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1.8 strip-ansi 4.0.0

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Found in path(s):
* /opt/cola/permits/1110635849_1607035374.31/0/imurmurhash-0-1-4-4-tgz/package/README.md

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1.44 crypto-random-string 1.0.0

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1.45 normalize-path 2.1.1

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1.46 assign-symbols 1.0.0

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1.47 idna 2.10

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

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

```python
import io, sys
from setuptools import setup


def main():

    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
            'Operating System :: OS Independent',
            'Programming Language :: Python',
            'Programming Language :: Python :: 2',
            'Programming Language :: Python :: 2.7',
            'Programming Language :: Python :: 3',
            'Programming Language :: Python :: 3.4',
            'Programming Language :: Python :: 3.5',
            'Programming Language :: Python :: 3.6',
            'Programming Language :: Python :: 3.7',
            'Programming Language :: Python :: 3.8',
            'Programming Language :: Python :: Implementation :: CPython',
            'Programming Language :: Python :: Implementation :: PyPy',
```

```
      'Topic :: Internet :: Name Service (DNS)',
      'Topic :: Software Development :: Libraries :: Python Modules',
      'Topic :: Utilities',
    ],
    'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
  }

  setup(**arguments)

if __name__ == '__main__':
  main()
```

Found in path(s):

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

1.48 signal-exit 3.0.3

1.48.1 Available under license :

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1.49 configstore 3.1.5

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1.50 pstree-remy 1.1.8

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1.51 undefsafe 2.0.3

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1.52 python-requests 2.26.0

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1.53 urllib3 1.26.7

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1.54 python-certifi 2021.10.8

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

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

This is a bundle of X.509 certificates of public Certificate Authorities

(CA). These were automatically extracted from Mozilla's root certificates

file (certdata.txt). This file can be found in the mozilla source tree:

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

It contains the certificates in PEM format and therefore

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Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $

 $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.55 snapdragon 0.8.2

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1.56 to-regex-range 2.1.1

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1.57 strip-json-comments 2.0.1

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1.58 shebang-regex 1.0.0

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1.59 to-object-path 0.3.0
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1.60 snapdragon-node 2.1.1
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1.109 unique-string 1.0.0

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1.138 base 0.11.2

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1.139 nodemon 1.19.4

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1.140 requires-port 1.0.0-1.0.0

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1.141 toastr 2.1.2-2.1.2

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1.142 element-resize-event 2.0.9-2.0.9

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1.143 regenerator-runtime 0.13.3-0.13.3

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1.144 geojson-vt 3.2.1-3.2.1

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1.145 supports-color 6.1.0-6.1.0

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1.146 iconv-lite 0.4.24-0.4.24

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1.147 kdbush 2.0.1-2.0.1

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1.148 tweetnacl 0.14.5-0.14.5

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1.149 once 1.4.0-1.4.0

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1.150 moment 2.5.1-2.5.1

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1.151 reactapp 1.0.0-1.0.0

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1.152 debug 2.6.9-2.6.9

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1.153 set-immediate-shim 1.0.1-1.0.1

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1.154 parseuri 0.0.5-0.0.5

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1.155 keycode 2.1.9-2.1.9

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1.156 repeat-string 1.6.1-1.6.1

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1.157 cookie 0.3.1-0.3.1

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1.158 worker-loader 2.0.0-2.0.0

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1.159 source-map 0.5.6-0.5.6

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1.180 rc-tree 1.6.1-1.6.1

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1.183 aws-sign2 0.7.0-0.7.0

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1.184 graceful-fs 4.1.11-4.1.11

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1.185 errno 0.1.4-0.1.4

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1.193 axios 0.16.2-0.16.2

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1.196 cookie-signature 1.0.6-1.0.6

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1.197 case-sensitive-paths-webpack-plugin 2.1.1-2.1.1

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1.198 mapbox-gl 0.51.0-beta.2-0.51.0-beta.2

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1.199 babel-runtime 6.25.0-6.25.0

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1.200 to-array 0.1.4-0.1.4

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1.201 object-component 0.0.3-0.0.3

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1.202 keycode 2.2.0-2.2.0

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1.203 ajv 5.5.2-5.5.2

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1.204 debug 4.1.1-4.1.1

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1.205 base64-arraybuffer 0.1.5-0.1.5

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1.206 statuses 1.5.0-1.5.0

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1.207 regenerator-runtime 0.10.5-0.10.5

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1.208 atob 2.1.2-2.1.2

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1.209 commander 2.11.0-2.11.0

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1.210 fs-finder 1.8.1-1.8.1

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1.211 dom-helpers 3.2.1-3.2.1

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1.212 sort-object 0.3.2-0.3.2

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1.214 invariant 2.2.4-2.2.4

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1.215 indexof 0.0.1-0.0.1

1.216 lazy-cache 1.0.4-1.0.4

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1.218 moment-timezone 0.5.21-0.5.21

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1.219 handlebars-java 4.0.10-4.0.10

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1.222 vt-pbf 3.1.1-3.1.1

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1.225 i18n 2.0.6-2.0.6

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1.226 tiny-emitter 2.0.1-2.0.1

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1.227 amcharts3-dataloader 1.0.19-1.0.19

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1.229 dom-helpers 3.4.0-3.4.0

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1.230 classnames 2.2.5-2.2.5

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1.231 uuid 2.0.3-2.0.3

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1.232 json-schema-traverse 0.4.1-0.4.1

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1.233 promise 7.3.0-7.3.0

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1.234 xtend 2.1.2-2.1.2

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1.236 stealthy-require 1.1.1-1.1.1

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1.238 fast-deep-equal 2.0.1-2.0.1

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1.246 symbol-observable 1.0.4-1.0.4

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1.249 react-select 1.0.0-rc.10-1.0.0-rc.10

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1.251 wrappy 1.0.2-1.0.2

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1.260 forever-agent 0.6.1-0.6.1

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1.262 moment 2.22.2-2.22.2

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1.264 react-dropzone 3.13.3-3.13.3
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1.265 jquery-ui 1.11.4-1.11.4

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1.266 component-indexof 0.0.3-0.0.3

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1.267 react-top-loading-bar 1.2.0-1.2.0

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1.268 rc-util 4.0.4-4.0.4

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1.271 amcharts3-export 1.4.40-1.4.40

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1.275 mime-db 1.29.0-1.29.0

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1.276 pify 3.0.0-3.0.0

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1.283 random-bytes 1.0.0-1.0.0

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1.284 json-schema 0.2.3-0.2.3

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1.286 qs 6.5.2-6.5.2

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1.287 cls-hooked 4.2.2-4.2.2
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1.288 stack-chain 1.3.7-1.3.7

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1.289 intl-messageformat-parser 1.2.0-1.2.0

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1.290 lodash-es 4.17.11-4.17.11

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1.291 react-notification-system 0.2.15-0.2.15
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1.292 xmlhttprequest-ssl 1.5.5-1.5.5

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1.293 doctrine 2.0.0-2.0.0

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1.294 node-fetch 1.7.3-1.7.3

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1.295 setimmediate 1.0.5-1.0.5

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1.296 uuid 3.1.0-3.1.0

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1.297 dom-align 1.6.2-1.6.2

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1.298 json-schema-traverse 0.3.1-0.3.1

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1.299 extend 3.0.1-3.0.1

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1.300 react-bootstrap 0.30.10-0.30.10

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1.301 react-measure 1.4.7-1.4.7

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1.302 ultron 1.0.2-1.0.2

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1.303 bunyan-format 0.2.1-0.2.1

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1.304 mkdirp 0.5.1-0.5.1

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1.305 delayed-stream 1.0.0-1.0.0

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1.306 ecc-jsbn 0.1.2-0.1.2

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1.307 component-inherit 0.0.3-0.0.3

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1.308 dashdash 1.14.1-1.14.1

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1.309 object-keys 0.4.0-0.4.0

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1.310 clone 2.1.2-2.1.2

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1.315 gl-matrix 2.8.1-2.8.1

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1.317 yeast 0.1.2-0.1.2

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1.319 from2 2.3.0-2.3.0

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1.320 typedarray 0.0.6-0.0.6

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

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

1.321 amcharts3-responsive 1.0.5-1.0.5

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1.322 1to2 1.0.0-1.0.0

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1.323 hoist-non-react-statics 2.5.5-2.5.5

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1.330 d3 3.5.17-3.5.17

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1.334 core-util-is 1.0.2-1.0.2

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1.344 prop-types 15.7.2-15.7.2

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1.347 cardinal 0.4.4-0.4.4

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1.348 performance-now 0.2.0-0.2.0

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1.349 sprintf-js 1.1.1-1.1.1

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Alexander Rose <alexander.rose@weirdbyte.de>

Alexandru Mrteanu <hello@alexei.ro>

Andras @andrasq

Benoit Giannangeli https://github.com/giann

Branden Visser <mrvisser@gmail.com>

David Baird

daurnimator <quae@daurnimator.com>

Doug Beck https://github.com/beck

Dzmitry Litskalau https://github.com/litmit

Hans Pufal

Henry https://github.com/alograg

Johnny Shields <johnny.shields@gmail.com>

Kamal Abdali

Matt Simerson https://github.com/msimerson

Maxime Robert https://github.com/marob

MeriemKhelifi https://github.com/MeriemKhelifi

Michael Schramm <michael.schramm@gmail.com>

Nazar Mokrynskyi <nazar@mokrynskyi.com>

Oliver Salzburg <oliver.salzburg@gmail.com>

Pablo <ppollono@gmail.com>

Rabehaja Stevens https://github.com/RABEHAJA-STEVENS

Raphael Pigulla https://github.com/pigulla

rebeccapeltz https://github.com/rebeccapeltz

Stefan Tingstrm https://github.com/stingstrom

1.350 options 0.0.6-0.0.6

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1.351 core-js 2.4.1-2.4.1

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1.355 center-align 0.1.3-0.1.3

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1.356 inflight 1.0.6-1.0.6

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1.357 recompose 0.30.0-0.30.0

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1.359 react-is 16.8.3-16.8.3

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1.360 node-uuid 1.4.8-1.4.8

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1.363 ms 2.1.1-2.1.1

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1.364 assert-plus 1.0.0-1.0.0

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1.365 concat-stream 1.6.2-1.6.2

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1.370 cliui 2.1.0-2.1.0

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1.376 webui-popover 1.2.18-1.2.18

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1.377 promise 7.3.1-7.3.1

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1.378 js-cookie 2.1.1-2.1.1

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1.379 q 1.0.1-1.0.1

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1.380 react-dom 15.6.2-15.6.2

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1.381 readable-stream 1.1.14-1.1.14

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1.382 react-redux 5.0.7-5.0.7

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1.383 protocol-buffers-schema 3.3.2-3.3.2

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1.384 cron-converter 0.0.12-0.0.12

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1.385 react 15.6.1-15.6.1

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1.386 path-to-regexp 0.1.7-0.1.7

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1.388 jsprim 1.4.1-1.4.1

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1.389 tunnel-agent 0.6.0-0.6.0

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1.390 destroy 1.0.4-1.0.4

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1.391 amcharts3-animate 1.1.2-1.1.2

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1.393 schema-utils 0.4.7-0.4.7

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1.395 rc-trigger 1.11.3-1.11.3

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1.396 react-tooltip 3.3.0-3.3.0

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1.398 hooks-fixed 2.0.2-2.0.2

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1.402 handlebars-java 4.0.12-4.0.12

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1.406 raw-loader 0.5.1-0.5.1

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

1.407 core-decorators 0.17.0-0.17.0

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1.408 forwarded 0.1.2-0.1.2

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1.409 intl-messageformat 1.3.0-1.3.0

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1.410 ecdsa-sig-formatter 1.0.11-1.0.11

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1.414 clipboard 1.7.1-1.7.1

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1.415 prop-types 15.5.10-15.5.10

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1.422 moment 2.14.1-2.14.1

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1.446 encodeurl 1.0.2-1.0.2

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1.463 process-nextick-args 1.0.7-1.0.7

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1.464 asynckit 0.4.0-0.4.0

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1.465 debug 3.2.6-3.2.6

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1.466 safe-buffer 5.1.1-5.1.1

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1.468 loose-envify 1.3.1-1.3.1

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1.471 jwt-decode 2.2.0-2.2.0

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1.475 csscolorparser 1.0.3-1.0.3

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1.478 punycode 2.1.1-2.1.1

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1.479 babel-runtime 6.26.0-6.26.0

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1.482 ws 1.1.5-1.1.5

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1.508 rc-tooltip 3.4.7-3.4.7

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1.511 getpass 0.1.7-0.1.7

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1.513 intl-format-cache 2.0.5-2.0.5

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1.518 fresh 0.5.2-0.5.2

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1.522 amcharts3-dataloader 1.0.16-1.0.16

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1.538 @types/connect 3.4.34-3.4.34

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1.551 domutils 2.4.4-2.4.4

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1.552 form-data 3.0.0-3.0.0

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1.553 request 2.88.2-2.88.2

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1.559 esm 3.2.25-3.2.25

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1.560 @babel/runtime 7.3.4-7.3.4

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1.561 uc.micro 1.0.6-1.0.6

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1.562 datatables.net-scroller-dt 1.4.2-1.4.2

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1.563 domhandler 3.3.0-3.3.0

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1.569 @babel/runtime 7.9.2-7.9.2

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1.570 regenerator-runtime 0.13.7-0.13.7

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1.575 datatables.net-dt 1.10.15-1.10.15

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1.581 entities 2.0.3-2.0.3

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1.582 murmurhash-js 1.0.0-1.0.0

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 * @providesModule warning

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

1.591 lodash._getnative 3.9.1-3.9.1

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1.597 warning 4.0.3-4.0.3

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1.601 unist-util-visit-parents 2.1.2-2.1.2

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1.607 jszip 3.6.0-3.6.0

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1.609 react-infinite-scroller 1.2.4-1.2.4

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1.610 @mapbox/whoots-js 3.1.0-3.1.0

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1.611 bluebird 3.7.2-3.7.2

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1.612 cors 2.8.5-2.8.5

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1.614 earcut 2.2.2-2.2.2
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1.615 character-entities-legacy 1.1.4-1.1.4

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1.616 bunyan 1.8.15-1.8.15

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1.617 @types/body-parser 1.19.0-1.19.0

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1.618 config 1.31.0-1.31.0

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1.619 d3-shape 1.3.7-1.3.7

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1.620 fast-deep-equal 3.1.3-3.1.3

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1.621 ua-parser-js 0.7.12-0.7.12

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1.627 keyv 3.0.0-3.0.0

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1.629 @babel/runtime 7.7.2-7.7.2

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1.631 aws4 1.11.0-1.11.0

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1.635 ua-parser-js 0.7.14-0.7.14

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1.638 firstline 1.3.1-1.3.1

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1.648 remark-parse 5.0.0-5.0.0

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1.649 nan 2.14.2-2.14.2

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1.655 sshpk 1.16.1-1.16.1

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1.656 async 2.6.0-2.6.0

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1.658 jws 3.2.2-3.2.2

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1.660 supercluster 7.1.0-7.1.0

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1.662 font-family-papandreou 0.2.0-patch2-0.2.0-patch2

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1.664 character-reference-invalid 1.1.4-1.1.4

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1.665 value-equal 1.0.1-1.0.1

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1.670 dtrace-provider 0.8.8-0.8.8

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1.678 dom-serializer 1.2.0-1.2.0

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1.682 ms 2.1.3-2.1.3

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1.686 ieee754 1.2.1-1.2.1

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1.687 @mapbox/mapbox-sdk 0.11.0-0.11.0

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1.690 uc.micro 1.0.5-1.0.5

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1.692 trim 0.0.1-0.0.1

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trim

 Trims string whitespace.

Installation

```

$ npm install trim
$ component install component/trim

```
```

## API

  - [trim(str)](#trimstr)
  - [.left(str)](#leftstr)
  - [.right(str)](#rightstr)
<a name="" />

<a name="trimstr" />
### trim(str)
should trim leading / trailing whitespace.

```js
trim('  foo bar  ').should.equal('foo bar');
trim('\n\n\nfoo bar\n\r\n\n').should.equal('foo bar');
```

<a name="leftstr" />
.left(str)
should trim leading whitespace.

```js
trim.left('  foo bar  ').should.equal('foo bar  ');
```

<a name="rightstr" />
.right(str)
should trim trailing whitespace.

```js
trim.right('  foo bar  ').should.equal('  foo bar');
```

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* /opt/ws_local/PERMITS_SQL/1022442509_1591389383.59/0/trim-0-0-1-tgz/package/Readme.md

1.693 lodash 4.17.11-4.17.11

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1.694 socket.io-parser 3.3.2-3.3.2

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1.695 url-parse-lax 3.0.0-3.0.0

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1.696 uglify-js 3.4.9-3.4.9

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1.697 state-toggle 1.0.3-1.0.3
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1.698 @mapbox/geojson-types 1.0.2-1.0.2
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1.699 core-js 2.6.12-2.6.12

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

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

{"version":3,"file":"index.js","sources":["../../../node_modules/json-stringify-pretty-compact/index.js","../format.js","../../../node_modules/url/node_modules/punycode/punycode.js","../../../node_modules/url/util.js","../../../node_modules/querystring/decode.js","../../../node_modules/querystring/encode.js","../../../node_modules/querystring/index.js","../../../node_modules/url/url.js","../visit.js","../migrate/v8.js","../util/extend.js","../expression/parsing_error.js","../expression/scope.js","../expression/types.js","../../../node_modules/csscolorparser/csscolorparser.js","../util/color.js","../expression/types/collator.js","../expression/types/formatted.js","../expression/types/resolved_image.js","../expression/values.js","../expression/definitions/literal.js","../expression/runtime_error.js","../expression/definitions/assertion.js","../expression/definitions/format.js","../expression/definitions/image.js","../expression/definitions/coercion.js","../expression/evaluation_context.js","../expression/compound_expression.js","../expression/definitions/collator.js","../expression/definitions/within.js","../expression/is_constant.js","../expression/definitions/var.js","../expression/parsing_context.js","../expression/stops.js","../expression/definitions/step.js","../../../node_modules/@mapbox/unitbezier/index.js","../util/interpolate.js","../util/color_spaces.js","../expression/definitions/interpolate.js","../expression/definitions/coalesce.js","../expression/definitions/let.js","../expression/definitions/at.js","../expression/definitions/in.js","../expression/definitions/index_of.js","../expression/definitions/match.js","../expression/definitions/case.js","../expression/definitions/slice.js","../expression/definitions/comparison.js","../expression/definitions/number_format.js","../expression/definitions/length.js","../expression/definitions/index.js","../util/result.js","../util/properties.js","../util/get_type.js","../function/index.js","../expression/index.js","../function/convert.js","../feature_filter/index.js","../feature_filter/convert.js","../migrate/expressions.js","../migrate.js","../composite.js","../util/ref_properties.js","../deref.js","../util/deep_equal.js","../diff.js","../error/validation_error.js","../error/parsing_error.js","../validate/validate_constants.js","../util/unbundle_jsonlint.js","../validate/validate_object.js","../validate/validate_array.js","../validate/validate_number.js","../validate/validate_function.js","../validate/validate_expression.js","../validate/validate_boolean.js","../validate/validate_color.js","../validate/validate_enum.js","../validate/validate_filter.js","../validate/validate_property.js","../validate/validate_paint_property.js","../validate/validate_layout_property.js","../validate/validate_layer.js","../validate/validate_string.js","../validate/validate_source.js","../validate/validate_light.js","../validate/validate_formatted.js","../validate/validate_image.js","../validate/validate.js","../validate/validate_glyphs_url.js","../validate_style.min.js","../../../node_modules/@mapbox/jsonlint-lines-primitives/lib/jsonlint.js","../read_style.js","../validate_style.js","../validate_mapbox_api_supported.js","../style-spec.js"],"sourcesContent":["\"use strict\";\n\n// Note: This regex matches even invalid JSON strings, but since we're\n// working on the output of `JSON.stringify` we know that only valid strings\n// are present (unless the user supplied a weird `options.indent`\n// but in\n// that case we don't care since the output would be invalid anyway).\nvar stringOrChar = /(\"(?:[^\\\\\"]|\\\\.)*\")|[:,]/g;\nmodule.exports = function stringify(passedObj, options) {\n var indent, maxLength, replacer;\n\n options = options || {};\n indent = JSON.stringify(\n   [1],\n   undefined,\n   options.indent === undefined ? 2 : options.indent\n).slice(2, -3);\n maxLength =\n   indent === \"\"\n   ? Infinity\n   : options.maxLength === undefined\n   ? 80\n   : options.maxLength;\n replacer = options.replacer;\n\n return (function _stringify(obj, currentIndent, reserved) {\n   // prettier-ignore\n   var end, index, items, key, keyPart, keys, length, nextIndent, prettified, start, string, value;\n\n   if (obj && typeof obj.toJSON === \"function\") {\n   obj = obj.toJSON();\n   }\n\n   string = JSON.stringify(obj, replacer);\n\n   if (string === undefined) {\n   return string;\n   }\n\n   length = maxLength - currentIndent.length - reserved;\n\n   if (string.length <= length) {\n   prettified = string.replace(stringOrChar, function(match, stringLiteral) {\n   return stringLiteral || match + \" \";\n   });\n   if (prettified.length <= length) {\n   return prettified;\n   }\n   }\n\n   if (replacer != null) {\n   obj = JSON.parse(string);\n   replacer = undefined;\n   }\n\n   if (typeof obj === \"object\" && obj !== null) {\n   nextIndent = currentIndent + indent;\n   items = [];\n   index = 0;\n\n   if (Array.isArray(obj)) {\n   start = \"[\";\n   end = \"]\";\n   length = obj.length;\n   for (; index < length; index++) {\n   items.push(\n

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

{\n\t\t\t// In email addresses, only the domain name should be punycoded. Leave\n\t\t\t// the local part (i.e. everything up to `@`) intact.\n\t\t\tresult = parts[0] + '@';\n\t\t\tstring = parts[1];\n\t\t}\n\t\t\t// Avoid `split(regex)` for IE8 compatibility. See #17.\n\t\tstring = string.replace(regexSeparators, '\\x2E');\n\t\tvar labels = string.split('.');\n\t\tvar encoded = map(labels, fn).join('.');\n\t\treturn result + encoded;\n\t}\n\n\t/**\n\t * Creates an array containing the numeric code points of each Unicode\n\t * character in the string. While JavaScript uses UCS-2 internally,\n\t * this function will convert a pair of surrogate halves (each of which\n\t * UCS-2 exposes as separate characters) into a single code point,\n\t * matching UTF-16.\n\t * @see `punycode.ucs2.encode`\n\t * @see <https://mathiasbynens.be/notes/javascript-encoding>\n\t * @memberOf punycode.ucs2\n\t * @name decode\n\t * @param {String} string The Unicode input string (UCS-2).\n\t * @returns {Array} The new array of code points.\n\t */\n\tfunction ucs2decode(string) {\n\t\tvar output = [],\n\t\t   counter = 0,\n\t\t   length = string.length,\n\t\t   value,\n\t\t   extra;\n\t\twhile (counter < length) {\n\t\t\tvalue = string.charCodeAt(counter++);\n\t\t\tif (value >= 0xD800 && value <= 0xDBFF && counter < length) {\n\t\t\t\t// high surrogate, and there is a next character\n\t\t\t\textra = string.charCodeAt(counter++);\n\t\t\t\tif ((extra & 0xFC00) == 0xDC00) { // low surrogate\n\t\t\t\t\toutput.push(((value & 0x3FF) << 10) + (extra & 0x3FF) + 0x10000);\n\t\t\t\t} else {\n\t\t\t\t\t// unmatched surrogate; only append this code unit, in case the next\n\t\t\t\t\t// code unit is the high surrogate of a surrogate pair\n\t\t\t\t\toutput.push(value);\n\t\t\t\t\tcounter--;\n\t\t\t\t}\n\t\t\t} else {\n\t\t\t\toutput.push(value);\n\t\t\t}\n\t\t}\n\t\treturn output;\n\t}\n\n\t/**\n\t * Creates a string based on an array of numeric code points.\n\t * @see `punycode.ucs2.decode`\n\t * @memberOf punycode.ucs2\n\t * @name encode\n\t * @param {Array} codePoints The array of numeric code points.\n\t * @returns {String} The new Unicode string (UCS-2).\n\t */\n\tfunction ucs2encode(array) {\n\t\treturn map(array, function(value) {\n\t\t\tvar output = '';\n\t\t\tif (value > 0xFFFF) {\n\t\t\t\tvalue -= 0x10000;\n\t\t\t\toutput += stringFromCharCode(value >>> 10 & 0x3FF | 0xD800);\n\t\t\t\tvalue = 0xDC00 | value & 0x3FF;\n\t\t\t}\n\t\t\toutput += stringFromCharCode(value);\n\t\t\treturn output;\n\t\t}).join('');\n\t}\n\n\t/**\n\t * Converts a basic code point into a digit/integer.\n\t * @see `digitToBasic()`\n\t * @private\n\t * @param {Number} codePoint The basic numeric code point value.\n\t * @returns {Number} The numeric value of a basic code point\n\t * (for use in\n\t * representing integers) in the range `0` to `base - 1`, or `base` if\n\t * the code point does not represent a value.\n\t */\n\tfunction basicToDigit(codePoint) {\n\t\tif (codePoint - 48 < 10) {\n\t\t\treturn codePoint - 22;\n\t\t}\n\t\tif (codePoint - 65 < 26) {\n\t\t\treturn codePoint - 65;\n\t\t}\n\t\tif (codePoint - 97 < 26) {\n\t\t\treturn codePoint - 97;\n\t\t}\n\t\treturn base;\n\t}\n\n\t/**\n\t * Converts a digit/integer into a basic code point.\n\t * @see `basicToDigit()`\n\t * @private\n\t * @param {Number} digit The numeric value of a basic code point.\n\t * @returns {Number} The basic code point whose value (when used for\n\t * representing integers) is `digit`, which needs to be in the range\n\t * `0` to `base - 1`. If `flag` is non-zero, the uppercase form is\n\t * used; else, the lowercase form is used. The behavior is undefined\n\t * if `flag` is non-zero and `digit` has no uppercase form.\n\t */\n\tfunction digitToBasic(digit, flag) {\n\t\t// 0..25 map to ASCII a..z or A..Z\n\t\t// 26..35 map to ASCII 0..9\n\t\treturn digit + 22 + 75 * (digit < 26) - ((flag != 0) << 5);\n\t}\n\n\t/**\n\t * Bias adaptation function as per section 3.4 of RFC 3492.\n\t * http://tools.ietf.org/html/rfc3492#section-3.4\n\t * @private\n\t */\n\tfunction adapt(delta, numPoints, firstTime) {\n\t\tvar k = 0;\n\t\tdelta = firstTime ? floor(delta / damp) : delta >> 1;\n\t\tdelta += floor(delta / numPoints);\n\t\tfor (/* no initialization */; delta > baseMinusTMin * tMax >> 1; k += base) {\n\t\t\tdelta = floor(delta / baseMinusTMin);\n\t\t}\n\t\treturn floor(k + (baseMinusTMin + 1) * delta / (delta + skew));\n\t}\n\n\t/**\n\t * Converts a Punycode string of ASCII-only symbols to a string of Unicode\n\t * symbols.\n\t * @memberOf punycode\n\t * @param {String} input The Punycode string of ASCII-only symbols.\n\t * @returns {String} The resulting string of Unicode symbols.\n\t */\n\tfunction decode(input) {\n\t\t// Don't use UCS-2\n\t\tvar output = [],\n\t\t   inputLength = input.length,\n\t\t   out,\n\t\t   i = 0,\n\t\t   n = initialN,\n\t\t   bias = initialBias,\n\t\t   basic,\n\t\t   j,\n\t\t   index,\n\t\t   oldi,\n\t\t   w,\n\t\t   k,\n\t\t   digit,\n\t\t   t,\n\t\t   /** Cached calculation results */\n\t\t   baseMinusT;\n\n\t\t\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\tbasic

= input.lastIndexOf(delimiter);\n\t\tif (basic < 0) {\n\t\t\tbasic = 0;\n\t\t}\n\n\t\tfor (j = 0; j < basic; ++j) {\n\t\t\t// if it's not a basic code

point\n\t\t\tif (input.charCodeAt(j) >= 0x80) {\n\t\t\t\terror('not-basic');\n\t\t\t}\n\t\t\toutput.push(input.charCodeAt(j));\n\t\t}\n\n\t\t// Main decoding loop: start just after the last delimiter if any basic code\n\t\t\t// points were copied; start at the beginning otherwise.\n\n\t\tfor (index = basic > 0 ? basic + 1 : 0; index < inputLength; /* no final expression */) {\n\n\t\t\t// `index` is the index of the next character to be consumed.\n\t\t\t// Decode a generalized variable-length integer into `delta`,\n\t\t\t// which gets added to `i`. The overflow checking is easier\n\t\t\t// if we increase `i` as we go, then subtract off its starting\n\t\t\t// value at the end to obtain `delta`.\n\t\t\tfor (oldi = i, w = 1, k = base; /* no condition */; k += base) {\n\n\t\t\t\tif (index >= inputLength) {\n\t\t\t\t\terror('invalid-input');\n\t\t\t\t}\n\n\t\t\t\tdigit = basicToDigit(input.charCodeAt(index++));\n\t\t\t\tif (digit >= base || digit > floor((maxInt - i) / w)) {\n\t\t\t\t\terror('overflow');\n\t\t\t\t}\n\n\t\t\t\ti

+= digit * w;\n\t\t\t\tt = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);\n\t\t\t\tif (digit < t) {\n\t\t\t\t\tbreak;\n\t\t\t\t}\n\n\t\t\t\tbaseMinusT = base - t;\n\t\t\t\tif (w > floor(maxInt / baseMinusT)) {\n\t\t\t\t\terror('overflow');\n\t\t\t\t}\n\n\t\t\t\tw *= baseMinusT;\n\t\t\t}\n\n\t\t\tout = output.length + 1;\n\t\t\tbias = adapt(i - oldi, out, oldi == 0);\n\n\t\t\t// `i` was supposed to wrap around from `out` to `0`,\n\t\t\t// incrementing `n` each time, so we'll fix that now:\n\t\t\tif (floor(i / out) > maxInt - n) {\n\t\t\t\terror('overflow');\n\t\t\t}\n\n\t\t\tn += floor(i / out);\n\t\t\ti %= out;\n\n\t\t\t// Insert `n` at position `i` of the output\n\t\t\toutput.splice(i++, 0, n);\n\n\t\t}\n\n\t\treturn ucs2encode(output);\n\t}\n\n\t/**\n\t * Converts a string of Unicode symbols (e.g. a domain name label) to a\n\t * Punycode string of ASCII-only symbols.\n\t * @memberOf punycode\n\t * @param {String} input The string

of Unicode symbols.\n\t * @returns {String} The resulting Punycode string of ASCII-only symbols.\n\t */\n\tfunction encode(input) {\n\t\tvar n,\n\t\t   delta,\n\t\t   handledCPCount,\n\t\t   basicLength,\n\t\t   bias,\n\t\t   j,\n\t\t   m,\n\t\t   q,\n\t\t   k,\n\t\t   t,\n\t\t   currentValue,\n\t\t   output = [],\n\t\t   /** `inputLength` will hold the number of code points in `input`. */\n\t\t   inputLength,\n\t\t   /** Cached calculation results */\n\t\t   handledCPCountPlusOne,\n\t\t   baseMinusT,\n\t\t   qMinusT;\n\n\t\t// Convert the input in UCS-2 to Unicode\n\t\tinput = ucs2decode(input);\n\n\t\t// Cache the length\n\t\tinputLength = input.length;\n\n\t\t// Initialize the state\n\t\tn = initialN;\n\t\tdelta = 0;\n\t\tbias = initialBias;\n\n\t\t// Handle the basic code points\n\t\tfor (j = 0; j < inputLength; ++j) {\n\t\t\tcurrentValue = input[j];\n\t\t\tif (currentValue < 0x80) {\n\t\t\t\toutput.push(stringFromCharCode(currentValue));\n\t\t\t}\n\t\t}\n\n\t\thandledCPCount

= basicLength = output.length;\n\n\t\t// `handledCPCount` is the number of code points that have been handled;\n\t\t// `basicLength` is the number of basic code points.\n\n\t\t// Finish the basic string - if it is not empty - with a delimiter\n\t\tif (basicLength) {\n\t\t\toutput.push(delimiter);\n\t\t}\n\n\t\t// Main encoding loop:\n\t\twhile (handledCPCount < inputLength) {\n\n\t\t\t// All non-basic code points < n have been handled already. Find the next\n\t\t\t// larger one:\n\t\t\tfor (m = maxInt, j = 0; j < inputLength; ++j) {\n\t\t\t\tcurrentValue = input[j];\n\t\t\t\tif (currentValue >= n && currentValue < m) {\n\t\t\t\t\tm = currentValue;\n\t\t\t\t}\n\t\t\t}\n\n\t\t\t// Increase `delta` enough to advance the decoder's <n,i> state to <m,0>,\n\t\t\t// but guard against overflow\n\t\t\thandledCPCountPlusOne = handledCPCount + 1;\n\t\t\tif (m - n > floor((maxInt - delta) / handledCPCountPlusOne)) {\n\t\t\t\terror('overflow');\n\t\t\t}\n\n\t\t\tdelta += (m - n) * handledCPCountPlusOne;\n\t\t\tn

= m;\n\n\t\t\tfor (j = 0; j < inputLength; ++j) {\n\t\t\t\tcurrentValue = input[j];\n\n\t\t\t\tif (currentValue < n && ++delta > maxInt) {\n\t\t\t\t\terror('overflow');\n\t\t\t\t}\n\n\t\t\t\tif (currentValue == n) {\n\t\t\t\t\t// Represent delta as a generalized variable-length integer\n\t\t\t\t\tfor (q = delta, k = base; /* no condition */; k += base) {\n\t\t\t\t\t\tt = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);\n\t\t\t\t\t\tif (q < t) {\n\t\t\t\t\t\t\tbreak;\n\t\t\t\t\t\t}\n\t\t\t\t\t\tqMinusT = q - t;\n\t\t\t\t\t\tbaseMinusT = base - t;\n\t\t\t\t\t\toutput.push(\n\t\t\t\t\t\t\tstringFromCharCode(digitToBasic(t + qMinusT % baseMinusT, 0))\n\t\t\t\t\t\t);\n\t\t\t\t\t\tq = floor(qMinusT / baseMinusT);\n\t\t\t\t\t}\n\n\t\t\t\t\toutput.push(stringFromCharCode(digitToBasic(q, 0)));\n\t\t\t\t\tbias = adapt(delta, handledCPCountPlusOne, handledCPCount == basicLength);\n\t\t\t\t\tdelta =

0;\n\t\t\t\t\t++handledCPCount;\n\t\t\t\t}\n\t\t\t}\n\n\t\t\t++delta;\n\t\t\t++n;\n\n\t\t}\n\t\treturn

 output.join('');\n\t}\n\n\t/**\n\t * Converts a Punycode string representing a domain name or an email address\n\t * to Unicode. Only the Punycoded parts of the input will be converted, i.e.\n\t * it doesn't matter if you call it on a string that has already been\n\t * converted to Unicode.\n\t * @memberOf punycode\n\t * @param {String} input The Punycoded domain name or email address to\n\t * convert to Unicode.\n\t * @returns {String} The Unicode representation of the given Punycode\n\t * string.\n\t */\n\tfunction toUnicode(input) {\n\t\treturn mapDomain(input, function(string) {\n\t\t\treturn regexPunycode.test(string)\n\t\t\t? decode(string.slice(4).toLowerCase())\n\t\t\t: string;\n\t\t});\n\t}\n\n\t/**\n\t * Converts a Unicode string representing a domain name or an email address to\n\t * Punycode. Only the non-ASCII parts of the domain name will be converted,\n\t * i.e. it doesn't matter if you call it with a domain that's already in\n\t

 * ASCII.\n\t * @memberOf punycode\n\t * @param {String} input The domain name or email address to convert, as a\n\t * Unicode string.\n\t * @returns {String} The Punycode representation of the given domain name or\n\t * email address.\n\t */\n\tfunction toASCII(input) {\n\t\treturn mapDomain(input, function(string) {\n\t\t\treturn regexNonASCII.test(string)\n\t\t\t? 'xn--' + encode(string)\n\t\t\t: string;\n\t\t});\n\t}\n\n\t/*--*/\n\n\t/** Define the public API */\n\tpunycode = {\n\t\t/**\n\t\t * A string representing the current Punycode.js version number.\n\t\t * @memberOf punycode\n\t\t * @type String\n\t\t */\n\t\t'version': '1.3.2',\n\t\t/**\n\t\t * An object of methods to convert from JavaScript's internal character\n\t\t * representation (UCS-2) to Unicode code points, and back.\n\t\t * @see <https://mathiasbynens.be/notes/javascript-encoding>\n\t\t * @memberOf punycode\n\t\t * @type Object\n\t\t */\n\t\t'ucs2':

 {\n\t\t\t'decode': ucs2decode,\n\t\t\t'encode': ucs2encode\n\t\t},\n\t\t'decode': decode,\n\t\t'encode': encode,\n\t\t'toASCII': toASCII,\n\t\t'toUnicode': toUnicode\n\t};\n\n\t/** Expose `punycode` */\n\t// Some AMD build optimizers, like r.js, check for specific condition patterns\n\t// like the following:\n\tif (\n\t\ttypeof define == 'function' &&\n\t\ttypeof define.amd == 'object' &&\n\t\tdefine.amd\n\t) {\n\t\tdefine('punycode', function() {\n\t\t\treturn punycode;\n\t\t});\n\t} else if (freeExports && freeModule) {\n\t\tif (module.exports == freeExports) { // in Node.js or RingoJS v0.8.0+\n\t\t\tfreeModule.exports = punycode;\n\t\t} else { // in Narwhal or RingoJS v0.7.0-\n\t\t\tfor (key in punycode) {\n\t\t\t\tpunycode.hasOwnProperty(key) && (freeExports[key] = punycode[key]);\n\t\t\t}\n\t\t}\n\t}\n\t} else { // in Rhino or a web browser\n\t\troot.punycode = punycode;\n\t}\n\n}(this));\n","'use strict';\n\nmodule.exports = {\n isString: function(arg) {\n   return typeof(arg) === 'string';\n },\n isObject: function(arg) {\n   return typeof(arg) === 'object' && arg !== null;\n },\n isNull: function(arg) {\n   return arg === null;\n },\n isNullOrUndefined: function(arg) {\n   return arg == null;\n }\n};\n","// Copyright Joyent, Inc. and other Node contributors.\n//\n// Permission is hereby granted, free of charge, to any person obtaining a\n// copy of this software and associated documentation files (the\n// \"Software\"), to deal in the Software without restriction, including\n// without limitation the rights to use, copy, modify, merge, publish,\n// distribute, sublicense, and/or sell copies of the Software, and to permit\n// persons to whom the Software is furnished to do so, subject to the\n// following conditions:\n//\n// The above copyright notice and this permission notice shall be included\n// in all copies or substantial portions of the Software.\n//\n// THE SOFTWARE IS PROVIDED \"AS IS\", WITHOUT WARRANTY OF ANY KIND, EXPRESS\n// OR

 IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF\n// MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN\n// NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,\n// DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR\n// OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE\n// USE OR OTHER DEALINGS IN THE SOFTWARE.\n\n'use strict';\n\n// If obj.hasOwnProperty has been overridden, then calling\n// obj.hasOwnProperty(prop) will break.\n// See: https://github.com/joyent/node/issues/1707\nfunction hasOwnProperty(obj, prop) {\n return Object.prototype.hasOwnProperty.call(obj, prop);\n}\n\nmodule.exports = function(qs, sep, eq, options) {\n sep = sep || '&';\n eq = eq || '=';\n var obj = {};\n\n if (typeof qs !== 'string' || qs.length === 0) {\n   return obj;\n }\n\n var regexp = /\\+/g;\n qs = qs.split(sep);\n\n var maxKeys = 1000;\n if (options && typeof options.maxKeys === 'number') {\n

maxKeys = options.maxKeys;\n }\n\n var len = qs.length;\n // maxKeys <= 0 means that we should not limit keys count\n if (maxKeys > 0 && len > maxKeys) {\n   len = maxKeys;\n }\n\n for (var i = 0; i < len; ++i) {\n   var x = qs[i].replace(regexp, '%20'),\n   idx = x.indexOf(eq),\n   kstr, vstr, k, v;\n\n   if (idx >= 0) {\n   kstr = x.substr(0, idx);\n   vstr = x.substr(idx + 1);\n   } else {\n   kstr = x;\n   vstr = ";\n   }\n\n   k = decodeURIComponent(kstr);\n   v = decodeURIComponent(vstr);\n\n   if (!hasOwnProperty(obj, k)) {\n   obj[k] = v;\n   } else if (Array.isArray(obj[k])) {\n   obj[k].push(v);\n   } else {\n   obj[k] = [obj[k], v];\n   }\n }\n\n return obj;\n};\n","// Copyright Joyent, Inc. and other Node contributors.\n//\n// Permission is hereby granted, free of charge, to any person obtaining a\n// copy of this software and associated documentation files (the\n// \"Software\"), to deal in the Software without restriction,

 including\n// without limitation the rights to use, copy, modify, merge, publish,\n// distribute, sublicense, and/or sell copies of the Software, and to permit\n// persons to whom the Software is furnished to do so, subject to the\n// following conditions:\n//\n// The above copyright notice and this permission notice shall be included\n// in all copies or substantial portions of the Software.\n//\n// THE SOFTWARE IS PROVIDED \"AS IS\", WITHOUT WARRANTY OF ANY KIND, EXPRESS\n// OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF\n// MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN\n// NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,\n// DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR\n// OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE\n// USE OR OTHER DEALINGS IN THE SOFTWARE.\n\n'use strict';\n\nvar stringifyPrimitive = function(v) {\n switch (typeof v) {\n   case 'string':\n

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

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

 OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR\n// OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE\n// USE OR OTHER DEALINGS IN THE SOFTWARE.\n\n'use strict';\n\nvar punycode = require('punycode');\nvar util = require('./util');\n\nexports.parse = urlParse;\nexports.resolve = urlResolve;\nexports.resolveObject = urlResolveObject;\nexports.format = urlFormat;\n\nexports.Url = Url;\n\nfunction Url() {\n this.protocol = null;\n this.slashes = null;\n this.auth = null;\n this.host = null;\n this.port = null;\n this.hostname = null;\n this.hash = null;\n this.search = null;\n this.query = null;\n this.pathname = null;\n this.path = null;\n this.href = null;\n}\n\n// Reference: RFC 3986, RFC 1808, RFC 2396\n\n// define these here so at least they only have to be\n// compiled

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

atSign;\n   if (hostEnd === -1) {\n   // atSign can be anywhere.\n   atSign = rest.lastIndexOf('@');\n   } else {\n   // atSign must be in auth portion.\n   // http://a@b/c@d => host:b auth:a path:/c@d\n   atSign = rest.lastIndexOf('@', hostEnd);\n   }\n\n   // Now we have a portion which is definitely the auth.\n   // Pull that off.\n   if (atSign !== -1) {\n   auth = rest.slice(0, atSign);\n   rest = rest.slice(atSign + 1);\n   this.auth = decodeURIComponent(auth);\n   }\n\n   // the host is the remaining to the left of the first non-host char\n   hostEnd = -1;\n   for (var i = 0; i < nonHostChars.length; i++) {\n   var hec = rest.indexOf(nonHostChars[i]);\n   if (hec !== -1 && (hostEnd === -1 || hec < hostEnd))\n   hostEnd = hec;\n   }\n   // if we still have not hit it, then the entire thing is a host.\n   if (hostEnd === -1)\n   hostEnd = rest.length;\n\n   this.host = rest.slice(0, hostEnd);\n   rest = rest.slice(hostEnd);\n\n

    // pull out port.\n   this.parseHost();\n\n   // we've indicated that there is a hostname,\n   // so even if it's empty, it has to be present.\n   this.hostname = this.hostname || '';\n\n   // if hostname begins with [and ends with]\n   // assume that it's an IPv6 address.\n   var ipv6Hostname = this.hostname[0] === '[' &&\n   this.hostname[this.hostname.length - 1] === ']';\n\n   // validate a little.\n   if (!ipv6Hostname) {\n   var hostparts = this.hostname.split(/\\./);\n   for (var i = 0, l = hostparts.length; i < l; i++) {\n   var part = hostparts[i];\n   if (!part) continue;\n   if (!part.match(hostnamePartPattern)) {\n   var newpart = '';\n   for (var j = 0, k = part.length; j < k; j++) {\n   if (part.charCodeAt(j) > 127) {\n   // we replace non-ASCII char with a temporary placeholder\n   // we need this to make sure size of hostname is not\n   // broken by replacing non-ASCII by

nothing\n   newpart += 'x';\n   } else {\n   newpart += part[j];\n   }\n   }\n   // we test again with ASCII char only\n   if (!newpart.match(hostnamePartPattern)) {\n   var validParts = hostparts.slice(0, i);\n   var notHost = hostparts.slice(i + 1);\n   var bit = part.match(hostnamePartStart);\n   if (bit) {\n   validParts.push(bit[1]);\n   notHost.unshift(bit[2]);\n   }\n   if (notHost.length) {\n   rest = '/' + notHost.join('.') + rest;\n   }\n   this.hostname = validParts.join('.');\n   break;\n   }\n   }\n   }\n   }\n\n   if (this.hostname.length > hostnameMaxLen) {\n   this.hostname = '';\n   } else {\n   // hostnames are always lower case.\n   this.hostname = this.hostname.toLowerCase();\n   }\n\n   if (!ipv6Hostname) {\n   // IDNA Support: Returns a punycoded representation

of \"domain\".\n   // It only converts parts of the domain name that\n   // have non-ASCII characters, i.e. it doesn't matter if\n   // you call it with a domain that already is ASCII-only.\n   this.hostname = punycode.toASCII(this.hostname);\n   }\n\n   var p = this.port ? ':' + this.port : '';\n   var h = this.hostname || '';\n   this.host = h + p;\n   this.href += this.host;\n\n   // strip [and] from the hostname\n   // the host field still retains them, though\n   if (ipv6Hostname) {\n   this.hostname = this.hostname.substr(1, this.hostname.length - 2);\n   if (rest[0] !== '/') {\n   rest = '/' + rest;\n   }\n   }\n }\n\n // now rest is set to the post-host stuff.\n // chop off any delim chars.\n if (!unsafeProtocol[lowerProto]) {\n\n   // First, make 100% sure that any \"autoEscape\" chars get\n   // escaped, even if encodeURIComponent doesn't think they\n   // need to be.\n   for (var i = 0, l = autoEscape.length; i < l; i++) {\n

    var ae = autoEscape[i];\n   if (rest.indexOf(ae) === -1)\n   continue;\n   var esc = encodeURIComponent(ae);\n   if (esc === ae) {\n   esc = escape(ae);\n   }\n   rest = rest.split(ae).join(esc);\n   }\n }\n\n\n // chop off from the tail first.\n var hash = rest.indexOf('#');\n if (hash !== -1) {\n   // got a fragment string.\n   this.hash = rest.substr(hash);\n   rest = rest.slice(0, hash);\n }\n var qm = rest.indexOf('?');\n if (qm !== -1) {\n   this.search = rest.substr(qm);\n   this.query = rest.substr(qm + 1);\n   if (parseQueryString) {\n   this.query = querystring.parse(this.query);\n   }\n   rest = rest.slice(0, qm);\n } else if (parseQueryString) {\n   // no query string, but parseQueryString still requested\n   this.search = '';\n   this.query = {};\n }\n if (rest) this.pathname = rest;\n if (slashedProtocol[lowerProto] &&\n   this.hostname && !this.pathname) {\n   this.pathname = '/';\n }\n\n //to support http.request\n

  if (this.pathname || this.search) {\n   var p = this.pathname || '';\n   var s = this.search || '';\n   this.path = p + s;\n }\n\n // finally, reconstruct the href based on what has been validated.\n this.href = this.format();\n return this;\n};\n\n\n// format a parsed object into a url string\nfunction urlFormat(obj) {\n // ensure it's an object, and not a

string url.\n // If it's an obj, this is a no-op.\n // this way, you can call url_format() on strings\n // to clean up potentially wonky urls.\n if (util.isString(obj)) obj = urlParse(obj);\n if (!(obj instanceof Url)) return Url.prototype.format.call(obj);\n return obj.format();\n}\n\nUrl.prototype.format = function() {\n var auth = this.auth || '';\n if (auth) {\n auth = encodeURIComponent(auth);\n auth = auth.replace(/%3A/i, ':');\n auth += '@';\n }\n\n var protocol = this.protocol || '',\n pathname = this.pathname || '',\n hash = this.hash || '',\n host = false,\n query = '';\n\n if (this.host) {\n host = auth + this.host;\n } else if (this.hostname) {\n host = auth + (this.hostname.indexOf(':') === -1 ?\n this.hostname :\n '[' + this.hostname + ']');\n if (this.port) {\n host += ':' + this.port;\n }\n }\n\n if (this.query &&\n util.isObject(this.query) &&\n Object.keys(this.query).length) {\n query = querystring.stringify(this.query);\n }\n\n var search = this.search || (query && ('?' + query)) || '';\n\n if (protocol && protocol.substr(-1) !== ':') protocol += ':';\n\n // only the slashedProtocols get the //. Not mailto:, xmpp:, etc.\n // unless they had them to begin with.\n if (this.slashes ||\n (!protocol || slashedProtocol[protocol]) && host !== false) {\n host = '//' + (host || '');\n if (pathname && pathname.charAt(0) !== '/') pathname = '/' + pathname;\n } else if (!host) {\n host = '';\n }\n\n if (hash && hash.charAt(0) !== '#') hash = '#' + hash;\n if (search && search.charAt(0)

!== '?') search = '?' + search;\n\n pathname = pathname.replace(/[?#]/g, function(match) {\n return encodeURIComponent(match);\n });\n search = search.replace('#', '%23');\n\n return protocol + host + pathname + search + hash;\n};\n\nfunction urlResolve(source, relative) {\n return urlParse(source, false, true).resolve(relative);\n}\n\nUrl.prototype.resolve = function(relative) {\n return this.resolveObject(urlParse(relative, false, true)).format();\n};\n\nfunction urlResolveObject(source, relative) {\n if (!source) return relative;\n return urlParse(source, false, true).resolveObject(relative);\n}\n\nUrl.prototype.resolveObject = function(relative) {\n if (util.isString(relative)) {\n var rel = new Url();\n rel.parse(relative, false, true);\n relative = rel;\n }\n\n var result = new Url();\n var tkeys = Object.keys(this);\n for (var tk = 0; tk < tkeys.length; tk++) {\n var tkey = tkeys[tk];\n result[tkey] = this[tkey];\n }\n\n // hash is always overridden,

no matter what.\n // even href=\"\" will remove it.\n result.hash = relative.hash;\n\n // if the relative url is empty, then there's nothing left to do here.\n if (relative.href === '') {\n result.href = result.format();\n return result;\n }\n\n // hrefs like //foo/bar always cut to the protocol.\n if (relative.slashes && !relative.protocol) {\n // take everything except the protocol from relative\n var rkeys = Object.keys(relative);\n for (var rk = 0; rk < rkeys.length; rk++) {\n var rkey = rkeys[rk];\n if (rkey !== 'protocol')\n result[rkey] = relative[rkey];\n }\n\n //urlParse appends trailing / to urls like http://www.example.com\n if (slashedProtocol[result.protocol] &&\n result.hostname && !result.pathname) {\n result.path = result.pathname = '/';\n }\n\n result.href = result.format();\n return result;\n }\n\n if (relative.protocol && relative.protocol !== result.protocol) {\n // if it's a known url protocol,

then changing\n // the protocol does weird things\n // first, if it's not file:, then we MUST have a host,\n // and if there was a path\n // to begin with, then we MUST have a path.\n // if it is file:, then the host is dropped,\n // because that's known to be hostless.\n // anything else is assumed to be absolute.\n if (!slashedProtocol[relative.protocol]) {\n var keys = Object.keys(relative);\n for (var v = 0; v < keys.length; v++) {\n var k = keys[v];\n result[k] = relative[k];\n }\n result.href = result.format();\n return result;\n }\n\n result.protocol = relative.protocol;\n if (!relative.host && !hostlessProtocol[relative.protocol]) {\n var relPath = (relative.pathname || '').split('/');\n while (relPath.length && !(relative.host = relPath.shift()));\n if (!relative.host) relative.host = '';\n if (!relative.hostname) relative.hostname = '';\n if (relPath[0] !== '') relPath.unshift('');\n

if (relPath.length < 2) relPath.unshift('');\n result.pathname = relPath.join('/');\n } else {\n result.pathname = relative.pathname;\n }\n result.search = relative.search;\n result.query = relative.query;\n result.host = relative.host || '';\n result.auth = relative.auth;\n result.hostname = relative.hostname || relative.host;\n result.port = relative.port;\n // to support http.request\n if (result.pathname || result.search) {\n var p = result.pathname || '';\n var s = result.search || '';\n result.path = p + s;\n }\n result.slashes =

result.slashes || relative.slashes;\n   result.href = result.format();\n   return result;\n }\n\n var isSourceAbs = (result.pathname && result.pathname.charAt(0) === '/'),\n   isRelAbs = (\n   relative.host ||\n   relative.pathname && relative.pathname.charAt(0) === '/'\n   ),\n   mustEndAbs = (isRelAbs || isSourceAbs ||\n   (result.host

&& relative.pathname)),\n   removeAllDots = mustEndAbs,\n   srcPath = result.pathname && result.pathname.split('/') || [],\n   relPath = relative.pathname && relative.pathname.split('/') || [],\n   psychotic = result.protocol && !slashedProtocol[result.protocol];\n\n // if the url is a non-slashed url, then relative\n // links like ../.. should be able\n // to crawl up to the hostname, as well. This is strange.\n // result.protocol has already been set by now.\n // Later on, put the first path part into the host field.\n if (psychotic) {\n   result.hostname = '';\n   result.port = null;\n   if (result.host) {\n   if (srcPath[0] === '') srcPath[0] = result.host;\n   else srcPath.unshift(result.host);\n   }\n   result.host = '';\n   if (relative.protocol) {\n   relative.hostname = null;\n   relative.port = null;\n   if (relative.host) {\n   if (relPath[0] === '') relPath[0] = relative.host;\n   else relPath.unshift(relative.host);\n

    }\n   relative.host = null;\n   }\n   mustEndAbs = mustEndAbs && (relPath[0] === '' || srcPath[0] === '');\n }\n\n if (isRelAbs) {\n   // it's absolute.\n   result.host = (relative.host || relative.host === '') ?\n   relative.host : result.host;\n   result.hostname = (relative.hostname || relative.hostname === '') ?\n   relative.hostname : result.hostname;\n   result.search = relative.search;\n   result.query = relative.query;\n   srcPath = relPath;\n   // fall through to the dot-handling below.\n } else if (relPath.length) {\n   // it's relative\n   // throw away the existing file, and take the new path instead.\n   if (!srcPath) srcPath = [];\n   srcPath.pop();\n   srcPath = srcPath.concat(relPath);\n   result.search = relative.search;\n   result.query = relative.query;\n } else if (!util.isNullOrUndefined(relative.search)) {\n   // just pull out the search.\n   // like href='?foo'.\n   // Put this after the other two cases

because it simplifies the booleans\n   if (psychotic) {\n   result.hostname = result.host = srcPath.shift();\n   //occationaly the auth can get stuck only in host\n   //this especially happens in cases like\n   //url.resolveObject('mailto:local1@domain1', 'local2@domain2')\n   var authInHost = result.host && result.host.indexOf('@') > 0 ?\n   result.host.split('@') : false;\n   if (authInHost) {\n   result.auth = authInHost.shift();\n   result.host = result.hostname = authInHost.shift();\n   }\n   }\n   result.search = relative.search;\n   result.query = relative.query;\n   //to support http.request\n   if (!util.isNull(result.pathname) || !util.isNull(result.search)) {\n   result.path = (result.pathname ? result.pathname : '') +\n   (result.search ? result.search : '');\n   }\n   result.href = result.format();\n   return result;\n }\n\n if (!srcPath.length) {\n   // no path at all. easy.\n   // we've

already handled the other stuff above.\n   result.pathname = null;\n   //to support http.request\n   if (result.search) {\n   result.path = '/' + result.search;\n   } else {\n   result.path = null;\n   }\n   result.href = result.format();\n   return result;\n }\n\n // if a url ENDS in . or .., then it must get a trailing slash.\n // however, if it ends in anything else non-slashy,\n // then it must NOT get a trailing slash.\n var last = srcPath.slice(-1)[0];\n var hasTrailingSlash = (\n   (result.host || relative.host || srcPath.length > 1) &&\n   (last === '.' || last === '..') || last === '');\n\n // strip single dots, resolve double dots to parent dir\n // if the path tries to go above the root, `up` ends up > 0\n var up = 0;\n for (var i = srcPath.length; i >= 0; i--) {\n   last = srcPath[i];\n   if (last === '.') {\n   srcPath.splice(i, 1);\n   } else if (last === '..') {\n   srcPath.splice(i, 1);\n   up++;\n   } else if (up) {\n

    srcPath.splice(i, 1);\n   up--;\n   }\n }\n\n // if the path is allowed to go above the root, restore leading ..s\n if (!mustEndAbs && !removeAllDots) {\n   for (; up--; up) {\n   srcPath.unshift('..');\n   }\n }\n\n if (mustEndAbs && srcPath[0] !== '' &&\n   (!srcPath[0] || srcPath[0].charAt(0) !== '/')) {\n   srcPath.unshift('');\n }\n\n if (hasTrailingSlash && (srcPath.join('/').substr(-1) !== '/')) {\n   srcPath.push('');\n }\n\n var isAbsolute = srcPath[0] === '' ||\n   (srcPath[0] && srcPath[0].charAt(0) === '/');\n\n // put the host back\n if (psychotic) {\n   result.hostname = result.host = isAbsolute ? '' :\n   srcPath.length ? srcPath.shift() : '';\n   //occationaly the auth can get stuck only in host\n   //this especially happens in cases like\n   //url.resolveObject('mailto:local1@domain1', 'local2@domain2')\n   var authInHost = result.host && result.host.indexOf('@') > 0 ?\n   result.host.split('@')

: false;\n   if (authInHost) {\n   result.auth = authInHost.shift();\n   result.host = result.hostname = authInHost.shift();\n   }\n }\n\n mustEndAbs = mustEndAbs || (result.host && srcPath.length);\n\n if (mustEndAbs && !isAbsolute) {\n   srcPath.unshift(");\n   }\n\n if (!srcPath.length) {\n   result.pathname = null;\n result.path = null;\n } else {\n   result.pathname = srcPath.join('/');\n }\n\n //to support request.http\n if (!util.isNull(result.pathname) || !util.isNull(result.search)) {\n   result.path = (result.pathname ? result.pathname : ") +\n   (result.search ? result.search : ");\n }\n result.auth = relative.auth || result.auth;\n result.slashes = result.slashes || relative.slashes;\n result.href = result.format();\n return result;\n};\n\nUrl.prototype.parseHost = function() {\n var host = this.host;\n var port = portPattern.exec(host);\n if (port) {\n   port = port[0];\n   if (port !== ':') {\n   this.port = port.substr(1);\n   }\n   host = host.substr(0, host.length - port.length);\n }\n if (host) this.hostname = host;\n};\n","// @flow\n\nimport Reference from './reference/v8.json';\nimport type {StylePropertySpecification} from './style-spec';\nimport type {\n   StyleSpecification,\n   SourceSpecification,\n   LayerSpecification,\n   PropertyValueSpecification,\n   DataDrivenPropertyValueSpecification\n} from './types';\n\nfunction getPropertyReference(propertyName): StylePropertySpecification {\n   for (let i = 0; i < Reference.layout.length; i++) {\n   for (const key in Reference[Reference.layout[i]]) {\n   if (key === propertyName) return (Reference[Reference.layout[i]][key]: any);\n   }\n   }\n   for (let i = 0; i < Reference.paint.length; i++) {\n   for (const key in Reference[Reference.paint[i]]) {\n   if (key === propertyName) return (Reference[Reference.paint[i]][key]: any);\n   }\n   }\n\n   return (null: any);\n}\n\nexport function eachSource(style: StyleSpecification, callback: (_: SourceSpecification) => void) {\n   for (const k in style.sources) {\n   callback(style.sources[k]);\n   }\n}\n\nexport function eachLayer(style: StyleSpecification, callback: (_: LayerSpecification) => void) {\n   for (const layer of style.layers) {\n   callback(layer);\n   }\n}\n\ntype PropertyCallback = ({\n   path: [string, 'paint' | 'layout', string], // [layerid, paint/layout, property key]\n   key: string,\n   value: PropertyValueSpecification<mixed> | DataDrivenPropertyValueSpecification<mixed>,\n   reference: StylePropertySpecification,\n   set: (PropertyValueSpecification<mixed> | DataDrivenPropertyValueSpecification<mixed>) => void\n}) => void;\n\nexport function eachProperty(\n   style: StyleSpecification,\n   options: {paint?: boolean, layout?: boolean},\n   callback: PropertyCallback\n) {\n   function inner(layer, propertyType: 'paint' | 'layout') {\n   const properties = (layer[propertyType]: any);\n   if (!properties) return;\n   Object.keys(properties).forEach((key) => {\n   callback({\n   path: [layer.id, propertyType, key],\n   key,\n   value: properties[key],\n   reference: getPropertyReference(key),\n   set(x) {\n   properties[key] = x;\n   }\n   });\n   });\n   }\n\n   eachLayer(style, (layer) => {\n   if (options.paint) {\n   inner(layer, 'paint');\n   }\n   if (options.layout) {\n   inner(layer, 'layout');\n   }\n   });\n}\n","\nimport URL from 'url';\nimport {eachSource, eachLayer, eachProperty} from '../visit';\n\nfunction eachLayout(layer, callback) {\n   for (const k in layer) {\n   if (k.indexOf('layout') === 0) {\n   callback(layer[k], k);\n   }\n   }\n}\n\nfunction eachPaint(layer, callback) {\n   for (const k in layer) {\n   if (k.indexOf('paint') === 0) {\n   callback(layer[k], k);\n   }\n   }\n}\n\nfunction resolveConstant(style, value) {\n   if (typeof value === 'string' && value[0] === '@') {\n   return resolveConstant(style, style.constants[value]);\n   } else {\n   return value;\n   }\n}\n\nfunction isFunction(value) {\n   return Array.isArray(value.stops);\n}\n\nfunction renameProperty(obj, from, to) {\n   obj[to] = obj[from]; delete obj[from];\n}\n\nexport default function(style) {\n   style.version = 8;\n\n   // Rename properties, reverse coordinates in source and layers\n   eachSource(style, (source) => {\n   if (source.type === 'video' && source.url !== undefined) {\n   renameProperty(source, 'url', 'urls');\n   }\n   if (source.type === 'video') {\n   source.coordinates.forEach((coord) => {\n   return coord.reverse();\n   });\n   }\n   });\n\n   eachLayer(style, (layer) => {\n   eachLayout(layer, (layout) => {\n   if (layout['symbol-min-distance'] !== undefined) {\n   renameProperty(layout, 'symbol-min-distance', 'symbol-spacing');\n   }\n   });\n\n   eachPaint(layer, (paint) => {\n   if (paint['background-image'] !== undefined) {\n   renameProperty(paint, 'background-image', 'background-pattern');\n   }\n   if (paint['line-image'] !== undefined) {\n   renameProperty(paint, 'line-image', 'line-pattern');\n   }\n   if (paint['fill-image']

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!== undefined) {\n                renameProperty(paint, 'fill-image', 'fill-pattern');\n            }\n        });\n    });\n\n    //
Inline Constants\n    eachProperty(style, {paint: true, layout: true}, (property) => {\n        const value =
resolveConstant(style, property.value);\n\n        if (isFunction(value)) {\n            value.stops.forEach((stop) => {\n
        stop[1] = resolveConstant(style, stop[1]);\n            });\n        }\n\n        property.set(value);\n
    });\n    delete style.constants;\n\n    eachLayer(style, (layer) => {\n        // get rid of text-max-size, icon-max-size\n
        // turn text-size, icon-size into layout properties\n        // https://github.com/mapbox/mapbox-gl-style-
spec/issues/255\n\n        eachLayout(layer, (layout) => {\n            delete layout['text-max-size'];\n            delete
layout['icon-max-size'];\n        });\n\n        eachPaint(layer, (paint) => {\n            if (paint['text-size']) {\n                if
(!layer.layout) layer.layout = {};\n                layer.layout['text-size'] = paint['text-size'];\n                delete paint['text-
size'];\n            }\n\n            if (paint['icon-size']) {\n                if (!layer.layout) layer.layout = {};\n
layer.layout['icon-size'] = paint['icon-size'];\n                delete paint['icon-size'];\n            }\n        });\n    });\n\n
function migrateFontstackURL(input) {\n        const inputParsed = URL.parse(input);\n
        const inputPathnameParts = inputParsed.pathname.split('/');\n\n        if (inputParsed.protocol !== 'mapbox:') {\n
            return input;\n\n        } else if (inputParsed.hostname === 'fontstack') {\n
assert(decodeURI(inputParsed.pathname) === '/{fontstack}/{range}.pbf');\n            return
'mapbox://fonts/mapbox/{fontstack}/{range}.pbf';\n\n        } else if (inputParsed.hostname === 'fonts') {\n
assert(inputPathnameParts[1] === 'v1');\n            assert(decodeURI(inputPathnameParts[3]) === '{fontstack}');\n
    assert(decodeURI(inputPathnameParts[4]) === '{range}.pbf');\n            return
`mapbox://fonts/${inputPathnameParts[2]}/{fontstack}/{range}.pbf`;\n\n        } else {\n            assert(false);\n
}\n\n        function assert(predicate) {\n            if (!predicate) {\n                throw new Error(`Invalid font url:
\"${input}\"`);\n            }\n        }\n    }\n\n    if (style.glyphs) {\n        style.glyphs
= migrateFontstackURL(style.glyphs);\n    }\n\n    function migrateFontStack(font) {\n        function
splitAndTrim(string) {\n            return string.split(',').map((s) => {\n                return s.trim();\n            });\n
}\n\n        if (Array.isArray(font)) {\n            // Assume it's a previously migrated font-array.\n            return font;\n\n
    } else if (typeof font === 'string') {\n            return splitAndTrim(font);\n\n        } else if (typeof font ===
'object') {\n            font.stops.forEach((stop) => {\n                stop[1] = splitAndTrim(stop[1]);\n            });\n
return font;\n\n        } else {\n            throw new Error(\"unexpected font value\");\n        }\n    }\n\n
eachLayer(style, (layer) => {\n        eachLayout(layer, (layout) => {\n            if (layout['text-font']) {\n
layout['text-font'] = migrateFontStack(layout['text-font']);\n            }\n        });\n    });\n\n    // Reverse order of
symbol
 layers. This is an imperfect migration.\n    //\n    // The order of a symbol layer in the layers list affects two things:\n
 // - how it is drawn relative to other layers (like oneway arrows below bridges)\n    // - the placement priority
compared to other layers\n    //\n    // It's impossible to reverse the placement priority without breaking the draw
order\n    // in some cases. This migration only reverses the order of symbol layers that\n    // are above all other
types of layers.\n    //\n    // Symbol layers that are at the top of the map preserve their priority.\n    // Symbol layers
that are below another type (line, fill) of layer preserve their draw order.\n\n    let firstSymbolLayer = 0;\n    for (let i
= style.layers.length - 1; i >= 0; i--) {\n        const layer = style.layers[i];\n        if (layer.type !== 'symbol') {\n
firstSymbolLayer = i + 1;\n            break;\n        }\n    }\n\n    const symbolLayers =
style.layers.splice(firstSymbolLayer);\n
    symbolLayers.reverse();\n    style.layers = style.layers.concat(symbolLayers);\n\n    return style;\n}\n","// 
@flow\n\nexport default function (output: any, ...inputs: Array<any>) {\n    for (const input of inputs) {\n        for
(const k in input) {\n            output[k] = input[k];\n        }\n    }\n    return output;\n}\n","// @flow\n\nclass
ParsingError extends Error {\n    key: string;\n    message: string;\n    constructor(key: string, message: string) {\n
 super(message);\n        this.message = message;\n        this.key = key;\n    }\n}\n\nexport default ParsingError;\n","// 
@flow\n\nimport type {Expression} from './expression';\n\n/**\n * Tracks `let` bindings during expression
parsing.\n * @private\n */\nclass Scope {\n    parent: ?Scope;\n    bindings: {[_: string]: Expression};\n
constructor(parent?: Scope, bindings: Array<[string, Expression]> = []) {\n        this.parent = parent;\n
this.bindings = {};\n        for (const [name, expression] of bindings)
```

