).\n * \n * We account
for this by inserting a preflight type-checking expression before\n * each `any` term, allowing us to avoid
evaluating the actual converted filter\n * if any type mismatches would cause it to produce an evaluation error:\n * \n
* ["any",\n *   ["case",\n *     ["all", [{"==": [{"typeof", [{"get", "y"}], "number"}], [{"==": [{"typeof",
[{"get", "z"}, {"number}]}],\n *     ["all", [{">": [{"get", "y"}, 0], [{">": [{"get", "z"}, 0]}],\n *     false\n *
],\n *     ["case",\n *       [{"==": [{"typeof", [{"get", "x"}, {"number"}]}],\n *       [{">": [{"get", "x"}, 0],\n *

```

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

```
ExpectedTypes): mixed {\n  if (isExpressionFilter(filter)) { return filter; }\n  if (!filter) return true;\n  const op = filter[0];\n  if (filter.length <= 1) return (op !== 'any');\n  let converted;\n  if (\n    op === '==' ||\n    op === '!=' ||\n    op === '<' ||\n    op === '>' ||\n    op === '<=' ||\n    op === '>='\n  ) {\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  return converted;\n}\n\n// Given a set of feature properties and an expected type for each one,\n// construct a boolean expression that tests whether each property has the\n// right type.\n// E.g.: for {name: 'string', population: 'number'}, return\n// [ 'all',\n// [ '==', [ 'typeof', [ 'get', 'name'], 'string' ],\n// [ '==', [ 'typeof', [ 'get', 'population'], 'number' ] ]\n// ]\nfunction runtimeTypeChecks(expectedTypes: ExpectedTypes) {\n  const conditions = [];\n  for (const property in expectedTypes) {\n    const get = property === '$id' ? ['id'] : ['get', property];\n    conditions.push(['==', ['typeof', get], expectedTypes[property]]);\n  }\n  if (conditions.length === 0) return true;\n  if (conditions.length === 1) return conditions[0];\n  return ['all'].concat(conditions);\n}\n\nfunction convertComparisonOp(property: string, value: any, op: string, expectedTypes: ?ExpectedTypes) {\n  let get;\n  if (property === '$type') {\n    return [op, ['geometry-type'], value];\n  } else if (property === '$id') {\n    get = ['id'];\n  } else {\n    get = ['get', property];\n  }\n  if (expectedTypes && value !== null) {\n    const type = (typeof value): any;\n    expectedTypes[property] = type;\n  }\n  if (op === '==' && property !== '$id' && value === null) {\n    return [\n      'all',\n      ['has', property], // missing property != null for legacy filters\n      ['==', get, null]\n    ];\n  } else if (op === '!=' && property !== '$id' && value === null) {\n    return [\n      'any',\n      ['!', ['has', property]], // missing property != null for legacy filters\n      ['!=', get, null]\n    ];\n  }\n  return [op, get, value];\n}\n\nfunction convertInOp(property: string, values: Array<any>, negate = false) {\n  if (values.length === 0) return negate;\n  let get;\n  if (property === '$type') {\n    get = ['geometry-type'];\n  } else if (property === '$id') {\n    get = ['id'];\n  } else {\n    get = ['get', property];\n  }\n  // Determine if the list of values to be searched is homogenously typed.\n  // If so (and if the type is string or number), then we can use a\n  // [match, input, [...values], true, false] construction rather than a\n  // bunch of `===` tests.\n  let uniformTypes = true;\n  const type = typeof values[0];\n  for (const value of values) {\n    if (typeof value !== type) {\n      uniformTypes = false;\n      break;\n    }\n  }\n  if (uniformTypes && (type === 'string' || type === 'number')) {\n    // Match expressions must have unique values.\n    const uniqueValues = values.sort().filter((v, i) => i === 0 || values[i - 1] !== v);\n    return ['match', get, uniqueValues, !negate, negate];\n  }\n  return [negate ? 'all' : 'any'].concat(\n    values.map(v => [negate ? '!=' : '==', get, v])\n  );\n}\n\nfunction convertHasOp(property: string) {\n  if (property === '$type') {\n    return true;\n  } else if (property === '$id') {\n    return ['!=', ['id'], null];\n  } else {\n    return ['has', property];\n  }\n}\n\n\"// @flow\nimport {\n  eachLayer,\n  eachProperty\n} from './visit';\nimport {isExpression} from './expression';\nimport convertFunction, {convertTokenString} from './function/convert';\nimport convertFilter from './feature_filter/convert';\nimport type {StyleSpecification} from './types';\n\n * Migrate the given style
```

```

object in place to use expressions. Specifically,
 * this will convert (a) "stop" functions, and (b) legacy filters to
their
 * expression equivalents.
 * export default function(style: StyleSpecification) {
  const converted =
  [];
  eachLayer(style, (layer) => {
    if (layer.filter) {
      layer.filter = (convertFilter(layer.filter):
any);
    }
  });
  eachProperty(style, {paint: true, layout: true}, ({path, value, reference, set}) => {
    if
(isExpression(value)) return;
    if (typeof value === 'object' && !Array.isArray(value)) {
      set(convertFunction(value, reference));
      converted.push(path.join('.'));
    } else if (reference.tokens &&
typeof value === 'string') {
      set(convertTokenString(value));
    }
  });
  return
style;
}
",
"
import migrateToV8 from './migrate/v8';
import migrateToExpressions from
 './migrate/expressions';
 *
 * Migrate a Mapbox GL Style to the latest version.
 *
 * @private
 * @alias
migrate
 * @param {object} style a Mapbox GL Style
 * @returns {Object} a migrated style
 * @example
 *
var fs = require('fs');
 *
var migrate = require('mapbox-gl-style-spec').migrate;
 *
var style =
fs.readFileSync('./style.json', 'utf8');
 *
fs.writeFileSync('./style.json', JSON.stringify(migrate(style)));
 *
 * export
default function(style) {
  let migrated = false;
  if (style.version === 7) {
    style = migrateToV8(style);
    migrated = true;
  }
  if (style.version === 8) {
    migrated = migrateToExpressions(style);
    migrated = true;
  }
  if (!migrated) {
    throw new Error('cannot migrate from', style.version);
  }
  return style;
}
",
"
 * export default function (style) {
  const styleIDs = [];
  const sourceIDs = [];
  const
  compositedSourceLayers = [];
  for (const id in style.sources) {
    const source = style.sources[id];
    if (source.type !== "vector")
      continue;
    const match = /^mapbox:\/\(.*\).exec(source.url);
    if (!match)
      continue;
    styleIDs.push(id);
    sourceIDs.push(match[1]);
  }
  if
(styleIDs.length < 2)
  return style;
  styleIDs.forEach((id) => {
    delete style.sources[id];
  });
  const compositeID = sourceIDs.join(",");
  style.sources[compositeID] = {
    "type": "vector",
    "url": `mapbox:\/\${compositeID}`
  };
  style.layers.forEach((layer) => {
    if
(styleIDs.indexOf(layer.source) >= 0) {
      layer.source = compositeID;
      if ('source-layer' in layer) {
        if (compositedSourceLayers.indexOf(layer['source-layer']) >= 0) {
          throw new
Error('Conflicting source layer names');
        } else {
          compositedSourceLayers.push(layer['source-layer']);
        }
      }
    }
  });
  return
style;
}
",
"
 * export default ['type', 'source', 'source-layer', 'minzoom', 'maxzoom', 'filter', 'layout'];
 *
 * import
refProperties from './util/ref_properties';
 *
function deref(layer, parent) {
  const result = {};
  for (const k in
layer) {
    if (k !== 'ref') {
      result[k] = layer[k];
    }
  }
  refProperties.forEach((k) => {
    if (k in parent) {
      result[k] = parent[k];
    }
  });
  return result;
}
 *
 * export default
derefLayers;
 *
 * Given an array of layers, some of which may contain `ref` properties
 * whose value is the
`id` of another property, return a new array where
 * such layers have been augmented with the 'type', 'source', etc.
properties
 * from the parent layer, and the `ref` property has been removed.