{\n   this.bindings[name] = expression;\n   }\n   }\n\n   concat(bindings: Array<[string, Expression]>) {\n   return new Scope(this, bindings);\n   }\n\n   get(name: string): Expression {\n   if (this.bindings[name]) { return this.bindings[name]; }\n   if (this.parent) { return this.parent.get(name); }\n   throw new Error(`${name} not found in scope.`);\n   }\n\n   has(name: string): boolean {\n   if (this.bindings[name]) return true;\n   return this.parent ? this.parent.has(name) : false;\n   }\n}\n\nexport default Scope;\n","// @flow\n\nexport type NullTypeT = { kind: 'null' };\nexport type NumberTypeT = { kind: 'number' };\nexport type StringTypeT = { kind: 'string' };\nexport type BooleanTypeT = { kind: 'boolean' };\nexport type ColorTypeT = { kind: 'color' };\nexport type ObjectTypeT = { kind: 'object' };\nexport type ValueTypeT = { kind: 'value' };\nexport type ErrorTypeT = { kind: 'error' };\nexport type CollatorTypeT = { kind: 'collator' };\nexport type FormattedTypeT = { kind: 'formatted' };\nexport type ResolvedImageTypeT = { kind: 'resolvedImage' };\n\nexport type EvaluationKind = 'constant' | 'source' | 'camera' | 'composite';\n\nexport type Type =\n   NullTypeT |\n   NumberTypeT |\n   StringTypeT |\n   BooleanTypeT |\n   ColorTypeT |\n   ObjectTypeT |\n   ValueTypeT |\n   ArrayType | // eslint-disable-line no-use-before-define\n   ErrorTypeT |\n   CollatorTypeT |\n   FormattedTypeT |\n   ResolvedImageTypeT\n\nexport type ArrayType = {\n   kind: 'array',\n   itemType: Type,\n   N: ?number\n}\n\nexport type NativeType = 'number' | 'string' | 'boolean' | 'null' | 'array' | 'object'\n\nexport const NullType = {kind: 'null'};\nexport const NumberType = {kind: 'number'};\nexport const StringType = {kind: 'string'};\nexport const BooleanType = {kind: 'boolean'};\nexport const ColorType = {kind: 'color'};\nexport const ObjectType = {kind: 'object'};\nexport const ValueType = {kind: 'value'};\nexport const ErrorType = {kind: 'error'};\nexport const CollatorType = {kind: 'collator'};\nexport const FormattedType = {kind: 'formatted'};\nexport const ResolvedImageType = {kind: 'resolvedImage'};\n\nexport function array(itemType: Type, N: ?number): ArrayType {\n   return {\n   kind: 'array',\n   itemType,\n   N\n   };\n}\n\nexport function toString(type: Type): string {\n   if (type.kind === 'array') {\n   const itemType = toString(type.itemType);\n   return typeof type.N === 'number' ?\n   `array<${itemType}, ${type.N}>` :\n   type.itemType.kind === 'value' ? 'array' : `array<${itemType}>`;\n   } else {\n   return type.kind;\n   }\n}\n\nconst valueMemberTypes = [\n   NullType,\n   NumberType,\n   StringType,\n   BooleanType,\n   ColorType,\n   FormattedType,\n   ObjectType,\n   array(ValueType),\n   ResolvedImageType\n];\n\n/**\n * Returns null if `t` is a subtype of `expected`; otherwise returns an\n * error message.\n * @private\n */\nexport function checkSubtype(expected: Type, t: Type): ?string {\n   if (t.kind === 'error') {\n   // Error is a subtype of every type\n   return null;\n   } else if (expected.kind === 'array') {\n   if (t.kind === 'array' &&\n   ((t.N === 0 && t.itemType.kind === 'value') || !checkSubtype(expected.itemType, t.itemType)) &&\n   (typeof expected.N !== 'number' || expected.N === t.N)) {\n   return null;\n   }\n   } else if (expected.kind === t.kind) {\n   return null;\n   } else if (expected.kind === 'value') {\n   for (const memberType of valueMemberTypes) {\n   if (!checkSubtype(memberType, t)) {\n   return null;\n   }\n   }\n   }\n\n   return `Expected ${toString(expected)} but found ${toString(t)} instead.`;\n}\n\nexport function isValidType(provided: Type, allowedTypes: Array<Type>): boolean {\n   return allowedTypes.some(t => t.kind === provided.kind);\n}\n\nexport function isValidNativeType(provided: any, allowedTypes: Array<NativeType>): boolean {\n   return allowedTypes.some(t => {\n   if (t === 'null') {\n   return provided === null;\n   } else if (t === 'array') {\n   return Array.isArray(provided);\n   } else if (t === 'object') {\n   return provided && !Array.isArray(provided) && typeof provided === 'object';\n   } else {\n   return t === typeof provided;\n   }\n   });\n}\n","// (c) Dean McNamee <dean@gmail.com>, 2012.\n//\n// https://github.com/deanm/css-color-parser-js\n//\n// Permission is hereby granted, free of charge, to any person obtaining a copy\n// of this software and associated documentation files (the \"Software\"), to\n// deal in the Software without restriction, including without limitation the\n// rights to use, copy, modify, merge, publish, distribute, sublicense, and/or\n// sell copies of the Software, and to permit persons to whom the Software is\n// furnished to do so, subject to the following conditions:\n//\n// The above copyright notice and this permission notice shall be included in\n// all copies or substantial portions of the Software.\n//\n// THE SOFTWARE IS PROVIDED \"AS IS\", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR\n// IMPLIED, INCLUDING BUT NOT LIMITED

TO THE WARRANTIES OF MERCHANTABILITY,\n// FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE\n// AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER\n// LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING\n// FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS\n// IN THE SOFTWARE.\n\n// http://www.w3.org/TR/css3-color/\nvar kCSSColorTable = {\n \"transparent\": [0,0,0,0], \"aliceblue\": [240,248,255,1],\n \"antiquewhite\": [250,235,215,1], \"aqua\": [0,255,255,1],\n \"aquamarine\": [127,255,212,1], \"azure\": [240,255,255,1],\n \"beige\": [245,245,220,1], \"bisque\": [255,228,196,1],\n

  \"black\": [0,0,0,1], \"blanchedalmond\": [255,235,205,1],\n \"blue\": [0,0,255,1], \"blueviolet\": [138,43,226,1],\n \"brown\": [165,42,42,1], \"burlywood\": [222,184,135,1],\n \"cadetblue\": [95,158,160,1], \"chartreuse\": [127,255,0,1],\n \"chocolate\": [210,105,30,1], \"coral\": [255,127,80,1],\n \"cornflowerblue\": [100,149,237,1], \"cornsilk\": [255,248,220,1],\n \"crimson\": [220,20,60,1], \"cyan\": [0,255,255,1], \"darkblue\": [0,0,139,1], \"darkcyan\": [0,139,139,1],\n \"darkgoldenrod\": [184,134,11,1], \"darkgray\": [169,169,169,1],\n \"darkgreen\": [0,100,0,1], \"darkgrey\": [169,169,169,1],\n \"darkkhaki\": [189,183,107,1], \"darkmagenta\": [139,0,139,1],\n \"darkolivegreen\": [85,107,47,1], \"darkorange\": [255,140,0,1],\n \"darkorchid\": [153,50,204,1], \"darkred\": [139,0,0,1],\n \"darksalmon\": [233,150,122,1], \"darkseagreen\": [143,188,143,1],\n \"darkslateblue\": [72,61,139,1], \"darkslategray\": [47,79,79,1],\n \"darkslategrey\": [47,79,79,1], \"darkturquoise\": [0,206,209,1],\n \"darkviolet\": [148,0,211,1], \"deeppink\": [255,20,147,1],\n \"deepskyblue\": [0,191,255,1], \"dimgray\": [105,105,105,1],\n \"dimgrey\": [105,105,105,1], \"dodgerblue\": [30,144,255,1],\n \"firebrick\": [178,34,34,1], \"floralwhite\": [255,250,240,1],\n \"forestgreen\": [34,139,34,1], \"fuchsia\": [255,0,255,1],\n \"gainsboro\": [220,220,220,1], \"ghostwhite\": [248,248,255,1],\n \"gold\": [255,215,0,1], \"goldenrod\": [218,165,32,1],\n \"gray\": [128,128,128,1], \"green\": [0,128,0,1], \"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], \"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 <= 0xfff)) return null; // Covers NaN.\n return [((iv & 0xf00) >> 4) | ((iv & 0xf00) >> 8),\n (iv & 0xf0) | ((iv & 0xf0) >> 4),\n (iv & 0xf) | ((iv & 0xf) << 4),\n 1];\n } else if (str.length === 7) {\n var iv = parseInt(str.substr(1), 16); // TODO(deanm): Stricter parsing.\n if (!(iv >= 0 && iv <= 0xffffff)) return null; // Covers NaN.\n return [(iv & 0xff0000) >> 16,\n (iv & 0xff00) >> 8,\n iv & 0xff,\n 1];\n }\n\n return null;\n }\n\n var op = str.indexOf('('), ep = str.indexOf(')');\n if (op !== -1 && ep + 1 === str.length) {\n var fname = str.substr(0, op);\n var params = str.substr(op+1, ep-(op+1)).split(',');\n var alpha = 1; // To allow case fallthrough.\n switch (fname) {\n case 'rgba':\n if (params.length !== 4) return null;\n alpha = parse_css_float(params.pop());\n // Fall through.\n case 'rgb':\n if (params.length !== 3) return null;\n return [parse_css_int(params[0]),\n parse_css_int(params[1]),\n parse_css_int(params[2]),\n alpha];\n case 'hsla':\n if (params.length !== 4) return null;\n alpha = parse_css_float(params.pop());\n // Fall through.\n case 'hsl':\n if (params.length !== 3) return null;\n var h = (((parseFloat(params[0]) % 360) + 360) % 360) / 360; // 0 .. 1\n // NOTE(deanm): According to the CSS spec s/l should only be\n // percentages, but we don't bother and let float or percentage.\n var s = parse_css_float(params[1]);\n var l = parse_css_float(params[2]);\n var m2 = l <= 0.5 ? l * (s + 1) : l + s - l * s;\n var m1 = l * 2 - m2;\n return [clamp_css_byte(css_hue_to_rgb(m1, m2, h+1/3) * 255),\n clamp_css_byte(css_hue_to_rgb(m1, m2, h) * 255),\n clamp_css_byte(css_hue_to_rgb(m1, m2, h-1/3) * 255),\n alpha];\n default:\n return null;\n }\n }\n\n return null;\n}\n\ntry { exports.parseCSSColor = parseCSSColor } catch(e) { }\n","// @flow\n\nimport {parseCSSColor} from 'csscolorparser';\n\n/**\n * An RGBA color value. Create instances from color strings using the static\n * method `Color.parse`. The constructor accepts RGB channel values in the range\n * `[0, 1]`, premultiplied by A.\n *\n * @param {number} r The red channel.\n * @param {number} g The green channel.\n * @param {number} b The blue channel.\n * @param {number} a The alpha channel.\n * @private\n */\nclass Color {\n r: number;\n g: number;\n b: number;\n a: number;\n\n constructor(r: number, g: number, b: number, a: number = 1) {\n this.r = r;\n this.g = g;\n this.b = b;\n this.a = a;\n }\n\n static black: Color;\n static white: Color;\n static transparent: Color;\n static red: Color;\n\n /**\n * Parses valid CSS color strings and returns a `Color`\n instance.\n * @returns A `Color` instance, or `undefined` if the input is not a valid color string.\n */\n static parse(input?: string | Color | null): Color | void {\n if (!input) {\n return undefined;\n }\n\n if (input instanceof Color) {\n return input;\n }\n\n if (typeof input !== 'string') {\n return undefined;\n }\n\n const rgba = parseCSSColor(input);\n if (!rgba) {\n return undefined;\n }\n\n return new Color(\n rgba[0] / 255 * rgba[3],\n rgba[1] / 255 * rgba[3],\n rgba[2] / 255 * rgba[3],\n rgba[3]\n);\n }\n\n /**\n * Returns an RGBA string representing the color value.\n *\n * @returns An RGBA string.\n * @example\n * var purple = new Color.parse('purple');\n *

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

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ResolvedImage | null {\n    if (!name) return null; // treat empty values as no image\n    return new
ResolvedImage({name, available: false});\n    }\n\n    serialize(): Array<string> {\n    return [\"image\",
this.name];\n    }\n}\n","// @flow\n\nimport assert from 'assert';\n\nimport Color from '../util/color';\n\nimport Collator
from './types/collator';\n\nimport Formatted from './types/formatted';\n\nimport ResolvedImage from
'./types/resolved_image';\n\nimport {NullType, NumberType, StringType, BooleanType, ColorType, ObjectType,
ValueType, CollatorType, FormattedType, ResolvedImageType, array} from './types';\n\nimport type {Type}
from './types';\n\nexport function validateRGBA(r: mixed, g: mixed, b: mixed, a?: mixed): string | null {\n    if (!(\n
typeof r === 'number' && r >= 0 && r <= 255 &&\n        typeof g === 'number' && g >= 0 && g <= 255 &&\n
typeof b === 'number' && b >= 0 && b <= 255\n    )) {\n        const value = typeof a === 'number' ? [r, g, b, a] :
[r, g, b];\n        return `Invalid rgba value [${value.join(', ')}]: 'r', 'g', and 'b' must be between 0 and 255.`;\n    }\n\n
if (!(\n        typeof a === 'undefined' || (typeof a === 'number' && a >= 0 && a <= 1)\n    )) {\n        return `Invalid
rgba value [${[r, g, b, a].join(', ')}]: 'a' must be between 0 and 1.`;\n    }\n\n    return null;\n}\n\nexport type Value =
null | string | boolean | number | Color | Collator | Formatted | ResolvedImage | $ReadOnlyArray<Value> | {
+[string]: Value }\n\nexport function isValue(mixed: mixed): boolean {\n    if (mixed === null) {\n        return
true;\n    } else if (typeof mixed ===
'string') {\n        return true;\n    } else if (typeof mixed === 'boolean') {\n        return true;\n    } else if (typeof
mixed === 'number') {\n        return true;\n    } else if (mixed instanceof Color) {\n        return true;\n    } else if
(mixed instanceof Collator) {\n        return true;\n    } else if (mixed instanceof Formatted) {\n        return true;\n    }
else if (mixed instanceof ResolvedImage) {\n        return true;\n    } else if (Array.isArray(mixed)) {\n        for (const
item of mixed) {\n            if (!isValue(item)) {\n                return false;\n            }\n        }\n        return true;\n    }
else if (typeof mixed === 'object') {\n        for (const key in mixed) {\n            if (!isValue(mixed[key])) {\n
return false;\n            }\n        }\n        return true;\n    } else {\n        return false;\n    }\n}\n\nexport function
typeOf(value: Value): Type {\n    if (value === null) {\n        return NullType;\n    } else if (typeof
value === 'string') {\n        return StringType;\n    } else if (typeof value === 'boolean') {\n        return
BooleanType;\n    } else if (typeof value === 'number') {\n        return NumberType;\n    } else if (value instanceof
Color) {\n        return ColorType;\n    } else if (value instanceof Collator) {\n        return CollatorType;\n    } else if
(value instanceof Formatted) {\n        return FormattedType;\n    } else if (value instanceof ResolvedImage) {\n
return ResolvedImageType;\n    } else if (Array.isArray(value)) {\n        const length = value.length;\n        let
itemType: Type | typeof undefined;\n\n        for (const item of value) {\n            const t = typeOf(item);\n            if
(!itemType) {\n                itemType = t;\n            } else if (itemType === t) {\n                continue;\n            } else {\n
itemType = ValueType;\n                break;\n            }\n        }\n\n        return array(itemType || ValueType,
length);\n
    } else {\n        assert(typeof value === 'object');\n        return ObjectType;\n    }\n}\n\nexport function
toString(value: Value) {\n    const type = typeof value;\n    if (value === null) {\n        return '';\n    } else if (type
=== 'string' || type === 'number' || type === 'boolean') {\n        return String(value);\n    } else if (value instanceof
Color || value instanceof Formatted || value instanceof ResolvedImage) {\n        return value.toString();\n    } else {\n
    return JSON.stringify(value);\n    }\n}\n\nexport {Color, Collator};\n","// @flow\n\nimport assert from
'assert';\n\nimport {isValue, typeOf, Color} from '../values';\n\nimport Formatted from '../types/formatted';\n\nimport
type {Type} from '../types';\n\nimport type {Value} from '../values';\n\nimport type {Expression} from
'../expression';\n\nimport type ParsingContext from '../parsing_context';\n\nclass Literal implements Expression {\n
type: Type;\n    value: Value;\n\n    constructor(type: Type,
value: Value) {\n        this.type = type;\n        this.value = value;\n    }\n\n    static parse(args:
$ReadOnlyArray<mixed>, context: ParsingContext) {\n        if (args.length !== 2)\n            return
context.error(`'literal' expression requires exactly one argument, but found ${args.length - 1} instead.`);\n\n        if
(!isValue(args[1]))\n            return context.error(`invalid value`);\n\n        const value = (args[1]: any);\n        let type
= typeOf(value);\n\n        // special case: infer the item type if possible for zero-length arrays\n        const expected =
context.expectedType;\n        if (\n            type.kind === 'array' &&\n            type.N === 0 &&\n            expected
&&\n            expected.kind === 'array' &&\n            (typeof expected.N !== 'number' || expected.N === 0)\n        )
```

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

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ParsingContext from '../parsing_context';\nimport type {Type} from '../types';\n\ntype FormattedSectionExpression
= {\n    // Content of a section may be Image expression or other\n    // type of expression that is coercable to
'string'.\n    content: Expression,\n    scale: Expression | null;\n    font: Expression | null;\n    textColor: Expression |
null;\n}\n\nexport default class FormatExpression implements Expression {\n    type: Type;\n    sections:
 Array<FormattedSectionExpression>;\n\n    constructor(sections: Array<FormattedSectionExpression>) {\n
this.type = FormattedType;\n        this.sections = sections;\n    }\n\n    static parse(args: $ReadOnlyArray<mixed>,
context: ParsingContext): ?Expression {\n        if (args.length < 2) {\n            return context.error(`Expected at least
one argument.`);\n        }\n\n        const firstArg = args[1];\n        if (!Array.isArray(firstArg) && typeof firstArg
=== 'object') {\n            return context.error(`First argument must be an image or text section.`);\n        }\n\n
const sections: Array<FormattedSectionExpression> = [];\n        let nextTokenMayBeObject = false;\n        for (let i
= 1; i <= args.length - 1; ++i) {\n            const arg = (args[i]: any);\n\n            if (nextTokenMayBeObject && typeof
arg === \"object\" && !Array.isArray(arg)) {\n                nextTokenMayBeObject = false;\n\n                let scale =
null;\n                if (arg['font-scale'])
 {\n                    scale = context.parse(arg['font-scale'], 1, NumberType);\n                    if (!scale) return null;\n
    }\n\n                let font = null;\n                if (arg['text-font']) {\n                    font = context.parse(arg['text-font'], 1,
array(StringType));\n                    if (!font) return null;\n                }\n\n                let textColor = null;\n                if
(arg['text-color']) {\n                    textColor = context.parse(arg['text-color'], 1, ColorType);\n                    if
(!textColor) return null;\n                }\n\n                const lastExpression = sections[sections.length - 1];\n
lastExpression.scale = scale;\n                lastExpression.font = font;\n                lastExpression.textColor =
textColor;\n            } else {\n                const content = context.parse(args[i], 1, ValueType);\n                if (!content)
return null;\n\n                const
 kind = content.type.kind;\n                if (kind !== 'string' && kind !== 'value' && kind !== 'null' && kind !==
'resolvedImage')\n                    return context.error(`Formatted text type must be 'string', 'value', 'image' or
'null'.`);\n\n                nextTokenMayBeObject = true;\n                sections.push({content, scale: null, font: null,
textColor: null});\n            }\n        }\n\n        return new FormatExpression(sections);\n    }\n\n    evaluate(ctx:
EvaluationContext) {\n        const evaluateSection = section => {\n            const evaluatedContent =
section.content.evaluate(ctx);\n            if (typeOf(evaluatedContent) === ResolvedImageType) {\n                return
new FormattedSection(", evaluatedContent, null, null, null);\n            }\n\n            return new FormattedSection(\n
       toString(evaluatedContent),\n                null,\n                section.scale ? section.scale.evaluate(ctx) :
null,\n
  section.font ? section.font.evaluate(ctx).join(',') : null,\n                section.textColor ?
section.textColor.evaluate(ctx) : null\n            );\n        };\n\n        return new
Formatted(this.sections.map(evaluateSection));\n    }\n\n    eachChild(fn: (_: Expression) => void) {\n        for (const
section of this.sections) {\n            fn(section.content);\n            if (section.scale) {\n                fn(section.scale);\n
    }\n            if (section.font) {\n                fn(section.font);\n            }\n            if (section.textColor) {\n
fn(section.textColor);\n            }\n        }\n    }\n\n    outputDefined() {\n        // Technically the combinatoric set of
all children\n        // Usually, this.text will be undefined anyway\n        return false;\n    }\n\n    serialize() {\n
const serialized = [\"format\"];\n        for (const section of this.sections) {\n
serialized.push(section.content.serialize());\n
      const options = {};\n            if (section.scale) {\n                options['font-scale'] = section.scale.serialize();\n
    }\n            if (section.font) {\n                options['text-font'] = section.font.serialize();\n            }\n            if
(section.textColor) {\n                options['text-color'] = section.textColor.serialize();\n            }\n
serialized.push(options);\n        }\n        return serialized;\n    }\n}\n","// @flow\n\nimport {ResolvedImageType,
StringType} from '../types';\nimport ResolvedImage from '../types/resolved_image';\n\nimport type {Expression}
from '../expression';\nimport type EvaluationContext from '../evaluation_context';\nimport type ParsingContext from
'../parsing_context';\nimport type {Type} from '../types';\n\nexport default class ImageExpression implements
Expression {\n    type: Type;\n    input: Expression;\n\n    constructor(input: Expression) {\n        this.type =
ResolvedImageType;\n        this.input
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= 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';\n\nimport {BooleanType,
ColorType, NumberType, StringType, ValueType} from '../types';\nimport {Color, toString as valueToString,
validateRGBA} from '../values';\nimport RuntimeError from '../runtime_error';\nimport Formatted from
'../types/formatted';\nimport FormatExpression from '../definitions/format';\nimport ImageExpression from
'../definitions/image';\nimport ResolvedImage from '../types/resolved_image';\n\nimport type {Expression} from
'../expression';\nimport type ParsingContext from '../parsing_context';\nimport type EvaluationContext from
'../evaluation_context';\nimport type {Type} from '../types';\n\nconst types = {\n    'to-boolean': BooleanType,\n
'to-color': ColorType,\n    'to-number': NumberType,\n    'to-string': StringType\n};\n\n/**\n * Special form for
error-coalescing coercion expressions \"to-number\",\n * \"to-color\".  Since these coercions can fail at runtime, they
 accept multiple\n * arguments, only evaluating one at a time until one succeeds.\n *\n * @private\n */\nclass
Coercion implements Expression {\n    type: Type;\n    args: Array<Expression>;\n\n    constructor(type: Type, args:
Array<Expression>) {\n        this.type = type;\n        this.args = args;\n    }\n\n    static parse(args:
$ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n        if (args.length < 2)\n            return
context.error(`Expected at least one argument.`);\n        const name: string = (args[0]: any);\n
assert(types[name], name);\n\n        if ((name === 'to-boolean' || name === 'to-string') && args.length !== 2)\n
return context.error(`Expected one argument.`);\n\n        const type = types[name];\n        const parsed = [];\n
for (let i = 1; i < args.length; i++) {\n            const input = context.parse(args[i], i, ValueType);\n            if (!input)
return null;\n            parsed.push(input);\n        }\n\n

    return new Coercion(type, parsed);\n    }\n\n    evaluate(ctx: EvaluationContext) {\n        if (this.type.kind ===
'boolean') {\n            return Boolean(this.args[0].evaluate(ctx));\n        } else if (this.type.kind === 'color') {\n
let input;\n            let error;\n            for (const arg of this.args) {\n                input = arg.evaluate(ctx);\n
error = null;\n                if (input instanceof Color) {\n                    return input;\n                } else if (typeof input
=== 'string') {\n                    const c = ctx.parseColor(input);\n                    if (c) return c;\n                } else if
(Array.isArray(input)) {\n                    if (input.length < 3 || input.length > 4) {\n                        error = `Invalid rbga
value ${JSON.stringify(input)}: expected an array containing either three or four numeric values.`;\n                    }
else {\n                        error = validateRGBA(input[0], input[1], input[2],
 input[3]);\n                    }\n                    if (!error) {\n                        return new Color((input[0]: any) / 255,
(input[1]: any) / 255, (input[2]: any) / 255, (input[3]: any));\n                    }\n                }\n            }\n            throw
new RuntimeError(error || `Could not parse color from value '${typeof input === 'string' ? input :
String(JSON.stringify(input))}'`);\n        } else if (this.type.kind === 'number') {\n            let value = null;\n
for (const arg of this.args) {\n                value = arg.evaluate(ctx);\n                if (value === null) return 0;\n
const num = Number(value);\n                if (isNaN(num)) continue;\n                return num;\n            }\n            throw
new RuntimeError(`Could not convert ${JSON.stringify(value)} to number.`);\n        } else if (this.type.kind ===
'formatted') {\n            // There is no explicit 'to-formatted' but this coercion can be implicitly\n
// created by properties that expect the 'formatted' type.\n            return
Formatted.fromString(valueToString(this.args[0].evaluate(ctx)));\n        } else if (this.type.kind ===
'resolvedImage') {\n            return ResolvedImage.fromString(valueToString(this.args[0].evaluate(ctx)));\n        }
else {\n            return valueToString(this.args[0].evaluate(ctx));\n        }\n    }\n\n    eachChild(fn: (_: Expression) =>
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void) {\n        this.args.forEach(fn);\n    }\n\n    outputDefined(): boolean {\n        return this.args.every(arg =>
arg.outputDefined());\n    }\n\n    serialize() {\n        if (this.type.kind === 'formatted') {\n            return new
FormatExpression([{content: this.args[0], scale: null, font: null, textColor: null}]).serialize();\n        }\n\n        if
(this.type.kind === 'resolvedImage') {\n            return new ImageExpression(this.args[0]).serialize();\n        }\n\n
const serialized = [`to-${this.type.kind}`];\n        this.eachChild(child
=> { serialized.push(child.serialize()); });\n        return serialized;\n    }\n}\n\nexport default Coercion;\n","//
@flow\n\nimport {Color} from './values';\nimport type {FormattedSection} from './types/formatted';\nimport type
{GlobalProperties, Feature, FeatureState} from './index';\nimport type {CanonicalTileID} from
'../../source/tile_id';\n\nconst geometryTypes = ['Unknown', 'Point', 'LineString', 'Polygon'];\n\nclass
EvaluationContext {\n    globals: GlobalProperties;\n    feature: ?Feature;\n    featureState: ?FeatureState;\n
formattedSection: ?FormattedSection;\n    availableImages: ?Array<string>;\n    canonical: ?CanonicalTileID;\n\n
_parseColorCache: {[_: string]: ?Color};\n\n    constructor() {\n        this.globals = (null: any);\n        this.feature =
null;\n        this.featureState = null;\n        this.formattedSection = null;\n        this._parseColorCache = {};\n
this.availableImages = null;\n        this.canonical = null;\n    }\n\n    id()
{\n        return this.feature && 'id' in this.feature ? this.feature.id : null;\n    }\n\n    geometryType() {\n        return
this.feature ? typeof this.feature.type === 'number' ? geometryTypes[this.feature.type] : this.feature.type : null;\n
}\n\n    geometry() {\n        return this.feature && 'geometry' in this.feature ? this.feature.geometry : null;\n    }\n\n
canonicalID() {\n        return this.canonical;\n    }\n\n    properties() {\n        return this.feature &&
this.feature.properties || {};\n    }\n\n    parseColor(input: string): ?Color {\n        let cached =
this._parseColorCache[input];\n        if (!cached) {\n            cached = this._parseColorCache[input] =
Color.parse(input);\n        }\n        return cached;\n    }\n}\n\nexport default EvaluationContext;\n","//
@flow\n\nimport {toString} from './types';\nimport ParsingContext from './parsing_context';\nimport
EvaluationContext from './evaluation_context';\nimport assert from 'assert';\n\nimport type {Expression,
 ExpressionRegistry} from './expression';\nimport type {Type} from './types';\nimport type {Value} from
'./values';\n\nexport type Varargs = {| type: Type |};\ntype Signature = Array<Type> | Varargs;\ntype Evaluate =
(EvaluationContext, Array<Expression>) => Value;\ntype Definition = [Type, Signature, Evaluate] |\n    {|type:
Type, overloads: Array<[Signature, Evaluate]>|};\n\nclass CompoundExpression implements Expression {\n
name: string;\n    type: Type;\n    _evaluate: Evaluate;\n    args: Array<Expression>;\n\n    static definitions: {[_:
string]: Definition };\n\n    constructor(name: string, type: Type, evaluate: Evaluate, args: Array<Expression>) {\n
this.name = name;\n        this.type = type;\n        this._evaluate = evaluate;\n        this.args = args;\n    }\n\n
evaluate(ctx: EvaluationContext) {\n        return this._evaluate(ctx, this.args);\n    }\n\n    eachChild(fn: (_:
Expression) => void) {\n        this.args.forEach(fn);\n    }\n\n    outputDefined()
{\n        return false;\n    }\n\n    serialize(): Array<mixed> {\n        return [this.name].concat(this.args.map(arg =>
arg.serialize()));\n    }\n\n    static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n
const op: string = (args[0]: any);\n        const definition = CompoundExpression.definitions[op];\n        if
(!definition) {\n            return context.error(`Unknown expression \"${op}\". If you wanted a literal array, use
[\"literal\", [...]].`, 0);\n        }\n\n        // Now check argument types against each signature\n        const type =
Array.isArray(definition) ?\n            definition[0] : definition.type;\n\n        const availableOverloads =
Array.isArray(definition) ?\n            [[definition[1], definition[2]]] :\n            definition.overloads;\n\n        const
overloads = availableOverloads.filter(([signature]) => (\n            !Array.isArray(signature) || // 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
let argParseFailed = false;\n            for (let i = 1; i < args.length; i++) {\n                const arg = args[i];\n
const expectedType = Array.isArray(params) ?\n                    params[i - 1] :\n                    params.type;\n\n
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const parsed = signatureContext.parse(arg, 1 + parsedArgs.length, expectedType);\n                if (!parsed) {\n
        argParseFailed = true;\n                break;\n            }\n            parsedArgs.push(parsed);\n          }\n
        if (argParseFailed) {\n                // Couldn't coerce args of this overload to expected type, move\n            //
on to next one.\n            continue;\n          }\n\n        if (Array.isArray(params)) {\n            if (params.length
!== parsedArgs.length) {\n            signatureContext.error(`Expected ${params.length} arguments, but found
${parsedArgs.length} instead.`);\n            continue;\n          }\n        }\n\n        for (let i = 0; i <
parsedArgs.length; i++) {\n            const expected = Array.isArray(params) ? params[i] : params.type;\n
const arg = parsedArgs[i];\n            signatureContext.concat(i + 1).checkSubtype(expected, arg.type);\n
}\n\n        if (signatureContext.errors.length === 0) {\n            return new
 CompoundExpression(op, type, evaluate, parsedArgs);\n          }\n      }\n\n      assert(!signatureContext ||
signatureContext.errors.length > 0);\n\n      if (overloads.length === 1) {\n
context.errors.push(...signatureContext.errors);\n      } else {\n        const expected = overloads.length ? overloads
: availableOverloads;\n        const signatures = expected\n            .map(([params]) =>
stringifySignature(params))\n            .join(' | ');\n\n        const actualTypes = [];\n        // For error message,
re-parse arguments without trying to\n        // apply any coercions\n        for (let i = 1; i < args.length; i++) {\n
     const parsed = context.parse(args[i], 1 + actualTypes.length);\n            if (!parsed) return null;\n
actualTypes.push(toString(parsed.type));\n          }\n        context.error(`Expected arguments of type
${signatures}, but found (${actualTypes.join(', ')}) instead.`);\n
    }\n\n      return null;\n  }\n\n  static register(\n      registry: ExpressionRegistry,\n      definitions: {[_:
string]: Definition }\n  ) {\n        assert(!CompoundExpression.definitions);\n        CompoundExpression.definitions
= definitions;\n      for (const name in definitions) {\n          registry[name] = CompoundExpression;\n        }\n
}\n\n\nfunction stringifySignature(signature: Signature): string {\n    if (Array.isArray(signature)) {\n        return
`(${signature.map(toString).join(', ')})`;\n    } else {\n        return `(${toString(signature.type)}...)`;\n
}\n}\n\nexport default CompoundExpression;\n","// @flow\n\nimport {StringType, BooleanType, CollatorType}
from '../types';\nimport Collator from '../types/collator';\nimport type {Expression} from '../expression';\nimport
type EvaluationContext from '../evaluation_context';\nimport type ParsingContext from '../parsing_context';\nimport
type {Type} from '../types';\n\nexport

 default class CollatorExpression implements Expression {\n    type: Type;\n    caseSensitive: Expression;\n
diacriticSensitive: Expression;\n    locale: Expression | null;\n\n    constructor(caseSensitive: Expression,
diacriticSensitive: Expression, locale: Expression | null) {\n        this.type = CollatorType;\n        this.locale =
locale;\n        this.caseSensitive = caseSensitive;\n        this.diacriticSensitive = diacriticSensitive;\n    }\n\n    static
parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n        if (args.length !== 2)\n
return context.error(`Expected one argument.`);\n\n        const options = (args[1]: any);\n        if (typeof options !==
\"object\" || Array.isArray(options))\n            return context.error(`Collator options argument must be an
object.`);\n\n        const caseSensitive = context.parse(\n            options['case-sensitive'] === undefined ? false :
options['case-sensitive'], 1, BooleanType);\n        if
 (!caseSensitive) return null;\n\n        const diacriticSensitive = context.parse(\n            options['diacritic-sensitive']
=== undefined ? false : options['diacritic-sensitive'], 1, BooleanType);\n        if (!diacriticSensitive) return null;\n\n
  let locale = null;\n        if (options['locale']) {\n            locale = context.parse(options['locale'], 1, StringType);\n
   if (!locale) return null;\n        }\n\n        return new CollatorExpression(caseSensitive, diacriticSensitive, locale);\n
}\n\n    evaluate(ctx: EvaluationContext) {\n        return new Collator(this.caseSensitive.evaluate(ctx),
this.diacriticSensitive.evaluate(ctx), this.locale ? this.locale.evaluate(ctx) : null);\n    }\n\n    eachChild(fn: (_:
Expression) => void) {\n        fn(this.caseSensitive);\n        fn(this.diacriticSensitive);\n        if (this.locale) {\n
fn(this.locale);\n        }\n    }\n\n    outputDefined() {\n        // Technically the set of possible outputs is
 the combinatoric set of Collators produced\n        // by all possible outputs of
locale/caseSensitive/diacriticSensitive\n        // But for the primary use of Collators in comparison operators, we
ignore the Collator's\n        // possible outputs anyway, so we can get away with leaving this false for now.\n
return false;\n    }\n\n    serialize() {\n        const options = {};\n        options['case-sensitive'] =
```