 *
 * The input is not modified. The
output may contain references to portions
 * of the input.
 *
 * @private
 * @param {Array<Layer>} layers
 *
 * @returns {Array<Layer>}
 *
function derefLayers(layers) {
  layers = layers.slice();
  const map =
Object.create(null);
  for (let i = 0; i < layers.length; i++) {
    map[layers[i].id] = layers[i];
  }
  for (let i
= 0; i < layers.length; i++) {
    if ('ref' in layers[i]) {
      layers[i] = deref(layers[i], map[layers[i].ref]);
    }
  }
  return layers;
}
",
"
 * import isEqual from './util/deep_equal';
 *
const operations = {
  /*
 * {
command: 'setStyle', args: [stylesheet]
 * }
 *
 * {
command: 'addLayer', args:
[layer, 'beforeLayerId']
 * }
 *
 * {
command: 'removeLayer', args:
[layerId]
 * }
 *
 * {
command: 'setPaintProperty', args: [layerId,
'prop', value]
 * }
 *
 * {
command: 'setLayoutProperty', args:
[layerId, 'prop', value]
 * }
 *
 * {
command: 'setFilter',
args: [layerId, filter]
 * }
 *
 * {
command: 'addSource', args: ['sourceId',
source]
 * }
 *
 * {
command: 'removeSource', args: ['sourceId']
 * }
 *
 * {
command: 'setGeoJSONSourceData', args: ['sourceId', data]
 * }
 *
 * {
command: 'setLayerZoomRange', args:
[layerId, 0, 22]
 * }
 *
 * {
command:
setLayerZoomRange: 'setLayerZoomRange',
 * }
 *
 * {
command:

```

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

```



```

operations.setGlyphs, args: [after.glyphs]);\n    }\n    if (!isEqual(before.transition, after.transition)) {\n
commands.push({command: operations.setTransition, args: [after.transition]});\n    }\n    if
(isEqual(before.light, after.light)) {\n        commands.push({command: operations.setLight, args:
[after.light]});\n    }\n\n    // Handle changes to `sources`\n    // If a source is to be removed, we also--before
the removeSource\n    // command--need to remove all the style layers that depend on it.\n    const
sourcesRemoved = {};\n    // First collect the {add,remove}Source commands\n    const
removeOrAddSourceCommands = [];\n    diffSources(before.sources, after.sources,
removeOrAddSourceCommands, sourcesRemoved);\n\n    // Push a removeLayer command for each style layer
that depends on a\n    // source that's being removed.\n    // Also, exclude any such layers them from the input to
`diffLayers`\n    // below, so that diffLayers produces the appropriate `addLayers`\n    // command\n    const
beforeLayers = [];\n    if (before.layers) {\n        before.layers.forEach((layer) => {\n            if
(sourcesRemoved[layer.source]) {\n                commands.push({command: operations.removeLayer, args:
[layer.id]});\n            } else {\n                beforeLayers.push(layer);\n            }\n        });\n    }\n    commands = commands.concat(removeOrAddSourceCommands);\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.\nexport default class ValidationError {\n
message: string;\n identifier: ?string;\n line: ?number;\n\n constructor(key: ?string, value: ?{ __line__: number
}, message: string, identifier: ?string) {\n    this.message = (key ? `${key}: ` : '') + message;\n    if (identifier)
this.identifier = identifier;\n\n    if (value !== null && value !== undefined && value.__line__) {\n
this.line = value.__line__;\n    }\n }\n}\n\n", "@flow\n\n// Note: Do not inherit from Error. It breaks when
transpiling to ES5.\nexport default class ParsingError {\n message: string;\n error: Error;\n line: number;\n\n
constructor(error: Error) {\n    this.error = error;\n    this.message = error.message;\n    const match =
error.message.match(/line (\\d+)/);\n    this.line = match ? parseInt(match[1], 10) : 0;\n }\n}\n\n", "\nimport
ValidationError from './error/validation_error';\n\nexport default function validateConstants(options) {\n const
key = options.key;\n const constants = options.value;\n\n if (constants) {\n    return [new ValidationError(key,
constants, 'constants have been deprecated as of v8')];\n  } else {\n    return [];\n  }\n}\n\n", "@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\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({
  key: (key ? `${key}` : key) + objectKey,
  value:
  object[objectKey],
  valueSpec: elementSpec,
  style,
  styleSpec,
  object,
  objectKey
}, object));
for (const elementSpecKey in elementSpecs) {
  // Don't check
  `required` when there's a custom validator for that property.