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

i++) {\n   if (lineStringWithinPolygon(line, polygons[i])) return true;\n   }\n   return false;\n}\n\nfunction getTilePolygon(coordinates, bbox, canonical) {\n   const polygon = [];\n   for (let i = 0; i < coordinates.length; i++) {\n   const ring = [];\n   for (let j = 0; j < coordinates[i].length; j++) {\n   const coord = getTileCoordinates(coordinates[i][j], canonical);\n   updateBBox(bbox, coord);\n   ring.push(coord);\n   }\n   polygon.push(ring);\n   }\n   return polygon;\n}\n\nfunction getTilePolygons(coordinates, bbox, canonical) {\n   const polygons = [];\n   for (let i = 0; i < coordinates.length; i++) {\n   const polygon = getTilePolygon(coordinates[i], bbox, canonical);\n   polygons.push(polygon);\n   }\n   return polygons;\n}\n\nfunction updatePoint(p, bbox, polyBBox, worldSize) {\n   if (p[0] < polyBBox[0] || p[0] > polyBBox[2]) {\n   const halfWorldSize = worldSize * 0.5;\n   let shift = (p[0] - polyBBox[0] > halfWorldSize) ? -worldSize : (polyBBox[0] - p[0] > halfWorldSize) ? worldSize : 0;\n   if (shift === 0) {\n   shift = (p[0] - polyBBox[2] > halfWorldSize) ? -worldSize : (polyBBox[2] - p[0] > halfWorldSize) ? worldSize : 0;\n   }\n   p[0] += shift;\n   }\n   updateBBox(bbox, p);\n}\n\nfunction resetBBox(bbox) {\n   bbox[0] = bbox[1] = Infinity;\n   bbox[2] = bbox[3] = -Infinity;\n}\n\nfunction getTilePoints(geometry, pointBBox, polyBBox, canonical) {\n   const worldSize = Math.pow(2, canonical.z) * EXTENT;\n   const shifts = [canonical.x * EXTENT, canonical.y * EXTENT];\n   const tilePoints = [];\n   for (const points of geometry) {\n   for (const point of points) {\n   const p = [point.x + shifts[0], point.y + shifts[1]];\n   updatePoint(p, pointBBox, polyBBox, worldSize);\n   tilePoints.push(p);\n   }\n   }\n   return tilePoints;\n}\n\nfunction getTileLines(geometry, lineBBox, polyBBox, canonical) {\n   const worldSize = Math.pow(2, canonical.z) * EXTENT;\n   const shifts = [canonical.x * EXTENT, canonical.y * EXTENT];\n   const tileLines = [];\n   for (const line of geometry) {\n   const tileLine = [];\n   for (const point of line) {\n   const p = [point.x + shifts[0], point.y + shifts[1]];\n   updateBBox(lineBBox, p);\n   tileLine.push(p);\n   }\n   tileLines.push(tileLine);\n   }\n   if (lineBBox[2] - lineBBox[0] <= worldSize / 2) {\n   resetBBox(lineBBox);\n   for (const line of tileLines) {\n   for (const p of line) {\n   updatePoint(p, lineBBox, polyBBox, worldSize);\n   }\n   }\n   }\n   return tileLines;\n}\n\nfunction pointsWithinPolygons(ctx: EvaluationContext, polygonGeometry: GeoJSONPolygons) {\n   const pointBBox = [Infinity, Infinity, -Infinity, -Infinity];\n   const polyBBox = [Infinity, Infinity, -Infinity, -Infinity];\n\n   const canonical = ctx.canonicalID();\n\n   if (polygonGeometry.type === 'Polygon') {\n   const tilePolygon = getTilePolygon(polygonGeometry.coordinates, polyBBox, canonical);\n   const tilePoints = getTilePoints(ctx.geometry(), pointBBox, polyBBox, canonical);\n   if (!boxWithinBox(pointBBox, polyBBox)) return false;\n\n   for (const point of tilePoints) {\n   if (!pointWithinPolygon(point, tilePolygon)) return false;\n   }\n   }\n   if (polygonGeometry.type === 'MultiPolygon') {\n   const tilePolygons = getTilePolygons(polygonGeometry.coordinates, polyBBox, canonical);\n   const tilePoints = getTilePoints(ctx.geometry(), pointBBox, polyBBox, canonical);\n   if (!boxWithinBox(pointBBox, polyBBox)) return false;\n\n   for (const point of tilePoints) {\n   if (!pointWithinPolygons(point, tilePolygons)) return false;\n   }\n   }\n\n   return true;\n}\n\nfunction linesWithinPolygons(ctx: EvaluationContext, polygonGeometry: GeoJSONPolygons) {\n   const lineBBox = [Infinity, Infinity, -Infinity, -Infinity];\n   const polyBBox = [Infinity, Infinity, -Infinity, -Infinity];\n\n   const canonical = ctx.canonicalID();\n\n   if (polygonGeometry.type === 'Polygon') {\n   const tilePolygon = getTilePolygon(polygonGeometry.coordinates, polyBBox, canonical);\n   const tileLines = getTileLines(ctx.geometry(), lineBBox, polyBBox, canonical);\n   if (!boxWithinBox(lineBBox, polyBBox)) return false;\n\n   for (const line of tileLines) {\n   if (!lineStringWithinPolygon(line, tilePolygon)) return false;\n   }\n   }\n   if (polygonGeometry.type === 'MultiPolygon') {\n   const tilePolygons = getTilePolygons(polygonGeometry.coordinates, polyBBox, canonical);\n   const tileLines = getTileLines(ctx.geometry(), lineBBox, polyBBox, canonical);\n   if (!boxWithinBox(lineBBox, polyBBox)) return false;\n\n   for (const line of tileLines) {\n   if (!lineStringWithinPolygons(line, tilePolygons)) return false;\n   }\n   }\n   return true;\n}\n\nclass Within implements Expression {\n   type: Type;\n   geojson: GeoJSON\n   geometries: GeoJSONPolygons;\n\n

constructor(geojson: GeoJSON, geometries: GeoJSONPolygons) {\n   this.type
 = BooleanType;\n   this.geojson = geojson;\n   this.geometries = geometries;\n   }\n\n   static parse(args:
$ReadOnlyArray<mixed>, context: ParsingContext) {\n   if (args.length !== 2)\n   return
context.error(`'within' expression requires exactly one argument, but found ${args.length - 1} instead.`);\n   if
(isValue(args[1])) {\n   const geojson = (args[1]: Object);\n   if (geojson.type === 'FeatureCollection')
{\n   for (let i = 0; i < geojson.features.length; ++i) {\n   const type =
geojson.features[i].geometry.type;\n   if (type === 'Polygon' || type === 'MultiPolygon') {\n
return new Within(geojson, geojson.features[i].geometry);\n   }\n   }\n   } else if
(geojson.type === 'Feature') {\n   const type = geojson.geometry.type;\n   if (type === 'Polygon' ||
type === 'MultiPolygon') {\n
  return new Within(geojson, geojson.geometry);\n   }\n   } else if (geojson.type === 'Polygon' ||
geojson.type === 'MultiPolygon') {\n   return new Within(geojson, geojson);\n   }\n   }\n   return
context.error(`'within' expression requires valid geojson object that contains polygon geometry type.`);\n   }\n\n
evaluate(ctx: EvaluationContext) {\n   if (ctx.geometry() != null && ctx.canonicalID() != null) {\n   if
(ctx.geometryType() === 'Point') {\n   return pointsWithinPolygons(ctx, this.geometries);\n   } else if
(ctx.geometryType() === 'LineString') {\n   return linesWithinPolygons(ctx, this.geometries);\n   }\n
    }\n   return false;\n   }\n\n   eachChild() {}\n\n   outputDefined(): boolean {\n   return true;\n   }\n\n
serialize(): Array<mixed> {\n   return [\"within\", this.geojson];\n   }\n\n}\n\nexport default Within;\n","//
@flow\n\nimport
 CompoundExpression from './compound_expression';\nimport Within from './definitions/within';\nimport type
{Expression} from './expression.js';\n\nfunction isFeatureConstant(e: Expression) {\n   if (e instanceof
CompoundExpression) {\n   if (e.name === 'get' && e.args.length === 1) {\n   return false;\n   } else if
(e.name === 'feature-state') {\n   return false;\n   } else if (e.name === 'has' && e.args.length === 1) {\n
  return false;\n   } else if (\n   e.name === 'properties' ||\n   e.name === 'geometry-type' ||\n
e.name === 'id'\n   ) {\n   return false;\n   } else if (/^filter-/.test(e.name)) {\n   return false;\n
}\n   }\n\n   if (e instanceof Within) {\n   return false;\n   }\n\n   let result = true;\n   e.eachChild(arg => {\n
if (result && !isFeatureConstant(arg)) { result = false; }\n   });\n   return result;\n}\n\nfunction isStateConstant(e:
 Expression) {\n   if (e instanceof CompoundExpression) {\n   if (e.name === 'feature-state') {\n   return
false;\n   }\n   }\n   let result = true;\n   e.eachChild(arg => {\n   if (result && !isStateConstant(arg)) { result
= false; }\n   });\n   return result;\n}\n\nfunction isGlobalPropertyConstant(e: Expression, properties:
Array<string>) {\n   if (e instanceof CompoundExpression && properties.indexOf(e.name) >= 0) { return false; }\n
 let result = true;\n   e.eachChild((arg) => {\n   if (result && !isGlobalPropertyConstant(arg, properties)) { result
= false; }\n   });\n   return result;\n}\n\nexport {isFeatureConstant, isGlobalPropertyConstant,
isStateConstant};\n","// @flow\n\nimport type {Type} from '../types';\nimport type {Expression} from
'../expression';\nimport type ParsingContext from '../parsing_context';\nimport type EvaluationContext from
'../evaluation_context';\n\nclass Var implements Expression {\n   type: Type;\n   name: string;\n
  boundExpression: Expression;\n\n   constructor(name: string, boundExpression: Expression) {\n   this.type =
boundExpression.type;\n   this.name = name;\n   this.boundExpression = boundExpression;\n   }\n\n   static
parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n   if (args.length !== 2 || typeof args[1] !==
'string')\n   return context.error(`'var' expression requires exactly one string literal argument.`);\n\n   const
name = args[1];\n   if (!context.scope.has(name)) {\n   return context.error(`Unknown variable \"${name}\".
Make sure \"${name}\" has been bound in an enclosing \"let\" expression before using it.`, 1);\n   }\n\n   return
new Var(name, context.scope.get(name));\n   }\n\n   evaluate(ctx: EvaluationContext) {\n   return
this.boundExpression.evaluate(ctx);\n   }\n\n   eachChild() {}\n\n   outputDefined() {\n   return false;\n   }\n\n
serialize() {\n   return [\"var\",
 this.name];\n   }\n}\n\nexport default Var;\n","// @flow\n\nimport Scope from './scope';\nimport {checkSubtype}
from './types';\nimport ParsingError from './parsing_error';\nimport Literal from './definitions/literal';\nimport
Assertion from './definitions/assertion';\nimport Coercion from './definitions/coercion';\nimport EvaluationContext

from './evaluation_context';\nimport CompoundExpression from './compound_expression';\nimport CollatorExpression from './definitions/collator';\nimport Within from './definitions/within';\nimport {isGlobalPropertyConstant, isFeatureConstant} from './is_constant';\nimport Var from './definitions/var';\n\nimport type {Expression, ExpressionRegistry} from './expression';\nimport type {Type} from './types';\n\n/**\n * State associated parsing at a given point in an expression tree.\n * @private\n */\nclass ParsingContext {\n   registry: ExpressionRegistry;\n   path: Array<number>;\n   key: string;\n   scope: Scope;\n   errors: Array<ParsingError>;\n\n

    // The expected type of this expression. Provided only to allow Expression\n   // implementations to infer argument types: Expression#parse() need not\n   // check that the output type of the parsed expression matches\n   // `expectedType`.\n   expectedType: ?Type;\n\n   constructor(\n   registry: ExpressionRegistry,\n   path: Array<number> = [],\n   expectedType: ?Type,\n   scope: Scope = new Scope(),\n   errors: Array<ParsingError> = []\n   ) {\n   this.registry = registry;\n   this.path = path;\n   this.key = path.map(part => `[${part}]`).join('');\n   this.scope = scope;\n   this.errors = errors;\n   this.expectedType = expectedType;\n   }\n\n   /**\n   * @param expr the JSON expression to parse\n   * @param index the optional argument index if this expression is an argument of a parent expression that's being parsed\n   * @param options\n   * @param options.omitTypeAnnotations set true to omit inferred

 type annotations. Caller beware: with this option set, the parsed expression's type will NOT satisfy `expectedType` if it would normally be wrapped in an inferred annotation.\n   * @private\n   */\n   parse(\n   expr: mixed,\n   index?: number,\n   expectedType?: ?Type,\n   bindings?: Array<[string, Expression]>,\n   options: {typeAnnotation?: 'assert' | 'coerce' | 'omit'} = {}\n   ): ?Expression {\n   if (index) {\n   return this.concat(index, expectedType, bindings)._parse(expr, options);\n   }\n   return this._parse(expr, options);\n   }\n\n   _parse(expr: mixed, options: {typeAnnotation?: 'assert' | 'coerce' | 'omit'}): ?Expression {\n   if (expr === null || typeof expr === 'string' || typeof expr === 'boolean' || typeof expr === 'number') {\n   expr = ['literal', expr];\n   }\n\n   function annotate(parsed, type, typeAnnotation: 'assert' | 'coerce' | 'omit') {\n   if (typeAnnotation ===

 'assert') {\n   return new Assertion(type, [parsed]);\n   } else if (typeAnnotation === 'coerce') {\n   return new Coercion(type, [parsed]);\n   } else {\n   return parsed;\n   }\n   }\n\n   if (Array.isArray(expr)) {\n   if (expr.length === 0) {\n   return this.error(`Expected an array with at least one element. If you wanted a literal array, use [\"literal\", []].`);\n   }\n\n   const op = expr[0];\n   if (typeof op !== 'string') {\n   this.error(`Expression name must be a string, but found ${typeof op} instead. If you wanted a literal array, use [\"literal\", [...]].`, 0);\n   return null;\n   }\n\n   const Expr = this.registry[op];\n   if (Expr) {\n   let parsed = Expr.parse(expr, this);\n   if (!parsed) return null;\n\n   if (this.expectedType) {\n

  const expected = this.expectedType;\n   const actual = parsed.type;\n\n   // When we expect a number, string, boolean, or array but have a value, wrap it in an assertion.\n   // When we expect a color or formatted string, but have a string or value, wrap it in a coercion.\n   // Otherwise, we do static type-checking.\n   //\n   // These behaviors are overridable for:\n   //   * The \"coalesce\" operator, which needs to omit type annotations.\n   //   * String-valued properties (e.g. `text-field`), where coercion is more convenient than assertion.\n   //\n   if ((expected.kind === 'string' || expected.kind === 'number' || expected.kind === 'boolean' || expected.kind === 'object' || expected.kind === 'array') && actual.kind === 'value') {\n   parsed = annotate(parsed, expected, options.typeAnnotation || 'assert');\n   } else if ((expected.kind === 'color' || expected.kind === 'formatted' || expected.kind === 'resolvedImage') && (actual.kind === 'value' || actual.kind === 'string')) {\n   parsed = annotate(parsed, expected, options.typeAnnotation || 'coerce');\n   } else if (this.checkSubtype(expected, actual)) {\n   return null;\n   }\n   }\n\n   // If an expression's arguments are all literals, we can evaluate\n   // it immediately and replace it with a literal value in the\n   // parsed/compiled result. Expressions that expect an image should\n   // not be resolved here so we can later get the available images.\n   if (!(parsed instanceof Literal) && (parsed.type.kind !== 'resolvedImage') &&

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

'../stops';\n\nimport type {Stops} from '../stops';\nimport type {Expression} from '../expression';\nimport type ParsingContext from '../parsing_context';\nimport type EvaluationContext from '../evaluation_context';\nimport type {Type} from '../types';\n\nclass Step implements Expression {\n   type: Type;\n\n   input: Expression;\n   labels: Array<number>;\n   outputs: Array<Expression>;\n\n   constructor(type: Type, input: Expression, stops: Stops) {\n   this.type = type;\n   this.input = input;\n   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   const stopCount = labels.length;\n   if (value >= labels[stopCount - 1]) {\n   return outputs[stopCount - 1].evaluate(ctx);\n   }\n\n   const index = findStopLessThanOrEqualTo(labels, value);\n   return outputs[index].evaluate(ctx);\n   }\n\n   eachChild(fn: (_: Expression) => void) {\n   fn(this.input);\n   for (const expression of this.outputs) {\n   fn(expression);\n   }\n   }\n\n   outputDefined(): boolean {\n   return this.outputs.every(out => out.outputDefined());\n   }\n\n   serialize() {\n   const serialized = [\"step\", this.input.serialize()];\n   for (let i = 0; i < this.labels.length; i++) {\n   if (i > 0) {\n   serialized.push(this.labels[i]);\n   }\n   serialized.push(this.outputs[i].serialize());\n   }\n   return serialized;\n   }\n}\n\nexport default Step;\n","/*\n * Copyright (C) 2008 Apple Inc. All Rights Reserved.\n *\n * Redistribution and use in source and binary forms, with or without\n * modification, are permitted provided that the following conditions\n * are met:\n * 1. Redistributions of source code must retain the above copyright\n *   notice, this list of conditions and the following disclaimer.\n * 2. Redistributions in binary form must reproduce the above copyright\n *   notice, this list of conditions and the following disclaimer in the\n *   documentation and/or other materials provided with the distribution.\n *\n * THIS SOFTWARE IS PROVIDED BY APPLE INC. ``AS IS'' AND ANY\n * EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE\n * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR\n * PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL APPLE INC. OR\n * CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,\n * EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,\n * PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR\n * PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY\n * OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT\n * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE\n * OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.\n *\n * Ported from Webkit\n *

http://svn.webkit.org/repository/webkit/trunk/Source/WebCore/platform/graphics/UnitBezier.h\n
*/\n\nmodule.exports = UnitBezier;\n\nfunction UnitBezier(p1x, p1y, p2x, p2y) {\n   // Calculate the polynomial coefficients, implicit first and last control points are (0,0) and (1,1).\n   this.cx = 3.0 * p1x;\n   this.bx = 3.0 * (p2x - p1x) - this.cx;\n   this.ax = 1.0 - this.cx - this.bx;\n\n   this.cy = 3.0 * p1y;\n   this.by = 3.0 * (p2y - p1y) - this.cy;\n   this.ay = 1.0 - this.cy - this.by;\n\n   this.p1x = p1x;\n   this.p1y = p2y;\n\n   this.p2x = p2x;\n   this.p2y = p2y;\n}\n\nUnitBezier.prototype.sampleCurveX = function(t) {\n   // `ax t^3 + bx t^2 + cx t' expanded using Horner's rule.\n   return ((this.ax * t + this.bx) * t + this.cx) * t;\n};\n\nUnitBezier.prototype.sampleCurveY = function(t) {\n   return ((this.ay * t + this.by) * t + this.cy) * t;\n};\n\nUnitBezier.prototype.sampleCurveDerivativeX = function(t) {\n   return (3.0 * this.ax * t + 2.0 * this.bx) * t + this.cx;\n};\n\nUnitBezier.prototype.solveCurveX = function(x, epsilon) {\n   if (typeof epsilon === 'undefined') epsilon = 1e-6;\n\n   var t0, t1, t2, x2, i;\n\n   // First try a few iterations of Newton's method -- normally very fast.\n   for (t2 = x, i = 0; i < 8; i++) {\n\n   x2 = this.sampleCurveX(t2) - x;\n   if (Math.abs(x2) < epsilon) return t2;\n\n   var d2 = this.sampleCurveDerivativeX(t2);\n   if (Math.abs(d2) < 1e-6) break;\n\n   t2 = t2 - x2 / d2;\n   }\n\n   // Fall back to the bisection method for reliability.\n   t0 = 0.0;\n   t1 = 1.0;\n   t2 = x;\n\n   if (t2 < t0) return t0;\n   if (t2 > t1) return t1;\n\n   while (t0 < t1) {\n\n   x2 = this.sampleCurveX(t2);\n   if (Math.abs(x2 - x) < epsilon) return t2;\n\n   if (x > x2) {\n   t0 = t2;\n   } else {\n   t1 = t2;\n   }\n\n   t2 = (t1 - t0) * 0.5 + t0;\n   }\n\n   // Failure.\n   return t2;\n};\n\nUnitBezier.prototype.solve = function(x, epsilon) {\n   return this.sampleCurveY(this.solveCurveX(x, epsilon));\n};\n","// @flow\n\nimport Color from './color';\n\nexport function number(a: number, b: number, t: number) {\n   return (a * (1 - t)) + (b * t);\n}\n\nexport function color(from: Color, to: Color, t: number) {\n   return new Color(\n   number(from.r, to.r, t),\n   number(from.g, to.g, t),\n   number(from.b, to.b, t),\n   number(from.a, to.a, t)\n   );\n}\n\nexport function array(from: Array<number>, to: Array<number>, t: number): Array<number> {\n   return from.map((d, i) => {\n   return number(d, to[i], t);\n   });\n}\n","// @flow\n\nimport Color from './color';\n\nimport {number as interpolateNumber} from './interpolate';\n\ntype LABColor = {\n   l: number,\n   a: number,\n   b: number,\n   alpha: number\n};\n\ntype HCLColor = {\n   h: number,\n   c: number,\n   l: number,\n   alpha: number\n};\n\n// Constants\nconst Xn = 0.950470, // D65 standard referent\n   Yn = 1,\n   Zn = 1.088830,\n   t0 = 4 / 29,\n   t1 = 6 / 29,\n   t2 = 3 * t1 * t1,\n   t3 = t1 * t1 * t1,\n   deg2rad = Math.PI / 180,\n   rad2deg = 180 / Math.PI;\n\n// Utilities\nfunction xyz2lab(t: number) {\n   return t > t3 ? Math.pow(t, 1 / 3) : t / t2 + t0;\n}\n\nfunction lab2xyz(t: number) {\n   return t > t1 ? t * t * t : t2 * (t - t0);\n}\n\nfunction xyz2rgb(x: number) {\n   return 255 * (x <= 0.0031308 ? 12.92 * x : 1.055 * Math.pow(x, 1 / 2.4) - 0.055);\n}\n\nfunction rgb2xyz(x: number) {\n   x /= 255;\n   return x <= 0.04045 ? x / 12.92 : Math.pow((x + 0.055) / 1.055, 2.4);\n}\n\n// LAB\nfunction rgbToLab(rgbColor: Color): LABColor {\n   const b = rgb2xyz(rgbColor.r),\n   a = rgb2xyz(rgbColor.g),\n   l = rgb2xyz(rgbColor.b),\n   x = xyz2lab((0.4124564 * b + 0.3575761 * a + 0.1804375 * l) / Xn),\n   y = xyz2lab((0.2126729 * b + 0.7151522 * a + 0.0721750 * l) / Yn),\n   z = xyz2lab((0.0193339 * b + 0.1191920 * a + 0.9503041 * l) / Zn);\n\n   return {\n   l: 116 * y - 16,\n   a: 500 * (x - y),\n   b: 200 * (y - z),\n   alpha: rgbColor.a\n   };\n}\n\nfunction labToRgb(labColor: LABColor): Color {\n   let y = (labColor.l + 16) / 116,\n   x = isNaN(labColor.a) ? y : y + labColor.a / 500,\n   z = isNaN(labColor.b) ? y : y - labColor.b / 200;\n   y = Yn * lab2xyz(y);\n   x = Xn * lab2xyz(x);\n   z = Zn * lab2xyz(z);\n   return new Color(\n   xyz2rgb(3.2404542 * x - 1.5371385 * y - 0.4985314 * z), // D65 -> sRGB\n   xyz2rgb(-0.9692660 * x + 1.8760108 * y + 0.0415560 * z),\n   xyz2rgb(0.0556434 * x - 0.2040259 * y + 1.0572252 * z),\n   labColor.alpha\n   );\n}\n\nfunction interpolateLab(from: LABColor, to: LABColor, t: number) {\n   return {\n   l: interpolateNumber(from.l, to.l, t),\n   a: interpolateNumber(from.a, to.a, t),\n   b: interpolateNumber(from.b, to.b, t),\n   alpha: interpolateNumber(from.alpha, to.alpha, t)\n   };\n}\n\n// HCL\nfunction rgbToHcl(rgbColor: Color): HCLColor {\n   const {l, a, b} = rgbToLab(rgbColor);\n   const h = Math.atan2(b, a) * rad2deg;\n   return {\n   h: h < 0 ? h + 360 : h,\n   c: Math.sqrt(a * a + b * b),\n   l,\n   alpha: rgbColor.a\n   };\n}\n\nfunction hclToRgb(hclColor: HCLColor): Color {\n   const h = hclColor.h * deg2rad,\n   c =

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

return context.error('Input/output pairs for \"interpolate\" expressions must be defined using literal numeric values (not computed expressions) for the input values.', labelKey);\n   }\n\n   if (stops.length && stops[stops.length - 1][0] >= label) {\n   return context.error('Input/output pairs for \"interpolate\" expressions must be arranged with input values in strictly ascending order.', labelKey);\n   }\n\n   const parsed = context.parse(value, valueKey, outputType);\n   if (!parsed) return null;\n   outputType = outputType || parsed.type;\n   stops.push([label, parsed]);\n   }\n\n   if (outputType.kind !== 'number' &&\n

    outputType.kind !== 'color' &&\n   !(\n   outputType.kind === 'array' &&\n   outputType.itemType.kind === 'number' &&\n   typeof outputType.N === 'number'\n   )\n   ) {\n   return context.error(`Type ${toString(outputType)} is not interpolatable.`);\n   }\n\n   return new Interpolate(outputType, (operator: any), interpolation, input, stops);\n }\n\n evaluate(ctx: EvaluationContext) {\n   const labels = this.labels;\n   const outputs = this.outputs;\n\n   if (labels.length === 1) {\n   return outputs[0].evaluate(ctx);\n   }\n\n   const value = ((this.input.evaluate(ctx): any): number);\n   if (value <= labels[0]) {\n   return outputs[0].evaluate(ctx);\n   }\n\n   const stopCount = labels.length;\n   if (value >= labels[stopCount - 1]) {\n   return outputs[stopCount - 1].evaluate(ctx);\n   }\n\n   const index = findStopLessThanOrEqualTo(labels,

 value);\n   const lower = labels[index];\n   const upper = labels[index + 1];\n   const t = Interpolate.interpolationFactor(this.interpolation, value, lower, upper);\n\n   const outputLower = outputs[index].evaluate(ctx);\n   const outputUpper = outputs[index + 1].evaluate(ctx);\n\n   if (this.operator === 'interpolate') {\n   return (interpolate[this.type.kind.toLowerCase()]: any)(outputLower, outputUpper, t); // eslint-disable-line import/namespace\n   } else if (this.operator === 'interpolate-hcl') {\n   return hcl.reverse(hcl.interpolate(hcl.forward(outputLower), hcl.forward(outputUpper), t));\n   } else {\n   return lab.reverse(lab.interpolate(lab.forward(outputLower), lab.forward(outputUpper), t));\n   }\n }\n\n eachChild(fn: (_: Expression) => void) {\n   fn(this.input);\n   for (const expression of this.outputs) {\n   fn(expression);\n   }\n }\n\n

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

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

 = (y1 - y0) * (base^x - base^x0) / (base^x1 - base^x0)\n * ```\n *\n * If we let `(base^x - base^x0) / (base^x1 base^x0)`, then we have\n * `f(x) = y0 + (y1 - y0) * ratio`. In other words, `ratio` may be treated as\n * an interpolation factor between the two stops' output values.\n *\n * (Note: a slightly different form for `ratio`,\n * `(base^(x-x0) - 1) / (base^(x1-x0) - 1) `, is equivalent, but requires fewer\n * expensive `Math.pow()` operations.)\n *\n * @private\n*/\nfunction exponentialInterpolation(input, base, lowerValue, upperValue) {\n   const difference =

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

result);\n   }\n\n   outputDefined() {\n   return this.result.outputDefined();\n   }\n\n   serialize() {\n   const serialized = [\"let\"];\n   for (const [name, expr] of this.bindings) {\n   serialized.push(name, expr.serialize());\n   }\n   serialized.push(this.result.serialize());\n   return serialized;\n   }\n}\n\nexport default Let;\n","// @flow\n\nimport {array, ValueType, NumberType} from '../types';\nimport RuntimeError from '../runtime_error';\nimport type {Expression} from '../expression';\nimport type ParsingContext from '../parsing_context';\nimport type EvaluationContext from '../evaluation_context';\nimport type {Type, ArrayType} from '../types';\nimport type {Value} from '../values';\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   const t: ArrayType = (input.type: any);\n   return new At(t.itemType, index, input);\n   }\n\n   evaluate(ctx: EvaluationContext) {\n   const index = ((this.index.evaluate(ctx): any): number);\n   const array = ((this.input.evaluate(ctx): any): Array<Value>);\n\n   if (index < 0) {\n   throw new RuntimeError(`Array index out of bounds: ${index} < 0.`);\n   }\n\n   if (index >= array.length) {\n   throw new RuntimeError(`Array index out of bounds: ${index} > ${array.length - 1}.`);\n   }\n\n   if (index !== Math.floor(index)) {\n   throw new RuntimeError(`Array index must be an integer, but found ${index} instead.`);\n   }\n\n   return array[index];\n   }\n\n   eachChild(fn: (_: Expression) => void) {\n   fn(this.index);\n   fn(this.input);\n   }\n\n   outputDefined() {\n   return false;\n   }\n\n   serialize() {\n   return [\"at\", this.index.serialize(), this.input.serialize()];\n   }\n}\n\nexport default At;\n","// @flow\n\nimport {BooleanType, StringType, ValueType, NullType, toString, NumberType, isValidType, isValidNativeType} from '../types';\nimport RuntimeError from '../runtime_error';\nimport {typeOf} from '../values';\nimport type {Expression} from '../expression';\nimport type ParsingContext from '../parsing_context';\nimport type EvaluationContext from '../evaluation_context';\nimport type {Type} from '../types';\nclass In implements Expression {\n   type: Type;\n   needle: Expression;\n   haystack: Expression;\n\n   constructor(needle: Expression, haystack: Expression) {\n   this.type = BooleanType;\n   this.needle = needle;\n   this.haystack = haystack;\n   }\n\n   static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n   if (args.length !== 3) {\n   return context.error(`Expected 2 arguments, but found ${args.length - 1} instead.`);\n   }\n\n   const needle = context.parse(args[1], 1, ValueType);\n\n   const haystack = context.parse(args[2], 2, ValueType);\n   if (!needle || !haystack) return null;\n\n   if (!isValidType(needle.type, [BooleanType, StringType, NumberType, NullType, ValueType])) {\n   return context.error(`Expected first argument to be of type boolean, string, number or null, but found ${toString(needle.type)} instead`);\n   }\n\n   return new In(needle, haystack);\n   }\n\n   evaluate(ctx: EvaluationContext) {\n   const needle = (this.needle.evaluate(ctx): any);\n\n   const haystack = (this.haystack.evaluate(ctx): any);\n\n   if (!haystack) return false;\n\n   if (!isValidNativeType(needle, ['boolean', 'string', 'number', 'null'])) {\n   throw new RuntimeError(`Expected first argument to be of type boolean, string, number or null, but found ${toString(typeOf(needle))} instead.`);\n   }\n\n   if (!isValidNativeType(haystack, ['string', 'array'])) {\n   throw new RuntimeError(`Expected second argument to be of type array or string, but found ${toString(typeOf(haystack))} instead.`);\n   }\n\n   return haystack.indexOf(needle) >= 0;\n   }\n\n   eachChild(fn: (_: Expression) => void) {\n   fn(this.needle);\n   fn(this.haystack);\n   }\n\n   outputDefined() {\n   return true;\n   }\n\n   serialize() {\n   return [\"in\", this.needle.serialize(), this.haystack.serialize()];\n   }\n}\n\nexport default In;\n","// @flow\n\nimport {BooleanType, StringType, ValueType, NullType, toString, NumberType, isValidType, isValidNativeType} from '../types';\nimport RuntimeError from '../runtime_error';\nimport {typeOf} from '../values';\nimport type {Expression} from '../expression';\nimport type ParsingContext from '../parsing_context';\nimport type EvaluationContext from '../evaluation_context';\nimport type

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

= input;\n   this.cases = cases;\n   this.outputs = outputs;\n   this.otherwise = otherwise;\n   }\n\n   static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n   if (args.length < 5)\n   return context.error(`Expected at least 4 arguments, but found only ${args.length - 1}.`);\n   if (args.length % 2 !== 1)\n   return context.error(`Expected an even number of arguments.`);\n\n   let inputType;\n   let outputType;\n   if (context.expectedType && context.expectedType.kind !== 'value') {\n   outputType = context.expectedType;\n   }\n   const cases = {};\n   const outputs = [];\n   for (let i = 2; i < args.length - 1; i += 2) {\n   let labels = args[i];\n   const value = args[i + 1];\n\n   if (!Array.isArray(labels)) {\n   labels = [labels];\n   }\n\n   const labelContext = context.concat(i);\n   if (labels.length === 0) {\n   return labelContext.error('Expected at least one branch label.');\n   }\n\n   for (const label of labels) {\n   if (typeof label !== 'number' && typeof label !== 'string') {\n   return labelContext.error(`Branch labels must be numbers or strings.`);\n   } else if (typeof label === 'number' && Math.abs(label) > Number.MAX_SAFE_INTEGER) {\n   return labelContext.error(`Branch labels must be integers no larger than ${Number.MAX_SAFE_INTEGER}.`);\n   } else if (typeof label === 'number' && Math.floor(label) !== label) {\n   return labelContext.error(`Numeric branch labels must be integer values.`);\n   } else if (!inputType) {\n   inputType = typeOf(label);\n   } else if

(labelContext.checkSubtype(inputType, typeOf(label))) {\n   return null;\n   }\n\n   if (typeof cases[String(label)]

!== 'undefined') {\n   return labelContext.error('Branch labels must be unique.');\n   }\n\n   cases[String(label)] = outputs.length;\n   }\n\n   const result = context.parse(value, i, outputType);\n   if (!result) return null;\n   outputType = outputType || result.type;\n   outputs.push(result);\n   }\n\n   const input = context.parse(args[1], 1, ValueType);\n   if (!input) return null;\n\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   // Group branches by unique match expression to support condensed\n   // serializations of the form [case1, case2, ...] -> matchExpression\n   const groupedByOutput: Array<[number, Array<number | string>]> =

 [];\n   const outputLookup: {[index: number]: number} = {}; // lookup index into groupedByOutput for a given output expression\n   for (const label of sortedLabels) {\n   const outputIndex = outputLookup[this.cases[label]];\n   if (outputIndex === undefined) {\n   // First time seeing this output, add it to the end of the grouped list\n   outputLookup[this.cases[label]] = groupedByOutput.length;\n   groupedByOutput.push([this.cases[label], [label]]);\n   } else {\n   // We've seen this expression before, add the label to that output's group\n   groupedByOutput[outputIndex][1].push(label);\n   }\n   }\n\n   const coerceLabel = (label) => this.inputType.kind === 'number' ? Number(label) : label;\n\n   for (const [outputIndex, labels] of groupedByOutput) {\n   if (labels.length === 1) {\n   // Only a single label matches this output expression\n

            serialized.push(coerceLabel(labels[0]));\n   } else {\n   // Array of literal labels pointing to this output expression\n   serialized.push(labels.map(coerceLabel));\n   }\n   serialized.push(this.outputs[outputIndex].serialize());\n   }\n   serialized.push(this.otherwise.serialize());\n   return serialized;\n   }\n}\n\nexport default Match;\n","// @flow\n\nimport assert from 'assert';\n\nimport {BooleanType} from '../types';\n\nimport type {Expression} from '../expression';\n\nimport type ParsingContext from '../parsing_context';\n\nimport type EvaluationContext from '../evaluation_context';\n\nimport type {Type} from '../types';\n\ntype Branches = Array<[Expression, Expression]>;\n\nclass Case implements Expression {\n   type: Type;\n\n   branches: Branches;\n   otherwise: Expression;\n\n   constructor(type: Type, branches: Branches, otherwise: Expression) {\n   this.type = type;\n   this.branches

 = branches;\n   this.otherwise = otherwise;\n   }\n\n   static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n   if (args.length < 4)\n   return context.error(`Expected at least 3 arguments, but found only ${args.length - 1}.`);\n   if (args.length % 2 !== 0)\n   return context.error(`Expected an odd number of arguments.`);\n\n   let outputType: ?Type;\n   if (context.expectedType && context.expectedType.kind !== 'value') {\n   outputType = context.expectedType;\n   }\n\n   const branches = [];\n   for (let i = 1; i < args.length - 1; i += 2) {\n   const test = context.parse(args[i], i, BooleanType);\n   if (!test) return null;\n\n   const result = context.parse(args[i + 1], i + 1, outputType);\n   if (!result) return null;\n\n   branches.push([test, result]);\n\n   outputType = outputType || result.type;\n   }\n\n   const otherwise

 = context.parse(args[args.length - 1], args.length - 1, outputType);\n   if (!otherwise) return null;\n\n   assert(outputType);\n   return new Case((outputType: any), branches, otherwise);\n   }\n\n   evaluate(ctx:

EvaluationContext) {\n   for (const [test, expression] of this.branches) {\n   if (test.evaluate(ctx)) {\n   return expression.evaluate(ctx);\n   }\n   }\n   return this.otherwise.evaluate(ctx);\n   }\n\n   eachChild(fn: (_: Expression) => void) {\n   for (const [test, expression] of this.branches) {\n   fn(test);\n   fn(expression);\n   }\n   fn(this.otherwise);\n   }\n\n   outputDefined(): boolean {\n   return this.branches.every(([_, out]) => out.outputDefined()) && this.otherwise.outputDefined();\n   }\n\n   serialize() {\n   const serialized = [\"case\"];\n   this.eachChild(child => { serialized.push(child.serialize()); });\n   return serialized;\n

    }\n}\n\nexport default Case;\n","// @flow\n\nimport {ValueType, NumberType, StringType, array, toString, isValidType, isValidNativeType} from '../types';\nimport RuntimeError from '../runtime_error';\nimport {typeOf} from '../values';\nimport type {Expression} from '../expression';\nimport type ParsingContext from '../parsing_context';\nimport type EvaluationContext from '../evaluation_context';\nimport type {Type} from '../types';\n\nclass Slice implements Expression {\n   type: Type;\n   input: Expression;\n   beginIndex: Expression;\n   endIndex: ?Expression;\n\n   constructor(type: Type, input: Expression, beginIndex: Expression, endIndex?: Expression) {\n   this.type = type;\n   this.input = input;\n   this.beginIndex = beginIndex;\n   this.endIndex = endIndex;\n\n   }\n\n   static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n   if (args.length <= 2 || args.length >= 5) {\n   return context.error(`Expected 3 or 4 arguments, but found ${args.length - 1} instead.`);\n   }\n\n   const input = context.parse(args[1], 1, ValueType);\n   const beginIndex = context.parse(args[2], 2, NumberType);\n\n   if (!input || !beginIndex) return null;\n\n   if (!isValidType(input.type, [array(ValueType), StringType, ValueType])) {\n   return context.error(`Expected first argument to be of type array or string, but found ${toString(input.type)} instead`);\n   }\n\n   if (args.length === 4) {\n   const endIndex = context.parse(args[3], 3, NumberType);\n   if (!endIndex) return null;\n   return new Slice(input.type, input, beginIndex, endIndex);\n   } else {\n   return new Slice(input.type, input, beginIndex);\n   }\n   }\n\n   evaluate(ctx: EvaluationContext) {\n   const input = (this.input.evaluate(ctx): any);\n   const beginIndex = (this.beginIndex.evaluate(ctx): number);\n\n   if (!isValidNativeType(input, ['string',
 'array'])) {\n   throw new RuntimeError(`Expected first argument to be of type array or string, but found ${toString(typeOf(input))} instead.`);\n   }\n\n   if (this.endIndex) {\n   const endIndex = (this.endIndex.evaluate(ctx): number);\n   return input.slice(beginIndex, endIndex);\n   }\n\n   return input.slice(beginIndex);\n   }\n\n   eachChild(fn: (_: Expression) => void) {\n   fn(this.input);\n   fn(this.beginIndex);\n   if (this.endIndex) {\n   fn(this.endIndex);\n   }\n   }\n\n   outputDefined() {\n   return false;\n   }\n\n   serialize() {\n   if (this.endIndex != null && this.endIndex !== undefined) {\n   const endIndex = this.endIndex.serialize();\n   return [\"slice\", this.input.serialize(), this.beginIndex.serialize(), endIndex];\n   }\n   return [\"slice\", this.input.serialize(), this.beginIndex.serialize()];\n   }\n}\n\nexport default Slice;\n","//
 @flow\n\nimport {toString, ValueType, BooleanType, CollatorType} from '../types';\nimport Assertion from './assertion';\nimport {typeOf} from '../values';\nimport RuntimeError from '../runtime_error';\n\nimport type {Expression} from '../expression';\nimport type EvaluationContext from '../evaluation_context';\nimport type ParsingContext from '../parsing_context';\nimport type {Type} from '../types';\n\ntype ComparisonOperator = '==' | '!=' | '<' | '>' | '<=' | '>=' ;\n\nfunction isComparableType(op: ComparisonOperator, type: Type) {\n   if (op === '==' || op === '!=') {\n   // equality operator\n   return type.kind === 'boolean' ||\n   type.kind === 'string' ||\n   type.kind === 'number' ||\n   type.kind === 'null' ||\n   type.kind === 'value';\n   } else {\n   // ordering operator\n   return type.kind === 'string' ||\n   type.kind === 'number' ||\n   type.kind === 'value';\n   }\n}\n\nfunction eq(ctx,
 a, b) { return a === b; }\nfunction neq(ctx, a, b) { return a !== b; }\nfunction lt(ctx, a, b) { return a < b; }\nfunction gt(ctx, a, b) { return a > b; }\nfunction lteq(ctx, a, b) { return a <= b; }\nfunction gteq(ctx, a, b) { return a >= b; }\n\nfunction eqCollate(ctx, a, b, c) { return c.compare(a, b) === 0; }\nfunction neqCollate(ctx, a, b, c) { return !eqCollate(ctx, a, b, c); }\nfunction ltCollate(ctx, a, b, c) { return c.compare(a, b) < 0; }\nfunction gtCollate(ctx, a, b, c) { return c.compare(a, b) > 0; }\nfunction lteqCollate(ctx, a, b, c) { return c.compare(a, b) <= 0; }\nfunction

gteqCollate(ctx, a, b, c) { return c.compare(a, b) >= 0; }\n\n/**\n * Special form for comparison operators,
implementing the signatures:\n * - (T, T, ?Collator) => boolean\n * - (T, value, ?Collator) => boolean\n * - (value,
T, ?Collator) => boolean\n *\n * For inequalities, T must be either value, string, or number. For ==/!=, it\n * can
also be boolean or null.\n *\n * Equality semantics are equivalent

to Javascript's strict equality (===/!==)\n * -- i.e., when the arguments' types don't match, == evaluates to false, !=
to\n * true.\n *\n * When types don't match in an ordering comparison, a runtime error is thrown.\n *\n * @private\n
*/\nfunction makeComparison(op: ComparisonOperator, compareBasic, compareWithCollator) {\n   const
isOrderComparison = op !== '==' && op !== '!=';\n\n   return class Comparison implements Expression {\n
type: Type;\n   lhs: Expression;\n   rhs: Expression;\n   collator: ?Expression;\n   hasUntypedArgument:
boolean;\n\n   constructor(lhs: Expression, rhs: Expression, collator: ?Expression) {\n   this.type =
BooleanType;\n   this.lhs = lhs;\n   this.rhs = rhs;\n   this.collator = collator;\n
this.hasUntypedArgument = lhs.type.kind === 'value' || rhs.type.kind === 'value';\n   }\n\n   static parse(args:
$ReadOnlyArray<mixed>, context: ParsingContext): ?Expression

{\n   if (args.length !== 3 && args.length !== 4)\n   return context.error(`Expected two or three
arguments.`);\n\n   const op: ComparisonOperator = (args[0]: any);\n\n   let lhs = context.parse(args[1],
1, ValueType);\n   if (!lhs) return null;\n   if (!isComparableType(op, lhs.type)) {\n   return
context.concat(1).error(`\"${op}\" comparisons are not supported for type '${toString(lhs.type)}'.`);\n   }\n
let rhs = context.parse(args[2], 2, ValueType);\n   if (!rhs) return null;\n   if (!isComparableType(op,
rhs.type)) {\n   return context.concat(2).error(`\"${op}\" comparisons are not supported for type
'${toString(rhs.type)}'.`);\n   }\n\n   if (\n   lhs.type.kind !== rhs.type.kind &&\n
lhs.type.kind !== 'value' &&\n   rhs.type.kind !== 'value'\n   ) {\n   return
context.error(`Cannot

compare types '${toString(lhs.type)}' and '${toString(rhs.type)}'.`);\n   }\n\n   if (isOrderComparison)
{\n   // typing rules specific to less/greater than operators\n   if (lhs.type.kind === 'value' &&
rhs.type.kind !== 'value') {\n   // (value, T)\n   lhs = new Assertion(rhs.type, [lhs]);\n   }
else if (lhs.type.kind !== 'value' && rhs.type.kind === 'value') {\n   // (T, value)\n   rhs = new
Assertion(lhs.type, [rhs]);\n   }\n   }\n\n   let collator = null;\n   if (args.length === 4) {\n
if (\n   lhs.type.kind !== 'string' &&\n   rhs.type.kind !== 'string' &&\n
lhs.type.kind !== 'value' &&\n   rhs.type.kind !== 'value'\n   ) {\n   return
context.error(`Cannot use collator to compare non-string types.`);\n

}\n   collator = context.parse(args[3], 3, CollatorType);\n   if (!collator) return null;\n
}\n\n   return new Comparison(lhs, rhs, collator);\n   }\n\n   evaluate(ctx: EvaluationContext) {\n
const lhs = this.lhs.evaluate(ctx);\n   const rhs = this.rhs.evaluate(ctx);\n\n   if (isOrderComparison &&
this.hasUntypedArgument) {\n   const lt = typeOf(lhs);\n   const rt = typeOf(rhs);\n   //
check that type is string or number, and equal\n   if (lt.kind !== rt.kind || !(lt.kind === 'string' || lt.kind ===
'number')) {\n   throw new RuntimeError(`Expected arguments for \"${op}\" to be (string, string) or
(number, number), but found (${lt.kind}, ${rt.kind}) instead.`);\n   }\n   }\n\n   if (this.collator
&& !isOrderComparison && this.hasUntypedArgument) {\n   const lt = typeOf(lhs);\n
const rt = typeOf(rhs);\n   if (lt.kind !== 'string' || rt.kind !== 'string') {\n   return
compareBasic(ctx, lhs, rhs);\n   }\n   }\n\n   return this.collator ?\n
compareWithCollator(ctx, lhs, rhs, this.collator.evaluate(ctx)) :\n   compareBasic(ctx, lhs, rhs);\n   }\n\n
eachChild(fn: (_: Expression) => void) {\n   fn(this.lhs);\n   fn(this.rhs);\n   if (this.collator) {\n
fn(this.collator);\n   }\n   }\n\n   outputDefined(): boolean {\n   return true;\n   }\n\n
serialize() {\n   const serialized = [op];\n   this.eachChild(child => { serialized.push(child.serialize());
});\n   return serialized;\n   }\n   };\n}\n\nexport const Equals = makeComparison('==', eq,
eqCollate);\nexport const NotEquals = makeComparison('!=', neq, neqCollate);\nexport const LessThan
= makeComparison('<', lt, ltCollate);\nexport const GreaterThan = makeComparison('>', gt, gtCollate);\nexport
const LessThanOrEqual = makeComparison('<=', lteq, lteqCollate);\nexport const GreaterThanOrEqual =

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

Expression) {\n   this.type = NumberType;\n   this.input = input;\n   }\n\n static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n   if (args.length !== 2)\n   return context.error(`Expected 1 argument, but found ${args.length - 1} instead.`);\n\n   const input = context.parse(args[1], 1);\n   if (!input) return null;\n\n   if (input.type.kind !== 'array' && input.type.kind !== 'string' && input.type.kind

!== 'value')\n   return context.error(`Expected argument of type string or array, but found ${toString(input.type)} instead.`);\n\n   return new Length(input);\n   }\n\n evaluate(ctx: EvaluationContext) {\n   const input = this.input.evaluate(ctx);\n   if (typeof input === 'string') {\n   return input.length;\n   } else if (Array.isArray(input)) {\n   return input.length;\n   } else {\n   throw new RuntimeError(`Expected value to be of type string or array, but found ${toString(typeOf(input))} instead.`);\n   }\n   }\n\n eachChild(fn: (_: Expression) => void) {\n   fn(this.input);\n   }\n\n outputDefined() {\n   return false;\n   }\n\n serialize() {\n   const serialized = [\"length\"];\n   this.eachChild(child => { serialized.push(child.serialize()); });\n   return serialized;\n   }\n}\n\nexport default Length;\n","//
@flow\n\nimport {\n   type Type,\n   NumberType,\n

StringType,\n   BooleanType,\n   ColorType,\n   ObjectType,\n   ValueType,\n   ErrorType,\n   CollatorType,\n   array,\n   toString as typeToString\n} from '../types';\n\nimport {typeOf, Color, validateRGBA, toString as valueToString} from '../values';\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 IndexOf from './index_of';\n\nimport Match from './match';\n\nimport Case from './case';\n\nimport Slice from './slice';\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\n\nimport type {Varargs} from '../compound_expression';\n\nimport type {ExpressionRegistry} from '../expression';\n\n\nconst expressions: ExpressionRegistry = {\n   // special forms\n   '==': Equals,\n   '!=': NotEquals,\n   '>': GreaterThan,\n   '<': LessThan,\n   '>=': GreaterThanOrEqual,\n   '<=': LessThanOrEqual,\n   'array': Assertion,\n   'at': At,\n   'boolean': Assertion,\n   'case': Case,\n   'coalesce': Coalesce,\n   'collator': CollatorExpression,\n   'format': FormatExpression,\n   'image': ImageExpression,\n   'in': In,\n   'index-of': IndexOf,\n   'interpolate': Interpolate,\n   'interpolate-hcl': Interpolate,\n   'interpolate-lab': Interpolate,\n   'length': Length,\n   'let': Let,\n   'literal': Literal,\n   'match': Match,\n   'number': Assertion,\n   'number-format':
 NumberFormat,\n   'object': Assertion,\n   'slice': Slice,\n   'step': Step,\n   'string': Assertion,\n   'to-boolean': Coercion,\n   'to-color': Coercion,\n   'to-number': Coercion,\n   'to-string': Coercion,\n   'var': Var,\n   'within': Within\n};\n\nfunction rgba(ctx, [r, g, b, a]) {\n   r = r.evaluate(ctx);\n   g = g.evaluate(ctx);\n   b = b.evaluate(ctx);\n   const alpha = a ? a.evaluate(ctx) : 1;\n   const error = validateRGBA(r, g, b, alpha);\n   if (error) throw new RuntimeError(error);\n   return new Color(r / 255 * alpha, g / 255 * alpha, b / 255 * alpha, alpha);\n}\n\nfunction has(key, obj) {\n   return key in obj;\n}\n\nfunction get(key, obj) {\n   const v = obj[key];\n   return typeof v === 'undefined' ? null : v;\n}\n\nfunction binarySearch(v, a, i, j) {\n   while (i <= j) {\n   const m = (i + j) >> 1;\n   if (a[m] === v)\n   return true;\n   if (a[m] > v)\n   j = m - 1;\n   else\n   i = m + 1;\n

    }\n   return false;\n}\n\nfunction varargs(type: Type): Varargs {\n   return {type};\n}\n\nCompoundExpression.register(expressions, {\n   'error': [\n   ErrorType,\n   [StringType],\n   (ctx, [v]) => { throw new RuntimeError(v.evaluate(ctx)); }\n   ],\n   'typeof': [\n   StringType,\n   [ValueType],\n   (ctx, [v]) => typeToString(typeOf(v.evaluate(ctx)))\n   ],\n   'to-rgba': [\n   array(NumberType, 4),\n   [ColorType],\n   (ctx, [v]) => {\n   return v.evaluate(ctx).toArray();\n   }\n   ],\n   'rgb': [\n   ColorType,\n   [NumberType, NumberType, NumberType],\n   rgba\n   ],\n   'rgba': [\n   ColorType,\n   [NumberType, NumberType, NumberType, NumberType],\n   rgba\n   ],\n   'has': {\n

type: BooleanType,\n   overloads: [\n   [\n   [StringType],\n   (ctx, [key]) => has(key.evaluate(ctx), ctx.properties())\n   ], [\n

[StringType, ObjectType],\n   (ctx, [key, obj]) => has(key.evaluate(ctx), obj.evaluate(ctx))\n   ]\n

]\n   },\n   'get': {\n   type: ValueType,\n   overloads: [\n   [\n   [StringType],\n   (ctx, [key]) => get(key.evaluate(ctx), ctx.properties())\n   ], [\n   [StringType, ObjectType],\n   (ctx, [key, obj]) => get(key.evaluate(ctx), obj.evaluate(ctx))\n   ]\n   ]\n   },\n   'feature-state': [\n   ValueType,\n   [StringType],\n   (ctx, [key]) => get(key.evaluate(ctx), ctx.featureState || {})\n   ],\n   'properties': [\n   ObjectType,\n   [],\n   (ctx) => ctx.properties()\n   ],\n   'geometry-type': [\n   StringType,\n   [],\n   (ctx) => ctx.geometryType()\n   ],\n   'id': [\n   ValueType,\n   [],\n   (ctx) => ctx.id()\n   ],\n   'zoom': [\n   NumberType,\n   [],\n   (ctx) => ctx.globals.zoom\n

    ],\n   'heatmap-density': [\n   NumberType,\n   [],\n   (ctx) => ctx.globals.heatmapDensity || 0\n   ],\n   'line-progress': [\n   NumberType,\n   [],\n   (ctx) => ctx.globals.lineProgress || 0\n   ],\n   'accumulated':

[\n   ValueType,\n   [],\n   (ctx) => ctx.globals.accumulated === undefined ? null : ctx.globals.accumulated\n   ],\n   '+': [\n   NumberType,\n   varargs(NumberType),\n   (ctx, args) => {\n

    let result = 0;\n   for (const arg of args) {\n   result += arg.evaluate(ctx);\n   }\n   return result;\n   }\n   ],\n   '*': [\n   NumberType,\n   varargs(NumberType),\n   (ctx, args) => {\n   let result = 1;\n   for (const arg of args) {\n   result *= arg.evaluate(ctx);\n   }\n   return result;\n   }\n   ],\n   '-': {\n   type: NumberType,\n   overloads: [\n

    [\n   [NumberType, NumberType],\n   (ctx, [a, b]) => a.evaluate(ctx) - b.evaluate(ctx)\n], [\n   [NumberType],\n   (ctx, [a]) => -a.evaluate(ctx)\n   ]\n   ]\n   },\n   '/': [\n   NumberType,\n   [NumberType, NumberType],\n   (ctx, [a, b]) => a.evaluate(ctx) / b.evaluate(ctx)\n   ],\n '%': [\n   NumberType,\n   [NumberType, NumberType],\n   (ctx, [a, b]) => a.evaluate(ctx) % b.evaluate(ctx)\n   ],\n   'ln2': [\n   NumberType,\n   [],\n   () => Math.LN2\n   ],\n   'pi': [\n   NumberType,\n   [],\n   () => Math.PI\n   ],\n   'e': [\n   NumberType,\n   [],\n   () => Math.E\n   ],\n '^': [\n   NumberType,\n   [NumberType, NumberType],\n   (ctx, [b, e]) => Math.pow(b.evaluate(ctx), e.evaluate(ctx))\n   ],\n   'sqrt': [\n   NumberType,\n   [NumberType],\n   (ctx, [x]) => Math.sqrt(x.evaluate(ctx))\n

    ],\n   'log10': [\n   NumberType,\n   [NumberType],\n   (ctx, [n]) => Math.log(n.evaluate(ctx)) / Math.LN10\n   ],\n   'ln': [\n   NumberType,\n   [NumberType],\n   (ctx, [n]) => Math.log(n.evaluate(ctx))\n   ],\n   'log2': [\n   NumberType,\n   [NumberType],\n   (ctx, [n]) => Math.log(n.evaluate(ctx)) / Math.LN2\n   ],\n   'sin': [\n   NumberType,\n   [NumberType],\n   (ctx, [n]) => Math.sin(n.evaluate(ctx))\n   ],\n   'cos': [\n   NumberType,\n   [NumberType],\n   (ctx, [n]) => Math.cos(n.evaluate(ctx))\n   ],\n   'tan': [\n   NumberType,\n   [NumberType],\n   (ctx, [n]) => Math.tan(n.evaluate(ctx))\n   ],\n   'asin': [\n   NumberType,\n   [NumberType],\n   (ctx, [n]) => Math.asin(n.evaluate(ctx))\n   ],\n   'acos': [\n   NumberType,\n   [NumberType],\n   (ctx, [n]) => Math.acos(n.evaluate(ctx))\n   ],\n   'atan': [\n   NumberType,\n

    [NumberType],\n   (ctx, [n]) => Math.atan(n.evaluate(ctx))\n   ],\n   'min': [\n   NumberType,\n   varargs(NumberType),\n   (ctx, args) => Math.min(...args.map(arg => arg.evaluate(ctx)))\n   ],\n   'max': [\n   NumberType,\n   varargs(NumberType),\n   (ctx, args) => Math.max(...args.map(arg => arg.evaluate(ctx)))\n   ],\n   'abs': [\n   NumberType,\n   [NumberType],\n   (ctx, [n]) => Math.abs(n.evaluate(ctx))\n   ],\n   'round': [\n   NumberType,\n   [NumberType],\n   (ctx, [n]) => {\n   const v = n.evaluate(ctx);\n   // Javascript's Math.round() rounds towards +Infinity for halfway\n   // values, even when they're negative. It's more common to round\n   // away from 0 (e.g., this is what python and C++ do)\n   return v < 0 ? -Math.round(-v) : Math.round(v);\n   }\n   ],\n   'floor': [\n   NumberType,\n   [NumberType],\n   (ctx, [n]) =>

 Math.floor(n.evaluate(ctx))\n   ],\n   'ceil': [\n   NumberType,\n   [NumberType],\n   (ctx, [n]) => Math.ceil(n.evaluate(ctx))\n   ],\n   'filter-==': [\n   BooleanType,\n   [StringType, ValueType],\n   (ctx, [k, v]) => ctx.properties()[(k: any).value] === (v: any).value\n   ],\n   'filter-id-==': [\n   BooleanType,\n