  if (elementValidators[elementSpecKey]) {
    continue;
  }
  if (elementSpecs[elementSpecKey].required &&
  elementSpecs[elementSpecKey]['default'] === undefined &&
  object[elementSpecKey] === undefined) {
    errors.push(new ValidationError(key, object, `missing required property \`${elementSpecKey}\``));
  }
  return errors;
}
import getType from './util/get_type';
import validate from './validate';
import ValidationError from './error/validation_error';
export default function validateArray(options) {
  const array =
  options.value;
  const arraySpec = options.valueSpec;
  const style = options.style;
  const styleSpec =
  options.styleSpec;
  const key = options.key;
  const validateArrayElement = options.arrayElementValidator ||
  validate;
  if (getType(array) !== 'array') {
    return [new ValidationError(key, array, `array expected,
  ${getType(array)} found`)];
  }
  if (arraySpec.length && array.length !== arraySpec.length) {
    return
  [new ValidationError(key, array, `array length ${arraySpec.length} expected, length ${array.length} found`)];
  }
  if (arraySpec['min-length'] && array.length < arraySpec['min-length']) {
    return [new
  ValidationError(key, array, `array length at least ${arraySpec['min-length']} expected, length ${array.length}
  found`)];
  }
  let arrayElementSpec = {
    `type`: arraySpec.value,
    `values`: arraySpec.values
  };
  if (styleSpec.$version < 7) {
    arrayElementSpec.function = arraySpec.function;
  }
  if
  (getType(arraySpec.value) === 'object') {
    arrayElementSpec = arraySpec.value;
  }
  let errors = [];
  for (let i = 0; i < array.length; i++) {
    errors = errors.concat(validateArrayElement({
      array,
      arrayIndex: i,
      value: array[i],
      valueSpec: arrayElementSpec,
      style,
      styleSpec,
      key: `${key}[${i}]`
    }));
  }
  return errors;
}
import getType from './util/get_type';
import
  ValidationError from './error/validation_error';
export default function validateNumber(options) {
  const key =
  options.key;
  const value = options.value;
  const valueSpec = options.valueSpec;
  let type =
  getType(value);
  // eslint-disable-next-line no-self-compare
  if (type === 'number' && value !== value) {
    type = 'NaN';
  }
  if (type !== 'number') {
    return [new ValidationError(key, value, `number
  expected, ${type} found`)];
  }
  if ('minimum' in valueSpec && value < valueSpec.minimum) {
    return
  [new ValidationError(key, value, `${value} is less than the minimum value ${valueSpec.minimum}`)];
  }
  if ('maximum' in valueSpec && value > valueSpec.maximum) {
    return [new ValidationError(key, value,
  `${value} is greater than the maximum value ${valueSpec.maximum}`)];
  }
  return [];
}
import
  ValidationError from './error/validation_error';
import getType from './util/get_type';
import validate from
  './validate';
import validateObject from './validate_object';
import validateArray from './validate_array';
import
  validateNumber from './validate_number';
import {isExpression} from './expression';
import {unbundle,
  deepUnbundle} from './util/unbundle_jsonlint';
import {
  supportsPropertyExpression,
  supportsZoomExpression,
  supportsInterpolation
} from './util/properties';
export default function
  validateFunction(options) {
  const functionValueSpec = options.valueSpec;
  const functionType =
  unbundle(options.value.type);
  let stopKeyType;
  let stopDomainValues = {};
  let
  previousStopDomainValue;
  let previousStopDomainZoom;
  const isZoomFunction = functionType !==
  'categorical' && options.value.property === undefined;
  const isPropertyFunction = !isZoomFunction;
  const
  isZoomAndPropertyFunction =
  getType(options.value.stops) === 'array' &&
  getType(options.value.stops[0]) === 'array' &&
  getType(options.value.stops[0][0]) === 'object';
  const
  errors = validateObject({
    key: options.key,
    value: options.value,
    valueSpec:
    options.styleSpec.function,
    style: options.style,
    styleSpec: options.styleSpec,
    objectElementValidators: {
      stops: validateFunctionStops,
      default: validateFunctionDefault
    }
  });
  if (functionType === 'identity' && isZoomFunction) {
    errors.push(new
  ValidationError(options.key, options.value, 'missing required property `property``));
  }
  if (functionType
  !== 'identity' && !options.value.stops) {
    errors.push(new ValidationError(options.key, options.value, 'missing
  required property `stops``));
  }
  if (functionType === 'exponential' && options.valueSpec.expression &&

```



```

!supportsInterpolation(options.valueSpec)) {\n      errors.push(new ValidationError(options.key, options.value,
'exponential functions not supported'));
\n    }\n    if (options.styleSpec.$version >= 8) {\n      if
(isPropertyFunction && !supportsPropertyExpression(options.valueSpec)) {\n        errors.push(new
Validation\nError(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    if ((functionType === 'categorical' ||
isZoomAndPropertyFunction) && options.value.property === undefined) {\n      errors.push(new
Validation\nError(options.key, options.value, '"property" property is required');
\n    }\n    return errors;
\n  }\n  function validateFunctionStops(options) {\n    if (functionType === 'identity') {\n      return [new
Validation\nError(options.key, options.value, 'identity function may not have a "stops" property');
\n    ]\n    }\n    let errors = [];\n    const value = options.value;\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    if (getType(value) ===
'array' && value.length === 0) {\n      errors.push(new ValidationError(options.key, value, 'array must have at
least one stop');
\n    }\n    return errors;
\n  }\n  function validateFunctionStop(options) {\n    let errors
= [];\n    const value = options.value;\n    const key = options.key;\n    if (getType(value) !== 'array') {\n
return [new ValidationError(key, value, `array expected, ${getType(value)} found`)];
\n    }\n    if
(value.length !== 2) {\n      return [new ValidationError(key, value, `array length 2 expected, length
${value.length} found`)];
\n    }\n    if (isZoomAndPropertyFunction) {\n      if (getType(value[0]) !==
'object') {\n        return [new ValidationError(key, value, `object expected, ${getType(value[0])} found`)];
\n      }\n      if (value[0].zoom === undefined) {\n        return [new ValidationError(key, value, 'object stop key
must have zoom');
\n      }\n      if (value[0].value === undefined) {\n        return [new
Validation\nError(key, value, 'object stop key must have value');
\n      }\n      if (previousStopDomainZoom
&& previousStopDomainZoom > unbundle(value[0].zoom)) {\n        return [new ValidationError(key,
value[0].zoom, 'stop zoom values must appear in ascending order');
\n      }\n      if (unbundle(value[0].zoom)
!== previousStopDomainZoom) {\n        previousStopDomainZoom = unbundle(value[0].zoom);
\n      }\n      previousStopDomainValue = undefined;\n      stopDomainValues = {};\n      errors =
errors.concat(validateObject({\n        key: `${key}[0]`,\n        value: value[0],\n        valueSpec:
{zoom: {}},\n        style: options.style,\n        styleSpec: options.styleSpec,\n
objectElementValidators: {zoom: validateNumber, value: validateStopDomainValue\n      }));
\n    } else {\n      errors = errors.concat(validateStopDomainValue({\n        key: `${key}[0]`,\n        value: value[0],\n
valueSpec: {},\n        style: options.style,\n        styleSpec: options.styleSpec\n      }, value));
\n    }\n    if (isExpression(deepUnbundle(value[1]))) {\n      return errors.concat([new
Validation\nError(`${key}[1]`, value[1], 'expressions are not allowed in function stops.']);
\n    }\n    return
errors.concat(validate({\n      key: `${key}[1]`,\n      value: value[1],\n      valueSpec:
functionValueSpec,\n      style: options.style,\n      styleSpec: options.styleSpec\n    }));
\n  }\n  function validateStopDomainValue(options, stop) {\n    const type = getType(options.value);\n    const value =
unbundle(options.value);\n    const reportValue = options.value !== null ? options.value : stop;\n    if
(!stopKeyType) {\n      stopKeyType = type;\n    } else if (type !== stopKeyType) {\n      return [new
Validation\nError(options.key, reportValue, `${type} stop domain type must match previous stop domain type
${stopKeyType}`)];
\n    }\n    if (type !== 'number' && type !== 'string' && type !== 'boolean') {\n
return [new ValidationError(options.key, reportValue, 'stop domain value must be a number, string, or boolean');
\n    ]\n    if (type !== 'number' && functionType !== 'categorical') {\n      let message = `number expected,
${type} found`;\n      if (supportsPropertyExpression(functionValueSpec) && functionType === undefined) {\n
message += "\nIf you intended to use a categorical function, specify `\"type\": \"categorical\".`";
\n      }\n      return [new ValidationError(options.key, reportValue, message)];
\n    }\n    if (functionType ===
'categorical' && type === 'number' && (!isFinite(value) || Math.floor(value) !== value)) {\n      return [new
Validation\nError(options.key, reportValue, `integer expected, found ${value}`)];
\n    }\n    if (functionType

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!=== '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';\n\nimport {deepUnbundle} from './util/unbundle_jsonlint';\n\nimport
{isStateConstant, isGlobalPropertyConstant, isFeatureConstant} from './expression/is_constant';\n\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';\n\nimport ValidationError from './error/validation_error';\n\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';\n\nimport getType from './util/get_type';\n\nimport {parseCSSColor} from
'csscolorparser';\n\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';\n\nimport {unbundle} from './util/unbundle_jsonlint';\n\n\nexport
default function validateEnum(options) {\n  const key = options.key;\n  const value = options.value;\n  const
valueSpec = options.valueSpec;\n  const errors = [];\n\n  if (Array.isArray(valueSpec.values)) { // <v7\n    if
(valueSpec.values.indexOf(unbundle(value)) === -1) {\n      errors.push(new ValidationError(key, value,
`expected one of [${valueSpec.values.join(', ')}], ${JSON.stringify(value)} found`));\n    }\n  } else { // >=v8\n
if (Object.keys(valueSpec.values).indexOf(unbundle(value)) === -1) {\n      errors.push(new
ValidationError(key, value, `expected one of [${Object.keys(valueSpec.values).join(', ')}], ${JSON.stringify(value)}
found`));\n    }\n  }\n\n  return errors;\n}\n", "\nimport ValidationError from './error/validation_error';\n\nimport
validateExpression from './validate_expression';\n\nimport validateEnum from './validate_enum';\n\nimport getType

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from './util/get_type';\nimport {unbundle, deepUnbundle} from './util/unbundle_jsonlint';\nimport extend from
'./util/extend';\nimport {isExpressionFilter} from './feature_filter';\n\nexport default function validateFilter(options)
{\n  if (isExpressionFilter(deepUnbundle(options.value))) {\n    return validateExpression(extend({}, options,
{\n      expressionContext: 'filter',\n      valueSpec: {value: 'boolean'}\n    }));\n  } else {\n    return
validateNonExpressionFilter(options);\n  }\n}\n\nfunction validateNonExpressionFilter(options) {\n  const value
= options.value;\n  const key = options.key;\n  if (getType(value) !== 'array') {\n    return [new
ValidationError(key, value, `array expected, ${getType(value)} found`)];\n  }\n\n  const styleSpec =
options.styleSpec;\n  let type;\n\n  let errors = [];\n\n  if (value.length < 1) {\n    return [new
ValidationError(key, value, 'filter array must have at least 1 element`)];\n  }\n\n  errors =
errors.concat(validateEnum({\n    key: `${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]) === 'string') {\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, ${type} found`));\n        }\n      }\n      for (let i = 2; i < value.length; i++) {\n
type = getType(value[i]);\n        if (unbundle(value[1]) === 'string') {\n          errors =
errors.concat(validateEnum({\n            key: `${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,
${type} found`));\n      }\n      break;\n\n  }\n\n  return errors;\n}\n\n\nimport validate from './validate';\nimport
Validation from './error/validation_error';\nimport getType from './util/get_type';\nimport {isFunction} from
'./function';\nimport {unbundle, deepUnbundle} from './util/unbundle_jsonlint';\nimport
{supportsPropertyExpression} from './util/properties';\n\nexport default function validateProperty(options,
propertyType) {\n  const key = options.key;\n  const style = options.style;\n  const styleSpec =
options.styleSpec;\n  const value = options.value;\n  const propertyKey = options.objectKey;\n  const layerSpec
= styleSpec[`${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 \"${propertyKey}\"`)];\n  }\n\n  let tokenMatch;\n  if
(getType(value) === 'string' && supportsPropertyExpression(valueSpec) && !valueSpec.tokens && (tokenMatch =
/^{([^\s]+)}$/ .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

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

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options.key,\n          value: options.value,\n          style: options.style,\n          styleSpec:\noptions.styleSpec,\n          objectElementValidators: {\n          *(options) {\n          return\nvalidatePaintProperty(extend({layerType: type}, options));\n          }\n          });\n\n}\n\n});\n\nreturn errors;\n\n"}\n\n", "\nimport getType from './util/get_type';\nimport ValidationError from\n'./error/validation_error';\n\nexport default function validateString(options) {\n  const value = options.value;\n  const key = options.key;\n  const type = getType(value);\n\n  if (type !== 'string') {\n    return [new\nValidationError(key, value, `string expected, ${type} found`)];\n  }\n\n  return [];\n\n"}\n\n", "\nimport ValidationError\nfrom './error/validation_error';\nimport {unbundle} from './util/unbundle_jsonlint';\nimport validateObject from\n'./validate_object';\nimport validateEnum from './validate_enum';\nimport validateExpression from\n'./validate_expression';\nimport validateString from './validate_string';\nimport getType from\n'./util/get_type';\n\nconst objectElementValidators = {\n  promoteId: validatePromoteId;\n};\n\nexport default\nfunction validateSource(options) {\n  const value = options.value;\n  const key = options.key;\n  const styleSpec\n= options.styleSpec;\n  const style = options.style;\n\n  if (!value.type) {\n    return [new ValidationError(key,\nvalue, `"type" is required`)];\n  }\n\n  const type = unbundle(value.type);\n  let errors;\n\n  switch (type) {\n    case 'vector':\n    case 'raster':\n    case 'raster-dem':\n      errors = validateObject({\n        key,\n        value,\n        valueSpec: styleSpec[`source_${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\n=== 'string' ? [operator, ['accumulated'], ['get', prop]] : operator;\n          errors.push(...validateExpression({\n            key: `${key}.${prop}.map`,\n            value: mapExpr,\n            expressionContext: 'cluster-\nmap`\n          }));\n          errors.push(...validateExpression({\n            key: `${key}.