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

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result: 'success', value: T |}\n    | {| result: 'error', value: E |};\n\nexport function success<T, E>(value: T): Result<T,
E> {\n    return {result: 'success', value};\n}\n\nexport function error<T, E>(value: E): Result<T, E> {\n    return
{result: 'error', value};\n}\n","// @flow\n\nimport type {StylePropertySpecification} from '../style-spec';\n\nexport
function supportsPropertyExpression(spec: StylePropertySpecification): boolean {\n    return spec['property-type']
=== 'data-driven' || spec['property-type'] === 'cross-faded-data-driven';\n}\n\nexport function
supportsZoomExpression(spec: StylePropertySpecification): boolean {\n    return !!spec.expression &&
spec.expression.parameters.indexOf('zoom') > -1;\n}\n\nexport function supportsInterpolation(spec:
StylePropertySpecification): boolean {\n    return !!spec.expression && spec.expression.interpolated;\n}\n","//
@flow\n\nexport default function getType(val: mixed): string {\n    if (val instanceof Number) {\n        return
'number';\n    } else if (val instanceof String) {\n        return 'string';\n    } else if (val instanceof Boolean) {\n
return 'boolean';\n    } else if (Array.isArray(val)) {\n        return 'array';\n    } else if (val === null) {\n        return
'null';\n    } else {\n        return typeof val;\n    }\n}\n","\nimport * as colorSpaces from '../util/color_spaces';\nimport
Color from '../util/color';\nimport extend from '../util/extend';\nimport getType from '../util/get_type';\nimport * as
interpolate from '../util/interpolate';\nimport Interpolate from '../expression/definitions/interpolate';\nimport
Formatted from '../expression/types/formatted';\nimport ResolvedImage from
'../expression/types/resolved_image';\nimport {supportsInterpolation} from
'../util/properties';\nimport {findStopLessThanOrEqualTo} from '../expression/stops';\n\nexport function
isFunction(value) {\n    return typeof value === 'object' && value !== null &&
!Array.isArray(value);\n}\n\nfunction identityFunction(x) {\n    return x;\n}\n\nexport function
createFunction(parameters, propertySpec) {\n    const isColor = propertySpec.type === 'color';\n    const
zoomAndFeatureDependent = parameters.stops && typeof parameters.stops[0][0] === 'object';\n    const
featureDependent = zoomAndFeatureDependent || parameters.property !== undefined;\n    const zoomDependent =
zoomAndFeatureDependent || !featureDependent;\n    const type = parameters.type ||
(supportsInterpolation(propertySpec) ? 'exponential' : 'interval');\n\n    if (isColor) {\n        parameters = extend({},
parameters);\n\n        if (parameters.stops) {\n            parameters.stops = parameters.stops.map((stop) => {\n
return [stop[0], Color.parse(stop[1])];\n            });\n        }\n\n
if (parameters.default) {\n            parameters.default = Color.parse(parameters.default);\n        } else {\n
parameters.default = Color.parse(propertySpec.default);\n        }\n    }\n\n    if (parameters.colorSpace &&
parameters.colorSpace !== 'rgb' && !colorSpaces[parameters.colorSpace]) { // eslint-disable-line
import/namespace\n        throw new Error(`Unknown color space: ${parameters.colorSpace}`);\n    }\n\n    let
innerFun;\n    let hashedStops;\n    let categoricalKeyType;\n    if (type === 'exponential') {\n        innerFun =
evaluateExponentialFunction;\n    } else if (type === 'interval') {\n        innerFun = evaluateIntervalFunction;\n    }
else if (type === 'categorical') {\n        innerFun = evaluateCategoricalFunction;\n\n        // For categorical functions,
generate an Object as a hashmap of the stops for fast searching\n        hashedStops = Object.create(null);\n        for
(const stop of parameters.stops) {\n            hashedStops[stop[0]]
= stop[1];\n        }\n\n        // Infer key type based on first stop key-- used to encforce strict type checking later\n
categoricalKeyType = typeof parameters.stops[0][0];\n\n    } else if (type === 'identity') {\n        innerFun =
evaluateIdentityFunction;\n    } else {\n        throw new Error(`Unknown function type \"${type}\"`);\n    }\n\n    if
(zoomAndFeatureDependent) {\n        const featureFunctions = {};\n        const zoomStops = [];\n        for (let s = 0;
s < parameters.stops.length; s++) {\n            const stop = parameters.stops[s];\n            const zoom = stop[0].zoom;\n
if (featureFunctions[zoom] === undefined) {\n                featureFunctions[zoom] = {\n                    zoom,\n
type: parameters.type,\n                    property: parameters.property,\n                    default:
parameters.default,\n                    stops: []\n                };\n                zoomStops.push(zoom);\n            }\n
featureFunctions[zoom].stops.push([stop[0].value, stop[1]]);\n        }\n\n        const featureFunctionStops = [];\n
for (const z of zoomStops) {\n            featureFunctionStops.push([featureFunctions[z].zoom,
createFunction(featureFunctions[z], propertySpec)]);\n        }\n\n        const interpolationType = {name: 'linear'};\n
return {\n            kind: 'composite',\n            interpolationType,\n            interpolationFactor:
Interpolate.interpolationFactor.bind(undefined, interpolationType),\n            zoomStops:
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featureFunctionStops.map(s => s[0]),\n            evaluate({zoom}, properties) {\n                return
evaluateExponentialFunction({\n            stops: featureFunctionStops,\n                base: parameters.base\n
    }, propertySpec, zoom).evaluate(zoom, properties);\n            }\n        };\n    } else if (zoomDependent) {\n
const interpolationType = type === 'exponential' ?\n        {name: 'exponential',
 base: parameters.base !== undefined ? parameters.base : 1} : null;\n        return {\n            kind: 'camera',\n
interpolationType,\n            interpolationFactor: Interpolate.interpolationFactor.bind(undefined,
interpolationType),\n            zoomStops: parameters.stops.map(s => s[0]),\n            evaluate: ({zoom}) =>
innerFun(parameters, propertySpec, zoom, hashedStops, categoricalKeyType)\n        };\n    } else {\n        return {\n
        kind: 'source',\n            evaluate(_, feature) {\n                const value = feature && feature.properties ?
feature.properties[parameters.property] : undefined;\n                if (value === undefined) {\n                    return
coalesce(parameters.default, propertySpec.default);\n                }\n                return innerFun(parameters,
propertySpec, value, hashedStops, categoricalKeyType);\n            }\n        };\n    }\n}\n\nfunction coalesce(a, b, c)
{\n    if (a !== undefined) return a;\n    if (b
 !== undefined) return b;\n    if (c !== undefined) return c;\n}\n\nfunction evaluateCategoricalFunction(parameters,
propertySpec, input, hashedStops, keyType) {\n    const evaluated = typeof input === keyType ? hashedStops[input]
 : undefined; // Enforce strict typing on input\n    return coalesce(evaluated, parameters.default,
propertySpec.default);\n}\n\nfunction evaluateIntervalFunction(parameters, propertySpec, input) {\n    // Edge
cases\n    if (getType(input) !== 'number') return coalesce(parameters.default, propertySpec.default);\n    const n =
parameters.stops.length;\n    if (n === 1) return parameters.stops[0][1];\n    if (input <= parameters.stops[0][0])
return parameters.stops[0][1];\n    if (input >= parameters.stops[n - 1][0]) return parameters.stops[n - 1][1];\n\n
const index = findStopLessThanOrEqualTo(parameters.stops.map((stop) => stop[0]), input);\n\n    return
parameters.stops[index][1];\n}\n\nfunction evaluateExponentialFunction(parameters, propertySpec, input)
 {\n    const base = parameters.base !== undefined ? parameters.base : 1;\n\n    // Edge cases\n    if (getType(input)
!== 'number') return coalesce(parameters.default, propertySpec.default);\n    const n = parameters.stops.length;\n    if
(n === 1) return parameters.stops[0][1];\n    if (input <= parameters.stops[0][0]) return parameters.stops[0][1];\n    if
(input >= parameters.stops[n - 1][0]) return parameters.stops[n - 1][1];\n    const index =
findStopLessThanOrEqualTo(parameters.stops.map((stop) => stop[0]), input);\n    const t = interpolationFactor(\n
 input, base,\n        parameters.stops[index][0],\n        parameters.stops[index + 1][0]);\n\n    const outputLower =
parameters.stops[index][1];\n    const outputUpper = parameters.stops[index + 1][1];\n    let interp =
interpolate[propertySpec.type] || identityFunction; // eslint-disable-line import/namespace\n\n    if
(parameters.colorSpace && parameters.colorSpace !== 'rgb') {\n        const colorspace =
colorSpaces[parameters.colorSpace];
 // eslint-disable-line import/namespace\n        interp = (a, b) =>
colorspace.reverse(colorspace.interpolate(colorspace.forward(a), colorspace.forward(b), t));\n    }\n\n    if (typeof
outputLower.evaluate === 'function') {\n        return {\n            evaluate(...args) {\n                const evaluatedLower
= outputLower.evaluate.apply(undefined, args);\n                const evaluatedUpper =
outputUpper.evaluate.apply(undefined, args);\n                // Special case for fill-outline-color, which has no spec
default.\n                if (evaluatedLower === undefined || evaluatedUpper === undefined) {\n                    return
undefined;\n                }\n                return interp(evaluatedLower, evaluatedUpper, t);\n            }\n        };\n    }\n\n
return interp(outputLower, outputUpper, t);\n}\n\nfunction evaluateIdentityFunction(parameters, propertySpec,
input) {\n    if (propertySpec.type === 'color') {\n        input = Color.parse(input);\n
    } else if (propertySpec.type === 'formatted') {\n        input = Formatted.fromString(input.toString());\n    } else if
(propertySpec.type === 'resolvedImage') {\n        input = ResolvedImage.fromString(input.toString());\n    } else if
(getType(input) !== propertySpec.type && (propertySpec.type !== 'enum' || !propertySpec.values[input])) {\n
input = undefined;\n    }\n    return coalesce(input, parameters.default, propertySpec.default);\n}\n\n/**\n * Returns
a ratio that can be used to interpolate between exponential function\n * stops.\n *\n * How it works:\n * Two
consecutive stop values define a (scaled and shifted) exponential\n * function `f(x) = a * base^x + b`, where `base` is
the user-specified base,\n * and `a` and `b` are constants affording sufficient degrees of freedom to fit\n * the
```

function to the given stops.\n *\n * Here's a bit of algebra that lets us compute `f(x)` directly from the stop\n * values without explicitly solving for `a` and `b`:\n *\n * First

stop value: `f(x0) = y0 = a * base^x0 + b`\n * Second stop value: `f(x1) = y1 = a * base^x1 + b`\n * => `y1 - y0 = a(base^x1 - base^x0)`\n * => `a = (y1 - y0)/(base^x1 - base^x0)`\n *\n * Desired value: `f(x) = y = a * base^x + b`\n * => `f(x) = y0 + a * (base^x - base^x0)`\n *\n * From the above, we can replace the `a` in `a * (base^x - base^x0)`
and do a\n * little algebra:\n * ```\n * a * (base^x - base^x0) = (y1 - y0)/(base^x1 - base^x0) * (base^x - base^x0)\n
*   = (y1 - y0) * (base^x - base^x0) / (base^x1 - base^x0)\n * ```\n *\n * If we let `(base^x - base^x0) /
(base^x1 base^x0)`, then we have\n * `f(x) = y0 + (y1 - y0) * ratio`.  In other words, `ratio` may be treated as\n * an
interpolation factor between the two stops' output values.\n *\n * (Note: a slightly different form for `ratio`,\n *
`(base^(x-x0) - 1) / (base^(x1-x0) - 1)`, is equivalent, but requires fewer\n * expensive `Math.pow()` operations.)\n
*\n * @private\n */\nfunction interpolationFactor(input,

base, lowerValue, upperValue) {\n   const difference = upperValue - lowerValue;\n   const progress = input -
lowerValue;\n\n   if (difference === 0) {\n   return 0;\n   } else if (base === 1) {\n   return progress /
difference;\n   } else {\n   return (Math.pow(base, progress) - 1) / (Math.pow(base, difference) - 1);\n
}\n}\n","// @flow\n\nimport assert from 'assert';\n\nimport extend from '../util/extend';\n\nimport ParsingError from
'./parsing_error';\n\nimport ParsingContext from './parsing_context';\n\nimport EvaluationContext from
'./evaluation_context';\n\nimport CompoundExpression from './compound_expression';\n\nimport Step from
'./definitions/step';\n\nimport Interpolate from './definitions/interpolate';\n\nimport Coalesce from
'./definitions/coalesce';\n\nimport Let from './definitions/let';\n\nimport definitions from './definitions';\n\nimport * as
isConstant from './is_constant';\n\nimport RuntimeError from './runtime_error';\n\nimport {success, error} from
'../util/result';\n\nimport

{supportsPropertyExpression, supportsZoomExpression, supportsInterpolation} from '../util/properties';\n\nimport
type {Type, EvaluationKind} from './types';\n\nimport type {Value} from './values';\n\nimport type {Expression} from
'./expression';\n\nimport type {StylePropertySpecification} from '../style-spec';\n\nimport type {Result} from
'../util/result';\n\nimport type {InterpolationType} from './definitions/interpolate';\n\nimport type
{PropertyValueSpecification} from '../types';\n\nimport type {FormattedSection} from './types/formatted';\n\nimport
type Point from '@mapbox/point-geometry';\n\nimport type {CanonicalTileID} from '../../source/tile_id';\n\nexport
type Feature = {\n   +type: 1 | 2 | 3 | 'Unknown' | 'Point' | 'MultiPoint' | 'LineString' | 'MultiLineString' | 'Polygon' |
'MultiPolygon',\n   +id?: any,\n   +properties: {[_: string]: any},\n   +patterns?: {[_: string]: {\"min\": string,
\"mid\": string, \"max\": string}},\n   +geometry?: Array<Array<Point>>\n};\n\nexport

type FeatureState = {[_: string]: any};\n\nexport type GlobalProperties = $ReadOnly<{\n   zoom: number,\n
heatmapDensity?: number,\n   lineProgress?: number,\n   isSupportedScript?: (_: string) => boolean,\n
accumulated?: Value\n}>;\n\nexport class StyleExpression {\n   expression: Expression;\n\n   _evaluator:
EvaluationContext;\n   _defaultValue: Value;\n   _warningHistory: {[key: string]: boolean};\n   _enumValues:
?{[_: string]: any};\n\n   constructor(expression: Expression, propertySpec: ?StylePropertySpecification) {\n
this.expression = expression;\n   this._warningHistory = {};\n   this._evaluator = new EvaluationContext();\n
this._defaultValue = propertySpec ? getDefaultValue(propertySpec) : null;\n   this._enumValues =
propertySpec && propertySpec.type === 'enum' ? propertySpec.values : null;\n   }\n\n
evaluateWithoutErrorHandling(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?:
CanonicalTileID,

availableImages?: Array<string>, formattedSection?: FormattedSection): any {\n   this._evaluator.globals =
globals;\n   this._evaluator.feature = feature;\n   this._evaluator.featureState = featureState;\n
this._evaluator.canonical = canonical;\n   this._evaluator.availableImages = availableImages || null;\n
this._evaluator.formattedSection = formattedSection;\n\n   return this.expression.evaluate(this._evaluator);\n
}\n\n   evaluate(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?:
CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection): any {\n
this._evaluator.globals = globals;\n   this._evaluator.feature = feature || null;\n   this._evaluator.featureState =
featureState || null;\n   this._evaluator.canonical = canonical;\n   this._evaluator.availableImages =

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

+evaluate: (globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>) => any,\n}}\n\nexport type SourceExpression = {\n   kind: 'source',\n   isStateDependent: boolean,\n   +evaluate: (globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection) => any,\n};\n\nexport type CameraExpression = {\n   kind: 'camera',\n   +evaluate: (globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>) => any,\n   +interpolationFactor: (input: number, lower: number, upper: number) => number,\n   zoomStops: Array<number>,\n   interpolationType: ?InterpolationType\n};\n\nexport type CompositeExpression = {\n   kind: 'composite',\n   isStateDependent: boolean,\n   +evaluate: (globals: GlobalProperties, feature?: Feature, featureState?:

FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection) => any,\n   +interpolationFactor: (input: number, lower: number, upper: number) => number,\n   zoomStops: Array<number>,\n   interpolationType: ?InterpolationType\n};\n\nexport type StylePropertyExpression =\n | ConstantExpression\n | SourceExpression\n | CameraExpression\n | CompositeExpression;\n\nexport function createPropertyExpression(expression: mixed, propertySpec: StylePropertySpecification): Result<StylePropertyExpression, Array<ParsingError>> {\n   expression = createExpression(expression, propertySpec);\n   if (expression.result === 'error') {\n   return expression;\n   }\n\n   const parsed = expression.value.expression;\n\n   const isFeatureConstant = isConstant.isFeatureConstant(parsed);\n   if (!isFeatureConstant && !supportsPropertyExpression(propertySpec)) {\n   return error([new ParsingError(", 'data expressions

not supported')]);\n   }\n\n   const isZoomConstant = isConstant.isGlobalPropertyConstant(parsed, ['zoom']);\n   if (!isZoomConstant && !supportsZoomExpression(propertySpec)) {\n   return error([new ParsingError(", 'zoom expressions not supported')]);\n   }\n\n   const zoomCurve = findZoomCurve(parsed);\n   if (!zoomCurve && !isZoomConstant) {\n   return error([new ParsingError(", '\"zoom\" expression may only be used as input to a top-level \"step\" or \"interpolate\" expression.')]);\n   } else if (zoomCurve instanceof ParsingError) {\n   return error([zoomCurve]);\n   } else if (zoomCurve instanceof Interpolate && !supportsInterpolation(propertySpec)) {\n   return error([new ParsingError(", '\"interpolate\" expressions cannot be used with this property')]);\n   }\n\n   if (!zoomCurve) {\n   return success(isFeatureConstant ?\n   (new ZoomConstantExpression('constant', expression.value): ConstantExpression) :\n   (new ZoomConstantExpression('source',

 expression.value): SourceExpression));\n   }\n\n   const interpolationType = zoomCurve instanceof Interpolate ? zoomCurve.interpolation : undefined;\n\n   return success(isFeatureConstant ?\n   (new ZoomDependentExpression('camera', expression.value, zoomCurve.labels, interpolationType): CameraExpression) :\n   (new ZoomDependentExpression('composite', expression.value, zoomCurve.labels, interpolationType): CompositeExpression));\n}\n\nimport {isFunction, createFunction} from '../function';\nimport {Color} from './values';\n\n// serialization wrapper for old-style stop functions normalized to the\n// expression interface\nexport class StylePropertyFunction<T> {\n   _parameters: PropertyValueSpecification<T>;\n   _specification: StylePropertySpecification;\n\n   kind: EvaluationKind;\n   evaluate: (globals: GlobalProperties, feature?: Feature) => any;\n   interpolationFactor: ?(input: number, lower: number, upper: number) => number;\n   zoomStops: ?Array<number>;\n\n   constructor(parameters: PropertyValueSpecification<T>, specification: StylePropertySpecification) {\n   this._parameters = parameters;\n   this._specification = specification;\n   extend(this, createFunction(this._parameters, this._specification));\n   }\n\n   static deserialize(serialized: {_parameters: PropertyValueSpecification<T>, _specification: StylePropertySpecification}) {\n   return ((new StylePropertyFunction(serialized._parameters, serialized._specification)): StylePropertyFunction<T>);\n   }\n\n   static serialize(input: StylePropertyFunction<T>) {\n   return {\n   _parameters: input._parameters,\n   _specification: input._specification\n   };\n   }\n}\n\nexport function normalizePropertyExpression<T>(value: PropertyValueSpecification<T>, specification: StylePropertySpecification): StylePropertyExpression {\n   if (isFunction(value)) {\n   return (new StylePropertyFunction(value, specification):

any);\n\n   } else if (isExpression(value)) {\n   const expression = createPropertyExpression(value, specification);\n   if (expression.result === 'error') {\n   // this should have been caught in validation\n   throw new Error(expression.value.map(err => `${err.key}: ${err.message}`).join(', '));\n   }\n   return expression.value;\n\n   } else {\n   let constant: any = value;\n   if (typeof value === 'string' && specification.type === 'color') {\n   constant = Color.parse(value);\n   }\n   return {\n   kind: 'constant',\n   evaluate: () => constant\n   };\n   }\n}\n\n// Zoom-dependent expressions may only use [\"zoom\"] as the input to a top-level \"step\" or \"interpolate\"\n// expression (collectively referred to as a \"curve\"). The curve may be wrapped in one or more \"let\" or\n// \"coalesce\" expressions.\nfunction findZoomCurve(expression: Expression): Step | Interpolate | ParsingError | null {\n   let result = null;\n   if (expression instanceof Let) {\n   result = findZoomCurve(expression.result);\n\n   } else if (expression instanceof Coalesce) {\n   for (const arg of expression.args) {\n   result = findZoomCurve(arg);\n   if (result) {\n   break;\n   }\n   }\n\n   } else if ((expression instanceof Step || expression instanceof Interpolate) &&\n   expression.input instanceof CompoundExpression &&\n   expression.input.name === 'zoom') {\n\n   result = expression;\n   }\n\n   if (result instanceof ParsingError) {\n   return result;\n   }\n\n   expression.eachChild((child) => {\n   const childResult = findZoomCurve(child);\n   if (childResult instanceof ParsingError) {\n   result = childResult;\n   } else if (!result && childResult) {\n   result = new ParsingError('', '\"zoom\" expression may only be used as input to a top-level \"step\" or \"interpolate\" expression.');\n   } else if (result && childResult && result !== childResult) {\n   result = new ParsingError('', 'Only one zoom-based \"step\" or \"interpolate\" subexpression may be used in an expression.');\n   }\n   });\n\n   return result;\n}\n\nimport {ColorType, StringType, NumberType, BooleanType, ValueType, FormattedType, ResolvedImageType, array} from './types';\nfunction getExpectedType(spec: StylePropertySpecification): Type {\n   const types = {\n   color: ColorType,\n   string: StringType,\n   number: NumberType,\n   enum: StringType,\n   boolean: BooleanType,\n   formatted: FormattedType,\n   resolvedImage: ResolvedImageType\n   };\n\n   if (spec.type === 'array') {\n   return array(types[spec.value] || ValueType, spec.length);\n   }\n\n   return types[spec.type];\n}\n\nfunction getDefaultValue(spec: StylePropertySpecification): Value {\n   if (spec.type === 'color' && isFunction(spec.default)) {\n   // Special case for heatmap-color: it uses the 'default:' to define a\n   // default color ramp, but createExpression expects a simple value to fall\n   // back to in case of runtime errors\n   return new Color(0, 0, 0, 0);\n   } else if (spec.type === 'color') {\n   return Color.parse(spec.default) || null;\n   } else if (spec.default === undefined) {\n   return null;\n   } else {\n   return spec.default;\n   }\n}\n","// @flow\n\nimport assert from 'assert';\nimport type {StylePropertySpecification} from '../style-spec';\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')

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{\n      return [\n        'match',\n        get,\n        Object.keys(propertySpec.values),\n        get,\n
parameters.default\n      ];\n    } else {\n      const expression = [propertySpec.type === 'color' ? 'to-color' :
propertySpec.type, get, convertLiteral(parameters.default)];\n      if (propertySpec.type === 'array') {\n
expression.splice(1, 0, propertySpec.value, propertySpec.length || null);\n      }\n      return expression;\n
}\n}\n\nfunction getInterpolateOperator(parameters) {\n    switch (parameters.colorSpace) {\n    case 'hcl': return
'interpolate-hcl';\n    case 'lab': return 'interpolate-lab';\n    default: return 'interpolate';\n    }\n}\n\nfunction
convertZoomAndPropertyFunction(parameters,
 propertySpec, stops) {\n    const featureFunctionParameters = {};\n    const featureFunctionStops = {};\n    const
zoomStops = [];\n    for (let s = 0; s < stops.length; s++) {\n        const stop = stops[s];\n        const zoom =
stop[0].zoom;\n        if (featureFunctionParameters[zoom] === undefined) {\n
featureFunctionParameters[zoom] = {\n                zoom,\n                type: parameters.type,\n                property:
parameters.property,\n                default: parameters.default,\n            };\n            featureFunctionStops[zoom] = [];\n
zoomStops.push(zoom);\n        }\n        featureFunctionStops[zoom].push([stop[0].value, stop[1]]);\n    }\n\n
// the interpolation type for the zoom dimension of a zoom-and-property\n    // function is determined directly from
the style property specification\n    // for which it's being used: linear for interpolatable properties, step\n    //
otherwise.\n    const functionType = getFunctionType({},
 propertySpec);\n    if (functionType === 'exponential') {\n        const expression =
[getInterpolateOperator(parameters), ['linear'], ['zoom']];\n\n        for (const z of zoomStops) {\n            const output
= convertPropertyFunction(featureFunctionParameters[z], propertySpec, featureFunctionStops[z]);\n
appendStopPair(expression, z, output, false);\n        }\n\n        return expression;\n    } else {\n        const expression
= ['step', ['zoom']];\n\n        for (const z of zoomStops) {\n            const output =
convertPropertyFunction(featureFunctionParameters[z], propertySpec, featureFunctionStops[z]);\n
appendStopPair(expression, z, output, true);\n        }\n\n        fixupDegenerateStepCurve(expression);\n\n        return
expression;\n    }\n}\n\nfunction coalesce(a, b) {\n    if (a !== undefined) return a;\n    if (b !== undefined) return
b;\n}\n\nfunction convertPropertyFunction(parameters, propertySpec, stops) {\n    const type =
getFunctionType(parameters,
 propertySpec);\n    const get = ['get', parameters.property];\n    if (type === 'categorical' && typeof stops[0][0] ===
'boolean') {\n        assert(parameters.stops.length > 0 && parameters.stops.length <= 2);\n        const expression =
['case'];\n        for (const stop of stops) {\n            expression.push(['==', get, stop[0]], stop[1]);\n        }\n
expression.push(convertLiteral(coalesce(parameters.default, propertySpec.default)));\n        return expression;\n    }
else if (type === 'categorical') {\n        const expression = ['match', get];\n        for (const stop of stops) {\n
appendStopPair(expression, stop[0], stop[1], false);\n        }\n
expression.push(convertLiteral(coalesce(parameters.default, propertySpec.default)));\n        return expression;\n    }
else if (type === 'interval') {\n        const expression = ['step', ['number', get]];\n        for (const stop of stops) {\n
  appendStopPair(expression, stop[0],
 stop[1], true);\n        }\n        fixupDegenerateStepCurve(expression);\n        return parameters.default ===
undefined ? expression : [\n            'case',\n            ['==', ['typeof', get], 'number'],\n            expression,\n
convertLiteral(parameters.default)\n        ];\n    } else if (type === 'exponential') {\n        const base =
parameters.base !== undefined ? parameters.base : 1;\n        const expression = [\n
getInterpolateOperator(parameters),\n            base === 1 ? [\"linear\"] : [\"exponential\", base],\n            [\"number\",
get]\n        ];\n\n        for (const stop of stops) {\n            appendStopPair(expression, stop[0], stop[1], false);\n
}\n        return parameters.default === undefined ? expression : [\n            'case',\n            ['==', ['typeof', get],
'number'],\n            expression,\n            convertLiteral(parameters.default)\n        ];\n    } else {\n        throw new
Error(`Unknown property
 function type ${type}`);\n    }\n}\n\nfunction convertZoomFunction(parameters, propertySpec, stops, input =
['zoom']) {\n    const type = getFunctionType(parameters, propertySpec);\n    let expression;\n    let isStep = false;\n
if (type === 'interval') {\n        expression = ['step', input];\n        isStep = true;\n    } else if (type === 'exponential')
{\n        const base = parameters.base !== undefined ? parameters.base : 1;\n        expression =
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[getInterpolateOperator(parameters), base === 1 ? [\"linear\"] : [\"exponential\", base], input];\n\n   } else {\n throw new Error(`Unknown zoom function type \"${type}\"`);\n   }\n\n   for (const stop of stops) {\n appendStopPair(expression, stop[0], stop[1], isStep);\n   }\n\n   fixupDegenerateStepCurve(expression);\n\n return expression;\n}\n\nfunction fixupDegenerateStepCurve(expression) {\n   // degenerate step curve (i.e. a constant function): add a noop stop\n   if (expression[0] === 'step' && expression.length === 3) {\n   expression.push(0);\n   expression.push(expression[3]);\n   }\n}\n\nfunction appendStopPair(curve, input, output, isStep) {\n   // Skip duplicate stop values. They were not validated for functions, but they are for expressions.\n   // https://github.com/mapbox/mapbox-gl-js/issues/4107\n   if (curve.length > 3 && input === curve[curve.length - 2]) {\n   return;\n   }\n   // step curves don't get the first input value, as it is redundant.\n   if (!(isStep && curve.length === 2)) {\n   curve.push(input);\n   }\n curve.push(output);\n}\n\nfunction getFunctionType(parameters, propertySpec) {\n   if (parameters.type) {\n return parameters.type;\n   } else {\n   assert(propertySpec.expression);\n   return (propertySpec.expression: any).interpolated ? 'exponential' : 'interval';\n   }\n}\n\n// \"String with {name} token\" => [\"concat\", \"String with \", [\"get\", \"name\"], \" token\"]\nexport function convertTokenString(s:

 string) {\n   const result = ['concat'];\n   const re = /{([^{}]+)}/g;\n   let pos = 0;\n   for (let match = re.exec(s); match !== null; match = re.exec(s)) {\n   const literal = s.slice(pos, re.lastIndex - match[0].length);\n   pos = re.lastIndex;\n   if (literal.length > 0) result.push(literal);\n   result.push(['get', match[1]]);\n   }\n\n   if (result.length === 1) {\n   return s;\n   }\n\n   if (pos < s.length) {\n   result.push(s.slice(pos));\n   } else if (result.length === 2) {\n   return ['to-string', result[1]];\n   }\n\n   return result;\n}\n\n","// @flow\n\nimport {createExpression} from '../expression';\nimport type {GlobalProperties, Feature} from '../expression';\nimport type {CanonicalTileID} from '../../source/tile_id';\n\ntype FilterExpression = (globalProperties: GlobalProperties, feature: Feature, canonical?: CanonicalTileID) => boolean;\nexport type FeatureFilter ={filter: FilterExpression, needGeometry: boolean};\n\nexport

 default createFilter;\nexport {isExpressionFilter};\n\nfunction isExpressionFilter(filter: any) {\n   if (filter === true || filter === false) {\n   return true;\n   }\n\n   if (!Array.isArray(filter) || filter.length === 0) {\n   return false;\n   }\n   switch (filter[0]) {\n   case 'has':\n   return filter.length >= 2 && filter[1] !== '$id' && filter[1] !== '$type';\n\n   case 'in':\n   return filter.length >= 3 && (typeof filter[1] !== 'string' || Array.isArray(filter[2]));\n\n   case '!in':\n   case '!has':\n   case 'none':\n   return false;\n\n   case '==':\n   case '!=':\n   case '>':\n   case '>=':\n   case '<':\n   case '<=':\n   return filter.length !== 3 || (Array.isArray(filter[1]) || Array.isArray(filter[2]));\n\n   case 'any':\n   case 'all':\n   for (const f of filter.slice(1)) {\n   if (!isExpressionFilter(f) && typeof f !== 'boolean') {\n   return false;\n   }\n   }

    return true;\n\n   default:\n   return true;\n   }\n}\n\nconst filterSpec = {\n   'type': 'boolean',\n   'default': false,\n   'transition': false,\n   'property-type': 'data-driven',\n   'expression': {\n   'interpolated': false,\n 'parameters': ['zoom', 'feature']\n   }\n};\n\n/**\n * Given a filter expressed as nested arrays, return a new function\n * that evaluates whether a given feature (with a .properties or .tags property)\n * passes its test.\n *\n * @private\n * @param {Array} filter mapbox gl filter\n * @returns {Function} filter-evaluating function\n */\nfunction createFilter(filter: any): FeatureFilter {\n   if (filter === null || filter === undefined) {\n   return {filter: () => true, needGeometry: false};\n   }\n\n   if (!isExpressionFilter(filter)) {\n   filter = convertFilter(filter);\n   }\n\n   const compiled = createExpression(filter, filterSpec);\n   if (compiled.result === 'error') {\n   throw new Error(compiled.value.map(err

 => `${err.key}: ${err.message}`).join(', '));\n   } else {\n   const needGeometry = geometryNeeded(filter);\n return {filter: (globalProperties: GlobalProperties, feature: Feature, canonical?: CanonicalTileID) => compiled.value.evaluate(globalProperties, feature, {}, canonical),\n   needGeometry};\n   }\n}\n\n// Comparison function to sort numbers and strings\nfunction compare(a, b) {\n   return a < b ? -1 : a > b ? 1 : 0;\n}\n\nfunction geometryNeeded(filter) {\n   if (!Array.isArray(filter)) return false;\n   if (filter[0] === 'within') return true;\n   for (let index = 1; index < filter.length; index++) {\n   if (geometryNeeded(filter[index])) return true;\n   }\n   return false;\n}\n\nfunction convertFilter(filter: ?Array<any>): mixed {\n   if (!filter) return true;\n   const op = filter[0];\n   if (filter.length <= 1) return (op !== 'any');\n   const converted =\n   op === '==' ?

convertComparisonOp(filter[1], filter[2], '==')

 :\n   op === '!=' ? convertNegation(convertComparisonOp(filter[1], filter[2], '==')) :\n   op === '<' ||\n   op === '>' ||\n   op === '<=' ||\n   op === '>=' ? convertComparisonOp(filter[1], filter[2], op) :\n   op === 'any' ? convertDisjunctionOp(filter.slice(1)) :\n   op === 'all' ? ['all'].concat(filter.slice(1).map(convertFilter)) :\n op === 'none' ? ['all'].concat(filter.slice(1).map(convertFilter).map(convertNegation)) :\n   op === 'in' ? convertInOp(filter[1], filter.slice(2)) :\n   op === '!in' ? convertNegation(convertInOp(filter[1], filter.slice(2))) :\n   op === 'has' ? convertHasOp(filter[1]) :\n   op === '!has' ? convertNegation(convertHasOp(filter[1])) :\n op === 'within' ? filter :\n   true;\n   return converted;\n}\n\nfunction convertComparisonOp(property: string, value: any, op: string) {\n   switch (property) {\n   case '$type':\n   return [`filter-type-${op}`, value];\n   case '$id':\n

        return [`filter-id-${op}`, value];\n   default:\n   return [`filter-${op}`, property, value];\n   }\n}\n\nfunction convertDisjunctionOp(filters: Array<Array<any>>) {\n   return ['any'].concat(filters.map(convertFilter));\n}\n\nfunction convertInOp(property: string, values: Array<any>) {\n   if (values.length === 0) { return false; }\n   switch (property) {\n   case '$type':\n   return [`filter-type-in`, ['literal', values]];\n   case '$id':\n   return [`filter-id-in`, ['literal', values]];\n   default:\n   if (values.length > 200 && !values.some(v => typeof v !== typeof values[0])) {\n   return ['filter-in-large', property, ['literal', values.sort(compare)]];\n   } else {\n   return ['filter-in-small', property, ['literal', values]];\n   }\n   }\n}\n\nfunction convertHasOp(property: string) {\n   switch (property) {\n   case '$type':\n   return true;\n   case '$id':\n   return [`filter-has-id`];\n   default:\n

        return [`filter-has`, property];\n   }\n}\n\nfunction convertNegation(filter: mixed) {\n   return ['!', filter];\n}\n}","// @flow\n\nimport {isExpressionFilter} from './index';\n\nimport type {FilterSpecification} from '../types';\n\ntype ExpectedTypes = {[_: string]: 'string' | 'number' | 'boolean'};\n\n/**\n * Convert the given legacy filter to (the JSON representation of) an\n * equivalent expression\n * @private\n */\nexport default function convertFilter(filter: FilterSpecification): mixed {\n   return _convertFilter(filter, {});\n}\n\n/*\n * Convert the given filter to an expression, storing the expected types for\n * any feature properties referenced in expectedTypes.\n *\n * These expected types are needed in order to construct preflight type checks\n * needed for handling 'any' filters. A preflight type check is necessary in\n * order to mimic legacy filters' semantics around expected type mismatches.\n * For example, consider the legacy filter:\n *\n *   [\"any\",

 [\"all\", [\">\", \"y\", 0], [\">\", \"y\", 0]], [\">\", \"x\", 0]]\n *\n * Naively, we might convert this to the expression:\n *\n *   [\"any\", [\"all\", [\">\", [\"get\", \"y\"], 0], [\">\", [\"get\", \"z\"], 0]], [\">\", [\"get\", \"x\"], 0]]\n *\n * But if we tried to evaluate this against, say `{x: 1, y: null, z: 0}`, the\n * [\">\", [\"get\", \"y\"], 0] would cause an evaluation error, leading to the\n * entire filter returning false. Legacy filter semantics, though, ask for\n * [\">\", \"y\", 0] to simply return `false` when `y` is of the wrong type,\n * allowing the subsequent terms of the outer \"any\" expression to be evaluated\n * (resulting, in this case, in a `true` value, because x > 0).\n *\n * We account for this by inserting a preflight type-checking expression before\n * each \"any\" term, allowing us to avoid evaluating the actual converted filter\n * if any type mismatches would cause it to produce an evalaution error:\n *\n *   [\"any\",\n *   [\"case\",\n

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

 */\nfunction _convertFilter(filter: FilterSpecification, expectedTypes: ExpectedTypes): mixed {\n   if (isExpressionFilter(filter)) { return filter; }\n\n   if (!filter) return true;\n   const op = filter[0];\n   if (filter.length

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

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

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

layers\n   for (i = 0, d = 0; i < beforeOrder.length; i++) {\n   layerId = beforeOrder[i];\n   if (!afterIndex.hasOwnProperty(layerId)) {\n   commands.push({command: operations.removeLayer, args: [layerId]});\n   tracker.splice(tracker.indexOf(layerId, d), 1);\n   } else {\n   // limit where in tracker we need to look for a match\n   d++;\n   }\n   }\n\n   // add/reorder layers\n   for (i = 0, d = 0; i < afterOrder.length; i++) {\n   // work backwards as insert is before an existing layer\n   layerId = afterOrder[afterOrder.length - 1 - i];\n\n   if (tracker[tracker.length - 1 - i] === layerId) continue;\n\n   if (beforeIndex.hasOwnProperty(layerId)) {\n   // remove the layer before we insert at the correct position\n   commands.push({command: operations.removeLayer, args: [layerId]});\n   tracker.splice(tracker.lastIndexOf(layerId, tracker.length - d), 1);\n   } else {\n   // limit where in tracker we need to look for a match\n   d++;\n   }\n\n   // add layer at correct position\n   insertBeforeLayerId = tracker[tracker.length - i];\n   commands.push({command: operations.addLayer, args: [afterIndex[layerId], insertBeforeLayerId]});\n   tracker.splice(tracker.length - i, 0, layerId);\n   clean[layerId] = true;\n   }\n\n   // update layers\n   for (i = 0; i < afterOrder.length; i++) {\n   layerId = afterOrder[i];\n   beforeLayer = beforeIndex[layerId];\n   afterLayer = afterIndex[layerId];\n\n   // no need to update if previously added (new or moved)\n   if (clean[layerId] || isEqual(beforeLayer, afterLayer)) continue;\n\n   // If source, source-layer, or type have changes, then remove the layer\n   // and add it back 'from scratch'.\n   if (!isEqual(beforeLayer.source, afterLayer.source) || !isEqual(beforeLayer['source-layer'], afterLayer['source-layer']) || !isEqual(beforeLayer.type, afterLayer.type)) {\n   commands.push({command: operations.removeLayer, args: [layerId]});\n   // we add the layer back at the same position it was already in, so\n   // there's no need to update the `tracker`\n   insertBeforeLayerId = tracker[tracker.lastIndexOf(layerId) + 1];\n   commands.push({command: operations.addLayer, args: [afterLayer, insertBeforeLayerId]});\n   continue;\n   }\n\n   // layout, paint, filter, minzoom, maxzoom\n   diffLayerPropertyChanges(beforeLayer.layout, afterLayer.layout, commands, layerId, null, operations.setLayoutProperty);\n

        diffLayerPropertyChanges(beforeLayer.paint, afterLayer.paint, commands, layerId, null, operations.setPaintProperty);\n   if (!isEqual(beforeLayer.filter, afterLayer.filter)) {\n   commands.push({command: operations.setFilter, args: [layerId, afterLayer.filter]});\n   }\n   if (!isEqual(beforeLayer.minzoom, afterLayer.minzoom) || !isEqual(beforeLayer.maxzoom, afterLayer.maxzoom)) {\n   commands.push({command: operations.setLayerZoomRange, args: [layerId, afterLayer.minzoom, afterLayer.maxzoom]});\n   }\n\n   // handle all other layer props, including paint.*\n   for (prop in beforeLayer) {\n   if (!beforeLayer.hasOwnProperty(prop)) continue;\n   if (prop === 'layout' || prop === 'paint' || prop === 'filter' ||\n   prop === 'metadata' || prop === 'minzoom' || prop === 'maxzoom') continue;\n   if (prop.indexOf('paint.') === 0) {\n   diffLayerPropertyChanges(beforeLayer[prop], afterLayer[prop], commands, layerId, prop.slice(6), operations.setPaintProperty);\n   } else if (!isEqual(beforeLayer[prop], afterLayer[prop])) {\n   commands.push({command: operations.setLayerProperty, args: [layerId, prop, afterLayer[prop]]});\n   }\n   }\n   for (prop in afterLayer) {\n   if (!afterLayer.hasOwnProperty(prop) || beforeLayer.hasOwnProperty(prop)) continue;\n   if (prop === 'layout' || prop === 'paint' || prop === 'filter' ||\n   prop === 'metadata' || prop === 'minzoom' || prop === 'maxzoom') continue;\n   if (prop.indexOf('paint.') === 0) {\n   diffLayerPropertyChanges(beforeLayer[prop], afterLayer[prop], commands, layerId, prop.slice(6), operations.setPaintProperty);\n   } else if (!isEqual(beforeLayer[prop], afterLayer[prop])) {\n   commands.push({command: operations.setLayerProperty, args: [layerId, prop, afterLayer[prop]]});\n   }\n   }\n   }\n}\n\n/**\n * Diff two stylesheet\n *\n * Creates semanticly aware diffs that can easily be applied at runtime.\n * Operations produced by the diff closely resemble the mapbox-gl-js API. Any\n * error creating the diff will fall back to the 'setStyle' operation.\n *\n * Example diff:\n * [\n *   { command: 'setConstant', args: ['@water', '#0000FF'] },\n *   { command: 'setPaintProperty', args: ['background', 'background-color', 'black'] }\n *]\n *\n * @private\n * @param {*} [before] stylesheet to compare from\n * @param {*} after stylesheet to compare to\n * @returns Array list of changes\n */\nfunction diffStyles(before, after) {\n   if (!before) return [{command: operations.setStyle, args:

[after]}];\n\n   let commands = [];\n\n   try {\n   // Handle changes to top-level properties\n   if (!isEqual(before.version, after.version)) {\n   return [{command: operations.setStyle, args: [after]}];\n   }\n\n   if (!isEqual(before.center, after.center)) {\n   commands.push({command: operations.setCenter, args: [after.center]});\n   }   if (!isEqual(before.zoom, after.zoom)) {\n   commands.push({command: operations.setZoom, args: [after.zoom]});\n   }   if (!isEqual(before.bearing, after.bearing)) {\n   commands.push({command: operations.setBearing, args: [after.bearing]});\n   }   if (!isEqual(before.pitch, after.pitch)) {\n   commands.push({command: operations.setPitch, args: [after.pitch]});\n   }   if (!isEqual(before.sprite, after.sprite)) {\n   commands.push({command: operations.setSprite, args: [after.sprite]});\n   }   if (!isEqual(before.glyphs, after.glyphs)) {\n   commands.push({command: operations.setGlyphs, args: [after.glyphs]});\n   }   if (!isEqual(before.transition, after.transition)) {\n   commands.push({command: operations.setTransition, args: [after.transition]});\n   }   if (!isEqual(before.light,

 after.light)) {\n   commands.push({command: operations.setLight, args: [after.light]});\n   }\n\n   // Handle changes to `sources`\n   // If a source is to be removed, we also--before the removeSource\n   // command--need to remove all the style layers that depend on it.\n   const sourcesRemoved = {};\n\n   // First collect the {add,remove}Source commands\n   const removeOrAddSourceCommands = [];\n   diffSources(before.sources, after.sources, removeOrAddSourceCommands, sourcesRemoved);\n\n   // Push a removeLayer command for each style layer that depends on a\n   // source that's being removed.\n   // Also, exclude any such layers them from the input to `diffLayers`\n   // below, so that diffLayers produces the appropriate `addLayers`\n   // command\n   const beforeLayers = [];\n   if (before.layers) {\n   before.layers.forEach((layer) => {\n   if (sourcesRemoved[layer.source])

 {\n   commands.push({command: operations.removeLayer, args: [layer.id]});\n   } else {\n   beforeLayers.push(layer);\n   }\n   });\n   }\n   commands = commands.concat(removeOrAddSourceCommands);\n\n   // Handle changes to `layers`\n   diffLayers(beforeLayers, after.layers, commands);\n\n   } catch (e) {\n   // fall back to setStyle\n   console.warn('Unable to compute style diff:', e);\n   commands = [{command: operations.setStyle, args: [after]}];\n   }\n\n   return commands;\n}\n\nexport default diffStyles;\nexport {operations};\n","// @flow\n\n// Note: Do not inherit from Error. It breaks when transpiling to ES5.\n\nexport default class ValidationError {\n   message: string;\n   identifier: ?string;\n   line: ?number;\n\n   constructor(key: ?string, value: ?{ __line__: number }, message: string, identifier: ?string) {\n   this.message = (key ? `${key}:

 `: '') + message;\n   if (identifier) this.identifier = identifier;\n\n   if (value !== null && value !== undefined && value.__line__) {\n   this.line = value.__line__;\n   }\n   }\n}\n","// @flow\n\n// Note: Do not inherit from Error. It breaks when transpiling to ES5.\n\nexport default class ParsingError {\n   message: string;\n   error: Error;\n   line: number;\n\n   constructor(error: Error) {\n   this.error = error;\n   this.message = error.message;\n   const match = error.message.match(/line (\\d+)/);\n   this.line = match ? parseInt(match[1], 10) : 0;\n   }\n}\n","\nimport ValidationError from '../error/validation_error';\n\nexport default function validateConstants(options) {\n   const key = options.key;\n   const constants = options.value;\n\n   if (constants) {\n   return [new ValidationError(key, constants, 'constants have been deprecated as of v8')];\n   } else {\n   return [];\n   }\n}\n","// @flow\n\n//

 Turn jsonlint-lines-primitives objects into primitive objects\nexport function unbundle(value: mixed) {\n   if (value instanceof Number || value instanceof String || value instanceof Boolean) {\n   return value.valueOf();\n   } else {\n   return value;\n   }\n}\n\nexport function deepUnbundle(value: mixed): mixed {\n   if (Array.isArray(value)) {\n   return value.map(deepUnbundle);\n   } else if (value instanceof Object && !(value instanceof Number || value instanceof String || value instanceof Boolean)) {\n   const unbundledValue: { [key: string]: mixed } = {};\n   for (const key in value) {\n   unbundledValue[key] = deepUnbundle(value[key]);\n   }\n   return unbundledValue;\n   }\n\n   return unbundle(value);\n}\n","\nimport ValidationError from '../error/validation_error';\nimport getType from

'../util/get_type';\nimport validateSpec from './validate';\n\nexport default function validateObject(options) {\n   const key = options.key;\n

    const object = options.value;\n   const elementSpecs = options.valueSpec || {};\n   const elementValidators = options.objectElementValidators || {};\n   const style = options.style;\n   const styleSpec = options.styleSpec;\n   let errors = [];\n\n   const type = getType(object);\n   if (type !== 'object') {\n   return [new ValidationError(key, object, `object expected, ${type} found`)];\n   }\n\n   for (const objectKey in object) {\n   const elementSpecKey = objectKey.split('.')[0]; // treat 'paint.*' as 'paint'\n   const elementSpec = elementSpecs[elementSpecKey] || elementSpecs['*'];\n\n   let validateElement;\n   if (elementValidators[elementSpecKey]) {\n   validateElement = elementValidators[elementSpecKey];\n   } else if (elementSpecs[elementSpecKey]) {\n   validateElement = validateSpec;\n   } else if (elementValidators['*']) {\n   validateElement = elementValidators['*'];\n   } else if (elementSpecs['*']) {\n   validateElement = validateSpec;\n   } else {\n   errors.push(new ValidationError(key, object[objectKey], `unknown property \"${objectKey}\"`));\n   continue;\n   }\n\n   errors = errors.concat(validateElement({\n   key: (key ? `${key}.` : key) + objectKey,\n   value: object[objectKey],\n   valueSpec: elementSpec,\n   style,\n   styleSpec,\n   object,\n   objectKey\n   }, object));\n   }\n\n   for (const elementSpecKey in elementSpecs) {\n   // Don't check `required` when there's a custom validator for that property.\n   if (elementValidators[elementSpecKey]) {\n   continue;\n   }\n\n   if (elementSpecs[elementSpecKey].required && elementSpecs[elementSpecKey]['default'] === undefined && object[elementSpecKey] === undefined) {\n   errors.push(new ValidationError(key, object, `missing required property \"${elementSpecKey}\"`));\n   }\n   }\n\n   return errors;\n}\n",\nimport getType from '../util/get_type';\nimport validate from './validate';\nimport ValidationError from '../error/validation_error';\n\nexport default function validateArray(options) {\n   const array = options.value;\n   const arraySpec = options.valueSpec;\n   const style = options.style;\n   const styleSpec = options.styleSpec;\n   const key = options.key;\n   const validateArrayElement = options.arrayElementValidator || validate;\n\n   if (getType(array) !== 'array') {\n   return [new ValidationError(key, array, `array expected, ${getType(array)} found`)];\n   }\n\n   if (arraySpec.length && array.length !== arraySpec.length) {\n   return [new ValidationError(key, array, `array length ${arraySpec.length} expected, length ${array.length} found`)];\n   }\n\n   if (arraySpec['min-length'] && array.length < arraySpec['min-length']) {\n   return [new ValidationError(key, array, `array length at least ${arraySpec['min-length']}
 expected, length ${array.length} found`)];\n   }\n\n   let arrayElementSpec = {\n   \"type\": arraySpec.value,\n   \"values\": arraySpec.values\n   };\n\n   if (styleSpec.$version < 7) {\n   arrayElementSpec.function = arraySpec.function;\n   }\n\n   if (getType(arraySpec.value) === 'object') {\n   arrayElementSpec = arraySpec.value;\n   }\n\n   let errors = [];\n   for (let i = 0; i < array.length; i++) {\n   errors = errors.concat(validateArrayElement({\n   array,\n   arrayIndex: i,\n   value: array[i],\n   valueSpec: arrayElementSpec,\n   style,\n   styleSpec,\n   key: `${key}[${i}]`\n   }));\n   }\n   return errors;\n}\n",\nimport getType from '../util/get_type';\nimport ValidationError from '../error/validation_error';\n\nexport default function validateNumber(options) {\n   const key = options.key;\n   const value = options.value;\n   const valueSpec = options.valueSpec;\n

    let type = getType(value);\n\n   // eslint-disable-next-line no-self-compare\n   if (type === 'number' && value !== value) {\n   type = 'NaN';\n   }\n\n   if (type !== 'number') {\n   return [new ValidationError(key, value, `number expected, ${type} found`)];\n   }\n\n   if ('minimum' in valueSpec && value < valueSpec.minimum) {\n   return [new ValidationError(key, value, `${value} is less than the minimum value ${valueSpec.minimum}`)];\n   }\n\n   if ('maximum' in valueSpec && value > valueSpec.maximum) {\n   return [new ValidationError(key, value, `${value} is greater than the maximum value ${valueSpec.maximum}`)];\n   }\n\n   return [];\n}\n",\nimport ValidationError from '../error/validation_error';\nimport getType from '../util/get_type';\nimport validate from './validate';\nimport validateObject from './validate_object';\nimport validateArray from './validate_array';\nimport validateNumber from './validate_number';\nimport {isExpression}

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 from '../expression';\nimport {unbundle, deepUnbundle} from '../util/unbundle_jsonlint';\nimport {\n
supportsPropertyExpression,\n    supportsZoomExpression,\n    supportsInterpolation\n} from
'../util/properties';\n\nexport default function validateFunction(options) {\n    const functionValueSpec =
options.valueSpec;\n    const functionType = unbundle(options.value.type);\n    let stopKeyType;\n    let
stopDomainValues = {};\n    let previousStopDomainValue;\n    let previousStopDomainZoom;\n\n    const
isZoomFunction = functionType !== 'categorical' && options.value.property === undefined;\n    const
isPropertyFunction = !isZoomFunction;\n    const isZoomAndPropertyFunction =\n
getType(options.value.stops) === 'array' &&\n        getType(options.value.stops[0]) === 'array' &&\n
getType(options.value.stops[0][0]) === 'object';\n\n    const errors = validateObject({\n        key: options.key,\n
value: options.value,\n        valueSpec: options.styleSpec.function,\n
        style: options.style,\n        styleSpec: options.styleSpec,\n        objectElementValidators: {\n            stops:
validateFunctionStops,\n            default: validateFunctionDefault\n        }\n    });\n\n    if (functionType ===
'identity' && isZoomFunction) {\n        errors.push(new ValidationError(options.key, options.value, 'missing
required property \"property\"'));\n    }\n\n    if (functionType !== 'identity' && !options.value.stops) {\n
errors.push(new ValidationError(options.key, options.value, 'missing required property \"stops\"'));\n    }\n\n    if
(functionType === 'exponential' && options.valueSpec.expression && !supportsInterpolation(options.valueSpec))
{\n        errors.push(new ValidationError(options.key, options.value, 'exponential functions not supported'));\n
}\n\n    if (options.styleSpec.$version >= 8) {\n        if (isPropertyFunction &&
!supportsPropertyExpression(options.valueSpec)) {\n            errors.push(new ValidationError(options.key,
 options.value, 'property functions not supported'));\n        } else if (isZoomFunction &&
!supportsZoomExpression(options.valueSpec)) {\n            errors.push(new ValidationError(options.key,
options.value, 'zoom functions not supported'));\n        }\n    }\n\n    if ((functionType === 'categorical' ||
isZoomAndPropertyFunction) && options.value.property === undefined) {\n        errors.push(new
ValidationError(options.key, options.value, '\"property\" property is required'));\n    }\n\n    return errors;\n\n
function validateFunctionStops(options) {\n        if (functionType === 'identity') {\n            return [new
ValidationError(options.key, options.value, 'identity function may not have a \"stops\" property')];\n        }\n\n
let errors = [];\n        const value = options.value;\n\n        errors = errors.concat(validateArray({\n            key:
options.key,\n            value,\n            valueSpec: options.valueSpec,\n            style: options.style,\n
        styleSpec: options.styleSpec,\n            arrayElementValidator: validateFunctionStop\n        }));\n\n        if
(getType(value) === 'array' && value.length === 0) {\n            errors.push(new ValidationError(options.key, value,
'array must have at least one stop'));\n        }\n\n        return errors;\n    }\n\n    function
validateFunctionStop(options) {\n        let errors = [];\n        const value = options.value;\n        const key =
options.key;\n\n        if (getType(value) !== 'array') {\n            return [new ValidationError(key, value, `array
expected, ${getType(value)} found`)];\n        }\n\n        if (value.length !== 2) {\n            return [new
ValidationError(key, value, `array length 2 expected, length ${value.length} found`)];\n        }\n\n        if
(isZoomAndPropertyFunction) {\n            if (getType(value[0]) !== 'object') {\n                return [new
ValidationError(key, value, `object expected, ${getType(value[0])} found`)];\n
        }\n            if (value[0].zoom === undefined) {\n                return [new ValidationError(key, value, 'object
stop key must have zoom')];\n            }\n            if (value[0].value === undefined) {\n                return [new
ValidationError(key, value, 'object stop key must have value')];\n            }\n            if (previousStopDomainZoom
&& previousStopDomainZoom > unbundle(value[0].zoom)) {\n                return [new ValidationError(key,
value[0].zoom, 'stop zoom values must appear in ascending order')];\n            }\n            if (unbundle(value[0].zoom)
!== previousStopDomainZoom) {\n                previousStopDomainZoom = unbundle(value[0].zoom);\n
previousStopDomainValue = undefined;\n                stopDomainValues = {};\n            }\n            errors =
errors.concat(validateObject({\n                key: `${key}[0]`,\n                value: value[0],\n                valueSpec:
{zoom: {}},\n                style: options.style,\n
            styleSpec: options.styleSpec,\n                objectElementValidators: {zoom: validateNumber, value:
validateStopDomainValue}\n            }));\n        } else {\n            errors =
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errors.concat(validateStopDomainValue({\n   key: `${key}[0]`,\n   value: value[0],\n   valueSpec: {},\n   style: options.style,\n   styleSpec: options.styleSpec\n   }, value));\n   }\n\n   if (isExpression(deepUnbundle(value[1]))) {\n   return errors.concat([new ValidationError(`${key}[1]`, value[1], 'expressions are not allowed in function stops.')]);\n   }\n\n   return errors.concat(validate({\n   key: `${key}[1]`,\n   value: value[1],\n   valueSpec: functionValueSpec,\n   style: options.style,\n   styleSpec: options.styleSpec\n   }));\n   }\n\n   function validateStopDomainValue(options, stop) {\n   const type = getType(options.value);\n   const value = unbundle(options.value);\n\n   const reportValue = options.value !== null ? options.value : stop;\n\n   if (!stopKeyType) {\n   stopKeyType = type;\n   } else if (type !== stopKeyType) {\n   return [new ValidationError(options.key, reportValue, `${type} stop domain type must match previous stop domain type ${stopKeyType}`)];\n   }\n\n   if (type !== 'number' && type !== 'string' && type !== 'boolean') {\n   return [new ValidationError(options.key, reportValue, 'stop domain value must be a number, string, or boolean')];\n   }\n\n   if (type !== 'number' && functionType !== 'categorical') {\n   let message = `number expected, ${type} found`;\n   if (supportsPropertyExpression(functionValueSpec) && functionType === undefined) {\n   message += '\\nIf you intended to use a categorical function, specify `"type": "categorical"`.';\n   }\n   return [new ValidationError(options.key, reportValue, message)];\n   }\n\n   if (functionType === 'categorical' && type === 'number' && (!isFinite(value) || Math.floor(value) !== value)) {\n   return [new ValidationError(options.key, reportValue, `integer expected, found ${value}`)];\n   }\n\n   if (functionType !== 'categorical' && type === 'number' && previousStopDomainValue !== undefined && value < previousStopDomainValue) {\n   return [new ValidationError(options.key, reportValue, 'stop domain values must appear in ascending order')];\n   } else {\n   previousStopDomainValue = value;\n   }\n\n   if (functionType === 'categorical' && value in stopDomainValues) {\n   return [new ValidationError(options.key, reportValue, 'stop domain values must be unique')];\n   } else {\n   stopDomainValues[value] = true;\n   }\n\n   return [];\n   }\n\n   function validateFunctionDefault(options) {\n   return validate({\n   key: options.key,\n   value: options.value,\n   valueSpec: functionValueSpec,\n   style: options.style,\n   styleSpec: options.styleSpec\n   });\n   }\n}\n","// @flow\n\nimport ValidationError from '../error/validation_error';\nimport {createExpression, createPropertyExpression} from '../expression';\nimport {deepUnbundle} from '../util/unbundle_jsonlint';\nimport {isStateConstant, isGlobalPropertyConstant, isFeatureConstant} from '../expression/is_constant';\n\nexport default function validateExpression(options: any): Array<ValidationError> {\n   const expression = (options.expressionContext === 'property' ? createPropertyExpression : createExpression)(deepUnbundle(options.value), options.valueSpec);\n   if (expression.result === 'error') {\n   return expression.value.map((error) => {\n   return new ValidationError(`${options.key}${error.key}`, options.value, error.message);\n   });\n   }\n\n   const expressionObj = (expression.value: any).expression || (expression.value: any)._styleExpression.expression;\n   if (options.expressionContext === 'property' && (options.propertyKey === 'text-font') &&\n   !expressionObj.outputDefined()) {\n   return [new ValidationError(options.key, options.value, `Invalid data expression for \"${options.propertyKey}\". Output values must be contained as literals within the expression.`)];\n   }\n\n   if (options.expressionContext === 'property' && options.propertyType === 'layout' &&\n   (!isStateConstant(expressionObj))) {\n   return [new ValidationError(options.key, options.value, '\"feature-state\" data expressions are not supported with layout properties.')];\n   }\n\n   if (options.expressionContext === 'filter' && !isStateConstant(expressionObj)) {\n   return [new ValidationError(options.key, options.value, '\"feature-state\" data expressions are not supported with filters.')];\n   }\n\n   if (options.expressionContext && options.expressionContext.indexOf('cluster') === 0) {\n   if (!isGlobalPropertyConstant(expressionObj, ['zoom', 'feature-state'])) {\n   return [new ValidationError(options.key, options.value, '\"zoom\" and \"feature-

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

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`${key}[${i}]`,\n                value: value[i],\n                style: options.style,\n                styleSpec: options.styleSpec\n
    }));\n        }\n        break;\n\n    case 'has':\n    case '!has':\n        type = getType(value[1]);\n        if (value.length
!== 2) {\n            errors.push(new ValidationError(key, value, `filter array
 for \"${value[0]}\" operator must have 2 elements`));\n        } else if (type !== 'string') {\n            errors.push(new
ValidationError(`${key}[1]`, value[1], `string expected, ${type} found`));\n        }\n        break;\n    case 'within':\n
    type = getType(value[1]);\n        if (value.length !== 2) {\n            errors.push(new ValidationError(key, value,
`filter array for \"${value[0]}\" operator must have 2 elements`));\n        } else if (type !== 'object') {\n
errors.push(new ValidationError(`${key}[1]`, value[1], `object expected, ${type} found`));\n        }\n        break;\n
    }\n    return errors;\n}\n","\nimport validate from './validate';\nimport ValidationError from
'../error/validation_error';\nimport getType from '../util/get_type';\nimport {isFunction} from '../function';\nimport
{unbundle, deepUnbundle} from '../util/unbundle_jsonlint';\nimport {supportsPropertyExpression} from
'../util/properties';\n\nexport default function validateProperty(options,
 propertyType) {\n    const key = options.key;\n    const style = options.style;\n    const styleSpec =
options.styleSpec;\n    const value = options.value;\n    const propertyKey = options.objectKey;\n    const layerSpec
= styleSpec[`${propertyType}_${options.layerType}`];\n\n    if (!layerSpec) return [];\n\n    const transitionMatch =
propertyKey.match(/^(.*)-transition$/);\n    if (propertyType === 'paint' && transitionMatch &&
layerSpec[transitionMatch[1]] && layerSpec[transitionMatch[1]].transition) {\n        return validate({\n
key,\n            value,\n            valueSpec: styleSpec.transition,\n            style,\n            styleSpec\n        });\n    }\n\n
const valueSpec = options.valueSpec || layerSpec[propertyKey];\n    if (!valueSpec) {\n        return [new
ValidationError(key, value, `unknown property \"${propertyKey}\"`)];\n    }\n\n    let tokenMatch;\n    if
(getType(value) === 'string' && supportsPropertyExpression(valueSpec) && !valueSpec.tokens
 && (tokenMatch = /^{([^}]+)}$/.exec(value))) {\n        return [new ValidationError(\n            key, value,\n
`\"${propertyKey}\" does not support interpolation syntax\n` +\n            `Use an identity property function
instead: \\`{ \"type\": \"identity\", \"property\": ${JSON.stringify(tokenMatch[1])} }\\`.`)];\n    }\n\n    const errors =
[];\n\n    if (options.layerType === 'symbol') {\n        if (propertyKey === 'text-field' && style && !style.glyphs) {\n
    errors.push(new ValidationError(key, value, 'use of \"text-field\" requires a style \"glyphs\" property'));\n
}\n        if (propertyKey === 'text-font' && isFunction(deepUnbundle(value)) && unbundle(value.type) ===
'identity') {\n            errors.push(new ValidationError(key, value, '\"text-font\" does not support identity
functions'));\n        }\n    }\n\n    return errors.concat(validate({\n        key: options.key,\n        value,\n
valueSpec,\n        style,\n        styleSpec,\n
    expressionContext: 'property',\n        propertyType,\n        propertyKey\n    }));\n}\n","\nimport
validateProperty from './validate_property';\n\nexport default function validatePaintProperty(options) {\n    return
validateProperty(options, 'paint');\n}\n","\nimport validateProperty from './validate_property';\n\nexport default
function validateLayoutProperty(options) {\n    return validateProperty(options, 'layout');\n}\n","\nimport
ValidationError from '../error/validation_error';\nimport {unbundle} from '../util/unbundle_jsonlint';\nimport
validateObject from './validate_object';\nimport validateFilter from './validate_filter';\nimport validatePaintProperty
from './validate_paint_property';\nimport validateLayoutProperty from './validate_layout_property';\nimport
validateSpec from './validate';\nimport extend from '../util/extend';\n\nexport default function validateLayer(options)
{\n    let errors = [];\n\n    const layer = options.value;\n    const key = options.key;\n
    const style = options.style;\n    const styleSpec = options.styleSpec;\n\n    if (!layer.type && !layer.ref) {\n
errors.push(new ValidationError(key, layer, 'either \"type\" or \"ref\" is required'));\n    }\n    let type =
unbundle(layer.type);\n    const ref = unbundle(layer.ref);\n\n    if (layer.id) {\n        const layerId =
unbundle(layer.id);\n        for (let i = 0; i < options.arrayIndex; i++) {\n            const otherLayer = style.layers[i];\n
    if (unbundle(otherLayer.id) === layerId) {\n                errors.push(new ValidationError(key, layer.id, `duplicate
layer id \"${layer.id}\", previously used at line ${otherLayer.id.__line__}`));\n            }\n        }\n    }\n\n    if ('ref'
in layer) {\n        ['type', 'source', 'source-layer', 'filter', 'layout'].forEach((p) => {\n            if (p in layer) {\n
errors.push(new ValidationError(key, layer[p], `\"${p}\" is prohibited for ref layers`));\n            }\n        });\n\n
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let parent;\n\n        style.layers.forEach((layer) => {\n            if (unbundle(layer.id) === ref) parent = layer;\n
});\n\n        if (!parent) {\n            errors.push(new ValidationError(key, layer.ref, `ref layer \"${ref}\" not found`));\n
} else if (parent.ref) {\n            errors.push(new ValidationError(key, layer.ref, 'ref cannot reference another ref
layer'));\n        } else {\n            type = unbundle(parent.type);\n        }\n    } else if (type !== 'background') {\n        if
(!layer.source) {\n            errors.push(new ValidationError(key, layer, 'missing required property \"source\"'));\n
} else {\n            const source = style.sources && style.sources[layer.source];\n            const sourceType = source
&& unbundle(source.type);\n            if (!source) {\n                errors.push(new ValidationError(key, layer.source,
`source \"${layer.source}\" not found`));\n            } else if (sourceType === 'vector' && type === 'raster')
{\n                errors.push(new ValidationError(key, layer.source, `layer \"${layer.id}\" requires a raster source`));\n
} else if (sourceType === 'raster' && type !== 'raster') {\n                errors.push(new ValidationError(key,
layer.source, `layer \"${layer.id}\" requires a vector source`));\n            } else if (sourceType === 'vector' &&
!layer['source-layer']) {\n                errors.push(new ValidationError(key, layer, `layer \"${layer.id}\" must specify a
\"source-layer\"`));\n            } else if (sourceType === 'raster-dem' && type !== 'hillshade') {\n
errors.push(new ValidationError(key, layer.source, 'raster-dem source can only be used with layer type
\\'hillshade\\'.'));\n            } else if (type === 'line' && layer.paint && layer.paint['line-gradient'] &&\n
(sourceType !== 'geojson' || !source.lineMetrics)) {\n                errors.push(new ValidationError(key, layer, `layer
\"${layer.id}\" specifies a
 line-gradient, which requires a GeoJSON source with \\'lineMetrics\\' enabled.`));\n            }\n        }\n    }\n\n
errors = errors.concat(validateObject({\n        key,\n        value: layer,\n        valueSpec: styleSpec.layer,\n        style:
options.style,\n        styleSpec: options.styleSpec,\n        objectElementValidators: {\n            '*'() {\n                return
[];\n            },\n            // We don't want to enforce the spec's `\"requires\": true` for backward compatibility with
refs;\n            // the actual requirement is validated above. See https://github.com/mapbox/mapbox-gl-
js/issues/5772.\n            type() {\n                return validateSpec({\n                    key: `${key}.type`,\n
value: layer.type,\n                    valueSpec: styleSpec.layer.type,\n                    style: options.style,\n
styleSpec: options.styleSpec,\n                    object: layer,\n                    objectKey: 'type'\n
});\n            },\n            filter: validateFilter,\n            layout(options) {\n                return
validateObject({\n                    layer,\n                    key: options.key,\n                    value: options.value,\n
style: options.style,\n                    styleSpec: options.styleSpec,\n                    objectElementValidators: {\n
'*'(options) {\n                            return validateLayoutProperty(extend({layerType: type}, options));\n
}\n                    }\n                });\n            },\n            paint(options) {\n                return validateObject({\n
layer,\n                    key: options.key,\n                    value: options.value,\n                    style: options.style,\n
styleSpec: options.styleSpec,\n                    objectElementValidators: {\n                        '*'(options) {\n

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

objectElementValidators\n   });\n   return errors;\n\n   case 'geojson':\n   errors = validateObject({\n   key,\n   value,\n   valueSpec: styleSpec.source_geojson,\n   style,\n   styleSpec,\n   objectElementValidators\n

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

 from '../error/validation_error';\nimport getType from '../util/get_type';\nimport validate from './validate';\n\nexport default function validateLight(options) {\n   const light = options.value;\n   const styleSpec = options.styleSpec;\n   const lightSpec = styleSpec.light;\n   const style = options.style;\n\n   let errors = [];\n\n   const rootType = getType(light);\n   if (light === undefined) {\n   return errors;\n   } else if (rootType !== 'object') {\n   errors = errors.concat([new ValidationError('light', light, `object expected, ${rootType} found`)]);\n   return errors;\n   }\n\n   for (const key in light) {\n   const transitionMatch = key.match(/^(.*)-transition$/);\n\n   if (transitionMatch && lightSpec[transitionMatch[1]] && lightSpec[transitionMatch[1]].transition) {\n   errors = errors.concat(validate({\n   key,\n   value: light[key],\n   valueSpec: styleSpec.transition,\n

    style,\n   styleSpec\n   }));\n   } else if (lightSpec[key]) {\n   errors = errors.concat(validate({\n   key,\n   value: light[key],\n   valueSpec: lightSpec[key],\n

    style,\n   styleSpec\n   }));\n   } else {\n   errors = errors.concat([new ValidationError(key, light[key], `unknown property \"${key}\"`)]);\n   }\n   }\n\n   return errors;\n}\n","// @flow\nimport validateExpression from './validate_expression';\nimport validateString from './validate_string';\n\nexport default function validateFormatted(options: any) {\n   if (validateString(options).length === 0) {\n   return [];\n   }\n\n   return validateExpression(options);\n}\n","// @flow\nimport validateExpression from './validate_expression';\nimport validateString from './validate_string';\n\nexport default function validateImage(options: any) {\n   if (validateString(options).length

 === 0) {\n   return [];\n   }\n\n   return validateExpression(options);\n}\n","\nimport extend from '../util/extend';\nimport {unbundle, deepUnbundle} from '../util/unbundle_jsonlint';\nimport {isExpression} from '../expression';\nimport {isFunction} from '../function';\n\nimport validateFunction from './validate_function';\nimport validateExpression from './validate_expression';\nimport validateObject from './validate_object';\nimport validateArray from './validate_array';\nimport validateBoolean from './validate_boolean';\nimport validateNumber from './validate_number';\nimport validateColor from './validate_color';\nimport validateConstants from './validate_constants';\nimport validateEnum from './validate_enum';\nimport validateFilter from './validate_filter';\nimport validateLayer from './validate_layer';\nimport validateSource from './validate_source';\nimport validateLight from './validate_light';\nimport validateString from './validate_string';\nimport validateFormatted

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

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

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

 {16:[2,6]},\nparseError: function parseError(str, hash) {\n   if (hash.recoverable) {\n   this.trace(str);\n   } else {\n   throw new Error(str);\n   }\n},\nparse: function parse(input) {\n   var self = this, stack = [0], tstack = [], vstack = [null], lstack = [], table = this.table, yytext = '', yylineno = 0, yyleng = 0, recovering = 0, TERROR = 2, EOF = 1;\n   var args = lstack.slice.call(arguments, 1);\n   var lexer = Object.create(this.lexer);\n   var sharedState = { yy: {} };\n   for (var k in this.yy) {\n   if (Object.prototype.hasOwnProperty.call(this.yy, k)) {\n   sharedState.yy[k] = this.yy[k];\n   }\n   }\n   lexer.setInput(input, sharedState.yy);\n   sharedState.yy.lexer = lexer;\n   sharedState.yy.parser = this;\n   if (typeof lexer.yylloc == 'undefined') {\n   lexer.yylloc = {};\n   }\n   var yyloc = lexer.yylloc;\n   lstack.push(yyloc);\n   var ranges = lexer.options && lexer.options.ranges;\n   if (typeof sharedState.yy.parseError === 'function') {\n   this.parseError = sharedState.yy.parseError;\n   } else {\n   this.parseError = Object.getPrototypeOf(this).parseError;\n   }\n   function popStack(n) {\n   stack.length = stack.length - 2 * n;\n   vstack.length = vstack.length - n;\n   lstack.length = lstack.length - n;\n   }\n   _token_stack: function lex() {\n   var token;\n   token = lexer.lex() || EOF;\n   if (typeof token !== 'number') {\n   token = self.symbols_[token] || token;\n   }\n   return token;\n   }\n   var symbol, preErrorSymbol, state, action, a, r, yyval = {}, p, len, newState, expected;\n   while (true) {\n   state = stack[stack.length - 1];\n   if (this.defaultActions[state]) {\n   action = this.defaultActions[state];\n   } else {\n   if (symbol === null || typeof symbol == 'undefined') {\n   symbol = lex();\n   }\n   action = table[state] && table[state][symbol];\n   }\n   if (typeof action === 'undefined' || !action.length || !action[0]) {\n   var errStr = '';\n   expected = [];\n   for (p in table[state]) {\n   if (this.terminals_[p] && p > TERROR) {\n   expected.push('\\'' + this.terminals_[p] + '\\'');\n   }\n   }\n   if (lexer.showPosition) {\n   errStr = 'Parse error on line ' + (yylineno + 1) + ':\\n' + lexer.showPosition() + '\\nExpecting ' + expected.join(', ') + ', got \\'' + (this.terminals_[symbol] || symbol) + '\\'';\n   } else {\n   errStr = 'Parse error on line ' + (yylineno + 1) + ': Unexpected ' + (symbol == EOF ? 'end of input' : '\\'' + (this.terminals_[symbol] || symbol) + '\\'');\n   }\n   this.parseError(errStr, {\n   text: lexer.match,\n   token: this.terminals_[symbol] || symbol,\n   line: lexer.yylineno,\n   loc: yyloc,\n   expected: expected\n   });\n   }\n   if (action[0] instanceof Array && action.length > 1) {\n   throw new Error('Parse Error: multiple actions possible at state: ' + state + ', token: ' + symbol);\n   }\n   switch (action[0]) {\n   case 1:\n   stack.push(symbol);\n   vstack.push(lexer.yytext);\n   lstack.push(lexer.yylloc);\n   stack.push(action[1]);\n   symbol = null;\n   if (!preErrorSymbol) {\n   yyleng = lexer.yyleng;\n   yytext = lexer.yytext;\n   yylineno = lexer.yylineno;\n   yyloc = lexer.yylloc;\n   if (recovering > 0) {\n   recovering--;\n   }\n   } else {\n   symbol = preErrorSymbol;\n   preErrorSymbol = null;\n   }\n   break;\n   case 2:\n   len = this.productions_[action[1]][1];\n   yyval.$ = vstack[vstack.length - len];\n   yyval._$ = {\n   first_line: lstack[lstack.length - (len || 1)].first_line,\n   last_line: lstack[lstack.length - 1].last_line,\n   first_column: lstack[lstack.length - (len || 1)].first_column,\n   last_column: lstack[lstack.length - 1].last_column\n   };\n   if (ranges)

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

messages\nshowPosition:function () {\n   var pre = this.pastInput();\n   var c = new Array(pre.length + 1).join(\"-\");\n   return pre + this.upcomingInput() + \"\\n\" + c + \"^\";\n   },\n\n// test the lexed token: return FALSE when not a match, otherwise return token\ntest_match:function (match, indexed_rule) {\n   var token,\n   lines,\n   backup;\n\n   if (this.options.backtrack_lexer) {\n   // save context\n   backup = {\n   yylineno: this.yylineno,\n   yylloc: {\n   first_line: this.yylloc.first_line,\n   last_line: this.last_line,\n   first_column: this.yylloc.first_column,\n   last_column: this.yylloc.last_column\n   },\n   yytext: this.yytext,\n   match: this.match,\n   matches: this.matches,\n   matched: this.matched,\n   yyleng: this.yyleng,\n   offset: this.offset,\n   _more: this._more,\n   _input: this._input,\n   yy: this.yy,\n   conditionStack: this.conditionStack.slice(0),\n   done: this.done\n   };\n   if (this.options.ranges) {\n   backup.yylloc.range = this.yylloc.range.slice(0);\n   }\n   }\n\n   lines = match[0].match(/(?:\\r\\n?|\\n).*/g);\n   if (lines) {\n   this.yylineno += lines.length;\n   }\n
    this.yylloc = {\n   first_line: this.yylloc.last_line,\n   last_line: this.yylineno + 1,\n   first_column: this.yylloc.last_column,\n   last_column: lines ?\n   lines[lines.length - 1].length - lines[lines.length - 1].match(/\\r?\\n?/)[0].length :\n   this.yylloc.last_column + match[0].length\n   };\n   this.yytext += match[0];\n   this.match += match[0];\n   this.matches = match;\n   this.yyleng = this.yytext.length;\n   if (this.options.ranges) {\n   this.yylloc.range = [this.offset, this.offset += this.yyleng];\n   }\n   this._more = false;\n   this._backtrack = false;\n   this._input = this._input.slice(match[0].length);\n   this.matched += match[0];\n   token = this.performAction.call(this, this.yy, this, indexed_rule, this.conditionStack[this.conditionStack.length - 1]);\n   if (this.done && this._input) {\n   this.done
 = false;\n   }\n   if (token) {\n   return token;\n   } else if (this._backtrack) {\n   // recover context\n   for (var k in backup) {\n   this[k] = backup[k];\n   }\n   return false; // rule action called reject() implying the next rule should be tested instead.\n   }\n   return false;\n   },\n\n// return next match in input\nnext:function () {\n   if (this.done) {\n   return this.EOF;\n   }\n   if (!this._input) {\n   this.done = true;\n   }\n\n   var token,\n   match,\n   tempMatch,\n   index;\n   if (!this._more) {\n   this.yytext = '';\n   this.match = '';\n   }\n   var rules = this._currentRules();\n   for (var i = 0; i < rules.length; i++) {\n   tempMatch = this._input.match(this.rules[rules[i]]);\n   if (tempMatch && (!match || tempMatch[0].length > match[0].length))
 {\n   match = tempMatch;\n   index = i;\n   if (this.options.backtrack_lexer) {\n   token = this.test_match(tempMatch, rules[i]);\n   if (token !== false) {\n   return token;\n   } else if (this._backtrack) {\n   match = false;\n   continue; // rule action called reject() implying a rule MISmatch.\n   } else {\n   // else: this is a lexer rule which consumes input without producing a token (e.g. whitespace)\n   return false;\n   }\n   } else if (!this.options.flex) {\n   break;\n   }\n   }\n   }\n   if (match) {\n   token = this.test_match(match, rules[index]);\n   if (token !== false) {\n   return token;\n   }\n   // else: this is a lexer rule which consumes
 input without producing a token (e.g. whitespace)\n   return false;\n   }\n   if (this._input === \"\") {\n   return this.EOF;\n   } else {\n   return this.parseError('Lexical error on line ' + (this.yylineno + 1) + '. Unrecognized text.\\n' + this.showPosition(), {\n   text: \"\",\n   token: null,\n   line: this.yylineno\n   });\n   }\n   },\n\n// return next match that has a token\nlex:function lex() {\n   var r = this.next();\n   if (r) {\n   return r;\n   } else {\n   return this.lex();\n   }\n   },\n\n// activates a new lexer condition state (pushes the new lexer condition state onto the condition stack)\nbegin:function begin(condition) {\n   this.conditionStack.push(condition);\n   },\n\n// pop the previously active lexer condition state off the condition stack\npopState:function popState() {\n   var n = this.conditionStack.length
 - 1;\n   if (n > 0) {\n   return this.conditionStack.pop();\n   } else {\n   return this.conditionStack[0];\n   }\n   },\n\n// produce the lexer rule set which is active for the currently active lexer

condition state\n_currentRules:function _currentRules() {\n   if (this.conditionStack.length && this.conditionStack[this.conditionStack.length - 1]) {\n   return this.conditions[this.conditionStack[this.conditionStack.length - 1]].rules;\n   } else {\n   return this.conditions[\"INITIAL\"].rules;\n   }\n   },\n\n// return the currently active lexer condition state; when an index argument is provided it produces the N-th previous condition state, if available\ntopState:function topState(n) {\n   n = this.conditionStack.length - 1 - Math.abs(n || 0);\n   if (n >= 0) {\n   return this.conditionStack[n];\n   } else {\n   return \"INITIAL\";\n   }\n   },\n\n// alias for begin(condition)\npushState:function pushState(condition) {\n   this.begin(condition);\n   },\n\n// return the number of states currently on the stack\nstateStackSize:function stateStackSize() {\n   return this.conditionStack.length;\n   },\noptions: {},\nperformAction: function anonymous(yy,yy_,$avoiding_name_collisions,YY_START) {\nvar YYSTATE=YY_START;\nswitch($avoiding_name_collisions) {\ncase 0:/* skip whitespace */\nbreak;\ncase 1:return 6\nbreak;\ncase 2:yy_.yytext = yy_.yytext.substr(1,yy_.yyleng-2); return 4\nbreak;\ncase 3:return 17\nbreak;\ncase 4:return 18\nbreak;\ncase 5:return 23\nbreak;\ncase 6:return 24\nbreak;\ncase 7:return 22\nbreak;\ncase 8:return 21\nbreak;\ncase 9:return 10\nbreak;\ncase 10:return 11\nbreak;\ncase 11:return 8\nbreak;\ncase 12:return 14\nbreak;\ncase 13:return 'INVALID'\nbreak;\n}\n},\nrules: [/^(?:\\s+)/,/^(?:(-?([0-9]|[1-9][0-9]+))(\\.[0-9]+)?([eE][-+]?[0-9]+)?\\b)/,/^(?:\"(?:\\\\[\\\\\"bfnrt/]|\\\\u[a-fA-F0-9]{4}|[^\\\\\\0-\\x09\\x0a-\\x1f\"])*\")/,/^(?:\\{)/,/^(?:\\})/,/^(?:\\[)/,/^(?:\\])/,/^(?:,)/,/^(?::)/,/^(?:true\\b)/,/^(?:false\\b)/,/^(?:null\\b)/,/^(?:$)/,/^(?:.)/],\nconditions: {\"INITIAL\":{\"rules\":[0,1,2,3,4,5,6,7,8,9,10,11,12,13],\"inclusive\":true}}\n});\nreturn lexer;\n})();\nparser.lexer = lexer;\nfunction Parser () {\n this.yy = {};\n}\nParser.prototype = parser;parser.Parser = Parser;\nreturn new Parser;\n})();\n\n\nif (typeof require !== 'undefined' && typeof exports !== 'undefined') {\nexports.parser = parser;\nexports.Parser = parser.Parser;\nexports.parse = function () { return parser.parse.apply(parser, arguments); };\n}\n","import ParsingError from './error/parsing_error';\nimport jsonlint from '@mapbox/jsonlint-lines-primitives';\n\nexport default function readStyle(style) {\n   if (style instanceof String || typeof style === 'string' || style instanceof Buffer) {\n   try {\n   return jsonlint.parse(style.toString());\n   } catch (e) {\n   throw new ParsingError(e);\n   }\n   }\n\n   return style;\n}\n","import validateStyleMin from './validate_style.min';\nimport {v8} from './style-spec';\nimport readStyle from './read_style';\n\n/**\n * Validate a Mapbox GL style against the style specification.\n *\n * @private\n * @alias validate\n * @param {Object|String|Buffer} style The style to be validated. If a `String`\n *   or `Buffer` is provided, the returned errors will contain line numbers.\n * @param {Object} [styleSpec] The style specification to validate against.\n * @   If omitted, the spec version is inferred from the stylesheet.\n * @returns {Array<ValidationError|ParsingError>}\n * @example\n *   var validate = require('mapbox-gl-style-spec').validate;\n *   var style = fs.readFileSync('./style.json', 'utf8');\n *   var errors = validate(style);\n */\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 ValidationError from './error/validation_error';\nimport getType from './util/get_type';\n\nconst SUPPORTED_SPEC_VERSION = 8;\nconst MAX_SOURCES_IN_STYLE = 15;\nfunction isValid(value: ?string, regex: RegExp): boolean {\n   if (!value || getType(value) !== 'string') return true;\n   return !!value.match(regex);\n}\n\nfunction getSourceCount(source: Object): number {\n   if (source.url) {\n   return source.url.split(',').length;\n   } else {\n   return 0;\n   }\n}\n\nfunction getAllowedKeyErrors(obj: Object, keys: Array<*>, path: ?string): Array<?ValidationError> {\n   const allowed = new Set(keys);\n   const errors = [];\n   Object.keys(obj).forEach(k => {\n   if (!allowed.has(k)) {\n   const prop = path ?

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`${path}.${k}` : null;\n            errors.push(new ValidationError(prop, obj[k], `Unsupported property \"${k}\"`));\n
    }\n    });\n    return errors;\n}\n\nfunction getSourceErrors(source: Object, i: number): Array<?ValidationError>
{\n    const errors = [];\n\n    /*\n     * Inlined sources are not supported by the Mapbox Styles API, so only\n     *
\"type\", \"url\", and \"tileSize\" properties are valid\n     */\n    const sourceKeys = ['type', 'url', 'tileSize'];\n
errors.push(...getAllowedKeyErrors(source, sourceKeys, 'source'));\n\n    /*\n     * \"source\" is required. Valid
examples:\n     * mapbox://mapbox.abcd1234\n     * mapbox://penny.abcd1234\n     *
mapbox://mapbox.abcd1234,penny.abcd1234\n     */\n    const sourceUrlPattern
 = /^mapbox:\\/\\/([^/]*)$/;\n    if (!isValid(source.url, sourceUrlPattern)) {\n        errors.push(new
ValidationError(`sources[${i}]`, source.url, 'Source url must be a valid Mapbox tileset url'));\n    }\n\n    return
errors;\n}\n\nfunction getSourcesErrors(sources: Object): Array<?ValidationError> {\n    const errors = [];\n    let
count = 0;\n\n    Object.keys(sources).forEach((s: string, i: number) => {\n        const sourceErrors =
getSourceErrors(sources[s], i);\n\n        // If source has errors, skip counting\n        if (!sourceErrors.length) {\n
count = count + getSourceCount(sources[s]);\n        }\n\n        errors.push(...sourceErrors);\n    });\n\n    if (count >
MAX_SOURCES_IN_STYLE) {\n        errors.push(new ValidationError('sources', null, `Styles must contain
${MAX_SOURCES_IN_STYLE} or fewer sources`));\n    }\n\n    return errors;\n}\n\nfunction getRootErrors(style:
Object, specKeys: Array<any>): Array<?ValidationError> {\n    const errors = [];\n\n

    /*\n     * The following keys are optional but fully managed by the Mapbox Styles\n     * API. Values on
stylesheet on POST or PATCH will be ignored: \"owner\",\n     * \"id\", \"cacheControl\", \"draft\", \"created\",
\"modified\"\n     *\n     * The following keys are optional. The Mapbox Styles API respects value on\n     *
stylesheet on PATCH, but ignores the value on POST: \"visibility\"\n     */\n    const optionalRootProperties = [\n
 'owner',\n        'id',\n        'cacheControl',\n        'draft',\n        'created',\n        'modified',\n        'visibility'\n    ];\n\n
const allowedKeyErrors = getAllowedKeyErrors(style, [...specKeys, ...optionalRootProperties]);\n
errors.push(...allowedKeyErrors);\n\n    if (style.version > SUPPORTED_SPEC_VERSION || style.version <
SUPPORTED_SPEC_VERSION) {\n        errors.push(new ValidationError('version', style.version, `Style version
must be ${SUPPORTED_SPEC_VERSION}`));\n    }\n\n    /*\n     * \"glyphs\" is optional. If
 present, valid examples:\n     * mapbox://fonts/penny/{fontstack}/{range}.pbf\n     *
mapbox://fonts/mapbox/{fontstack}/{range}.pbf\n     */\n    const glyphUrlPattern =
/^mapbox:\\/\\/fonts\\/([^/]*)\\/{fontstack}\\/{range}.pbf$/;\n    if (!isValid(style.glyphs, glyphUrlPattern)) {\n
errors.push(new ValidationError('glyphs', style.glyphs, 'Styles must reference glyphs hosted by Mapbox'));\n    }\n\n
 /*\n     * \"sprite\" is optional. If present, valid examples:\n     * mapbox://sprites/penny/abcd1234\n     *
mapbox://sprites/mapbox/abcd1234/draft\n     * mapbox://sprites/cyrus/abcd1234/abcd1234\n     */\n    const
spriteUrlPattern = /^mapbox:\\/\\/sprites\\/([^/]*)\\/([^/]*)\\/?([^/]*)?$/;\n    if (!isValid(style.sprite, spriteUrlPattern))
{\n        errors.push(new ValidationError('sprite', style.sprite, 'Styles must reference sprites hosted by Mapbox'));\n
}\n\n    /*\n     * \"visibility\" is optional. If present, valid examples:\n     * \"private\"\n     * \"public\"\n
    */\n    const visibilityPattern = /^(public|private)$/;\n    if (!isValid(style.visibility, visibilityPattern)) {\n
errors.push(new ValidationError('visibility', style.visibility, 'Style visibility must be public or private'));\n    }\n\n
return errors;\n}\n\n/**\n * Validate a Mapbox GL style against the style specification and check for\n *
compatibility with the Mapbox Styles API.\n *\n * @param {Object} style The style to be validated.\n * @returns
{Array<ValidationError>}\n * @example\n *   var validateMapboxApiSupported = require('mapbox-gl-style-
spec/lib/validate_style_mapbox_api_supported.js');\n *   var errors = validateMapboxApiSupported(style);\n
*/\nexport default function validateMapboxApiSupported(style: Object): Array<?ValidationError> {\n    let s =
style;\n    try {\n        s = readStyle(s);\n    } catch (e) {\n        return [e];\n    }\n\n    let errors = validateStyle(s, v8)\n
    .concat(getRootErrors(s, Object.keys(v8.$root)));\n\n    if (s.sources)
 {\n        errors = errors.concat(getSourcesErrors(s.sources));\n    }\n\n    return errors;\n}\n","// @flow\n\ntype
ExpressionType = 'data-driven' | 'cross-faded' | 'cross-faded-data-driven' | 'color-ramp' | 'data-constant' |
'constant';\ntype ExpressionParameters = Array<'zoom' | 'feature' | 'feature-state' | 'heatmap-density' | 'line-
progress'>;\n\ntype ExpressionSpecification = {\n    interpolated: boolean,\n    parameters:
ExpressionParameters\n}\n\nexport type StylePropertySpecification = {\n    type: 'number',\n    'property-type':
```

ExpressionType,\n expression?: ExpressionSpecification,\n transition: boolean,\n default?: number\n} | {\n type: 'string',\n 'property-type': ExpressionType,\n expression?: ExpressionSpecification,\n transition: boolean,\n default?: string,\n tokens?: boolean\n} | {\n type: 'boolean',\n 'property-type': ExpressionType,\n expression?: ExpressionSpecification,\n transition: boolean,\n default?: boolean\n}

| {\n type: 'enum',\n 'property-type': ExpressionType,\n expression?: ExpressionSpecification,\n values: {[_: string]: {}},\n transition: boolean,\n default?: string\n} | {\n type: 'color',\n 'property-type': ExpressionType,\n expression?: ExpressionSpecification,\n transition: boolean,\n default?: string,\n overridable: boolean\n} | {\n type: 'array',\n value: 'number',\n 'property-type': ExpressionType,\n expression?: ExpressionSpecification,\n length?: number,\n transition: boolean,\n default?: Array<number>\n}

| {\n type: 'array',\n value: 'string',\n 'property-type': ExpressionType,\n expression?: ExpressionSpecification,\n length?: number,\n transition: boolean,\n default?: Array<string>\n};\n\nimport v8 from './reference/v8.json';\nimport latest from './reference/latest';\nimport format from './format';\nimport migrate from './migrate';\nimport composite from './composite';\nimport derefLayers from './deref';\nimport diff from './diff';\nimport ValidationError from './error/validation_error';\nimport ParsingError from './error/parsing_error';\nimport {StyleExpression, isExpression, createExpression, createPropertyExpression, normalizePropertyExpression, ZoomConstantExpression, ZoomDependentExpression, StylePropertyFunction} from './expression';\nimport featureFilter, {isExpressionFilter} from './feature_filter';\nimport convertFilter from './feature_filter/convert';\nimport Color from './util/color';\nimport {createFunction, isFunction} from './function';\nimport convertFunction from './function/convert';\nimport {eachSource, eachLayer, eachProperty} from './visit';\nimport validate from './validate_style';\nimport validateMapboxApiSupported from './validate_mapbox_api_supported';\n\nconst expression = {\n StyleExpression,\n isExpression,\n isExpressionFilter,\n createExpression,\n createPropertyExpression,\n normalizePropertyExpression,\n ZoomConstantExpression,\n

ZoomDependentExpression,\n StylePropertyFunction\n};\n\nconst styleFunction = {\n convertFunction,\n createFunction,\n isFunction\n};\n\nconst visit = {eachSource, eachLayer, eachProperty};\n\nexport {\n v8,\n latest,\n format,\n migrate,\n composite,\n derefLayers,\n diff,\n ValidationError,\n ParsingError,\n expression,\n featureFilter,\n convertFilter,\n Color,\n styleFunction as function,\n validate,\n validateMapboxApiSupported,\n visit\n};\n\nvalidate.parsed = validate;\nvalidate.latest = validate;\n"],"names":["sortKeysBy","obj","reference","const","result","key","undefined","format","style","space","$root","layers","map","layer","stringifyPretty","indent","global","this","require$$0","require$$1","getPropertyReference","propertyName","let","i","Reference","layout","length","paint","eachSource","callback","k","sources","eachLayer","eachProperty","options","inner","propertyType","properties","Object","keys","forEach","path","id","value","set","x","eachLayout","indexOf","eachPaint","resolveConstant","constants","isFunction","Array","isArray","stops","renameProperty","from","to","version","source","type","url","coordinates","coord","reverse","property","stop","migrateFontstackURL","input","inputParsed","URL","parse","inputPathnameParts","pathname","split","protocol","hostname","glyphs","migrateFontStack","font","splitAndTrim","string","s","trim","Error","firstSymbolLayer","symbolLayers","splice","concat","output","inputs","ParsingError","message","super","Scope","parent","bindings","name","expression","get","has","NullType","kind","NumberType","StringType","BooleanType","ColorType","ObjectType","ValueType","ErrorType","CollatorType","FormattedType","ResolvedImageType","array","itemType","N","toString","valueMemberTypes","checkSubtype","expected","t","memberType","isValidType","provided","allowedTypes","some","isValidNativeType","Color","r","g","b","a","rgba","parseCSSColor","toArray","Math","round","black","white","transparent","red","Collator","caseSensitive","diacriticSensitive","locale","sensitivity","collator","Intl","usage","compare","lhs","rhs","resolvedLocale","resolvedOptions","FormattedSection","text","image","scale","fontStack","textColor","Formatted","sections","fromString","unformatted","isEmpty","section","factory","join","serialize","serialized","push","ResolvedImage","available","validateRGBA","isValue","mixed","item","typeOf","String","JSON","stringify","Literal","args","context","error","expectedType","evaluate","eachChild","outputDefined","RuntimeError","toJSON","types","number","boolean","object","Assertion","floor","parsed","ctx","fn","every","arg","FormatExpression","firstArg","nextTokenMayBeObject","lastExpression","content","evaluateSection","evaluatedContent",

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Open Source Used In DNAC NXP Platform UI rel/Guardian 751

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Found
in path(s):
* /opt/cola/permits/1096023214_1601640940.37/0/mapbox-mapbox-gl-style-spec-13-16-0-tgz/package/dist/index.js.map
No license file was found, but licenses were detected in source scan.

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 *
 * Ported from Webkit
 * http://svn.webkit.org/repository/webkit/trunk/Source/WebCore/platform/graphics/UnitBezier.h
 */
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Found in path(s):

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

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

```
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Found in path(s):
* /opt/cola/permits/1096023214_1601640940.37/0/mapbox-mapbox-gl-style-spec-13-16-0-
tgz/package/dist/index.es.js
No license file was found, but licenses were detected in source scan.

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primitives/lib/jsonlint.js","../read_style.js","../validate_style.js","../validate_mapbox_api_supported.js","../style-
spec.js"],"sourcesContent":["\"use
 strict\";\n\n// Note: This regex matches even invalid JSON strings, but since we're\n// working on the output of
`JSON.stringify` we know that only valid strings\n// are present (unless the user supplied a weird `options.indent`
but in\n// that case we don't care since the output would be invalid anyway).\nvar stringOrChar =