${prop}.reduce`,\n            value: reduceExpr,\n            expressionContext: 'cluster-reduce`\n          }));\n        }\n      }\n\n      return errors;\n\n    case 'video':\n      return validateObject({\n        key,\n        value,\n        valueSpec:\nstyleSpec.source_video,\n        style,\n        styleSpec\n      });\n\n    case 'image':\n      return\nvalidateObject({\n        key,\n        value,\n        valueSpec: styleSpec.source_image,\n        style,\n        styleSpec\n      });\n\n    case 'canvas':\n      return [new ValidationError(key, null, `Please use runtime APIs to add\ncanvas sources, rather than including them in stylesheets.`, 'source.canvas')];\n\n    default:\n      return\nvalidateEnum({\n        key: `${key}.type`,\n        value: value.type,\n        valueSpec: {values: ['vector',\n'raster', 'raster-dem', 'geojson', 'video', 'image']},\n        style,\n        styleSpec\n      });\n  }\n\n}\n\n\nfunction\nvalidatePromoteId({key, value}) {\n  if (getType(value) === 'string') {\n    return validateString({key, value});\n  }\n  else {\n    const errors = [];\n    for (const prop in value) {\n      errors.push(...validateString({key:\n`${key}.${prop}`, value: value[prop]}));\n    }\n    return errors;\n  }\n\n}\n\n", "\nimport ValidationError from\n'./error/validation_error';\nimport getType from './util/get_type';\nimport validate from './validate';\n\nexport default\nfunction validateLight(options) {\n  const light = options.value;\n  const styleSpec = options.styleSpec;\n  const\nlightSpec = styleSpec.light;\n  const style = options.style;\n\n  let errors = [];\n\n  const rootType =\ngetType(light);\n  if (light === undefined) {\n    return errors;\n  } else if (rootType !== 'object') {\n    errors\n= errors.concat([new ValidationError('light', light, `object expected, ${rootType} found`)]);\n    return errors;\n  }\n\n  for (const key in light) {\n    const transitionMatch = key.match(/^(.*)-transition$/);\n\n    if\n(transitionMatch && lightSpec[transitionMatch[1]] && lightSpec[transitionMatch[1]].transition) {\n      errors =\nerrors.concat(validate({\n        key,\n        value: light[key],\n        valueSpec: styleSpec.transition,\n        style,\n        styleSpec\n      }));\n    } else if (lightSpec[key]) {\n      errors =\nerrors.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,\nlight[key], `unknown property "${key}"`)]);\n    }\n  }\n\n}\n\n\nreturn errors;\n\n"}\n\n", "\n// @flow\nimport\nvalidateExpression from './validate_expression';\nimport validateString from './validate_string';\n\nexport default\nfunction validateFormatted(options: any) {\n  if (validateString(options).length === 0) {\n    return [];\n  }\n\n}

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return validateExpression(options);\n}\n", "// @flow\nimport validateExpression from
'./validate_expression';\nimport validateString from './validate_string';\n\nexport default function
validateImage(options: any) {\n  if (validateString(options).length === 0) {\n    return [];\n  }\n  return
validateExpression(options);\n}\n", "\nimport extend from './util/extend';\nimport {unbundle, deepUnbundle} from
'./util/unbundle_jsonlint';\nimport {isExpression} from './expression';\nimport {isFunction} from
'./function';\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// - key: string representing location of validation in style tree. Used only\n// for
more informative error reporting.\n// - value: current value from style being evaluated. May be anything from a\n//
high level object that needs to be descended into deeper or a simple\n// scalar value.\n// - valueSpec: current spec
being evaluated. Tracks value.\n// - styleSpec: current full spec being evaluated.\n\nexport default function
validate(options) {\n  const value = options.value;\n  const valueSpec = options.valueSpec;\n  const styleSpec =
options.styleSpec;\n\n  if (valueSpec.expression && isFunction(unbundle(value))) {\n    return
validateFunction(options);\n  } else if (valueSpec.expression && isExpression(deepUnbundle(value))) {\n
return validateExpression(options);\n  } else if (valueSpec.type && VALIDATORS[valueSpec.type]) {\n
return VALIDATORS[valueSpec.type](options);\n  } else {\n    const valid = validateObject(extend({\n
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 * @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:

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validateGlyphsURL,\n      '*(\n      return [];\n      }\n      }));\n\n if (style.constants) {\n
errors = errors.concat(validateConstants({\n      key: 'constants',\n      value: style.constants,\n      style,\n
styleSpec\n      }));\n      }\n\n return sortErrors(errors);\n}\n\nvalidateStyleMin.source =
wrapCleanErrors(validateSource);\nvalidateStyleMin.light =
wrapCleanErrors(validateLight);\nvalidateStyleMin.layer =
wrapCleanErrors(validateLayer);\nvalidateStyleMin.filter =
wrapCleanErrors(validateFilter);\nvalidateStyleMin.paintProperty =
wrapCleanErrors(validatePaintProperty);\nvalidateStyleMin.layoutProperty =
wrapCleanErrors(validateLayoutProperty);\n\nfunction sortErrors(errors) {\n  return [].concat(errors).sort((a, b) =>
{\n    return a.line - b.line;\n  });\n}\n\nfunction wrapCleanErrors(inner) {\n  return function(...args) {\n
return sortErrors(inner.apply(this, args));\n  };\n}\n\nexport default validateStyleMin;\n"/\n\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 token location info (@$, _$, etc.): {\n  first_line: n,\n  last_line: n,\n  first_column: n,\n
last_column: n,\n  range: [start_number, end_number] (where the numbers are indexes into the input string,
regular zero-based)\n }\n\n the parseError function receives a 'hash' object with these members for lexer and
parser errors: {\n  text: (matched text)\n  token: (the produced terminal token, if any)\n  line:
(yylineno)\n }\n while parser (grammar) errors will also provide these members, i.e. parser errors deliver a superset
of attributes: {\n  loc: (yylloc)\n  expected: (string describing the set of expected tokens)\n  recoverable:
(boolean: TRUE when the parser has a error recovery rule available for this particular error)\n }\n\n*/\n\nvar parser =
(function() {\n  var o=function(k,v,o,l){for(o=o||{};l=k.length;l--;o[k[l]]=v);return
o},$V0=[1,12],$V1=[1,13],$V2=[1,9],$V3=[1,10],$V4=[1,11],$V5=[1,14],$V6=[1,15],$V7=[14,18,22,24],$V8=[1
8,22],$V9=[22,24];\n  var parser = {trace: function trace() { },\n  yy: {},\n  symbols_:
{"error":2,"JSONString":3,"STRING":4,"JSONNumber":5,"NUMBER":6,"JSONNullLiteral":7,"NULL":
8,"JSONBooleanLiteral":9,"TRUE":10,"FALSE":11,"JSONText":12,"JSONValue":13,"EOF":14,"JSONO
bject":15,"JSONArray":16,"{":17,"}":18,"JSONMemberList":19,"JSONMember":20,":":21,"":22,"[":23
,"]":24,"JSONElementList":25,"$accept":0,"$end":1},\n  terminals_:
{2:"error",4:"STRING",6:"NUMBER",8:"NULL",10:"TRUE",11:"FALSE",14:"EOF",17:"{",18:"}"},21
:":",22:" ",23:"[",24:"]"},\n  productions_:
[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]],\n  performAction: function anonymous(yytext, yyleng, yylineno, yy, yystate /* action[1] */, $$
/* vstack */, _$ /* lstack */) {\n    /* this == yyval */\n    var $0 = $.length - 1;\n    switch (yystate) {\n      case 1:\n        // replace
escaped characters with actual character\n        this.$ = 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__ =

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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]; $$[$0-2].push($$[$0]);\nbreak;\n}\n},\ntable:
[{\n  3:5,4:$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},{\n  1:[3]},{\n  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($V7,[2,2]),{\n  3:20,4:$V0,18:[1,17],19:18,20:19},{\n  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:$V6,24:[1,21],25:22},{\n  1:[2,6]},o($V7,[2,13]),{\n  18:[1,24],22:[1,25]},o($
V8,[2,16]),{\n  21:[1,26]},o($V7,[2,18]),{\n  22:[1,28],24:[1,27]},o($V9,[2,20]),o($V7,[2,14]),{\n  3:20,4:$V0,20:29},{\n  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]),{\n  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])],\ndefault
actions: {\n  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: {} }; 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        yytext = lexer.yytext;\n

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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._$.range = [\n          lstack[lstack.length - (len || 1)].range[0],\n          lstack[lstack.length -
1].range[1]\n          ];\n          }\n          r = this.performAction.apply(yyval, [\n          yytext,\n
yylen,\n          yylineno,\n          sharedState.yy,\n          action[1],\n          vstack,\n          lstack\n
].concat(args));\n          if (typeof r !== 'undefined') {\n          return r;\n          }\n          if (len) {\n
stack = stack.slice(0, -1 * len * 2);\n          vstack = vstack.slice(0, -1 * len);\n          lstack = lstack.slice(0,
-1 * len);\n          }\n          stack.push(this.productions_[action[1]][0]);\n          vstack.push(yyval.$);\n
lstack.push(yyval._$);\n          newState = table[stack[stack.length - 2]][stack[stack.length - 1]];\n
stack.push(newState);\n          break;\n          case 3:\n          return true;\n          }\n          }\n          return true;\n          };\n\n/*
generated by json-lex 0.3.4 *\nvar lexer = (function(){\nvar lexer = ({\nEOF:1,\nparseError:function
parseError(str, hash) {\n  if (this.yy.parser) {\n    this.yy.parser.parseError(str, hash);\n  } else {\n
throw new Error(str);\n  }\n  },\n\n// resets the lexer, sets new input\nsetInput:function (input, yy) {\n
this.yy = yy || this.yy || {};\n  this._input = input;\n  this._more = this._backtrack = this.done = false;\n
this.yylineno = this.yyleng = 0;\n  this.yytext = this.matched = this.match = '';\n  this.conditionStack =
['INITIAL'];\n  this.yylloc = {\n    first_line: 1,\n    first_column: 0,\n    last_line: 1,\n
last_column: 0\n  };\n  if (this.options.ranges) {\n    this.yylloc.range = [0,0];\n  }\n  this.offset =
0;\n  return this;\n  },\n\n// consumes and returns one char from the input\ninput:function () {\n  var ch =
this._input[0];\n  this.yytext += ch;\n  this.yyleng++;\n  this.offset++;\n  this.match += ch;\n
this.matched += ch;\n  var lines = ch.match(/(?:\\r\\n?|\\n).*/g);\n  if (lines) {\n    this.yylineno++;\n
this.yylloc.last_line++;\n  } else {\n    this.yylloc.last_column++;\n  }\n  if (this.options.ranges) {\n
this.yylloc.range[1]++;\n  }\n  this._input = this._input.slice(1);\n  return ch;\n  },\n\n// unshifts
one char (or a string) into the input\nunput:function (ch) {\n  var len = ch.length;\n  var lines =
ch.split(/(?:\\r\\n?|\\n)/g);\n  this._input = ch + this._input;\n  this.yytext = this.yytext.substr(0,
this.yytext.length - len);\n  //this.yyleng -= len;\n  this.offset -= len;\n  var oldLines =
this.match.split(/(?:\\r\\n?|\\n)/g);\n  this.match = this.match.substr(0, this.match.length - 1);\n  this.matched =
this.matched.substr(0, this.matched.length - 1);\n  if (lines.length - 1) {\n    this.yylineno -= lines.length -
1;\n  }\n  var r = this.yylloc.range;\n  this.yylloc = {\n    first_line: this.yylloc.first_line,\n
last_line: this.yylineno + 1,\n    first_column: this.yylloc.first_column,\n    last_column: lines ?\n
(lines.length === oldLines.length ? this.yylloc.first_column : 0)\n    + oldLines[oldLines.length -
lines.length].length - lines[0].length : \n    this.yylloc.first_column - len\n  };\n  if
(this.options.ranges) {\n    this.yylloc.range = [r[0], r[0] + this.yyleng - len];\n  }\n  this.yyleng =
this.yytext.length;\n  return this;\n  },\n\n// When called from action, caches matched text and appends it on
next action\nmore:function () {\n  this._more = true;\n  return this;\n  },\n\n// When called from action,
signals the lexer that this rule fails to match the input, so the next matching rule (regex) should be tested
instead.\nreject:function () {\n  if (this.options.backtrack_lexer) {\n    this._backtrack = true;\n  } else
{\n    return this.parseError('Lexical error on line ' + (this.yylineno + 1) + '. You can only invoke reject() in the
lexer when the lexer is of the backtracking persuasion (options.backtrack_lexer = true).\\n' + this.showPosition(), {\n
text: '\\",\n    token: null,\n    line: this.yylineno\n    });\n  }\n  return this;\n
},\n\n// retain first n characters of the match\nless:function (n) {\n  this.unput(this.match.slice(n));\n  },\n\n//
displays already matched input, i.e. for error messages\npastInput:function () {\n  var past =
this.matched.substr(0, this.matched.length - this.match.length);\n  return (past.length > 20 ? '...:') + past.substr(-
20).replace(/\\n/g, '\\n');\n  },\n\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

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}\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\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        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// 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\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\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

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this.conditions[this.conditionStack[this.conditionStack.length - 1]].rules;\n      } else {\n          return
this.conditions["INITIAL"].rules;\n      }\n      },\n      \n// return the currently active lexer condition state; when an
index argument is provided it produces the N-th previous condition state, if available\ntopState:function topState(n)
{\n      n = this.conditionStack.length - 1 - Math.abs(n || 0);\n      if (n >= 0) {\n          return
this.conditionStack[n];\n      } else {\n          return \"INITIAL\";\n      }\n      },\n      \n// alias for
begin(condition)\npushState:function pushState(condition) {\n      this.begin(condition);\n      },\n      \n// return the
number of states currently on the stack\nstateStackSize:function stateStackSize() {\n      return
this.conditionStack.length;\n      },\n      \noptions: {},\n      \nperformAction: function
anonymous(yy,yy_,$avoiding_name_collisions,YY_START) {\n      nvar
YYSTATE=YY_START;\n      \nswitch($avoiding_name_collisions) {\n      \ncase 0:/* skip whitespace */\n      \nbreak;\n      \ncase
1:return 6\n      \nbreak;\n      \ncase 2:yy_.yytext = yy_.yytext.substr(1,yy_.yytext.length-2); return 4\n      \nbreak;\n      \ncase 3:return
17\n      \nbreak;\n      \ncase 4:return 18\n      \nbreak;\n      \ncase 5:return 23\n      \nbreak;\n      \ncase 6:return 24\n      \nbreak;\n      \ncase 7:return
22\n      \nbreak;\n      \ncase 8:return 21\n      \nbreak;\n      \ncase 9:return 10\n      \nbreak;\n      \ncase 10:return 11\n      \nbreak;\n      \ncase 11:return
8\n      \nbreak;\n      \ncase 12:return 14\n      \nbreak;\n      \ncase 13:return 'INVALID'\n      \nbreak;\n      }\n      },\n      \nrules: [/\^(?:\|s+),/\^(?:(-|[0-9][1-
9][0-9]+))(\.[0-9]+)?([eE][+]?[0-9]+)?\|b)/,\n      \n/\^(?:\"(?:\\\\\\\\\\\\\\\\\"bfnrt)/\\\\\\\\u[a-fA-F0-9]{4}|[^\|\\\\\\\\0-\\x09\\x0a-
\\x1f\"])*\"/\n      \n/\^(?:\|{}/,\n      \n/\^(?:\|}/,\n      \n/\^(?:\|D)/,\n      \n/\^(?:\|[])/,\n      \n/\^(?:\|,)/,\n      \n/\^(?:\|:)/,\n      \n/\^(?:\|true\|b)/,\n      \n/\^(?:\|false\|b)/,\n      \n/\^(?:\|null\|b)/,\n      \n/\^(?:\|$/,\n      \n/\^(?:
.)/,,\n      \nconditions: {\n      \n\"INITIAL\":{\n      \n\"rules\":[0,1,2,3,4,5,6,7,8,9,10,11,12,13],\n      \n\"inclusive\":true\n      \n}\n      \n});\n      \nreturn
lexer;\n      \n});\n      \nparser.lexer = lexer;\n      \nfunction Parser () {\n      \nthis.yy = {};\n      \n}\n      \nParser.prototype = parser;\n      \nParser
= Parser;\n      \nreturn new Parser;\n      \n});\n      \n\nif (typeof require !== 'undefined' && typeof exports !== 'undefined')
{\n      \nexports.parser = parser;\n      \nexports.Parser = parser.Parser;\n      \nexports.parse = function () { return
parser.parse.apply(parser, arguments); }\n      \n}\n      \n\n,\"import ParsingError from './error/parsing_error';\n      \nimport jsonlint
from '@mapbox/jsonlint-lines-primitives';\n      \n\nexport default function readStyle(style) {\n      \nif (style instanceof
String || typeof style === 'string' || style instanceof Buffer) {\n      \ntry {\n      \nreturn
jsonlint.parse(style.toString());\n      \n} catch (e) {\n      \nthrow new ParsingError(e);\n      \n}\n      \n}\n      \n\nreturn
style;\n      \n}\n      \n\n\nimport validateStyleMin from './validate_style.min';\n      \nimport { v8 } from './style-spec';\n      \nimport
readStyle from './read_style';\n      \n\n/**\n      \n * Validate a Mapbox GL style against the style specification.\n      \n * \n      \n *
@private\n      \n * @alias validate\n      \n * @param {Object|String|Buffer} style The style to be validated. If a `String`\n      \n *
or `Buffer` is provided, the returned errors will contain line numbers.\n      \n * @param {Object} [styleSpec] The style
specification to validate against.\n      \n * If omitted, the spec version is inferred from the stylesheet.\n      \n * @returns
{Array<ValidationError|ParsingError>}\n      \n * @example\n      \n * var validate = require('mapbox-gl-style-
spec').validate;\n      \n * var style = fs.readFileSync('./style.json', 'utf8');\n      \n * var errors = validate(style);\n      \n * \n      \n\nexport
default function validateStyle(style, styleSpec = v8) {\n      \nlet s = style;\n      \n\ntry {\n      \ns = readStyle(s);\n      \n} catch
(e) {\n      \nreturn [e];\n      \n}\n      \n\nreturn validateStyleMin(s, styleSpec);\n      \n}\n      \n\n\nexport const source =
validateStyleMin.source;\n      \nexport const light = validateStyleMin.light;\n      \nexport const layer =
validateStyleMin.layer;\n      \nexport const filter = validateStyleMin.filter;\n      \nexport const paintProperty =
validateStyleMin.paintProperty;\n      \nexport const layoutProperty = validateStyleMin.layoutProperty;\n      \n\n\",//
@flow\n      \n\nimport validateStyle from './validate_style.min';\n      \nimport { v8 } from './style-spec';\n      \nimport readStyle from
'./read_style';\n      \nimport ValidationError from './error/validation_error';\n      \nimport getType from
'./util/get_type';\n      \n\nconst SUPPORTED_SPEC_VERSION = 8;\n      \nconst MAX_SOURCES_IN_STYLE =
15;\n      \n\nfunction isValid(value: ?string, regex: RegExp): boolean {\n      \nif (!value || getType(value) !== 'string') return
true;\n      \nreturn !!value.match(regex);\n      \n}\n      \n\nfunction getSourceCount(source: Object): number {\n      \nif (source.url)
{\n      \nreturn source.url.split(',').length;\n      \n} else {\n      \nreturn 0;\n      \n}\n      \n}\n      \n\nfunction getAllowedKeyErrors(obj:
Object, keys: Array<*>, path: ?string): Array<?ValidationError> {\n      \nconst allowed = new Set(keys);\n      \nconst
errors = [];\n      \nObject.keys(obj).forEach(k => {\n      \nif (!allowed.has(k)) {\n      \nconst prop = path ?
`$${path}.${k}` : null;\n      \nerrors.push(new ValidationError(prop, obj[k], `Unsupported property \"${k}\"`));\n      \n}\n      \n});\n      \nreturn
errors;\n      \n}\n      \n\nfunction getSourceErrors(source: Object, i: number): Array<?ValidationError> {\n      \nconst
errors = [];\n      \n\n/*\n      \n * Inlined sources are not supported by the Mapbox Styles API, so only\n      \n *
`type`, `url`, and `tileSize` properties are valid\n      \n */\n      \nconst sourceKeys = ['type', 'url', 'tileSize'];\n      \n\n

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errors.push(...getAllowedKeyErrors(source, sourceKeys, 'source'));
/*
 * "source" is required. Valid
examples:
 * mapbox://mapbox.abcd1234
 * mapbox://penny.abcd1234
 *
mapbox://mapbox.abcd1234,penny.abcd1234
 */
const sourceUrlPattern = /^mapbox:\\\\([^\s]*)$/;
if (!isValid(source.url, sourceUrlPattern)) {
  errors.push(new ValidationError(`sources[${i}]`, source.url, 'Source
url must be a valid Mapbox tileset url'));
}
return errors;
}

function getSourcesErrors(sources: Object):
Array<?ValidationError> {
  const errors = [];
  let count = 0;
  Object.keys(sources).forEach((s: string, i:
number) => {
    const sourceErrors = getSourceErrors(sources[s], i);
    // If source has errors, skip
counting
    if (!sourceErrors.length) {
      count = count + getSourceCount(sources[s]);
    }
    errors.push(...sourceErrors);
  });
  if (count > MAX_SOURCES_IN_STYLE) {
    errors.push(new
ValidationError('sources', null, `Styles must contain ${MAX_SOURCES_IN_STYLE} or fewer sources`));
  }
  return errors;
}

function getRootErrors(style: Object, specKeys: Array<any>): Array<?ValidationError>
{
  const errors = [];
  /*
 * The following keys are optional but fully managed by the Mapbox Styles
 * API. Values on stylesheet on POST or PATCH will be ignored: "owner",
 * "id", "cacheControl", "draft",
 * "created", "modified"
 *
 * The following keys are optional. The Mapbox Styles API respects value on
 * stylesheet on PATCH, but ignores the value on POST: "visibility"
 */
  const optionalRootProperties = [
    'owner',
    'id',
    'cacheControl',
    'draft',
    'created',
    'modified',
    'visibility'
  ];
  const allowedKeyErrors = getAllowedKeyErrors(style, [...specKeys, ...optionalRootProperties]);
  errors.push(...allowedKeyErrors);
  if (style.version > SUPPORTED_SPEC_VERSION || style.version <
SUPPORTED_SPEC_VERSION) {
    errors.push(new ValidationError('version', style.version, `Style version
must be ${SUPPORTED_SPEC_VERSION}`));
  }
  /*
 * "glyphs" is optional. If present, valid
examples:
 * mapbox://fonts/penny/{fontstack}/{range}.pbf
 *
mapbox://fonts/mapbox/{fontstack}/{range}.pbf
 */
  const glyphUrlPattern =
/^mapbox:\\\\fonts\\([^\s]*)\\{fontstack}\\{range}.pbf$/;
  if (!isValid(style.glyphs, glyphUrlPattern)) {
    errors.push(new ValidationError('glyphs', style.glyphs, 'Styles must reference glyphs hosted by Mapbox'));
  }
  /*
 * "sprite" is optional. If present, valid examples:
 * mapbox://sprites/penny/abcd1234
 *
mapbox://sprites/mapbox/abcd1234/draft
 * mapbox://sprites/cyrus/abcd1234/abcd1234
 */
  const
spriteUrlPattern = /^mapbox:\\\\sprites\\([^\s]*)\\([^\s]*)\\{[^]*}?$/;
  if (!isValid(style.sprite, spriteUrlPattern))
{
    errors.push(new ValidationError('sprite', style.sprite, 'Styles must reference sprites hosted by Mapbox'));
  }
  /*
 * "visibility" is optional. If present, valid examples:
 * "private"
 * "public"
 */
  const visibilityPattern = /^(public|private)$/;
  if (!isValid(style.visibility, visibilityPattern)) {
    errors.push(new ValidationError('visibility', style.visibility, 'Style visibility must be public or private'));
  }
}
return errors;
}

/**
 * Validate a Mapbox GL style against the style specification and check for
 * compatibility with the Mapbox Styles API.