```
/(\"(?:[^\\\\\"]|\\\\.)*\")|[:,]/g;\n\nmodule.exports = function stringify(passedObj, options) {\n  var indent, maxLength,
replacer;\n\n  options = options || {};\n  indent = JSON.stringify(\n    [1],\n    undefined,\n  options.indent ===
undefined ? 2 : options.indent\n  ).slice(2, -3);\n  maxLength =\n    indent === \"\"\n      ? Infinity\n
    : options.maxLength === undefined\n      ? 80\n      : options.maxLength;\n  replacer = options.replacer;\n\n
return (function _stringify(obj, currentIndent, reserved) {\n    // prettier-ignore\n    var end, index, items, key,
keyPart, keys, length, nextIndent, prettified, start, string, value;\n\n    if (obj && typeof obj.toJSON ===
\"function\") {\n      obj = obj.toJSON();\n    }\n\n    string = JSON.stringify(obj, replacer);\n\n    if (string ===
undefined) {\n      return string;\n    }\n\n    length = maxLength - currentIndent.length - reserved;\n\n    if
(string.length <= length) {\n      prettified = string.replace(stringOrChar, function(match, stringLiteral) {\n
return stringLiteral || match + \" \";\n      });\n      if (prettified.length <= length) {\n        return prettified;\n      }\n
}\n\n    if (replacer != null) {\n      obj = JSON.parse(string);\n      replacer = undefined;\n    }\n\n    if (typeof obj
=== \"object\" && obj !== null) {\n      nextIndent
 = currentIndent + indent;\n      items = [];\n      index = 0;\n\n      if (Array.isArray(obj)) {\n        start = \"[\";\n
end = \"]\";\n        length = obj.length;\n        for (; index < length; index++) {\n          items.push(\n
_stringify(obj[index], nextIndent, index === length - 1 ? 0 : 1) ||\n            \"null\"\n          );\n        }\n      } else {\n
  start = \"{\";\n        end = \"}\";\n        keys = Object.keys(obj);\n        length = keys.length;\n        for (; index <
length; index++) {\n          key = keys[index];\n          keyPart = JSON.stringify(key) + \": \";\n          value =
_stringify(\n            obj[key],\n            nextIndent,\n            keyPart.length + (index === length - 1 ? 0 : 1)\n
);\n          if (value !== undefined) {\n            items.push(keyPart + value);\n          }\n        }\n      }\n\n      if
(items.length > 0) {\n        return [start, indent + items.join(\",\\n\" + nextIndent), end].join(\n
      \"\\n\" + currentIndent\n        );\n      }\n    }\n\n    return string;\n  })(passedObj, \"\", 0);\n};\n","\nimport
reference from './reference/latest.js';\nimport stringifyPretty from 'json-stringify-pretty-compact';\n\nfunction
sortKeysBy(obj, reference) {\n    const result = {};\n    for (const key in reference) {\n        if (obj[key] !==
undefined) {\n            result[key] = obj[key];\n        }\n    }\n    for (const key in obj) {\n        if (result[key] ===
undefined) {\n            result[key] = obj[key];\n        }\n    }\n    return result;\n}\n\n/**\n * Format a Mapbox GL
Style.  Returns a stringified style with its keys\n * sorted in the same order as the reference style.\n *\n * The
optional `space` argument is passed to\n * [`JSON.stringify`](https://developer.mozilla.org/en-
US/docs/Web/JavaScript/Reference/Global_Objects/JSON/stringify)\n * to generate formatted output.\n *\n * If
`space` is unspecified, a default of `2` spaces will be used.\n *\n * @private\n
 * @param {Object} style a Mapbox GL Style\n * @param {number} [space] space argument to pass to
`JSON.stringify`\n * @returns {string} stringified formatted JSON\n * @example\n * var fs = require('fs');\n * var
format = require('mapbox-gl-style-spec').format;\n * var style = fs.readFileSync('./source.json', 'utf8');\n *
fs.writeFileSync('./dest.json', format(style));\n * fs.writeFileSync('./dest.min.json', format(style, 0));\n */\nfunction
format(style, space = 2) {\n    style = sortKeysBy(style, reference.$root);\n\n    if (style.layers) {\n        style.layers =
style.layers.map((layer) => sortKeysBy(layer, reference.layer));\n    }\n\n    return stringifyPretty(style, {indent:
space});\n}\n\nexport default format;\n","/*! https://mths.be/punycode v1.3.2 by @mathias */\n;(function(root)
{\n\n\t/** Detect free variables */\n\tvar freeExports = typeof exports == 'object' && exports
&&\n\t\t!exports.nodeType && exports;\n\tvar freeModule = typeof module == 'object' && module
&&\n\t\t!module.nodeType
 && module;\n\tvar freeGlobal = typeof global == 'object' && global;\n\tif (\n\t\tfreeGlobal.global === freeGlobal
||\n\t\tfreeGlobal.window === freeGlobal ||\n\t\tfreeGlobal.self === freeGlobal\n\t) {\n\t\troot =
freeGlobal;\n\t}\n\n\t/**\n\t * The `punycode` object.\n\t * @name punycode\n\t * @type Object\n\t */\n\tvar
punycode,\n\n\t/** Highest positive signed 32-bit float value */\n\tmaxInt = 2147483647, // aka. 0x7FFFFFFF or
2^31-1\n\n\t/** Bootstring parameters */\n\tbase = 36,\n\ttMin = 1,\n\ttMax = 26,\n\tskew = 38,\n\tdamp =
700,\n\tinitialBias = 72,\n\tinitialN = 128, // 0x80\n\tdelimiter = '-', // \\x2D\n\n\t/** Regular expressions
*/\n\tregexPunycode = /^xn--/,\n\tregexNonASCII = /[^\\x20-\\x7E]/, // unprintable ASCII chars + non-ASCII
chars\n\tregexSeparators = /[\\x2E\\u3002\\uFF0E\\uFF61]/g, // RFC 3490 separators\n\n\t/** Error messages
*/\n\terrors = {\n\t\t'overflow': 'Overflow: input needs wider integers to process',\n\t\t'not-basic': 'Illegal
```

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

non-zero and `digit` has no uppercase form.\n\t */\n\tfunction digitToBasic(digit, flag) {\n\t\t// 0..25 map to ASCII a..z or A..Z\n\t\t// 26..35 map to ASCII 0..9\n\t\treturn digit + 22 + 75 * (digit < 26) - ((flag != 0) << 5);\n\t}\n\n\t/**\n\t * Bias adaptation function as per section 3.4 of RFC 3492.\n\t * http://tools.ietf.org/html/rfc3492#section-3.4\n\t * @private\n\t */\n\tfunction adapt(delta, numPoints, firstTime) {\n\t\tvar k = 0;\n\t\tdelta = firstTime ? floor(delta / damp) : delta >> 1;\n\t\tdelta += floor(delta / numPoints);\n\t\tfor (/* no initialization */; delta > baseMinusTMin * tMax >> 1; k += base) {\n\t\t\tdelta = floor(delta / baseMinusTMin);\n\t\t}\n\t\treturn floor(k + (baseMinusTMin + 1) * delta / (delta + skew));\n\t}\n\n\t/**\n\t

 * Converts a Punycode string of ASCII-only symbols to a string of Unicode\n\t * symbols.\n\t * @memberOf punycode\n\t * @param {String} input The Punycode string of ASCII-only symbols.\n\t * @returns {String} The resulting string of Unicode symbols.\n\t */\n\tfunction decode(input) {\n\t\t// Don't use UCS-2\n\t\tvar output = [],\n\t\t   inputLength = input.length,\n\t\t   out,\n\t\t   i = 0,\n\t\t   n = initialN,\n\t\t   bias = initialBias,\n\t\t   basic,\n\t\t   j,\n\t\t   index,\n\t\t   oldi,\n\t\t   w,\n\t\t   k,\n\t\t   digit,\n\t\t   t,\n\t\t   /** Cached calculation results */\n\t\t   baseMinusT;\n\n\t\t// Handle the basic code points: let `basic` be the number of input code\n\t\t// points before the last delimiter, or `0` if there is none, then copy\n\t\t// the first basic code points to the output.\n\n\t\tbasic = input.lastIndexOf(delimiter);\n\t\tif (basic < 0) {\n\t\t\tbasic = 0;\n\t\t}\n\n\t\tfor (j = 0; j < basic; ++j) {\n\t\t\t// if it's not a basic

 code point\n\t\t\tif (input.charCodeAt(j) >= 0x80) {\n\t\t\t\terror('not-basic');\n\t\t\t}\n\t\t\toutput.push(input.charCodeAt(j));\n\t\t}\n\n\t\t// Main decoding loop: start just after the last delimiter if any basic code\n\t\t\t// points were copied; start at the beginning otherwise.\n\n\t\tfor (index = basic > 0 ? basic + 1 : 0; index < inputLength; /* no final expression */) {\n\n\t\t\t// `index` is the index of the next character to be consumed.\n\t\t\t// Decode a generalized variable-length integer into `delta`,\n\t\t\t// which gets added to `i`. The overflow checking is easier\n\t\t\t// if we increase `i` as we go, then subtract off its starting\n\t\t\t// value at the end to obtain `delta`.\n\t\t\tfor (oldi = i, w = 1, k = base; /* no condition */; k += base) {\n\t\t\t\tif (index >= inputLength) {\n\t\t\t\t\terror('invalid-input');\n\t\t\t\t}\n\n\t\t\t\tdigit = basicToDigit(input.charCodeAt(index++));\n\n\t\t\t\tif (digit >= base || digit > floor((maxInt - i) / w)) {\n\t\t\t\t\terror('overflow');\n\t\t\t\t}\n\n\t\t\t\ti

 += digit * w;\n\t\t\t\tt = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);\n\n\t\t\t\tif (digit < t) {\n\t\t\t\t\tbreak;\n\t\t\t\t}\n\n\t\t\t\tbaseMinusT = base - t;\n\t\t\t\tif (w > floor(maxInt / baseMinusT)) {\n\t\t\t\t\terror('overflow');\n\t\t\t\t}\n\n\t\t\t\tw *= baseMinusT;\n\t\t\t}\n\n\t\t\tout = output.length + 1;\n\t\t\tbias = adapt(i - oldi, out, oldi == 0);\n\n\t\t\t// `i` was supposed to wrap around from `out` to `0`,\n\t\t\t// incrementing `n` each time, so we'll fix that now:\n\t\t\tif (floor(i / out) > maxInt - n) {\n\t\t\t\terror('overflow');\n\t\t\t}\n\n\t\t\tn += floor(i / out);\n\t\t\ti %= out;\n\n\t\t\t// Insert `n` at position `i` of the output\n\t\t\toutput.splice(i++, 0, n);\n\n\t\t}\n\n\t\treturn ucs2encode(output);\n\t}\n\n\t/**\n\t * Converts a string of Unicode symbols (e.g. a domain name label) to a\n\t * Punycode string of ASCII-only symbols.\n\t * @memberOf punycode\n\t * @param {String} input The string

 of Unicode symbols.\n\t * @returns {String} The resulting Punycode string of ASCII-only symbols.\n\t */\n\tfunction encode(input) {\n\t\tvar n,\n\t\t   delta,\n\t\t   handledCPCount,\n\t\t   basicLength,\n\t\t   bias,\n\t\t   j,\n\t\t   m,\n\t\t   q,\n\t\t   k,\n\t\t   t,\n\t\t   currentValue,\n\t\t   output = [],\n\t\t   /** `inputLength` will hold the number of code points in `input`. */\n\t\t   inputLength,\n\t\t   /** Cached calculation results */\n\t\t   handledCPCountPlusOne,\n\t\t   baseMinusT,\n\t\t   qMinusT;\n\n\t\t// Convert the input in UCS-2 to Unicode\n\t\tinput = ucs2decode(input);\n\n\t\t// Cache the length\n\t\tinputLength = input.length;\n\n\t\t// Initialize the state\n\t\tn = initialN;\n\t\tdelta = 0;\n\t\tbias = initialBias;\n\n\t\t// Handle the basic code points\n\t\tfor (j = 0; j < inputLength; ++j) {\n\t\t\tcurrentValue = input[j];\n\t\t\tif (currentValue < 0x80) {\n\t\t\t\toutput.push(stringFromCharCode(currentValue));\n\t\t\t}\n\t\t}\n\n\t\thandledCPCount

 = basicLength = output.length;\n\n\t\t// `handledCPCount` is the number of code points that have been handled;\n\t\t// `basicLength` is the number of basic code points.\n\n\t\t// Finish the basic string - if it is not empty - with a delimiter\n\t\tif (basicLength) {\n\t\t\toutput.push(delimiter);\n\t\t}\n\n\t\t// Main encoding loop:\n\t\twhile (handledCPCount < inputLength) {\n\n\t\t\t// All non-basic code points < n have been handled already. Find the

next\n\t\t\t// larger one:\n\t\t\tfor (m = maxInt, j = 0; j < inputLength; ++j) {\n\t\t\t\tcurrentValue = input[j];\n\t\t\t\tif (currentValue >= n && currentValue < m) {\n\t\t\t\t\tm = currentValue;\n\t\t\t\t}\n\t\t\t}\n\n\t\t\t// Increase `delta` enough to advance the decoder's <n,i> state to <m,0>,\n\t\t\t// but guard against overflow\n\t\t\thandledCPCountPlusOne = handledCPCount + 1;\n\t\t\tif (m - n > floor((maxInt - delta) / handledCPCountPlusOne)) {\n\t\t\t\terror('overflow');\n\t\t\t}\n\n\t\t\tdelta += (m - n) * handledCPCountPlusOne;\n\t\t\tn = m;\n\n\t\t\tfor (j = 0; j < inputLength; ++j) {\n\t\t\t\tcurrentValue = input[j];\n\n\t\t\t\tif (currentValue < n && ++delta > maxInt) {\n\t\t\t\t\terror('overflow');\n\t\t\t\t}\n\n\t\t\t\tif (currentValue == n) {\n\t\t\t\t\t// Represent delta as a generalized variable-length integer\n\t\t\t\t\tfor (q = delta, k = base; /* no condition */; k += base) {\n\t\t\t\t\t\tt = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);\n\t\t\t\t\t\tif (q < t) {\n\t\t\t\t\t\t\tbreak;\n\t\t\t\t\t\t}\n\t\t\t\t\t\tqMinusT = q - t;\n\t\t\t\t\t\tbaseMinusT = base - t;\n\t\t\t\t\t\toutput.push(\n\t\t\t\t\t\t\tstringFromCharCode(digitToBasic(t + qMinusT % baseMinusT, 0))\n\t\t\t\t\t\t);\n\t\t\t\t\t\tq = floor(qMinusT / baseMinusT);\n\t\t\t\t\t}\n\n\t\t\t\t\toutput.push(stringFromCharCode(digitToBasic(q, 0)));\n\t\t\t\t\tbias = adapt(delta, handledCPCountPlusOne, handledCPCount == basicLength);\n\t\t\t\t\tdelta = 0;\n\t\t\t\t\t++handledCPCount;\n\t\t\t\t}\n\t\t\t}\n\n\t\t\t++delta;\n\t\t\t++n;\n\n\t\t}\n\t\treturn output.join('');\n\t}\n\n\t/**\n\t * Converts a Punycode string representing a domain name or an email address\n\t * to Unicode. Only the Punycoded parts of the input will be converted, i.e.\n\t * it doesn't matter if you call it on a string that has already been\n\t * converted to Unicode.\n\t * @memberOf punycode\n\t * @param {String} input The Punycoded domain name or email address to\n\t * convert to Unicode.\n\t * @returns {String} The Unicode representation of the given Punycode\n\t * string.\n\t */\n\tfunction toUnicode(input) {\n\t\treturn mapDomain(input, function(string) {\n\t\t\treturn regexPunycode.test(string)\n\t\t\t\t? decode(string.slice(4).toLowerCase())\n\t\t\t\t: string;\n\t\t});\n\t}\n\n\t/**\n\t * Converts a Unicode string representing a domain name or an email address to\n\t * Punycode. Only the non-ASCII parts of the domain name will be converted,\n\t * i.e. it doesn't matter if you call it with a domain that's already in\n\t * ASCII.\n\t * @memberOf punycode\n\t * @param {String} input The domain name or email address to convert, as a\n\t * Unicode string.\n\t * @returns {String} The Punycode representation of the given domain name or\n\t * email address.\n\t */\n\tfunction toASCII(input) {\n\t\treturn mapDomain(input, function(string) {\n\t\t\treturn regexNonASCII.test(string)\n\t\t\t\t? 'xn--' + encode(string)\n\t\t\t\t: string;\n\t\t});\n\t}\n\n\t/*--*/\n\n\t/** Define the public API */\n\tpunycode = {\n\t\t/**\n\t\t * A string representing the current Punycode.js version number.\n\t\t * @memberOf punycode\n\t\t * @type String\n\t\t */\n\t\t'version': '1.3.2',\n\t\t/**\n\t\t * An object of methods to convert from JavaScript's internal character\n\t\t * representation (UCS-2) to Unicode code points, and back.\n\t\t * @see <https://mathiasbynens.be/notes/javascript-encoding>\n\t\t * @memberOf punycode\n\t\t * @type Object\n\t\t */\n\t\t'ucs2': {\n\t\t\t'decode': ucs2decode,\n\t\t\t'encode': ucs2encode\n\t\t},\n\t\t'decode': decode,\n\t\t'encode': encode,\n\t\t'toASCII': toASCII,\n\t\t'toUnicode': toUnicode\n\t};\n\n\t/** Expose `punycode` */\n\t// Some AMD build optimizers, like r.js, check for specific condition patterns\n\t// like the following:\n\tif (\n\t\ttypeof define == 'function' &&\n\t\ttypeof define.amd == 'object' &&\n\t\tdefine.amd\n\t) {\n\t\tdefine('punycode', function() {\n\t\t\treturn punycode;\n\t\t});\n\t} else if (freeExports && freeModule) {\n\t\tif (module.exports == freeExports) { // in Node.js or RingoJS v0.8.0+\n\t\t\tfreeModule.exports = punycode;\n\t\t} else { // in Narwhal or RingoJS v0.7.0-\n\t\t\tfor (key in punycode) {\n\t\t\t\tpunycode.hasOwnProperty(key) && (freeExports[key] = punycode[key]);\n\t\t\t}\n\t\t}\n\t} else { // in Rhino or a web browser\n\t\troot.punycode = punycode;\n\t}\n\n}(this));\n","'use strict';\n\nmodule.exports = {\n isString: function(arg) {\n   return typeof(arg) === 'string';\n },\n isObject: function(arg) {\n   return typeof(arg) === 'object' && arg !== null;\n },\n isNull: function(arg) {\n   return arg === null;\n },\n isNullOrUndefined: function(arg) {\n   return arg == null;\n }\n};\n","// Copyright Joyent, Inc. and other Node contributors.\n//\n// Permission is hereby granted, free of charge, to any person obtaining a\n// copy of this software and associated documentation files (the\n// \"Software\"), to deal in the Software without restriction, including\n// without limitation the rights to use, copy, modify, merge,

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 DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR\n// OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE\n// USE OR OTHER DEALINGS IN THE SOFTWARE.\n\n'use strict';\n\nvar punycode = require('punycode');\nvar util = require('./util');\n\nexports.parse = urlParse;\nexports.resolve = urlResolve;\nexports.resolveObject = urlResolveObject;\nexports.format = urlFormat;\n\nexports.Url = Url;\n\nfunction Url() {\n this.protocol = null;\n this.slashes = null;\n this.auth = null;\n this.host = null;\n this.port = null;\n this.hostname = null;\n this.hash = null;\n this.search = null;\n this.query = null;\n this.pathname = null;\n this.path = null;\n this.href = null;\n}\n\n// Reference: RFC 3986, RFC 1808, RFC 2396\n\n// define these here so at least they only have to be\n// compiled once on the first module load.\nvar protocolPattern = /^([a-z0-9.+-]+:)/i,\n   portPattern = /:[0-9]*$/,\n\n   // Special case for a simple path URL\n   simplePathPattern

 = /^(\/\/\/?(?!\/\/)[^\?\s]*)(\\?[^\s]*)?$/,\n\n   // RFC 2396: characters reserved for delimiting URLs.\n   // We actually just auto-escape these.\n   delims = ['<', '>', '\"', '`', ' ', '\r', '\n', '\t'],\n\n    // RFC 2396: characters not allowed for various reasons.\n    unwise = ['{', '}', '|', '\\\\', '^', '`'].concat(delims),\n\n   // Allowed by RFCs, but cause of XSS attacks. Always escape these.\n   autoEscape = ['\''].concat(unwise),\n   // Characters that are never ever allowed in a hostname.\n   // Note that any invalid chars are also handled, but these\n   // are the ones that are *expected* to be seen, so we fast-path\n   // them.\n   nonHostChars = ['%', '/', '?', ';', '#'].concat(autoEscape),\n   hostEndingChars = ['/', '?', '#'],\n   hostnameMaxLen = 255,\n   hostnamePartPattern = /^[+a-z0-9A-Z_-]{0,63}$/,\n   hostnamePartStart = /^([+a-z0-9A-Z_-]{0,63})(.*)$/,\n   // protocols that can allow \"unsafe\" and \"unwise\" chars.\n

unsafeProtocol = {\n   'javascript': true,\n   'javascript:': true\n   },\n   // protocols that never have a hostname.\n   hostlessProtocol = {\n   'javascript': true,\n   'javascript:': true\n   },\n   // protocols that always contain a // bit.\n   slashedProtocol = {\n   'http': true,\n   'https': true,\n   'ftp': true,\n   'gopher': true,\n   'file': true,\n   'http:': true,\n   'https:': true,\n   'ftp:': true,\n   'gopher:': true,\n   'file:': true\n   },\n   querystring = require('querystring');\n\nfunction urlParse(url, parseQueryString, slashesDenoteHost) {\n if (url && util.isObject(url) && url instanceof Url) return url;\n\n var u = new Url;\n u.parse(url, parseQueryString, slashesDenoteHost);\n return u;\n}\n\nUrl.prototype.parse = function(url, parseQueryString, slashesDenoteHost) {\n if (!util.isString(url)) {\n   throw new TypeError(\"Parameter 'url' must be a string, not \" + typeof url);\n }\n\n // Copy chrome, IE,

 opera backslash-handling behavior.\n // Back slashes before the query string get converted to forward slashes\n // See: https://code.google.com/p/chromium/issues/detail?id=25916\n var queryIndex = url.indexOf('?'),\n   splitter =\n   (queryIndex !== -1 && queryIndex < url.indexOf('#')) ? '?' : '#',\n   uSplit = url.split(splitter),\n   slashRegex = /\\\\/g;\n uSplit[0] = uSplit[0].replace(slashRegex, '/');\n url = uSplit.join(splitter);\n\n var rest = url;\n\n // trim before proceeding.\n // This is to support parse stuff like \" http://foo.com \\n\"\n rest = rest.trim();\n\n if (!slashesDenoteHost && url.split('#').length === 1) {\n   // Try fast path regexp\n   var simplePath = simplePathPattern.exec(rest);\n   if (simplePath) {\n   this.path = rest;\n   this.href = rest;\n   this.pathname = simplePath[1];\n   if (simplePath[2]) {\n   this.search = simplePath[2];\n   if (parseQueryString) {\n   this.query = querystring.parse(this.search.substr(1));\n

      } else {\n   this.query = this.search.substr(1);\n   }\n   } else if (parseQueryString) {\n   this.search = '';\n   this.query = {};\n   }\n   return this;\n }\n }\n\n var proto = protocolPattern.exec(rest);\n if (proto) {\n   proto = proto[0];\n   var lowerProto = proto.toLowerCase();\n   this.protocol = lowerProto;\n   rest = rest.substr(proto.length);\n }\n\n // figure out if it's got a host\n // user@server is *always* interpreted as a

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

 {\n\n   // there's a hostname.\n   // the first instance of /, ?, ;, or # ends the host.\n   //\n   // If there is an @ in the hostname, then non-host chars *are* allowed\n   // to the left of the last @ sign, unless some host-ending character\n   // comes *before* the @-sign.\n   // URLs are obnoxious.\n   //\n   // ex:\n   // http://a@b@c/ => user:a@b host:c\n   // http://a@b?@c => user:a host:c path:/?@c\n\n   // v0.12 TODO(isaacs): This is not quite how Chrome does things.\n   // Review our test case against browsers more comprehensively.\n\n   // find the first instance of any hostEndingChars\n   var hostEnd = -1;\n   for (var i = 0; i < hostEndingChars.length; i++) {\n   var hec = rest.indexOf(hostEndingChars[i]);\n   if (hec !== -1 && (hostEnd === -1 || hec < hostEnd))\n   hostEnd = hec;\n   }\n\n   // at this point, either we have an explicit point where the\n   // auth portion cannot go past, or the last @ char is the decider.\n   var

 auth, atSign;\n   if (hostEnd === -1) {\n   // atSign can be anywhere.\n   atSign = rest.lastIndexOf('@');\n   } else {\n   // atSign must be in auth portion.\n   // http://a@b/c@d => host:b auth:a path:/c@d\n   atSign = rest.lastIndexOf('@', hostEnd);\n   }\n\n   // Now we have a portion which is definitely the auth.\n   // Pull that off.\n   if (atSign !== -1) {\n   auth = rest.slice(0, atSign);\n   rest = rest.slice(atSign + 1);\n   this.auth = decodeURIComponent(auth);\n   }\n\n   // the host is the remaining to the left of the first non-host char\n   hostEnd = -1;\n   for (var i = 0; i < nonHostChars.length; i++) {\n   var hec = rest.indexOf(nonHostChars[i]);\n   if (hec !== -1 && (hostEnd === -1 || hec < hostEnd))\n   hostEnd = hec;\n   }\n   // if we still have not hit it, then the entire thing is a host.\n   if (hostEnd === -1)\n   hostEnd = rest.length;\n\n   this.host = rest.slice(0, hostEnd);\n   rest = rest.slice(hostEnd);\n\n

    // pull out port.\n   this.parseHost();\n\n   // we've indicated that there is a hostname,\n   // so even if it's empty, it has to be present.\n   this.hostname = this.hostname || '';\n\n   // if hostname begins with [and ends with]\n   // assume that it's an IPv6 address.\n   var ipv6Hostname = this.hostname[0] === '[' &&\n   this.hostname[this.hostname.length - 1] === ']';\n\n   // validate a little.\n   if (!ipv6Hostname) {\n   var hostparts = this.hostname.split(/\\./);\n   for (var i = 0, l = hostparts.length; i < l; i++) {\n   var part = hostparts[i];\n   if (!part) continue;\n   if (!part.match(hostnamePartPattern)) {\n   var newpart = '';\n   for (var j = 0, k = part.length; j < k; j++) {\n   if (part.charCodeAt(j) > 127) {\n   // we replace non-ASCII char with a temporary placeholder\n   // we need this to make sure size of hostname is not\n   // broken by replacing non-ASCII

 by nothing\n   newpart += 'x';\n   } else {\n   newpart += part[j];\n   }\n   }\n   // we test again with ASCII char only\n   if (!newpart.match(hostnamePartPattern)) {\n   var validParts = hostparts.slice(0, i);\n   var notHost = hostparts.slice(i + 1);\n   var bit = part.match(hostnamePartStart);\n   if (bit) {\n   validParts.push(bit[1]);\n   notHost.unshift(bit[2]);\n   }\n   if (notHost.length) {\n   rest = '/' + notHost.join('.') + rest;\n   }\n   this.hostname = validParts.join('.');\n   break;\n   }\n   }\n   }\n   }\n\n   if (this.hostname.length > hostnameMaxLen) {\n   this.hostname = '';\n   } else {\n   // hostnames are always lower case.\n   this.hostname = this.hostname.toLowerCase();\n   }\n\n   if (!ipv6Hostname) {\n   // IDNA Support: Returns a punycoded representation

 of \"domain\".\n   // It only converts parts of the domain name that\n   // have non-ASCII characters, i.e. it doesn't matter if\n   // you call it with a domain that already is ASCII-only.\n   this.hostname = punycode.toASCII(this.hostname);\n   }\n\n   var p = this.port ? ':' + this.port : '';\n   var h = this.hostname || '';\n   this.host = h + p;\n   this.href += this.host;\n\n   // strip [and] from the hostname\n   // the host field still retains them, though\n   if (ipv6Hostname) {\n   this.hostname = this.hostname.substr(1, this.hostname.length - 2);\n   if (rest[0] !== '/') {\n   rest = '/' + rest;\n   }\n   }\n }\n\n // now rest is set to the post-host stuff.\n // chop off any delim chars.\n if (!unsafeProtocol[lowerProto]) {\n\n   // First, make 100% sure that any \"autoEscape\" chars get\n

// escaped, even if encodeURIComponent doesn't think they\n   // need to be.\n   for (var i = 0, l = autoEscape.length; i < l; i++) {\n

    var ae = autoEscape[i];\n   if (rest.indexOf(ae) === -1)\n   continue;\n   var esc = encodeURIComponent(ae);\n   if (esc === ae) {\n   esc = escape(ae);\n   }\n   rest = rest.split(ae).join(esc);\n   }\n }\n\n\n // chop off from the tail first.\n var hash = rest.indexOf('#');\n if (hash !== -1) {\n   // got a fragment string.\n   this.hash = rest.substr(hash);\n   rest = rest.slice(0, hash);\n }\n var qm = rest.indexOf('?');\n if (qm !== -1) {\n   this.search = rest.substr(qm);\n   this.query = rest.substr(qm + 1);\n   if (parseQueryString) {\n   this.query = querystring.parse(this.query);\n   }\n   rest = rest.slice(0, qm);\n } else if (parseQueryString) {\n   // no query string, but parseQueryString still requested\n   this.search = '';\n   this.query = {};\n }\n if (rest) this.pathname = rest;\n if (slashedProtocol[lowerProto] &&\n   this.hostname && !this.pathname) {\n   this.pathname = '/';\n }\n\n //to support http.request\n

 if (this.pathname || this.search) {\n   var p = this.pathname || '';\n   var s = this.search || '';\n   this.path = p + s;\n }\n\n // finally, reconstruct the href based on what has been validated.\n this.href = this.format();\n return this;\n};\n\n// format a parsed object into a url string\nfunction urlFormat(obj) {\n // ensure it's an object, and not a string url.\n // If it's an obj, this is a no-op.\n // this way, you can call url_format() on strings\n // to clean up potentially wonky urls.\n if (util.isString(obj)) obj = urlParse(obj);\n if (!(obj instanceof Url)) return Url.prototype.format.call(obj);\n return obj.format();\n}\n\nUrl.prototype.format = function() {\n var auth = this.auth || '';\n if (auth) {\n   auth = encodeURIComponent(auth);\n   auth = auth.replace(/%3A/i, ':');\n   auth += '@';\n }\n\n var protocol = this.protocol || '',\n   pathname = this.pathname || '',\n   hash = this.hash || '',\n   host = false,\n   query = '';\n\n if (this.host) {\n   host = auth + this.host;\n } else if (this.hostname) {\n   host = auth + (this.hostname.indexOf(':') === -1 ?\n   this.hostname :\n   '[' + this.hostname + ']');\n   if (this.port) {\n   host += ':' + this.port;\n   }\n }\n\n if (this.query &&\n   util.isObject(this.query) &&\n   Object.keys(this.query).length) {\n   query = querystring.stringify(this.query);\n }\n\n var search = this.search || (query && ('?' + query)) || '';\n\n if (protocol && protocol.substr(-1) !== ':') protocol += ':';\n\n // only the slashedProtocols get the //. Not mailto:, xmpp:, etc.\n // unless they had them to begin with.\n if (this.slashes ||\n   (!protocol || slashedProtocol[protocol]) && host !== false) {\n   host = '//' + (host || '');\n   if (pathname && pathname.charAt(0) !== '/') pathname = '/' + pathname;\n } else if (!host) {\n   host = '';\n }\n\n if (hash && hash.charAt(0) !== '#') hash = '#' + hash;\n if (search && search.charAt(0)

 !== '?') search = '?' + search;\n\n pathname = pathname.replace(/[?#]/g, function(match) {\n   return encodeURIComponent(match);\n });\n search = search.replace('#', '%23');\n\n return protocol + host + pathname + search + hash;\n};\n\nfunction urlResolve(source, relative) {\n return urlParse(source, false, true).resolve(relative);\n}\n\nUrl.prototype.resolve = function(relative) {\n return this.resolveObject(urlParse(relative, false, true)).format();\n};\n\nfunction urlResolveObject(source, relative) {\n if (!source) return relative;\n return urlParse(source, false, true).resolveObject(relative);\n}\n\nUrl.prototype.resolveObject = function(relative) {\n if (util.isString(relative)) {\n   var rel = new Url();\n   rel.parse(relative, false, true);\n   relative = rel;\n }\n\n var result = new Url();\n var tkeys = Object.keys(this);\n for (var tk = 0; tk < tkeys.length; tk++) {\n   var tkey = tkeys[tk];\n   result[tkey] = this[tkey];\n }\n\n // hash is always overridden,

 no matter what.\n // even href=\"\" will remove it.\n result.hash = relative.hash;\n\n // if the relative url is empty, then there's nothing left to do here.\n if (relative.href === '') {\n   result.href = result.format();\n   return result;\n }\n\n // hrefs like //foo/bar always cut to the protocol.\n if (relative.slashes && !relative.protocol) {\n   // take everything except the protocol from relative\n   var rkeys = Object.keys(relative);\n   for (var rk = 0; rk < rkeys.length; rk++) {\n   var rkey = rkeys[rk];\n   if (rkey !== 'protocol')\n   result[rkey] = relative[rkey];\n   }\n\n   //urlParse appends trailing / to urls like http://www.example.com\n   if (slashedProtocol[result.protocol] &&\n   result.hostname && !result.pathname) {\n   result.path = result.pathname = '/';\n   }\n\n   result.href = result.format();\n   return result;\n }\n\n if (relative.protocol && relative.protocol !== result.protocol) {\n   // if it's a known url

protocol, then changing\n // the protocol does weird things\n // first, if it's not file:, then we MUST have a host,\n // and if there was a path\n // to begin with, then we MUST have a path.\n // if it is file:, then the host is dropped,\n // because that's known to be hostless.\n // anything else is assumed to be absolute.\n if (!slashedProtocol[relative.protocol]) {\n var keys = Object.keys(relative);\n for (var v = 0; v < keys.length; v++) {\n var k = keys[v];\n result[k] = relative[k];\n }\n result.href = result.format();\n return result;\n }\n\n result.protocol = relative.protocol;\n if (!relative.host && !hostlessProtocol[relative.protocol]) {\n var relPath = (relative.pathname || '').split('/');\n while (relPath.length && !(relative.host = relPath.shift()));\n if (!relative.host) relative.host = '';\n if (!relative.hostname) relative.hostname = '';\n if (relPath[0] !== '') relPath.unshift('');\n

if (relPath.length < 2) relPath.unshift('');\n result.pathname = relPath.join('/');\n } else {\n result.pathname = relative.pathname;\n }\n result.search = relative.search;\n result.query = relative.query;\n result.host = relative.host || '';\n result.auth = relative.auth;\n result.hostname = relative.hostname || relative.host;\n result.port = relative.port;\n // to support http.request\n if (result.pathname || result.search) {\n var p = result.pathname || '';\n var s = result.search || '';\n result.path = p + s;\n }\n result.slashes = result.slashes || relative.slashes;\n result.href = result.format();\n return result;\n }\n\n var isSourceAbs = (result.pathname && result.pathname.charAt(0) === '/'),\n isRelAbs = (\n relative.host ||\n relative.pathname && relative.pathname.charAt(0) === '/'\n),\n mustEndAbs = (isRelAbs || isSourceAbs ||\n (result.host

&& relative.pathname)),\n removeAllDots = mustEndAbs,\n srcPath = result.pathname && result.pathname.split('/') || [],\n relPath = relative.pathname && relative.pathname.split('/') || [],\n psychotic = result.protocol && !slashedProtocol[result.protocol];\n\n // if the url is a non-slashed url, then relative\n // links like ../.. should be able\n // to crawl up to the hostname, as well. This is strange.\n // result.protocol has already been set by now.\n // Later on, put the first path part into the host field.\n if (psychotic) {\n result.hostname = '';\n result.port = null;\n if (result.host) {\n if (srcPath[0] === '') srcPath[0] = result.host;\n else srcPath.unshift(result.host);\n }\n result.host = '';\n if (relative.protocol) {\n relative.hostname = null;\n relative.port = null;\n if (relative.host) {\n if (relPath[0] === '') relPath[0] = relative.host;\n else relPath.unshift(relative.host);\n

}\n relative.host = null;\n }\n mustEndAbs = mustEndAbs && (relPath[0] === '' || srcPath[0] === '');\n }\n\n if (isRelAbs) {\n // it's absolute.\n result.host = (relative.host || relative.host === '') ?\n relative.host : result.host;\n result.hostname = (relative.hostname || relative.hostname === '') ?\n relative.hostname : result.hostname;\n result.search = relative.search;\n result.query = relative.query;\n srcPath = relPath;\n // fall through to the dot-handling below.\n } else if (relPath.length) {\n // it's relative\n // throw away the existing file, and take the new path instead.\n if (!srcPath) srcPath = [];\n srcPath.pop();\n srcPath = srcPath.concat(relPath);\n result.search = relative.search;\n result.query = relative.query;\n } else if (!util.isNullOrUndefined(relative.search)) {\n // just pull out the search.\n // like href='?foo'.\n // Put this after the other two

cases because it simplifies the booleans\n if (psychotic) {\n result.hostname = result.host = srcPath.shift();\n //occationaly the auth can get stuck only in host\n //this especially happens in cases like\n //url.resolveObject('mailto:local1@domain1', 'local2@domain2')\n var authInHost = result.host &&\n result.host.indexOf('@') > 0 ?\n result.host.split('@') : false;\n if (authInHost) {\n result.auth = authInHost.shift();\n result.host = result.hostname = authInHost.shift();\n }\n }\n result.search = relative.search;\n result.query = relative.query;\n //to support http.request\n if (!util.isNull(result.pathname) || !util.isNull(result.search)) {\n result.path = (result.pathname ? result.pathname : '') +\n (result.search ? result.search : '');\n }\n result.href = result.format();\n return result;\n }\n\n if (!srcPath.length) {\n // no path at all. easy.\n //

we've already handled the other stuff above.\n result.pathname = null;\n //to support http.request\n if (result.search) {\n result.path = '/' + result.search;\n } else {\n result.path = null;\n }\n result.href = result.format();\n return result;\n }\n\n // if a url ENDs in . or .., then it must get a trailing slash.\n // however, if

it ends in anything else non-slashy,\n // then it must NOT get a trailing slash.\n var last = srcPath.slice(-1)[0];\n var hasTrailingSlash = (\n   (result.host || relative.host || srcPath.length > 1) &&\n   (last === '.' || last === '..') || last === ");\n\n // strip single dots, resolve double dots to parent dir\n // if the path tries to go above the root, `up` ends up > 0\n var up = 0;\n for (var i = srcPath.length; i >= 0; i--) {\n   last = srcPath[i];\n   if (last === '.') {\n srcPath.splice(i, 1);\n   } else if (last === '..') {\n   srcPath.splice(i, 1);\n   up++;\n   } else if (up) {\n   srcPath.splice(i, 1);\n   up--;\n   }\n }\n\n // if the path is allowed to go above the root, restore leading ..s\n if (!mustEndAbs && !removeAllDots) {\n   for (; up--; up) {\n   srcPath.unshift('..');\n   }\n }\n\n if (mustEndAbs && srcPath[0] !== " &&\n   (!srcPath[0] || srcPath[0].charAt(0) !== '/')) {\n   srcPath.unshift(");\n }\n\n if (hasTrailingSlash && (srcPath.join('/').substr(-1) !== '/')) {\n   srcPath.push(");\n }\n\n var isAbsolute = srcPath[0] === " ||\n   (srcPath[0] && srcPath[0].charAt(0) === '/');\n\n // put the host back\n if (psychotic) {\n   result.hostname = result.host = isAbsolute ? " :\n   srcPath.length ? srcPath.shift() : ";\n //occationaly the auth can get stuck only in host\n   //this especially happens in cases like\n //url.resolveObject('mailto:local1@domain1', 'local2@domain2')\n   var authInHost = result.host && result.host.indexOf('@') > 0 ?\n   result.host.split('@')

 : false;\n   if (authInHost) {\n   result.auth = authInHost.shift();\n   result.host = result.hostname = authInHost.shift();\n   }\n }\n\n mustEndAbs = mustEndAbs || (result.host && srcPath.length);\n\n if (mustEndAbs && !isAbsolute) {\n   srcPath.unshift(");\n }\n\n if (!srcPath.length) {\n   result.pathname = null;\n result.path = null;\n } else {\n   result.pathname = srcPath.join('/');\n }\n\n //to support request.http\n if (!util.isNull(result.pathname) || !util.isNull(result.search)) {\n   result.path = (result.pathname ? result.pathname : ")\n +\n   (result.search ? result.search : ");\n }\n result.auth = relative.auth || result.auth;\n result.slashes = result.slashes || relative.slashes;\n result.href = result.format();\n return result;\n};\n\nUrl.prototype.parseHost = function() {\n var host = this.host;\n var port = portPattern.exec(host);\n if (port) {\n   port = port[0];\n   if (port !== ':') {\n   this.port

 = port.substr(1);\n   }\n   host = host.substr(0, host.length - port.length);\n   }\n if (host) this.hostname = host;\n};\n","// @flow\n\nimport Reference from './reference/v8.json';\nimport type {StylePropertySpecification} from './style-spec';\nimport type {\n   StyleSpecification,\n   SourceSpecification,\n   LayerSpecification,\n   PropertyValueSpecification,\n   DataDrivenPropertyValueSpecification\n} from './types';\n\nfunction getPropertyReference(propertyName): StylePropertySpecification {\n   for (let i = 0; i < Reference.layout.length; i++) {\n   for (const key in Reference[Reference.layout[i]]) {\n   if (key === propertyName) return (Reference[Reference.layout[i]][key]: any);\n   }\n   }\n   for (let i = 0; i < Reference.paint.length; i++) {\n for (const key in Reference[Reference.paint[i]]) {\n   if (key === propertyName) return (Reference[Reference.paint[i]][key]: any);\n   }\n   }\n\n   return (null: any);\n}\n\nexport

 function eachSource(style: StyleSpecification, callback: (_: SourceSpecification) => void) {\n   for (const k in style.sources) {\n   callback(style.sources[k]);\n   }\n}\n\nexport function eachLayer(style: StyleSpecification, callback: (_: LayerSpecification) => void) {\n   for (const layer of style.layers) {\n   callback(layer);\n   }\n}\n\ntype PropertyCallback = ({\n   path: [string, 'paint' | 'layout', string], // [layerid, paint/layout, property key]\n   key: string,\n   value: PropertyValueSpecification<mixed> | DataDrivenPropertyValueSpecification<mixed>,\n   reference: StylePropertySpecification,\n   set: (PropertyValueSpecification<mixed> | DataDrivenPropertyValueSpecification<mixed>) => void\n}) => void;\n\nexport function eachProperty(\n   style: StyleSpecification,\n   options: {paint?: boolean, layout?: boolean},\n   callback: PropertyCallback\n) {\n   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","import URL from 'url';\nimport {eachSource, eachLayer, eachProperty} from '../visit';\n\nfunction eachLayout(layer, callback) {\n   for (const k in layer) {\n   if (k.indexOf('layout') === 0) {\n   callback(layer[k], k);\n   }\n   }\n}\n\nfunction

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

layers that are below another type (line, fill) of layer preserve their draw order.\n\n   let firstSymbolLayer = 0;\n for (let i = style.layers.length - 1; i >= 0; i--) {\n   const layer = style.layers[i];\n   if (layer.type !== 'symbol') {\n   firstSymbolLayer = i + 1;\n   break;\n   }\n   }\n\n   const symbolLayers = style.layers.splice(firstSymbolLayer);\n

    symbolLayers.reverse();\n   style.layers = style.layers.concat(symbolLayers);\n\n   return style;\n}\n","// @flow\n\nexport default function (output: any, ...inputs: Array<any>) {\n   for (const input of inputs) {\n   for (const k in input) {\n   output[k] = input[k];\n   }\n   }\n   return output;\n}\n","// @flow\n\nclass ParsingError extends Error {\n   key: string;\n   message: string;\n   constructor(key: string, message: string) {\n   super(message);\n   this.message = message;\n   this.key = key;\n   }\n}\n\nexport default ParsingError;\n","// @flow\n\nimport type {Expression} from './expression';\n\n/**\n * Tracks `let` bindings during expression parsing.\n * @private\n */\nclass Scope {\n   parent: ?Scope;\n   bindings: {[_: string]: Expression};\n   constructor(parent?: Scope, bindings: Array<[string, Expression]> = []) {\n   this.parent = parent;\n   this.bindings = {};\n   for (const [name, expression] of bindings)

 {\n   this.bindings[name] = expression;\n   }\n   }\n\n   concat(bindings: Array<[string, Expression]>) {\n   return new Scope(this, bindings);\n   }\n\n   get(name: string): Expression {\n   if (this.bindings[name]) { return this.bindings[name]; }\n   if (this.parent) { return this.parent.get(name); }\n   throw new Error(`${name} not found in scope.`);\n   }\n\n   has(name: string): boolean {\n   if (this.bindings[name]) return true;\n   return this.parent ? this.parent.has(name) : false;\n   }\n}\n\nexport default Scope;\n","// @flow\n\nexport type NullTypeT = { kind: 'null' };\nexport type NumberTypeT = { kind: 'number' };\nexport type StringTypeT = { kind: 'string' };\nexport type BooleanTypeT = { kind: 'boolean' };\nexport type ColorTypeT = { kind: 'color' };\nexport type ObjectTypeT = { kind: 'object' };\nexport type ValueTypeT = { kind: 'value' };\nexport type ErrorTypeT = { kind: 'error' };\nexport type CollatorTypeT =

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

 const ErrorType = {kind: 'error'};\nexport const CollatorType = {kind: 'collator'};\nexport const FormattedType = {kind: 'formatted'};\nexport const ResolvedImageType = {kind: 'resolvedImage'};\n\nexport function array(itemType: Type, N: ?number): ArrayType {\n   return {\n   kind: 'array',\n   itemType,\n   N\n   };\n}\n\nexport function toString(type: Type): string {\n   if (type.kind === 'array') {\n   const itemType = toString(type.itemType);\n   return typeof type.N === 'number' ?\n   `array<${itemType}, ${type.N}>` :\n   type.itemType.kind === 'value' ? 'array' : `array<${itemType}>`;\n   } else {\n   return type.kind;\n   }\n}\n\nconst valueMemberTypes = [\n   NullType,\n   NumberType,\n   StringType,\n   BooleanType,\n   ColorType,\n   FormattedType,\n   ObjectType,\n   array(ValueType),\n   ResolvedImageType\n];\n\n/**\n * Returns null if `t` is a subtype of `expected`; otherwise returns an\n * error message.\n

 * @private\n */\nexport function checkSubtype(expected: Type, t: Type): ?string {\n   if (t.kind === 'error') {\n   // Error is a subtype of every type\n   return null;\n   } else if (expected.kind === 'array') {\n   if (t.kind === 'array' &&\n   ((t.N === 0 && t.itemType.kind === 'value') || !checkSubtype(expected.itemType, t.itemType)) &&\n   (typeof expected.N !== 'number' || expected.N === t.N)) {\n   return null;\n   }\n   } else if (expected.kind === t.kind) {\n   return null;\n   } else if (expected.kind === 'value') {\n   for (const memberType of valueMemberTypes) {\n   if (!checkSubtype(memberType, t)) {\n   return null;\n   }\n   }\n   }\n\n   return `Expected ${toString(expected)} but found ${toString(t)} instead.`;\n}\n\nexport function isValidType(provided: Type, allowedTypes: Array<Type>): boolean {\n   return allowedTypes.some(t =>

t.kind === provided.kind);\n}\n\nexport

function isValidNativeType(provided: any, allowedTypes: Array<NativeType>): boolean {\n   return allowedTypes.some(t => {\n   if (t === 'null') {\n   return provided === null;\n   } else if (t === 'array') {\n   return Array.isArray(provided);\n   } else if (t === 'object') {\n   return provided && !Array.isArray(provided) && typeof provided === 'object';\n   } else {\n   return t === typeof provided;\n   }\n   });\n}\n","// (c) Dean McNamee <dean@gmail.com>, 2012.\n//\n// https://github.com/deanm/css-color-parser-js\n//\n// Permission is hereby granted, free of charge, to any person obtaining a copy\n// of this software and associated documentation files (the \"Software\"), to\n// deal in the Software without restriction, including without limitation the\n// rights to use, copy, modify, merge, publish, distribute, sublicense, and/or\n// sell copies of the Software, and to permit persons to whom the Software is\n// furnished

to do so, subject to the following conditions:\n//\n// The above copyright notice and this permission notice shall be included in\n// all copies or substantial portions of the Software.\n//\n// THE SOFTWARE IS PROVIDED \"AS IS\", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR\n// IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,\n// FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE\n// AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER\n// LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING\n// FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS\n// IN THE SOFTWARE.\n\n// http://www.w3.org/TR/css3-color/\nvar kCSSColorTable = {\n \"transparent\": [0,0,0,0], \"aliceblue\": [240,248,255,1],\n \"antiquewhite\": [250,235,215,1], \"aqua\": [0,255,255,1],\n \"aquamarine\": [127,255,212,1], \"azure\": [240,255,255,1],\n \"beige\": [245,245,220,1], \"bisque\": [255,228,196,1],\n

  \"black\": [0,0,0,1], \"blanchedalmond\": [255,235,205,1],\n \"blue\": [0,0,255,1], \"blueviolet\": [138,43,226,1],\n \"brown\": [165,42,42,1], \"burlywood\": [222,184,135,1],\n \"cadetblue\": [95,158,160,1], \"chartreuse\": [127,255,0,1],\n \"chocolate\": [210,105,30,1], \"coral\": [255,127,80,1],\n \"cornflowerblue\": [100,149,237,1], \"cornsilk\": [255,248,220,1],\n \"crimson\": [220,20,60,1], \"cyan\": [0,255,255,1],\n \"darkblue\": [0,0,139,1], \"darkcyan\": [0,139,139,1],\n \"darkgoldenrod\": [184,134,11,1], \"darkgray\": [169,169,169,1],\n \"darkgreen\": [0,100,0,1], \"darkgrey\": [169,169,169,1],\n \"darkkhaki\": [189,183,107,1], \"darkmagenta\": [139,0,139,1],\n \"darkolivegreen\": [85,107,47,1], \"darkorange\": [255,140,0,1],\n \"darkorchid\": [153,50,204,1], \"darkred\": [139,0,0,1],\n \"darksalmon\": [233,150,122,1], \"darkseagreen\": [143,188,143,1],\n \"darkslateblue\": [72,61,139,1], \"darkslategray\": [47,79,79,1],\n \"darkslategrey\": [47,79,79,1],\n

  \"darkturquoise\": [0,206,209,1],\n \"darkviolet\": [148,0,211,1], \"deeppink\": [255,20,147,1],\n \"deepskyblue\": [0,191,255,1], \"dimgray\": [105,105,105,1],\n \"dimgrey\": [105,105,105,1], \"dodgerblue\": [30,144,255,1],\n \"firebrick\": [178,34,34,1], \"floralwhite\": [255,250,240,1],\n \"forestgreen\": [34,139,34,1], \"fuchsia\": [255,0,255,1],\n \"gainsboro\": [220,220,220,1], \"ghostwhite\": [248,248,255,1],\n \"gold\": [255,215,0,1], \"goldenrod\": [218,165,32,1],\n \"gray\": [128,128,128,1], \"green\": [0,128,0,1],\n \"greenyellow\": [173,255,47,1], \"grey\": [128,128,128,1],\n \"honeydew\": [240,255,240,1], \"hotpink\": [255,105,180,1],\n \"indianred\": [205,92,92,1], \"indigo\": [75,0,130,1],\n \"ivory\": [255,255,240,1], \"khaki\": [240,230,140,1],\n \"lavender\": [230,230,250,1], \"lavenderblush\": [255,240,245,1],\n \"lawngreen\": [124,252,0,1], \"lemonchiffon\": [255,250,205,1],\n \"lightblue\": [173,216,230,1], \"lightcoral\": [240,128,128,1],\n \"lightcyan\":

  [224,255,255,1], \"lightgoldenrodyellow\": [250,250,210,1],\n \"lightgray\": [211,211,211,1], \"lightgreen\": [144,238,144,1],\n \"lightgrey\": [211,211,211,1], \"lightpink\": [255,182,193,1],\n \"lightsalmon\": [255,160,122,1], \"lightseagreen\": [32,178,170,1],\n \"lightskyblue\": [135,206,250,1], \"lightslategray\": [119,136,153,1],\n \"lightslategrey\": [119,136,153,1], \"lightsteelblue\": [176,196,222,1],\n \"lightyellow\": [255,255,224,1], \"lime\": [0,255,0,1],\n \"limegreen\": [50,205,50,1], \"linen\": [250,240,230,1], \"magenta\": [255,0,255,1], \"maroon\": [128,0,0,1],\n \"mediumaquamarine\": [102,205,170,1], \"mediumblue\": [0,0,205,1],\n \"mediumorchid\": [186,85,211,1], \"mediumpurple\": [147,112,219,1],\n \"mediumseagreen\": [60,179,113,1], \"mediumslateblue\": [123,104,238,1],\n \"mediumspringgreen\": [0,250,154,1], \"mediumturquoise\": [72,209,204,1],\n \"mediumvioletred\": [199,21,133,1], \"midnightblue\": [25,25,112,1],\n \"mintcream\":

[245,255,250,1],

\"mistyrose\": [255,228,225,1],\n \"moccasin\": [255,228,181,1], \"navajowhite\": [255,222,173,1],\n \"navy\": [0,0,128,1], \"oldlace\": [253,245,230,1],\n \"olive\": [128,128,0,1], \"olivedrab\": [107,142,35,1],\n \"orange\": [255,165,0,1], \"orangered\": [255,69,0,1],\n \"orchid\": [218,112,214,1], \"palegoldenrod\": [238,232,170,1],\n \"palegreen\": [152,251,152,1], \"paleturquoise\": [175,238,238,1],\n \"palevioletred\": [219,112,147,1], \"papayawhip\": [255,239,213,1],\n \"peachpuff\": [255,218,185,1], \"peru\": [205,133,63,1],\n \"pink\": [255,192,203,1], \"plum\": [221,160,221,1],\n \"powderblue\": [176,224,230,1], \"purple\": [128,0,128,1],\n \"rebeccapurple\": [102,51,153,1],\n \"red\": [255,0,0,1], \"rosybrown\": [188,143,143,1],\n \"royalblue\": [65,105,225,1], \"saddlebrown\": [139,69,19,1],\n \"salmon\": [250,128,114,1], \"sandybrown\": [244,164,96,1],\n \"seagreen\": [46,139,87,1], \"seashell\": [255,245,238,1],\n \"sienna\": [160,82,45,1], \"silver\": [192,192,192,1],\n \"skyblue\": [135,206,235,1], \"slateblue\": [106,90,205,1],\n \"slategray\": [112,128,144,1], \"slategrey\": [112,128,144,1],\n \"snow\": [255,250,250,1], \"springgreen\": [0,255,127,1],\n \"steelblue\": [70,130,180,1], \"tan\": [210,180,140,1],\n \"teal\": [0,128,128,1], \"thistle\": [216,191,216,1],\n \"tomato\": [255,99,71,1], \"turquoise\": [64,224,208,1],\n \"violet\": [238,130,238,1], \"wheat\": [245,222,179,1],\n \"white\": [255,255,255,1], \"whitesmoke\": [245,245,245,1],\n \"yellow\": [255,255,0,1], \"yellowgreen\": [154,205,50,1]}\n\nfunction clamp_css_byte(i) { // Clamp to integer 0 .. 255.\n i = Math.round(i); // Seems to be what Chrome does (vs truncation).\n return i < 0 ? 0 : i > 255 ? 255 : i;\n}\n\nfunction clamp_css_float(f) { // Clamp to float 0.0 .. 1.0.\n return f < 0 ? 0 : f > 1 ? 1 : f;\n}\n\nfunction parse_css_int(str) { // int or percentage.\n if (str[str.length - 1] === '%')\n   return clamp_css_byte(parseFloat(str) / 100 * 255);\n return clamp_css_byte(parseInt(str));\n}\n\nfunction parse_css_float(str) { // float or percentage.\n if (str[str.length - 1] === '%')\n   return clamp_css_float(parseFloat(str) / 100);\n return clamp_css_float(parseFloat(str));\n}\n\nfunction css_hue_to_rgb(m1, m2, h) {\n if (h < 0) h += 1;\n else if (h > 1) h -= 1;\n\n if (h * 6 < 1) return m1 + (m2 - m1) * h * 6;\n if (h * 2 < 1) return m2;\n if (h * 3 < 2) return m1 + (m2 - m1) * (2/3 - h) * 6;\n return m1;\n}\n\nfunction parseCSSColor(css_str) {\n // Remove all whitespace, not compliant, but should just be more accepting.\n var str = css_str.replace(/ /g, '').toLowerCase();\n\n // Color keywords (and transparent) lookup.\n if (str in kCSSColorTable) return kCSSColorTable[str].slice(); // dup.\n\n // #abc and #abc123 syntax.\n if (str[0] === '#') {\n   if (str.length === 4) {\n   var iv = parseInt(str.substr(1), 16); // TODO(deanm): Stricter parsing.\n   if (!(iv >= 0 && iv <= 0xfff)) return null; // Covers NaN.\n   return [((iv & 0xf00) >> 4) | ((iv & 0xf00) >> 8),\n   (iv & 0xf0) | ((iv & 0xf0) >> 4),\n   (iv & 0xf) | ((iv & 0xf) << 4),\n   1];\n   } else if (str.length === 7) {\n   var iv = parseInt(str.substr(1), 16); // TODO(deanm): Stricter parsing.\n   if (!(iv >= 0 && iv <= 0xffffff)) return null; // Covers NaN.\n   return [(iv & 0xff0000) >> 16,\n   (iv & 0xff00) >> 8,\n   iv & 0xff,\n   1];\n   }\n\n   return null;\n }\n\n var op = str.indexOf('('), ep = str.indexOf(')');\n if (op !== -1 && ep + 1 === str.length) {\n   var fname = str.substr(0, op);\n   var params = str.substr(op+1, ep-(op+1)).split(',');\n   var alpha = 1; // To allow case fallthrough.\n   switch (fname) {\n   case 'rgba':\n   if (params.length !== 4) return null;\n   alpha = parse_css_float(params.pop());\n   // Fall through.\n   case 'rgb':\n   if (params.length !== 3) return null;\n   return [parse_css_int(params[0]),\n   parse_css_int(params[1]),\n   parse_css_int(params[2]),\n   alpha];\n   case 'hsla':\n   if (params.length !== 4) return null;\n   alpha = parse_css_float(params.pop());\n   // Fall through.\n   case 'hsl':\n   if (params.length !== 3) return null;\n   var h = (((parseFloat(params[0]) % 360) + 360) % 360) / 360; // 0 .. 1\n   // NOTE(deanm): According to the CSS spec s/l should only be\n   // percentages, but we don't bother and let float or percentage.\n   var s = parse_css_float(params[1]);\n   var l = parse_css_float(params[2]);\n   var m2 = l <= 0.5 ? l * (s + 1) : l + s - l * s;\n   var m1 = l * 2 - m2;\n   return [clamp_css_byte(css_hue_to_rgb(m1, m2, h+1/3) * 255),\n   clamp_css_byte(css_hue_to_rgb(m1, m2, h) * 255),\n   clamp_css_byte(css_hue_to_rgb(m1, m2, h-1/3) * 255),\n   alpha];\n   default:\n   return null;\n   }\n }\n\n return null;\n}\n\ntry { exports.parseCSSColor = parseCSSColor } catch(e) { }\n","// @flow\n\nimport {parseCSSColor} from 'csscolorparser';\n\n/**\n * An RGBA color value. Create instances from color strings using the static\n * method `Color.parse`. The constructor accepts RGB channel

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

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    return this.sections.map(section
=> section.text).join(");\n    }\n\n    serialize(): Array<mixed> {\n        const serialized: Array<mixed> =
[\"format\"];\n        for (const section of this.sections) {\n            if (section.image) {\n
serialized.push([\"image\", section.image.name]);\n                continue;\n            }\n
serialized.push(section.text);\n            const options: { [key: string]: mixed } = {};\n            if (section.fontStack) {\n
    options[\"text-font\"] = [\"literal\", section.fontStack.split(',')];\n            }\n            if (section.scale) {\n
    options[\"font-scale\"] = section.scale;\n            }\n            if (section.textColor) {\n                options[\"text-
color\"] = ([\"rgba\"]: Array<mixed>).concat(section.textColor.toArray());\n            }\n
serialized.push(options);\n        }\n        return serialized;\n    }\n}\n","// @flow\n\nexport type
ResolvedImageOptions = {\n    name: string,\n
    available: boolean\n};\n\nexport default class ResolvedImage {\n    name: string;\n    available: boolean;\n\n
constructor(options: ResolvedImageOptions) {\n        this.name = options.name;\n        this.available =
options.available;\n    }\n\n    toString(): string {\n        return this.name;\n    }\n\n    static fromString(name: string):
ResolvedImage | null {\n        if (!name) return null; // treat empty values as no image\n        return new
ResolvedImage({name, available: false});\n    }\n\n    serialize(): Array<string> {\n        return [\"image\",
this.name];\n    }\n}\n","// @flow\n\nimport assert from 'assert';\nimport Color from '../util/color';\nimport Collator
from './types/collator';\nimport Formatted from './types/formatted';\nimport ResolvedImage from
'./types/resolved_image';\nimport {NullType, NumberType, StringType, BooleanType, ColorType, ObjectType,
ValueType, CollatorType, FormattedType, ResolvedImageType, array} from './types';\nimport type
{Type} from './types';\n\nexport function validateRGBA(r: mixed, g: mixed, b: mixed, a?: mixed): string | null {\n
if (!(\n        typeof r === 'number' && r >= 0 && r <= 255 &&\n        typeof g === 'number' && g >= 0 && g <=
255 &&\n        typeof b === 'number' && b >= 0 && b <= 255\n    )) {\n        const value = typeof a === 'number' ?
[r, g, b, a] : [r, g, b];\n        return `Invalid rgba value [${value.join(', ')}]: 'r', 'g', and 'b' must be between 0 and
255.`;\n    }\n\n    if (!(\n        typeof a === 'undefined' || (typeof a === 'number' && a >= 0 && a <= 1)\n    )) {\n
return `Invalid rgba value [${[r, g, b, a].join(', ')}]: 'a' must be between 0 and 1.`;\n    }\n\n    return
null;\n}\n\nexport type Value = null | string | boolean | number | Color | Collator | Formatted | ResolvedImage |
$ReadOnlyArray<Value> | { +[string]: Value }\n\nexport function isValue(mixed: mixed): boolean {\n    if (mixed
=== null) {\n        return true;\n    } else if (typeof mixed
=== 'string') {\n        return true;\n    } else if (typeof mixed === 'boolean') {\n        return true;\n    } else if (typeof
mixed === 'number') {\n        return true;\n    } else if (mixed instanceof Color) {\n        return true;\n    } else if
(mixed instanceof Collator) {\n        return true;\n    } else if (mixed instanceof Formatted) {\n        return true;\n    }
else if (mixed instanceof ResolvedImage) {\n        return true;\n    } else if (Array.isArray(mixed)) {\n        for (const
item of mixed) {\n            if (!isValue(item)) {\n                return false;\n            }\n        }\n        return true;\n    }
else if (typeof mixed === 'object') {\n        for (const key in mixed) {\n            if (!isValue(mixed[key])) {\n
return false;\n            }\n        }\n        return true;\n    } else {\n        return false;\n    }\n}\n\nexport function
typeOf(value: Value): Type {\n    if (value === null) {\n        return NullType;\n    } else if (typeof
 value === 'string') {\n        return StringType;\n    } else if (typeof value === 'boolean') {\n        return
BooleanType;\n    } else if (typeof value === 'number') {\n        return NumberType;\n    } else if (value instanceof
Color) {\n        return ColorType;\n    } else if (value instanceof Collator) {\n        return CollatorType;\n    } else if
(value instanceof Formatted) {\n        return FormattedType;\n    } else if (value instanceof ResolvedImage) {\n
return ResolvedImageType;\n    } else if (Array.isArray(value)) {\n        const length = value.length;\n        let
itemType: Type | typeof undefined;\n\n        for (const item of value) {\n            const t = typeOf(item);\n            if
(!itemType) {\n                itemType = t;\n            } else if (itemType === t) {\n                continue;\n            } else {\n
        itemType = ValueType;\n                break;\n            }\n        }\n\n        return array(itemType || ValueType,
 length);\n    } else {\n        assert(typeof value === 'object');\n        return ObjectType;\n    }\n}\n\nexport function
toString(value: Value) {\n    const type = typeof value;\n    if (value === null) {\n        return ";\n    } else if (type
=== 'string' || type === 'number' || type === 'boolean') {\n        return String(value);\n    } else if (value instanceof
Color || value instanceof Formatted || value instanceof ResolvedImage) {\n        return value.toString();\n    } else {\n
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return JSON.stringify(value);\n   }\n}\n\nexport {Color, Collator};\n","// @flow\n\nimport assert from 'assert';\nimport {isValue, typeOf, Color} from '../values';\nimport Formatted from '../types/formatted';\nimport type {Type} from '../types';\nimport type {Value} from '../values';\nimport type {Expression} from '../expression';\nimport type ParsingContext from '../parsing_context';\n\nclass Literal implements Expression {\n   type: Type;\n   value: Value;\n\n   constructor(type: Type,
value: Value) {\n   this.type = type;\n   this.value = value;\n   }\n\n   static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n   if (args.length !== 2)\n   return context.error(`'literal' expression requires exactly one argument, but found ${args.length - 1} instead.`);\n\n   if (!isValue(args[1]))\n   return context.error(`invalid value`);\n\n   const value = (args[1]: any);\n   let type = typeOf(value);\n\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 &&   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\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   return context.error('The length argument to \"array\" must be a positive integer literal', 2);\n   }\n   N = args[2];\n   i++;\n   }\n\n   type = array(itemType, N);\n   } else {\n   assert(types[name], name);\n   type = types[name];\n   }\n\n   const parsed = [];\n   for (; i < args.length; i++) {\n   const input = context.parse(args[i], i, ValueType);\n   if (!input) return null;\n   parsed.push(input);\n   }\n\n   return new Assertion(type, parsed);\n   }\n\n   evaluate(ctx: EvaluationContext) {\n   for (let i = 0; i < this.args.length; i++) {\n   const value = this.args[i].evaluate(ctx);\n   const error = checkSubtype(this.type, typeOf(value));\n   if (!error) {\n

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

fn(section.textColor);\n   }\n   }\n   }\n\n   outputDefined() {\n   // Technically the combinatoric set of all children\n   // Usually, this.text will be undefined anyway\n   return false;\n   }\n\n   serialize() {\n   const serialized = [\"format\"];\n   for (const section of this.sections) {\n   serialized.push(section.content.serialize());\n

            const options = {};\n   if (section.scale) {\n   options['font-scale'] = section.scale.serialize();\n   }\n   if (section.font) {\n   options['text-font'] = section.font.serialize();\n   }\n   if (section.textColor) {\n   options['text-color'] = section.textColor.serialize();\n   }\n   serialized.push(options);\n   }\n   return serialized;\n   }\n}\n","// @flow\n\nimport {ResolvedImageType, StringType} from '../types';\nimport ResolvedImage from '../types/resolved_image';\nimport type {Expression} from '../expression';\nimport type EvaluationContext from '../evaluation_context';\nimport type ParsingContext from '../parsing_context';\nimport type {Type} from '../types';\n\nexport default class ImageExpression implements Expression {\n   type: Type;\n   input: Expression;\n\n   constructor(input: Expression) {\n   this.type = ResolvedImageType;\n   this.input

 = input;\n   }\n\n   static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n   if (args.length !== 2) {\n   return context.error(`Expected two arguments.`);\n   }\n\n   const name = context.parse(args[1], 1, StringType);\n   if (!name) return context.error(`No image name provided.`);\n\n   return new ImageExpression(name);\n   }\n\n   evaluate(ctx: EvaluationContext) {\n   const evaluatedImageName = this.input.evaluate(ctx);\n\n   const value = ResolvedImage.fromString(evaluatedImageName);\n   if (value && ctx.availableImages) value.available = ctx.availableImages.indexOf(evaluatedImageName) > -1;\n   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\",\n * \"to-color\". Since these coercions can fail at runtime, they accept multiple\n * arguments, only evaluating one at a time until one succeeds.\n *\n * @private\n */\nclass Coercion implements Expression {\n   type: Type;\n   args: Array<Expression>;\n\n   constructor(type: Type, args: Array<Expression>) {\n   this.type = type;\n   this.args = args;\n   }\n\n   static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n   if (args.length < 2)\n   return context.error(`Expected at least one argument.`);\n\n   const name: string = (args[0]: any);\n   assert(types[name], name);\n\n   if ((name === 'to-boolean' || name === 'to-string') && args.length !== 2)\n   return context.error(`Expected one argument.`);\n\n   const type = types[name];\n\n   const parsed = [];\n   for (let i = 1; i < args.length; i++) {\n   const input = context.parse(args[i], i, ValueType);\n   if (!input) return null;\n   parsed.push(input);\n   }\n\n