 * @param {Object} style The style to be validated.
 * @returns
 {Array<ValidationError>}
 * @example
 * var validateMapboxApiSupported = require('mapbox-gl-style-
spec/lib/validate_style_mapbox_api_supported.js');
 * var errors = validateMapboxApiSupported(style);
 */
export default function validateMapboxApiSupported(style: Object): Array<?ValidationError> {
  let s =
style;
  try {
    s = readStyle(s);
  } catch (e) {
    return [e];
  }
  let errors = validateStyle(s, v8)
.concat(getRootErrors(s, Object.keys(v8.$root)));
  if (s.sources) {
    errors =
errors.concat(getSourcesErrors(s.sources));
  }
  return errors;
}

" @flow
type ExpressionType =
'data-driven' | 'cross-faded' | 'cross-faded-data-driven' | 'color-ramp' | 'data-constant' | 'constant';
type
ExpressionParameters = Array<'zoom' | 'feature' | 'feature-state' | 'heatmap-density' | 'line-progress'>;
type
ExpressionSpecification = {
  interpolated: boolean,
  parameters: ExpressionParameters
}
export type
StylePropertySpecification = {
  type: 'number',
  'property-type': ExpressionType,
  expression?:
ExpressionSpecification,
  transition: boolean,
  default?: number
} | {
  type: 'string',
  'property-type':
ExpressionType,
  expression?: ExpressionSpecification,
  transition: boolean,
  default?: string,
  tokens?:
boolean
} | {
  type: 'boolean',
  'property-type': ExpressionType,
  expression?: ExpressionSpecification,
  transition: boolean,
  default?: boolean
} | {
  type: 'enum',
  'property-type': ExpressionType,
  expression?: ExpressionSpecification,
  values: {[_: string]: {}},
  transition: boolean,
  default?: string
} |

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{\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 from './feature_filter';\nimport convertFilter from
 './feature_filter/convert';\nimport Color from './util/color';\nimport { createFunction, isFunction } from
 './function';\nimport convertFunction from './function/convert';\nimport { eachSource, eachLayer, eachProperty }
from './visit';\n\nimport validate from './validate_style';\nimport validateMapboxApiSupported from
 './validate_mapbox_api_supported';\n\nconst expression = {\n StyleExpression,\n isExpression,\n
createExpression,\n createPropertyExpression,\n normalizePropertyExpression,\n ZoomConstantExpression,\n
ZoomDependentExpression,\n StylePropertyFunction\n};\n\nconst styleFunction = {\n convertFunction,\n
createFunction,\n isFunction\n};\n\nconst visit = { eachSource, eachLayer, eachProperty };;\n\nexport {\n v8,\n
latest,\n format,\n migrate,\n composite,\n derefLayers,\n diff,\n ValidationError,\n ParsingError,\n
expression,\n featureFilter,\n convertFilter,\n Color,\n styleFunction as function,\n validate,\n
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* /opt/ws_local/PERMITS_SQL/1034316672_1588680854.86/0/mapbox-mapbox-gl-style-spec-13-13-0-tgz/package/dist/index.es.js.map

1.898 is-retry-allowed 1.2.0 1.2.0

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1.899 fstream 1.0.11 1.0.11

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1.900 http-errors 1.6.1 1.6.1

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1.901 utf-8-validate 1.2.1 1.2.1

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1.902 mime 1.3.6 1.3.6

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1.903 accepts 1.3.3 1.3.3

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1.904 my-app 0.1.0 0.1.0

1.904.1 Available under license :

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{  
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  "version": "0.1.0",  
  "description": "my-app",
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},
"repository": "",
"author": "",
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"dependencies": {
  "raptor": ">=2.3.0",
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  "express-raptor": "~0.1.2",
  "express": "~3.1.1",
  "request": "~2.16.6",
  "ebay-global-header": "git://github.scm.corp.ebay.com/cubejs-ebay/ebay-global-header-node.git",
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  "ebay-ui-components": "git://github.scm.corp.ebay.com/Raptor/RaptorUIComponents.git",
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},
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Found in path(s):

* /opt/ws_local/PERMITS_SQL/1034316680_1588680866.62/0/my-app-0-1-0-tgz/package/package.json

1.905 through 2.3.8 2.3.8

1.905.1 Available under license :

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1.906 @mapbox/point-geometry 0.1.0 0.1.0

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1.907 inflight 1.0.6 1.0.6

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1.908 tar-pack 3.4.1 3.4.1

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1.909 punycode 1.4.1 1.4.1

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1.910 block-stream 0.0.9 0.0.9

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1.941 mime-db 1.29.0 1.29.0

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1.942 has-unicode 2.0.1 2.0.1

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1.944 graceful-fs 4.1.11 4.1.11

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1.947 socket.io-client 1.7.4 1.7.4

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1.948 options 0.0.6 0.0.6

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1.949 node-fetch 1.7.3 1.7.3

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1.950 mime 1.3.4 1.3.4

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1.951 domelementtype 2.0.1 2.0.1

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1.952 handlebars-java 4.0.10 4.0.10

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1.953 hoist-non-react-statics 1.2.0 1.2.0

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1.954 stack-chain 1.3.7 1.3.7

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1.955 invariant 2.2.2 2.2.2

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1.956 ms 0.7.1 0.7.1

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1.957 responselike 1.0.2 1.0.2

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1.958 lodash 4.17.15 4.17.15

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1.959 buffer-from 1.1.1 1.1.1

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1.960 timed-out 4.0.1 4.0.1

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1.961 argparse 1.0.10 1.0.10

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1.962 etag 1.7.0 1.7.0

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1.963 json-schema-traverse 0.4.1 0.4.1

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1.967 hoek 0.9.1 0.9.1

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1.970 fbjs 0.8.12 0.8.12

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1.973 tunnel-agent 0.6.0 0.6.0

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1.976 punycode 2.1.1 2.1.1

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1.977 react-transition-group 2.6.0 2.6.0

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1.980 has-color 0.1.7 0.1.7

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1.984 query-string 5.1.1 5.1.1

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