    return new Coercion(type, parsed);\n   }\n\n   evaluate(ctx: EvaluationContext) {\n   if (this.type.kind === 'boolean') {\n   return Boolean(this.args[0].evaluate(ctx));\n   } else if (this.type.kind === 'color') {\n   let input;\n   let error;\n   for (const arg of this.args) {\n   input = arg.evaluate(ctx);\n   error = null;\n   if (input instanceof Color) {\n   return input;\n   } else if (typeof input === 'string') {\n   const c = ctx.parseColor(input);\n   if (c) return c;\n   } else if (Array.isArray(input)) {\n   if (input.length < 3 || input.length > 4) {\n   error = `Invalid rbga value ${JSON.stringify(input)}: expected an array containing either three or four numeric values.`;\n   }

else {\n   error = validateRGBA(input[0], input[1], input[2], input[3]);\n   }\n   if (!error) {\n   return new Color((input[0]: any) / 255, (input[1]: any) / 255, (input[2]: any) / 255, (input[3]: any));\n   }\n   }\n   }\n   throw new RuntimeError(error || `Could not parse color from value '${typeof input === 'string' ? input : String(JSON.stringify(input))}`);\n   } else if (this.type.kind === 'number') {\n   let value = null;\n   for (const arg of this.args) {\n   value = arg.evaluate(ctx);\n   if (value === null) return 0;\n   const num = Number(value);\n   if (isNaN(num)) continue;\n   return num;\n   }\n   throw new RuntimeError(`Could not convert ${JSON.stringify(value)} to number.`);\n   } else if (this.type.kind === 'formatted') {\n   // There is no explicit 'to-formatted' but this coercion can be implicitly\n   // created by properties that expect the 'formatted' type.\n   return Formatted.fromString(valueToString(this.args[0].evaluate(ctx)));\n   } else if (this.type.kind === 'resolvedImage') {\n   return ResolvedImage.fromString(valueToString(this.args[0].evaluate(ctx)));\n   } else {\n   return valueToString(this.args[0].evaluate(ctx));\n   }\n   }\n\n   eachChild(fn: (_: Expression) => void) {\n   this.args.forEach(fn);\n   }\n\n   outputDefined(): boolean {\n   return this.args.every(arg => arg.outputDefined());\n   }\n\n   serialize() {\n   if (this.type.kind === 'formatted') {\n   return new FormatExpression([{content: this.args[0], scale: null, font: null, textColor: null}]).serialize();\n   }\n\n   if (this.type.kind === 'resolvedImage') {\n   return new ImageExpression(this.args[0]).serialize();\n   }\n\n   const serialized = [`to-${this.type.kind}`];\n   this.eachChild(child => { serialized.push(child.serialize()); });\n   return serialized;\n   }\n}\n\nexport default Coercion;\n","// @flow\n\nimport {Color} from './values';\nimport type {FormattedSection} from './types/formatted';\nimport type {GlobalProperties, Feature, FeatureState} from './index';\nimport type {CanonicalTileID} from '../../source/tile_id';\n\nconst geometryTypes = ['Unknown', 'Point', 'LineString', 'Polygon'];\n\nclass EvaluationContext {\n   globals: GlobalProperties;\n   feature: ?Feature;\n   featureState: ?FeatureState;\n   formattedSection: ?FormattedSection;\n   availableImages: ?Array<string>;\n   canonical: ?CanonicalTileID;\n\n   _parseColorCache: {[_: string]: ?Color};\n   constructor() {\n   this.globals = (null: any);\n   this.feature = null;\n   this.featureState = null;\n   this.formattedSection = null;\n   this._parseColorCache = {};\n   this.availableImages = null;\n   this.canonical = null;\n   }\n\n   id() {\n   return this.feature && 'id' in this.feature ? this.feature.id : null;\n   }\n\n   geometryType() {\n   return this.feature ? typeof this.feature.type === 'number' ? geometryTypes[this.feature.type] : this.feature.type : null;\n   }\n\n   geometry() {\n   return this.feature && 'geometry' in this.feature ? this.feature.geometry : null;\n   }\n\n   canonicalID() {\n   return this.canonical;\n   }\n\n   properties() {\n   return this.feature && this.feature.properties || {};\n   }\n\n   parseColor(input: string): ?Color {\n   let cached = this._parseColorCache[input];\n   if (!cached) {\n   cached = this._parseColorCache[input] = Color.parse(input);\n   }\n   return cached;\n   }\n}\n\nexport default EvaluationContext;\n","// @flow\n\nimport {toString} from './types';\nimport ParsingContext from './parsing_context';\nimport EvaluationContext from './evaluation_context';\nimport assert from 'assert';\n\nimport type {Expression, ExpressionRegistry} from './expression';\nimport type {Type} from './types';\nimport type {Value} from './values';\n\nexport type Varargs = {| type: Type |};\ntype Signature = Array<Type> | Varargs;\ntype Evaluate = (EvaluationContext, Array<Expression>) => Value;\ntype Definition = [Type, Signature, Evaluate] |\n   {|type: Type, overloads: Array<[Signature, Evaluate]>|};\n\nclass CompoundExpression implements Expression {\n   name: string;\n   type: Type;\n   _evaluate: Evaluate;\n   args: Array<Expression>;\n\n   static definitions: {[_: string]: Definition };\n\n   constructor(name: string, type: Type, evaluate: Evaluate, args: Array<Expression>) {\n   this.name = name;\n   this.type = type;\n   this._evaluate = evaluate;\n   this.args = args;\n   }\n\n   evaluate(ctx: EvaluationContext) {\n   return this._evaluate(ctx, this.args);\n   }\n\n   eachChild(fn: (_: Expression) => void) {\n   this.args.forEach(fn);\n   }\n\n   outputDefined() {\n   return false;\n   }\n\n   serialize(): Array<mixed> {\n   return [this.name].concat(this.args.map(arg => arg.serialize()));\n   }\n\n   static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression {\n   const op: string = (args[0]: any);\n   const definition = CompoundExpression.definitions[op];\n   if

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

object.`);\n\n   const caseSensitive = context.parse(\n   options['case-sensitive'] === undefined ? false : options['case-sensitive'], 1, BooleanType);\n

  if (!caseSensitive) return null;\n\n   const diacriticSensitive = context.parse(\n   options['diacritic-sensitive'] === undefined ? false : options['diacritic-sensitive'], 1, BooleanType);\n   if (!diacriticSensitive) return null;\n\n   let locale = null;\n   if (options['locale']) {\n   locale = context.parse(options['locale'], 1, StringType);\n   if (!locale) return null;\n   }\n\n   return new CollatorExpression(caseSensitive, diacriticSensitive, locale);\n   }\n\n   evaluate(ctx: EvaluationContext) {\n   return new Collator(this.caseSensitive.evaluate(ctx), this.diacriticSensitive.evaluate(ctx), this.locale ? this.locale.evaluate(ctx) : null);\n   }\n\n   eachChild(fn: (_: Expression) => void) {\n   fn(this.caseSensitive);\n   fn(this.diacriticSensitive);\n   if (this.locale) {\n   fn(this.locale);\n   }\n   }\n\n   outputDefined() {\n   // Technically the set of possible outputs

 is the combinatoric set of Collators produced\n   // by all possible outputs of locale/caseSensitive/diacriticSensitive\n   // But for the primary use of Collators in comparison operators, we ignore the Collator's\n   // possible outputs anyway, so we can get away with leaving this false for now.\n   return false;\n   }\n\n   serialize() {\n   const options = {};\n   options['case-sensitive'] = this.caseSensitive.serialize();\n   options['diacritic-sensitive'] = this.diacriticSensitive.serialize();\n   if (this.locale) {\n   options['locale'] = this.locale.serialize();\n   }\n   return [\"collator\", options];\n   }\n}\n","// @flow\n\nimport {isValue} from '../values';\nimport type {Type} from '../types';\nimport {BooleanType} from '../types';\nimport type {Expression} from '../expression';\nimport type ParsingContext from '../parsing_context';\nimport type EvaluationContext from '../evaluation_context';\nimport type {GeoJSON, GeoJSONPolygon, GeoJSONMultiPolygon} from '@mapbox/geojson-types';\nimport Point from '@mapbox/point-geometry';\nimport type {CanonicalTileID} from '../../../source/tile_id';\n\ntype GeoJSONPolygons =| GeoJSONPolygon | GeoJSONMultiPolygon;\n\n// minX, minY, maxX, maxY\ntype BBox = [number, number, number, number];\nconst EXTENT = 8192;\nfunction updateBBox(bbox: BBox, coord: Point) {\n   bbox[0] = Math.min(bbox[0], coord[0]);\n   bbox[1] = Math.min(bbox[1], coord[1]);\n   bbox[2] = Math.max(bbox[2], coord[0]);\n   bbox[3] = Math.max(bbox[3], coord[1]);\n}\n\nfunction mercatorXfromLng(lng: number) {\n   return (180 + lng) / 360;\n}\n\nfunction mercatorYfromLat(lat: number) {\n   return (180 - (180 / Math.PI * Math.log(Math.tan(Math.PI / 4 + lat * Math.PI / 360)))) / 360;\n}\n\nfunction boxWithinBox(bbox1: BBox, bbox2: BBox) {\n   if (bbox1[0] <= bbox2[0]) return false;\n   if (bbox1[2] >= bbox2[2]) return false;\n   if (bbox1[1] <= bbox2[1]) return false;\n   if (bbox1[3]

 >= bbox2[3]) return false;\n   return true;\n}\n\nfunction getTileCoordinates(p, canonical: CanonicalTileID) {\n   const x = mercatorXfromLng(p[0]);\n   const y = mercatorYfromLat(p[1]);\n   const tilesAtZoom = Math.pow(2, canonical.z);\n   return [Math.round(x * tilesAtZoom * EXTENT), Math.round(y * tilesAtZoom * EXTENT)];\n}\n\nfunction onBoundary(p, p1, p2) {\n   const x1 = p[0] - p1[0];\n   const y1 = p[1] - p1[1];\n   const x2 = p[0] - p2[0];\n   const y2 = p[1] - p2[1];\n   return (x1 * y2 - x2 * y1 === 0) && (x1 * x2 <= 0) && (y1 * y2 <= 0);\n}\n\nfunction rayIntersect(p, p1, p2) {\n   return ((p1[1] > p[1]) !== (p2[1] > p[1])) && (p[0] < (p2[0] - p1[0]) * (p[1] - p1[1]) / (p2[1] - p1[1]) + p1[0]);\n}\n\n// ray casting algorithm for detecting if point is in polygon\nfunction pointWithinPolygon(point, rings) {\n   let inside = false;\n   for (let i = 0, len = rings.length; i < len; i++) {\n   const ring = rings[i];\n   for (let j = 0, len2 = ring.length; j

 < len2 - 1; j++) {\n   if (onBoundary(point, ring[j], ring[j + 1])) return false;\n   if (rayIntersect(point, ring[j], ring[j + 1])) inside = !inside;\n   }\n   }\n   return inside;\n}\n\nfunction pointWithinPolygons(point, polygons) {\n   for (let i = 0; i < polygons.length; i++) {\n   if (pointWithinPolygon(point, polygons[i])) return true;\n   }\n   return false;\n}\n\nfunction perp(v1, v2) {\n   return (v1[0] * v2[1] - v1[1] * v2[0]);\n}\n\n// check if p1 and p2 are in different sides of line segment q1->q2\nfunction twoSided(p1, p2, q1, q2) {\n   // q1->p1 (x1, y1), q1->p2 (x2, y2), q1->q2 (x3, y3)\n   const x1 = p1[0] - q1[0];\n   const y1 = p1[1] - q1[1];\n   const x2 = p2[0] - q1[0];\n   const y2 = p2[1] - q1[1];\n   const x3 = q2[0] - q1[0];\n   const y3 = q2[1] - q1[1];\n   const det1 = (x1 * y3 - x3 * y1);\n   const det2 = (x2 * y3 - x3 * y2);\n   if ((det1 > 0 && det2 < 0) || (det1 < 0 && det2 > 0)) return true;\n   return false;\n}\n//

a, b are end points for line segment1, c and d are end points for line segment2\nfunction lineIntersectLine(a, b, c, d) {\n   // check if two segments are parallel or not\n   // precondition is end point a, b is inside polygon, if line a->b is\n   // parallel to polygon edge c->d, then a->b won't intersect with c->d\n   const vectorP = [b[0] - a[0], b[1] - a[1]];\n   const vectorQ = [d[0] - c[0], d[1] - c[1]];\n   if (perp(vectorQ, vectorP) === 0) return false;\n\n   // If lines are intersecting with each other, the relative location should be:\n   // a and b lie in different sides of segment c->d\n   // c and d lie in different sides of segment a->b\n   if (twoSided(a, b, c, d) && twoSided(c, d, a, b)) return true;\n   return false;\n}\n\nfunction lineIntersectPolygon(p1, p2, polygon) {\n   for (const ring of polygon) {\n   // loop through every edge of the ring\n   for (let j = 0; j < ring.length - 1; ++j) {\n   if (lineIntersectLine(p1, p2, ring[j], ring[j + 1])) {\n   return true;\n   }\n   }\n   }\n   return false;\n}\n\nfunction lineStringWithinPolygon(line, polygon) {\n   // First, check if geometry points of line segments are all inside polygon\n   for (let i = 0; i < line.length; ++i) {\n   if (!pointWithinPolygon(line[i], polygon)) {\n   return false;\n   }\n   }\n\n   // Second, check if there is line segment intersecting polygon edge\n   for (let i = 0; i < line.length - 1; ++i) {\n   if (lineIntersectPolygon(line[i], line[i + 1], polygon)) {\n   return false;\n   }\n   }\n   return true;\n}\n\nfunction lineStringWithinPolygons(line, polygons) {\n   for (let i = 0; i < polygons.length; i++) {\n   if (lineStringWithinPolygon(line, polygons[i])) return true;\n   }\n   return false;\n}\n\nfunction getTilePolygon(coordinates, bbox, canonical) {\n   const polygon = [];\n   for (let i = 0; i < coordinates.length; i++) {\n   const ring

= [];\n   for (let j = 0; j < coordinates[i].length; j++) {\n   const coord = getTileCoordinates(coordinates[i][j], canonical);\n   updateBBox(bbox, coord);\n   ring.push(coord);\n   }\n   polygon.push(ring);\n   }\n   return polygon;\n}\n\nfunction getTilePolygons(coordinates, bbox, canonical) {\n   const polygons = [];\n   for (let i = 0; i < coordinates.length; i++) {\n   const polygon = getTilePolygon(coordinates[i], bbox, canonical);\n   polygons.push(polygon);\n   }\n   return polygons;\n}\n\nfunction updatePoint(p, bbox, polyBBox, worldSize) {\n   if (p[0] < polyBBox[0] || p[0] > polyBBox[2]) {\n   const halfWorldSize = worldSize * 0.5;\n   let shift = (p[0] - polyBBox[0] > halfWorldSize) ? -worldSize : (polyBBox[0] - p[0] > halfWorldSize) ? worldSize : 0;\n   if (shift === 0) {\n   shift = (p[0] - polyBBox[2] > halfWorldSize) ? -worldSize : (polyBBox[2] - p[0] > halfWorldSize) ? worldSize : 0;\n

        }\n   p[0] += shift;\n   }\n   updateBBox(bbox, p);\n}\n\nfunction resetBBox(bbox) {\n   bbox[0] = bbox[1] = Infinity;\n   bbox[2] = bbox[3] = -Infinity;\n}\n\nfunction getTilePoints(geometry, pointBBox, polyBBox, canonical) {\n   const worldSize = Math.pow(2, canonical.z) * EXTENT;\n   const shifts = [canonical.x * EXTENT, canonical.y * EXTENT];\n   const tilePoints = [];\n   for (const points of geometry) {\n   for (const point of points) {\n   const p = [point.x + shifts[0], point.y + shifts[1]];\n   updatePoint(p, pointBBox, polyBBox, worldSize);\n   tilePoints.push(p);\n   }\n   }\n   return tilePoints;\n}\n\nfunction getTileLines(geometry, lineBBox, polyBBox, canonical) {\n   const worldSize = Math.pow(2, canonical.z) * EXTENT;\n   const shifts = [canonical.x * EXTENT, canonical.y * EXTENT];\n   const tileLines = [];\n   for (const line of geometry) {\n   const tileLine = [];\n   for (const point of line)

 {\n   const p = [point.x + shifts[0], point.y + shifts[1]];\n   updateBBox(lineBBox, p);\n   tileLine.push(p);\n   }\n   tileLines.push(tileLine);\n   }\n   if (lineBBox[2] - lineBBox[0] <= worldSize / 2) {\n   resetBBox(lineBBox);\n   for (const line of tileLines) {\n   for (const p of line) {\n   updatePoint(p, lineBBox, polyBBox, worldSize);\n   }\n   }\n   }\n   return tileLines;\n}\n\nfunction pointsWithinPolygons(ctx: EvaluationContext, polygonGeometry: GeoJSONPolygons) {\n   const pointBBox = [Infinity, Infinity, -Infinity, -Infinity];\n   const polyBBox = [Infinity, Infinity, -Infinity, -Infinity];\n\n   const canonical = ctx.canonicalID();\n\n   if (polygonGeometry.type === 'Polygon') {\n   const tilePolygon = getTilePolygon(polygonGeometry.coordinates, polyBBox, canonical);\n   const tilePoints = getTilePoints(ctx.geometry(), pointBBox, polyBBox, canonical);\n   if (!boxWithinBox(pointBBox, polyBBox)) return false;\n\n   for (const point of tilePoints) {\n   if (!pointWithinPolygon(point, tilePolygon)) return false;\n   }\n   }\n   if (polygonGeometry.type === 'MultiPolygon') {\n   const tilePolygons = getTilePolygons(polygonGeometry.coordinates, polyBBox, canonical);\n   const tilePoints =

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

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

Within) {\n   return false;\n   }\n\n   const isTypeAnnotation = expression instanceof Coercion ||\n expression instanceof Assertion;\n\n   let childrenConstant = true;\n   expression.eachChild(child => {\n   // We can _almost_ assume that if `expressions` children are constant,\n   // they would already have been evaluated to Literal values when they\n   // were parsed. Type annotations are the exception, because they might\n   // have been inferred and added after a child was parsed.\n\n   // So we recurse into isConstant() for the children of type annotations,\n   // but otherwise simply check whether they are Literals.\n   if (isTypeAnnotation) {\n

childrenConstant = childrenConstant && isConstant(child);\n   } else {\n   childrenConstant = childrenConstant && child instanceof Literal;\n   }\n   });\n   if (!childrenConstant) {\n   return false;\n   }\n\n   return isFeatureConstant(expression)\n   &&\n   isGlobalPropertyConstant(expression, ['zoom', 'heatmap-density', 'line-progress', 'accumulated', 'is-supported-script']);\n}\n\n","// @flow\n\nimport RuntimeError from './runtime_error';\n\nimport type {Expression} from './expression';\n\nexport type Stops = Array<[number, Expression]>;\n\n/**\n * Returns the index of the last stop <= input, or 0 if it doesn't exist.\n * @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\n","// @flow\n\nimport {NumberType} from '../types';\n\nimport {findStopLessThanOrEqualTo} from '../stops';\nimport type {Stops} from '../stops';\nimport type {Expression} from '../expression';\nimport type ParsingContext from '../parsing_context';\nimport type EvaluationContext from '../evaluation_context';\nimport type {Type} from '../types';\n\nclass Step implements Expression {\n   type: Type;\n   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   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   {\n   if (i > 0) {\n   serialized.push(this.labels[i]);\n   }\n   serialized.push(this.outputs[i].serialize());\n

}\n   return serialized;\n   }\n}\n\nexport default Step;\n","/*\n * Copyright (C) 2008 Apple Inc. All Rights Reserved.\n *\n * Redistribution and use in source and binary forms, with or without\n * modification, are permitted provided that the following conditions\n * are met:\n * 1. Redistributions of source code must retain the above copyright\n *   notice, this list of conditions and the following disclaimer.\n * 2. Redistributions in binary form must reproduce the above copyright\n *   notice, this list of conditions and the following disclaimer in the\n * documentation and/or other materials provided with the distribution.\n *\n * THIS SOFTWARE IS PROVIDED BY APPLE INC. ``AS IS'' AND ANY\n * EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE\n * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR\n * PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL APPLE INC. OR\n * CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,\n * EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,\n * PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR\n * PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY\n * OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT\n * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE\n * OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.\n *\n * Ported from Webkit\n * http://svn.webkit.org/repository/webkit/trunk/Source/WebCore/platform/graphics/UnitBezier.h\n */\n\nmodule.exports = UnitBezier;\n\nfunction UnitBezier(p1x, p1y, p2x, p2y) {\n   // Calculate the polynomial coefficients, implicit first and last control points are (0,0) and (1,1).\n   this.cx = 3.0 * p1x;\n   this.bx = 3.0 * (p2x - p1x) - this.cx;\n   this.ax = 1.0 - this.cx - this.bx;\n\n   this.cy = 3.0 * p1y;\n   this.by = 3.0 * (p2y - p1y) - this.cy;\n   this.ay = 1.0 - this.cy - this.by;\n\n   this.p1x = p1x;\n   this.p1y = p1y;\n   this.p2x = p2x;\n   this.p2y = p2y;\n}\n\nUnitBezier.prototype.sampleCurveX = function(t) {\n   // `ax t^3 + bx t^2 + cx t' expanded using Horner's rule.\n   return ((this.ax * t + this.bx) * t + this.cx) * t;\n};\n\nUnitBezier.prototype.sampleCurveY = function(t) {\n   return ((this.ay * t + this.by) * t + this.cy) * t;\n};\n\nUnitBezier.prototype.sampleCurveDerivativeX = function(t) {\n   return (3.0 * this.ax * t + 2.0 * this.bx) * t + this.cx;\n};\n\nUnitBezier.prototype.solveCurveX = function(x, epsilon) {\n   if (typeof epsilon === 'undefined') epsilon = 1e-6;\n\n   var t0, t1, t2, x2, i;\n\n   // First try a few iterations of Newton's method -- normally very fast.\n   for (t2 = x, i = 0; i < 8; i++) {\n\n   x2 = this.sampleCurveX(t2) - x;\n   if (Math.abs(x2) < epsilon) return t2;\n\n   var d2 = this.sampleCurveDerivativeX(t2);\n   if (Math.abs(d2) < 1e-6) break;\n\n   t2 = t2 - x2 / d2;\n   }\n\n   // Fall back to the bisection method for reliability.\n   t0 = 0.0;\n   t1 = 1.0;\n   t2 = x;\n\n   if (t2 < t0) return t0;\n   if (t2 > t1) return t1;\n\n   while (t0 < t1) {\n\n   x2 = this.sampleCurveX(t2);\n   if (Math.abs(x2 - x) < epsilon) return t2;\n\n   if (x > x2) {\n   t0 = t2;\n   } else {\n   t1 = t2;\n   }\n\n   t2 = (t1 - t0) * 0.5 + t0;\n   }\n\n   // Failure.\n   return t2;\n};\n\nUnitBezier.prototype.solve = function(x, epsilon) {\n   return this.sampleCurveY(this.solveCurveX(x, epsilon));\n};\n","// @flow\n\nimport Color from './color';\n\nexport function number(a: number, b: number, t: number) {\n   return (a * (1 - t)) + (b * t);\n}\n\nexport function color(from: Color, to: Color, t: number) {\n   return new Color(\n   number(from.r, to.r, t),\n   number(from.g, to.g, t),\n   number(from.b, to.b, t),\n   number(from.a, to.a, t)\n   );\n}\n\nexport function array(from: Array<number>, to: Array<number>, t: number): Array<number> {\n   return from.map((d, i) => {\n   return number(d, to[i], t);\n   });\n}\n","// @flow\n\nimport Color from './color';\nimport {number as interpolateNumber} from './interpolate';\n\ntype LABColor = {\n   l: number,\n   a: number,\n   b: number,\n   alpha: number\n};\n\ntype HCLColor = {\n   h: number,\n   c: number,\n   l: number,\n   alpha: number\n};\n\n// Constants\nconst Xn = 0.950470, // D65 standard referent\n   Yn = 1,\n   Zn = 1.088830,\n   t0 = 4 / 29,\n   t1 = 6 / 29,\n   t2 = 3 * t1 * t1,\n   t3 = t1 * t1 * t1,\n   deg2rad = Math.PI / 180,\n   rad2deg = 180 / Math.PI;\n\n// Utilities\nfunction xyz2lab(t: number) {\n   return t > t3 ? Math.pow(t, 1 / 3) : t / t2 + t0;\n}\n\nfunction lab2xyz(t: number) {\n   return t > t1 ? t * t * t : t2 * (t - t0);\n}\n\nfunction xyz2rgb(x: number) {\n   return 255 * (x <= 0.0031308 ? 12.92 * x : 1.055 * Math.pow(x, 1 / 2.4) - 0.055);\n}\n\nfunction rgb2xyz(x: number) {\n   x /= 255;\n   return x <=

0.04045 ? x / 12.92 : Math.pow((x + 0.055) / 1.055, 2.4);\n}\n\n// LAB\nfunction rgbToLab(rgbColor: Color): LABColor {\n   const b = rgb2xyz(rgbColor.r),\n   a = rgb2xyz(rgbColor.g),\n   l = rgb2xyz(rgbColor.b),\n   x = xyz2lab((0.4124564 * b + 0.3575761 * a + 0.1804375 * l) / Xn),\n   y = xyz2lab((0.2126729 * b + 0.7151522 * a + 0.0721750 * l) / Yn),\n   z = xyz2lab((0.0193339 * b + 0.1191920 * a + 0.9503041 * l) / Zn);\n\n   return {\n   l: 116 * y - 16,\n   a: 500 * (x - y),\n   b: 200 * (y - z),\n   alpha: rgbColor.a\n   };\n}\n\nfunction labToRgb(labColor: LABColor): Color {\n   let y = (labColor.l + 16) / 116,\n   x = isNaN(labColor.a) ? y : y + labColor.a / 500,\n   z = isNaN(labColor.b) ? y : y - labColor.b / 200;\n   y = Yn * lab2xyz(y);\n   x = Xn * lab2xyz(x);\n   z = Zn * lab2xyz(z);\n   return new Color(\n   xyz2rgb(3.2404542 * x - 1.5371385 * y - 0.4985314 * z), // D65 -> sRGB\n   xyz2rgb(-0.9692660
 * x + 1.8760108 * y + 0.0415560 * z),\n   xyz2rgb(0.0556434 * x - 0.2040259 * y + 1.0572252 * z),\n labColor.alpha\n   );\n}\n\nfunction interpolateLab(from: LABColor, to: LABColor, t: number) {\n   return {\n   l: interpolateNumber(from.l, to.l, t),\n   a: interpolateNumber(from.a, to.a, t),\n   b: interpolateNumber(from.b, to.b, t),\n   alpha: interpolateNumber(from.alpha, to.alpha, t)\n   };\n}\n\n// HCL\nfunction rgbToHcl(rgbColor: Color): HCLColor {\n   const {l, a, b} = rgbToLab(rgbColor);\n   const h = Math.atan2(b, a) * rad2deg;\n   return {\n   h: h < 0 ? h + 360 : h,\n   c: Math.sqrt(a * a + b * b),\n   l,\n   alpha: rgbColor.a\n   };\n}\n\nfunction hclToRgb(hclColor: HCLColor): Color {\n   const h = hclColor.h * deg2rad,\n   c = hclColor.c,\n   l = hclColor.l;\n   return labToRgb({\n   l,\n   a: Math.cos(h) * c,\n   b: Math.sin(h) * c,\n   alpha: hclColor.alpha\n   });\n}\n\nfunction
 interpolateHue(a: number, b: number, t: number) {\n   const d = b - a;\n   return a + t * (d > 180 || d < -180 ? d - 360 * Math.round(d / 360) : d);\n}\n\nfunction interpolateHcl(from: HCLColor, to: HCLColor, t: number) {\n   return {\n   h: interpolateHue(from.h, to.h, t),\n   c: interpolateNumber(from.c, to.c, t),\n   l: interpolateNumber(from.l, to.l, t),\n   alpha: interpolateNumber(from.alpha, to.alpha, t)\n   };\n}\n\nexport const lab = {\n   forward: rgbToLab,\n   reverse: labToRgb,\n   interpolate: interpolateLab\n};\n\nexport const hcl = {\n   forward: rgbToHcl,\n   reverse: hclToRgb,\n   interpolate: interpolateHcl\n};\n","// @flow\n\nimport UnitBezier from '@mapbox/unitbezier';\n\nimport * as interpolate from '../../util/interpolate';\nimport {toString, NumberType, ColorType} from '../types';\nimport {findStopLessThanOrEqualTo} from '../stops';\nimport {hcl, lab} from '../../util/color_spaces';\nimport type {Stops} from '../stops';\nimport type
 {Expression} from '../expression';\nimport type ParsingContext from '../parsing_context';\nimport type EvaluationContext from '../evaluation_context';\nimport type {Type} from '../types';\n\nexport type InterpolationType =\n   { name: 'linear' } |\n   { name: 'exponential', base: number } |\n   { name: 'cubic-bezier', controlPoints: [number, number, number, number] };\n\nclass Interpolate implements Expression {\n   type: Type;\n\n   operator: 'interpolate' | 'interpolate-hcl' | 'interpolate-lab';\n   interpolation: InterpolationType;\n   input: Expression;\n   labels: Array<number>;\n   outputs: Array<Expression>;\n\n   constructor(type: Type, operator: 'interpolate' | 'interpolate-hcl' | 'interpolate-lab', interpolation: InterpolationType, input: Expression, stops: Stops) {\n   this.type = type;\n   this.operator = operator;\n   this.interpolation = interpolation;\n   this.input = input;\n\n   this.labels = [];\n   this.outputs = [];\n
    for (const [label, expression] of stops) {\n   this.labels.push(label);\n   this.outputs.push(expression);\n   }\n   }\n\n   static interpolationFactor(interpolation: InterpolationType, input: number, lower: number, upper: number) {\n   let t = 0;\n   if (interpolation.name === 'exponential') {\n   t = exponentialInterpolation(input, interpolation.base, lower, upper);\n   } else if (interpolation.name === 'linear') {\n   t = exponentialInterpolation(input, 1, lower, upper);\n   } else if (interpolation.name === 'cubic-bezier') {\n   const c = interpolation.controlPoints;\n   const ub = new UnitBezier(c[0], c[1], c[2], c[3]);\n   t = ub.solve(exponentialInterpolation(input, 1, lower, upper));\n   }\n   return t;\n   }\n\n   static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n   let [operator, interpolation, input, ...rest] = args;\n\n   if (!Array.isArray(interpolation)
|| interpolation.length === 0) {\n   return context.error(`Expected an interpolation type expression.`, 1);\n   }\n\n   if (interpolation[0] === 'linear') {\n   interpolation = {name: 'linear'};\n   } else if (interpolation[0] === 'exponential') {\n   const base = interpolation[1];\n   if (typeof base !== 'number')\n   return

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

Returns

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

   = (y1 - y0) * (base^x - base^x0) / (base^x1 - base^x0)\n * ```\n *\n * If we let `(base^x - base^x0) / (base^x1 base^x0)`, then we have\n * `f(x) = y0 + (y1 - y0) * ratio`. In other words, `ratio` may be treated as\n * an interpolation factor between the two stops' output values.\n *\n * (Note: a slightly different form for `ratio`,\n * `(base^(x-x0) - 1) / (base^(x1-x0) - 1) `, is equivalent, but requires fewer\n * expensive `Math.pow()` operations.)\n *\n * @private\n*/\nfunction exponentialInterpolation(input, base, lowerValue, upperValue) {\n   const difference = upperValue - lowerValue;\n   const progress = input - lowerValue;\n\n   if (difference === 0) {\n   return 0;\n   } else if (base === 1) {\n   return progress / difference;\n   } else {\n   return (Math.pow(base, progress) - 1) / (Math.pow(base, difference) - 1);\n   }\n}\n\nexport default Interpolate;\n","// @flow\n\nimport assert from 'assert';\n\nimport {checkSubtype, ValueType} from '../types';\n\nimport ResolvedImage from '../types/resolved_image';\n\nimport type {Expression} from '../expression';\n\nimport type ParsingContext from '../parsing_context';\n\nimport type EvaluationContext from '../evaluation_context';\n\nimport type {Type} from '../types';\n\nclass Coalesce implements Expression {\n   type: Type;\n   args: Array<Expression>;\n\n   constructor(type: Type, args: Array<Expression>) {\n   this.type = type;\n   this.args = args;\n   }\n\n   static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n   if (args.length < 2) {\n   return context.error(\"Expectected at least one argument.\");\n   }\n   let outputType: Type = (null: any);\n   const expectedType = context.expectedType;\n   if (expectedType && expectedType.kind !== 'value') {\n   outputType = expectedType;\n   }\n   const parsedArgs = [];\n\n   for (const arg of args.slice(1)) {\n   const parsed = context.parse(arg, 1 +

 parsedArgs.length, outputType, undefined, {typeAnnotation: 'omit'});\n   if (!parsed) return null;\n   outputType = outputType || parsed.type;\n   parsedArgs.push(parsed);\n   }\n   assert(outputType);\n\n   // Above, we parse arguments without inferred type annotation so that\n   // they don't produce a runtime error for `null` input, which would\n   // preempt the desired null-coalescing behavior.\n   // Thus, if any of our arguments would have needed an annotation, we\n   // need to wrap the enclosing coalesce expression with it instead.\n   const needsAnnotation = expectedType &&\n   parsedArgs.some(arg => checkSubtype(expectedType, arg.type));\n\n   return needsAnnotation ?\n   new Coalesce(ValueType, parsedArgs) :\n   new Coalesce((outputType: any), parsedArgs);\n   }\n\n   evaluate(ctx: EvaluationContext) {\n   let result = null;\n   let argCount = 0;\n   let requestedImageName;\n

       for (const arg of this.args) {\n   argCount++;\n   result = arg.evaluate(ctx);\n   // we need to keep track of the first requested image in a coalesce statement\n   // if coalesce can't find a valid image, we return the first image name so styleimagemissing can fire\n   if (result && result instanceof ResolvedImage && !result.available) {\n   if (!requestedImageName) {\n   requestedImageName = result.name;\n   }\n   result = null;\n   if (argCount === this.args.length) {\n   result = requestedImageName;\n   }\n   }\n\n   if (result !== null) break;\n   }\n   return result;\n   }\n\n   eachChild(fn: (_: Expression) => void) {\n   this.args.forEach(fn);\n   }\n\n   outputDefined(): boolean {\n   return this.args.every(arg => arg.outputDefined());\n   }\n\n   serialize() {\n

   const serialized = [\"coalesce\"];\n   this.eachChild(child => { serialized.push(child.serialize()); });\n   return serialized;\n   }\n}\n\nexport default Coalesce;\n","// @flow\n\nimport type {Type} from '../types';\n\nimport type {Expression} from '../expression';\n\nimport type ParsingContext from '../parsing_context';\n\nimport type

EvaluationContext from '../evaluation_context';\n\nclass Let implements Expression {\n   type: Type;\n   bindings: Array<[string, Expression]>;\n   result: Expression;\n\n   constructor(bindings: Array<[string, Expression]>, result: Expression) {\n   this.type = result.type;\n   this.bindings = [].concat(bindings);\n   this.result = result;\n   }\n\n   evaluate(ctx: EvaluationContext) {\n   return this.result.evaluate(ctx);\n   }\n\n   eachChild(fn: (_: Expression) => void) {\n   for (const binding of this.bindings) {\n   fn(binding[1]);\n   }\n   fn(this.result);\n   }\n\n   static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n   if (args.length < 4)\n   return context.error(`Expected at least 3 arguments, but found ${args.length - 1} instead.`);\n\n   const bindings: Array<[string, Expression]> = [];\n   for (let i = 1; i < args.length - 1; i += 2) {\n   const name = args[i];\n\n   if (typeof name !== 'string') {\n   return context.error(`Expected string, but found ${typeof name} instead.`, i);\n   }\n\n   if (/[^a-zA-Z0-9_]/.test(name)) {\n   return context.error(`Variable names must contain only alphanumeric characters or '_'.`, i);\n   }\n\n   const value = context.parse(args[i + 1], i + 1);\n   if (!value) return null;\n\n   bindings.push([name, value]);\n   }\n\n   const result = context.parse(args[args.length - 1], args.length - 1, context.expectedType, bindings);\n   if (!result) return null;\n\n   return new Let(bindings, result);\n   }\n\n   outputDefined() {\n   return this.result.outputDefined();\n   }\n\n   serialize() {\n   const serialized = [\"let\"];\n   for (const [name, expr] of this.bindings) {\n   serialized.push(name, expr.serialize());\n   }\n   serialized.push(this.result.serialize());\n   return serialized;\n   }\n}\n\nexport default Let;\n","// @flow\n\nimport {array, ValueType, NumberType} from '../types';\nimport RuntimeError from '../runtime_error';\nimport type {Expression} from '../expression';\nimport type ParsingContext from '../parsing_context';\nimport type EvaluationContext from '../evaluation_context';\nimport type {Type, ArrayType} from '../types';\nimport type {Value} from '../values';\n\nclass At implements Expression {\n   type: Type;\n   index: Expression;\n   input: Expression;\n\n   constructor(type: Type, index: Expression, input: Expression) {\n   this.type = type;\n   this.index = index;\n   this.input = input;\n   }\n\n   static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n   if (args.length !== 3)\n   return context.error(`Expected 2 arguments, but found ${args.length - 1} instead.`);\n\n   const index = context.parse(args[1], 1, NumberType);\n   const input = context.parse(args[2], 2, array(context.expectedType || ValueType));\n\n   if (!index || !input) return null;\n\n   const t: ArrayType = (input.type: any);\n   return new At(t.itemType, index, input);\n   }\n\n   evaluate(ctx: EvaluationContext) {\n   const index = ((this.index.evaluate(ctx): any): number);\n   const array = ((this.input.evaluate(ctx): any): Array<Value>);\n\n   if (index < 0) {\n   throw new RuntimeError(`Array index out of bounds: ${index} < 0.`);\n   }\n\n   if (index >= array.length) {\n   throw new RuntimeError(`Array index out of bounds: ${index} > ${array.length - 1}.`);\n   }\n\n   if (index !== Math.floor(index)) {\n   throw new RuntimeError(`Array index must be an integer, but found ${index} instead.`);\n   }\n\n   return array[index];\n   }\n\n   eachChild(fn: (_: Expression) => void) {\n   fn(this.index);\n   fn(this.input);\n   }\n\n   outputDefined() {\n   return false;\n   }\n\n   serialize() {\n   return [\"at\", this.index.serialize(), this.input.serialize()];\n   }\n}\n\nexport default At;\n","// @flow\n\nimport {BooleanType, StringType, ValueType, NullType, toString, NumberType, isValidType, isValidNativeType} from '../types';\nimport RuntimeError from '../runtime_error';\nimport {typeOf} from '../values';\nimport type {Expression} from '../expression';\nimport type ParsingContext from '../parsing_context';\nimport type EvaluationContext from '../evaluation_context';\nimport type {Type} from '../types';\n\nclass In implements Expression {\n   type: Type;\n   needle: Expression;\n   haystack: Expression;\n\n   constructor(needle: Expression, haystack: Expression) {\n   this.type = BooleanType;\n   this.needle = needle;\n   this.haystack = haystack;\n   }\n\n   static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n   if (args.length !== 3) {\n   return context.error(`Expected 2 arguments, but found ${args.length - 1} instead.`);\n   }\n\n   const needle = context.parse(args[1], 1, ValueType);\n\n   const haystack = context.parse(args[2], 2, ValueType);\n   if (!needle || !haystack) return null;\n\n   if (!isValidType(needle.type, [BooleanType, StringType, NumberType, NullType, ValueType])) {\n   return

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

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

{BooleanType} from '../types';\n\nimport type {Expression} from '../expression';\nimport type ParsingContext from '../parsing_context';\nimport type EvaluationContext from '../evaluation_context';\nimport type {Type} from '../types';\n\ntype Branches = Array<[Expression, Expression]>;\n\nclass Case implements Expression {\n   type: Type;\n\n   branches: Branches;\n   otherwise: Expression;\n\n   constructor(type: Type, branches: Branches, otherwise: Expression) {\n   this.type = type;\n   this.branches = branches;\n   this.otherwise = otherwise;\n   }\n\n   static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n   if (args.length < 4)\n   return context.error(`Expected at least 3 arguments, but found only ${args.length - 1}.`);\n   if (args.length % 2 !== 0)\n   return context.error(`Expected an odd number of arguments.`);\n\n   let outputType: ?Type;\n   if (context.expectedType && context.expectedType.kind !== 'value') {\n   outputType = context.expectedType;\n   }\n\n   const branches = [];\n   for (let i = 1; i < args.length - 1; i += 2) {\n   const test = context.parse(args[i], i, BooleanType);\n   if (!test) return null;\n\n   const result = context.parse(args[i + 1], i + 1, outputType);\n   if (!result) return null;\n\n   branches.push([test, result]);\n   outputType = outputType || result.type;\n   }\n\n   const otherwise = context.parse(args[args.length - 1], args.length - 1, outputType);\n   if (!otherwise) return null;\n\n   assert(outputType);\n   return new Case((outputType: any), branches, otherwise);\n   }\n\n   evaluate(ctx: EvaluationContext) {\n   for (const [test, expression] of this.branches) {\n   if (test.evaluate(ctx)) {\n   return expression.evaluate(ctx);\n   }\n   }\n   return this.otherwise.evaluate(ctx);\n   }\n\n   eachChild(fn: (_: Expression) => void) {\n   for (const [test, expression] of this.branches) {\n   fn(test);\n   fn(expression);\n   }\n   fn(this.otherwise);\n   }\n\n   outputDefined(): boolean {\n   return this.branches.every(([_, out]) => out.outputDefined()) && this.otherwise.outputDefined();\n   }\n\n   serialize() {\n   const serialized = [\"case\"];\n   this.eachChild(child => { serialized.push(child.serialize()); });\n   return serialized;\n   }\n}\n\nexport default Case;\n","// @flow\n\nimport {ValueType, NumberType, StringType, array, toString, isValidType, isValidNativeType} from '../types';\nimport RuntimeError from '../runtime_error';\nimport {typeOf} from '../values';\n\nimport type {Expression} from '../expression';\nimport type ParsingContext from '../parsing_context';\nimport type EvaluationContext from '../evaluation_context';\nimport type {Type} from '../types';\n\nclass Slice implements Expression {\n   type: Type;\n   input: Expression;\n   beginIndex: Expression;\n   endIndex: ?Expression;\n\n   constructor(type: Type, input: Expression, beginIndex: Expression, endIndex?: Expression) {\n   this.type = type;\n   this.input = input;\n   this.beginIndex = beginIndex;\n   this.endIndex = endIndex;\n   }\n\n   static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n   if (args.length <= 2 || args.length >= 5) {\n   return context.error(`Expected 3 or 4 arguments, but found ${args.length - 1} instead.`);\n   }\n\n   const input = context.parse(args[1], 1, ValueType);\n   const beginIndex = context.parse(args[2], 2, NumberType);\n\n   if (!input || !beginIndex) return null;\n\n   if (!isValidType(input.type, [array(ValueType), StringType, ValueType])) {\n   return context.error(`Expected first argument to be of type array or string, but found ${toString(input.type)} instead`);\n   }\n\n   if (args.length === 4) {\n   const endIndex = context.parse(args[3], 3, NumberType);\n   if (!endIndex) return null;\n   return new Slice(input.type, input, beginIndex, endIndex);\n   } else {\n   return new Slice(input.type, input, beginIndex);\n   }\n   }\n\n   evaluate(ctx: EvaluationContext) {\n   const input = (this.input.evaluate(ctx): any);\n   const beginIndex = (this.beginIndex.evaluate(ctx): number);\n\n   if (!isValidNativeType(input, ['string', 'array'])) {\n   throw new RuntimeError(`Expected first argument to be of type array or string, but found ${toString(typeOf(input))} instead.`);\n   }\n\n   if (this.endIndex) {\n   const endIndex = (this.endIndex.evaluate(ctx): number);\n   return input.slice(beginIndex, endIndex);\n   }\n\n   return input.slice(beginIndex);\n   }\n\n   eachChild(fn: (_: Expression) => void) {\n   fn(this.input);\n   fn(this.beginIndex);\n   if (this.endIndex) {\n   fn(this.endIndex);\n   }\n   }\n\n   outputDefined() {\n   return false;\n   }\n\n   serialize() {\n   if (this.endIndex != null && this.endIndex !== undefined) {\n   const endIndex = this.endIndex.serialize();\n   return [\"slice\", this.input.serialize(), this.beginIndex.serialize(), endIndex];\n   }\n   return [\"slice\", this.input.serialize(), this.beginIndex.serialize()];\n   }\n}\n\nexport

default Slice;\n","//

 @flow\n\nimport {toString, ValueType, BooleanType, CollatorType} from '../types';\nimport Assertion from './assertion';\nimport {typeOf} from '../values';\nimport RuntimeError from '../runtime_error';\n\nimport type {Expression} from '../expression';\nimport type EvaluationContext from '../evaluation_context';\nimport type ParsingContext from '../parsing_context';\nimport type {Type} from '../types';\n\ntype ComparisonOperator = '==' | '!=' | '<' | '>' | '<=' | '>=' ;\n\nfunction isComparableType(op: ComparisonOperator, type: Type) {\n   if (op === '==' || op === '!=') {\n   // equality operator\n   return type.kind === 'boolean' ||\n   type.kind === 'string' ||\n   type.kind === 'number' ||\n   type.kind === 'null' ||\n   type.kind === 'value';\n   } else {\n   // ordering operator\n   return type.kind === 'string' ||\n   type.kind === 'number' ||\n   type.kind === 'value';\n   }\n}\n\nfunction eq(ctx,

 a, b) { return a === b; }\nfunction neq(ctx, a, b) { return a !== b; }\nfunction lt(ctx, a, b) { return a < b; }\nfunction gt(ctx, a, b) { return a > b; }\nfunction lteq(ctx, a, b) { return a <= b; }\nfunction gteq(ctx, a, b) { return a >= b; }\n\nfunction eqCollate(ctx, a, b, c) { return c.compare(a, b) === 0; }\nfunction neqCollate(ctx, a, b, c) { return !eqCollate(ctx, a, b, c); }\nfunction ltCollate(ctx, a, b, c) { return c.compare(a, b) < 0; }\nfunction gtCollate(ctx, a, b, c) { return c.compare(a, b) > 0; }\nfunction lteqCollate(ctx, a, b, c) { return c.compare(a, b) <= 0; }\nfunction gteqCollate(ctx, a, b, c) { return c.compare(a, b) >= 0; }\n\n/**\n * Special form for comparison operators, implementing the signatures:\n * - (T, T, ?Collator) => boolean\n * - (T, value, ?Collator) => boolean\n * - (value, T, ?Collator) => boolean\n *\n * For inequalities, T must be either value, string, or number. For ==/!=, it\n * can also be boolean or null.\n *\n * Equality semantics are

 equivalent to Javascript's strict equality (===/!==)\n * -- i.e., when the arguments' types don't match, == evaluates to false, != to\n * true.\n *\n * When types don't match in an ordering comparison, a runtime error is thrown.\n *\n * @private\n */\nfunction makeComparison(op: ComparisonOperator, compareBasic, compareWithCollator) {\n   const isOrderComparison = op !== '==' && op !== '!=';\n\n   return class Comparison implements Expression {\n   type: Type;\n   lhs: Expression;\n   rhs: Expression;\n   collator: ?Expression;\n   hasUntypedArgument: boolean;\n\n   constructor(lhs: Expression, rhs: Expression, collator: ?Expression) {\n   this.type = BooleanType;\n   this.lhs = lhs;\n   this.rhs = rhs;\n   this.collator = collator;\n   this.hasUntypedArgument = lhs.type.kind === 'value' || rhs.type.kind === 'value';\n   }\n\n   static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext): ?Expression

 {\n   if (args.length !== 3 && args.length !== 4)\n   return context.error(`Expected two or three arguments.`);\n\n   const op: ComparisonOperator = (args[0]: any);\n\n   let lhs = context.parse(args[1], 1, ValueType);\n   if (!lhs) return null;\n   if (!isComparableType(op, lhs.type)) {\n   return context.concat(1).error(`\"${op}\" comparisons are not supported for type '${toString(lhs.type)}'.`);\n   }\n   let rhs = context.parse(args[2], 2, ValueType);\n   if (!rhs) return null;\n   if (!isComparableType(op, rhs.type)) {\n   return context.concat(2).error(`\"${op}\" comparisons are not supported for type '${toString(rhs.type)}'.`);\n   }\n\n   if (\n   lhs.type.kind !== rhs.type.kind &&\n   lhs.type.kind !== 'value' &&\n   rhs.type.kind !== 'value'\n   ) {\n   return context.error(`Cannot

 compare types '${toString(lhs.type)}' and '${toString(rhs.type)}'.`);\n   }\n\n   if (isOrderComparison) {\n   // typing rules specific to less/greater than operators\n   if (lhs.type.kind === 'value' && rhs.type.kind !== 'value') {\n   // (value, T)\n   lhs = new Assertion(rhs.type, [lhs]);\n   } else if (lhs.type.kind !== 'value' && rhs.type.kind === 'value') {\n   // (T, value)\n   rhs = new Assertion(lhs.type, [rhs]);\n   }\n   }\n\n   let collator = null;\n   if (args.length === 4) {\n   if (\n   lhs.type.kind !== 'string' &&\n   rhs.type.kind !== 'string' &&\n   lhs.type.kind !== 'value' &&\n   rhs.type.kind !== 'value'\n   ) {\n   return context.error(`Cannot use collator to compare non-string types.`);\n

                }\n   collator = context.parse(args[3], 3, CollatorType);\n   if (!collator) return null;\n   }\n\n   return new Comparison(lhs, rhs, collator);\n   }\n\n   evaluate(ctx: EvaluationContext) {\n   const lhs = this.lhs.evaluate(ctx);\n   const rhs = this.rhs.evaluate(ctx);\n\n   if (isOrderComparison &&

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

    }\n\n   eachChild(fn: (_: Expression) => void) {\n   fn(this.number);\n   if (this.locale) {\n fn(this.locale);\n   }\n   if (this.currency) {\n   fn(this.currency);\n   }\n   if (this.minFractionDigits) {\n   fn(this.minFractionDigits);\n   }\n   if (this.maxFractionDigits) {\n fn(this.maxFractionDigits);\n   }\n   }\n\n   outputDefined() {\n   return false;\n   }\n\n   serialize() {\n const options = {};\n   if (this.locale) {\n   options['locale'] = this.locale.serialize();\n   }\n   if (this.currency) {\n   options['currency'] = this.currency.serialize();\n   }\n   if (this.minFractionDigits) {\n   options['min-fraction-digits'] = this.minFractionDigits.serialize();\n   }\n   if (this.maxFractionDigits) {\n   options['max-fraction-digits'] = this.maxFractionDigits.serialize();\n

    }\n   return [\"number-format\", this.number.serialize(), options];\n   }\n}\n","// @flow\n\nimport {NumberType, toString} from '../types';\n\nimport {typeOf} from '../values';\n\nimport RuntimeError from '../runtime_error';\n\nimport type {Expression} from '../expression';\n\nimport type ParsingContext from '../parsing_context';\n\nimport type EvaluationContext from '../evaluation_context';\n\nimport type {Type} from '../types';\n\nclass Length implements Expression {\n   type: Type;\n   input: Expression;\n\n   constructor(input: Expression) {\n   this.type = NumberType;\n   this.input = input;\n   }\n\n   static parse(args: $ReadOnlyArray<mixed>, context: ParsingContext) {\n   if (args.length !== 2)\n   return context.error(`Expected 1 argument, but found ${args.length - 1} instead.`);\n\n   const input = context.parse(args[1], 1);\n   if (!input) return null;\n\n   if (input.type.kind !== 'array' && input.type.kind !== 'string' && input.type.kind

 !== 'value')\n   return context.error(`Expected argument of type string or array, but found ${toString(input.type)} instead.`);\n\n   return new Length(input);\n   }\n\n   evaluate(ctx: EvaluationContext) {\n   const input = this.input.evaluate(ctx);\n   if (typeof input === 'string') {\n   return input.length;\n   } else if (Array.isArray(input)) {\n   return input.length;\n   } else {\n   throw new RuntimeError(`Expected value to be of type string or array, but found ${toString(typeOf(input))} instead.`);\n   }\n   }\n\n   eachChild(fn: (_: Expression) => void) {\n   fn(this.input);\n   }\n\n   outputDefined() {\n return false;\n   }\n\n   serialize() {\n   const serialized = [\"length\"];\n   this.eachChild(child => { serialized.push(child.serialize()); });\n   return serialized;\n   }\n}\n\nexport default Length;\n","// @flow\n\nimport {\n   type Type,\n   NumberType,\n

    StringType,\n   BooleanType,\n   ColorType,\n   ObjectType,\n   ValueType,\n   ErrorType,\n   CollatorType,\n   array,\n   toString as typeToString\n} from '../types';\n\nimport {typeOf, Color, validateRGBA, toString as valueToString} from '../values';\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 IndexOf from './index_of';\n\nimport Match from './match';\n\nimport Case from './case';\n\nimport Slice from './slice';\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   'index-of': IndexOf,\n   'interpolate': Interpolate,\n 'interpolate-hcl': Interpolate,\n   'interpolate-lab': Interpolate,\n   'length': Length,\n   'let': Let,\n   'literal': Literal,\n   'match': Match,\n   'number': Assertion,\n   'number-format':

NumberFormat,\n   'object': Assertion,\n   'slice': Slice,\n   'step': Step,\n   'string': Assertion,\n   'to-boolean': Coercion,\n   'to-color': Coercion,\n   'to-number': Coercion,\n   'to-string': Coercion,\n   'var': Var,\n   'within': Within\n};\n\nfunction rgba(ctx, [r, g, b, a]) {\n   r = r.evaluate(ctx);\n   g = g.evaluate(ctx);\n   b = b.evaluate(ctx);\n   const alpha = a ? a.evaluate(ctx) : 1;\n   const error = validateRGBA(r, g, b, alpha);\n   if (error) throw new RuntimeError(error);\n   return new Color(r / 255 * alpha, g / 255 * alpha, b / 255 * alpha, alpha);\n}\n\nfunction has(key, obj) {\n   return key in obj;\n}\n\nfunction get(key, obj) {\n   const v = obj[key];\n   return typeof v === 'undefined' ? null : v;\n}\n\nfunction binarySearch(v, a, i, j) {\n   while (i <= j) {\n   const m = (i + j) >> 1;\n   if (a[m] === v)\n   return true;\n   if (a[m] > v)\n   j = m - 1;\n   else\n   i = m + 1;\n

    }\n   return false;\n}\n\nfunction varargs(type: Type): Varargs {\n   return {type};\n}\n\nCompoundExpression.register(expressions, {\n   'error': [\n   ErrorType,\n   [StringType],\n   (ctx, [v]) => { throw new RuntimeError(v.evaluate(ctx)); }\n   ],\n   'typeof': [\n   StringType,\n   [ValueType],\n   (ctx, [v]) => typeToString(typeOf(v.evaluate(ctx)))\n   ],\n   'to-rgba': [\n   array(NumberType, 4),\n   [ColorType],\n   (ctx, [v]) => {\n   return v.evaluate(ctx).toArray();\n   }\n   ],\n   'rgb': [\n   ColorType,\n   [NumberType, NumberType, NumberType],\n   rgba\n   ],\n   'rgba': [\n   ColorType,\n   [NumberType, NumberType, NumberType, NumberType],\n   rgba\n   ],\n   'has': {\n   type: BooleanType,\n   overloads: [\n   [\n   [StringType],\n   (ctx, [key]) => has(key.evaluate(ctx), ctx.properties())\n   ], [\n
            [StringType, ObjectType],\n   (ctx, [key, obj]) => has(key.evaluate(ctx), obj.evaluate(ctx))\n   ]\n
        ]\n   },\n   'get': {\n   type: ValueType,\n   overloads: [\n   [\n   [StringType],\n   (ctx, [key]) => get(key.evaluate(ctx), ctx.properties())\n   ], [\n   [StringType, ObjectType],\n   (ctx, [key, obj]) => get(key.evaluate(ctx), obj.evaluate(ctx))\n   ]\n   ]\n   },\n   'feature-state': [\n   ValueType,\n   [StringType],\n   (ctx, [key]) => get(key.evaluate(ctx), ctx.featureState || {})\n   ],\n   'properties': [\n   ObjectType,\n   [],\n   (ctx) => ctx.properties()\n   ],\n   'geometry-type': [\n   StringType,\n   [],\n   (ctx) => ctx.geometryType()\n   ],\n   'id': [\n   ValueType,\n   [],\n   (ctx) => ctx.id()\n   ],\n   'zoom': [\n   NumberType,\n   [],\n   (ctx) => ctx.globals.zoom\n

    ],\n   'heatmap-density': [\n   NumberType,\n   [],\n   (ctx) => ctx.globals.heatmapDensity || 0\n   ],\n   'line-progress': [\n   NumberType,\n   [],\n   (ctx) => ctx.globals.lineProgress || 0\n   ],\n   'accumulated': [\n   ValueType,\n   [],\n   (ctx) => ctx.globals.accumulated === undefined ? null : ctx.globals.accumulated\n   ],\n   '+': [\n   NumberType,\n   varargs(NumberType),\n   (ctx, args) => {\n   let result = 0;\n   for (const arg of args) {\n   result += arg.evaluate(ctx);\n   }\n   return result;\n   }\n   ],\n   '*': [\n   NumberType,\n   varargs(NumberType),\n   (ctx, args) => {\n   let result = 1;\n   for (const arg of args) {\n   result *= arg.evaluate(ctx);\n   }\n   return result;\n   }\n   ],\n   '-': {\n   type: NumberType,\n   overloads: [\n
            [\n   [NumberType, NumberType],\n   (ctx, [a, b]) => a.evaluate(ctx) - b.evaluate(ctx)\n   ], [\n   [NumberType],\n   (ctx, [a]) => -a.evaluate(ctx)\n   ]\n   ]\n   },\n   '/': [\n   NumberType,\n   [NumberType, NumberType],\n   (ctx, [a, b]) => a.evaluate(ctx) / b.evaluate(ctx)\n   ],\n   '%': [\n   NumberType,\n   [NumberType, NumberType],\n   (ctx, [a, b]) => a.evaluate(ctx) % b.evaluate(ctx)\n   ],\n   'ln2': [\n   NumberType,\n   [],\n   () => Math.LN2\n   ],\n   'pi': [\n   NumberType,\n   [],\n   () => Math.PI\n   ],\n   'e': [\n   NumberType,\n   [],\n   () => Math.E\n   ],\n   '^': [\n   NumberType,\n   [NumberType, NumberType],\n   (ctx, [b, e]) => Math.pow(b.evaluate(ctx), e.evaluate(ctx))\n   ],\n   'sqrt': [\n   NumberType,\n   [NumberType],\n   (ctx, [x]) => Math.sqrt(x.evaluate(ctx))\n

    ],\n   'log10': [\n   NumberType,\n   [NumberType],\n   (ctx, [n]) => Math.log(n.evaluate(ctx)) / Math.LN10\n   ],\n   'ln': [\n   NumberType,\n   [NumberType],\n   (ctx, [n]) => Math.log(n.evaluate(ctx))\n   ],\n   'log2': [\n   NumberType,\n   [NumberType],\n   (ctx, [n]) => Math.log(n.evaluate(ctx)) / Math.LN2\n   ],\n   'sin': [\n   NumberType,\n   [NumberType],\n   (ctx, [n]) => Math.sin(n.evaluate(ctx))\n   ],\n   'cos': [\n   NumberType,\n   [NumberType],\n   (ctx, [n]) =>

Math.cos(n.evaluate(ctx))\n   ],\n   'tan': [\n   NumberType,\n   [NumberType],\n   (ctx, [n]) => Math.tan(n.evaluate(ctx))\n   ],\n   'asin': [\n   NumberType,\n   [NumberType],\n   (ctx, [n]) => Math.asin(n.evaluate(ctx))\n   ],\n   'acos': [\n   NumberType,\n   [NumberType],\n   (ctx, [n]) => Math.acos(n.evaluate(ctx))\n   ],\n   'atan': [\n   NumberType,\n   [NumberType],\n   (ctx, [n]) => Math.atan(n.evaluate(ctx))\n   ],\n   'min': [\n   NumberType,\n   varargs(NumberType),\n   (ctx, args) => Math.min(...args.map(arg => arg.evaluate(ctx)))\n   ],\n   'max': [\n   NumberType,\n   varargs(NumberType),\n   (ctx, args) => Math.max(...args.map(arg => arg.evaluate(ctx)))\n   ],\n   'abs': [\n   NumberType,\n   [NumberType],\n   (ctx, [n]) => Math.abs(n.evaluate(ctx))\n   ],\n   'round': [\n   NumberType,\n   [NumberType],\n   (ctx, [n]) => {\n   const v = n.evaluate(ctx);\n   // Javascript's Math.round() rounds towards +Infinity for halfway\n   // values, even when they're negative. It's more common to round\n   // away from 0 (e.g., this is what python and C++ do)\n   return v < 0 ? -Math.round(-v) : Math.round(v);\n   }\n   ],\n   'floor': [\n   NumberType,\n   [NumberType],\n   (ctx, [n])

=> Math.floor(n.evaluate(ctx))\n   ],\n   'ceil': [\n   NumberType,\n   [NumberType],\n   (ctx, [n]) => Math.ceil(n.evaluate(ctx))\n   ],\n   'filter-==': [\n   BooleanType,\n   [StringType, ValueType],\n   (ctx, [k, v]) => ctx.properties()[(k: any).value] === (v: any).value\n   ],\n   'filter-id-==': [\n   BooleanType,\n   [ValueType],\n   (ctx, [v]) => ctx.id() === (v: any).value\n   ],\n   'filter-type-==': [\n   BooleanType,\n   [StringType],\n   (ctx, [v]) => ctx.geometryType() === (v: any).value\n   ],\n   'filter-<': [\n   BooleanType,\n   [StringType, ValueType],\n   (ctx, [k, v]) => {\n   const a = ctx.properties()[(k: any).value];\n   const b = (v: any).value;\n   return typeof a === typeof b && a < b;\n   }\n   ],\n   'filter-id-<': [\n   BooleanType,\n   [ValueType],\n   (ctx, [v]) => {\n   const a = ctx.id();\n   const b = (v: any).value;\n   return typeof a === typeof b && a < b;\n   }\n   ],\n   'filter->': [\n   BooleanType,\n   [StringType, ValueType],\n   (ctx, [k, v]) => {\n   const a = ctx.properties()[(k: any).value];\n   const b = (v: any).value;\n   return typeof a === typeof b && a > b;\n   }\n   ],\n   'filter-id->': [\n   BooleanType,\n   [ValueType],\n   (ctx, [v]) => {\n   const a = ctx.id();\n   const b = (v: any).value;\n   return typeof a === typeof b && a > b;\n   }\n   ],\n   'filter-<=': [\n   BooleanType,\n   [StringType, ValueType],\n   (ctx, [k, v]) => {\n   const a = ctx.properties()[(k: any).value];\n   const b = (v: any).value;\n   return typeof a === typeof b && a <= b;\n   }\n   ],\n   'filter-id-<=': [\n   BooleanType,\n   [ValueType],\n   (ctx, [v]) => {\n   const a = ctx.id();\n   const b = (v: any).value;\n   return typeof a === typeof b && a <= b;\n   }\n   ],\n   'filter->=': [\n   BooleanType,\n   [StringType, ValueType],\n   (ctx, [k, v]) => {\n   const a = ctx.properties()[(k: any).value];\n   const b = (v: any).value;\n   return typeof a === typeof b && a >= b;\n   }\n   ],\n   'filter-id->=': [\n   BooleanType,\n   [ValueType],\n   (ctx, [v]) => {\n   const a = ctx.id();\n   const b = (v: any).value;\n   return typeof a === typeof b && a >= b;\n   }\n   ],\n   'filter-has': [\n   BooleanType,\n   [ValueType],\n   (ctx, [k]) => (k: any).value in ctx.properties()\n   ],\n   'filter-has-id': [\n   BooleanType,\n   [],\n   (ctx) => (ctx.id() !== null && ctx.id() !== undefined)\n   ],\n   'filter-type-in': [\n   BooleanType,\n   [array(StringType)],\n   (ctx, [v]) => (v: any).value.indexOf(ctx.geometryType())

>= 0\n   ],\n   'filter-id-in': [\n   BooleanType,\n   [array(ValueType)],\n   (ctx, [v]) => (v: any).value.indexOf(ctx.id()) >= 0\n   ],\n   'filter-in-small': [\n   BooleanType,\n   [StringType, array(ValueType)],\n   // assumes v is an array literal\n   (ctx, [k, v]) => (v: any).value.indexOf(ctx.properties()[(k: any).value]) >= 0\n   ],\n   'filter-in-large': [\n   BooleanType,\n   [StringType, array(ValueType)],\n   // assumes v is a array literal with values sorted in ascending order and of a single type\n   (ctx, [k, v]) => binarySearch(ctx.properties()[(k: any).value], (v: any).value, 0, (v: any).value.length - 1)\n   ],\n   'all': {\n   type: BooleanType,\n   overloads: [\n   [\n   [BooleanType, BooleanType],\n   (ctx, [a, b]) => a.evaluate(ctx) && b.evaluate(ctx)\n   ],\n   [\n   varargs(BooleanType),\n   (ctx, args)

=> {\n   for (const arg of args) {\n   if (!arg.evaluate(ctx))\n   return false;\n   }\n   return true;\n   }\n   ]\n   ]\n   },\n   'any': {\n   type: BooleanType,\n

overloads: [\n   [\n   [BooleanType, BooleanType],\n   (ctx, [a, b]) => a.evaluate(ctx) || b.evaluate(ctx)\n   ],\n   [\n   varargs(BooleanType),\n   (ctx, args) => {\n   for (const arg of args) {\n   if (arg.evaluate(ctx))\n   return true;\n   }\n   return false;\n   }\n   ]\n   ]\n   },\n   '!': [\n   BooleanType,\n   [BooleanType],\n   (ctx, [b]) => !b.evaluate(ctx)\n   ],\n   'is-supported-script': [\n   BooleanType,\n   [StringType],\n   // At parse time this will always return true, so we need to exclude this expression with isGlobalPropertyConstant\n   (ctx, [s]) => {\n   const isSupportedScript = ctx.globals && ctx.globals.isSupportedScript;\n   if (isSupportedScript) {\n   return isSupportedScript(s.evaluate(ctx));\n   }\n   return true;\n   }\n   ],\n   'upcase': [\n   StringType,\n   [StringType],\n   (ctx, [s]) => s.evaluate(ctx).toUpperCase()\n   ],\n   'downcase': [\n   StringType,\n   [StringType],\n   (ctx, [s]) => s.evaluate(ctx).toLowerCase()\n   ],\n   'concat': [\n   StringType,\n   varargs(ValueType),\n   (ctx, args) => args.map(arg => valueToString(arg.evaluate(ctx))).join(")\n   ],\n   'resolved-locale': [\n   StringType,\n   [CollatorType],\n   (ctx, [collator]) => collator.evaluate(ctx).resolvedLocale()\n   ]\n});\n\nexport default expressions;\n","// @flow\n\n/**\n * A type used

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

else if (type === 'categorical') {\n   innerFun = evaluateCategoricalFunction;\n\n   // For categorical functions, generate an Object as a hashmap of the stops for fast searching\n   hashedStops = Object.create(null);\n   for (const stop of parameters.stops) {\n   hashedStops[stop[0]] = stop[1];\n   }\n\n   // Infer key type based on first stop key-- used to encforce strict type checking later\n   categoricalKeyType = typeof parameters.stops[0][0];\n\n   } else if (type === 'identity') {\n   innerFun = evaluateIdentityFunction;\n   } else {\n   throw new Error(`Unknown function type \"${type}\"`);\n   }\n\n   if (zoomAndFeatureDependent) {\n   const featureFunctions = {};\n   const zoomStops = [];\n   for (let s = 0; s < parameters.stops.length; s++) {\n   const stop = parameters.stops[s];\n   const zoom = stop[0].zoom;\n   if (featureFunctions[zoom] === undefined) {\n   featureFunctions[zoom] = {\n   zoom,\n   type: parameters.type,\n   property: parameters.property,\n   default: parameters.default,\n   stops: []\n   };\n   zoomStops.push(zoom);\n   }\n   featureFunctions[zoom].stops.push([stop[0].value, stop[1]]);\n   }\n\n   const featureFunctionStops = [];\n   for (const z of zoomStops) {\n   featureFunctionStops.push([featureFunctions[z].zoom, createFunction(featureFunctions[z], propertySpec)]);\n   }\n\n   const interpolationType = {name: 'linear'};\n   return {\n   kind: 'composite',\n   interpolationType,\n   interpolationFactor: Interpolate.interpolationFactor.bind(undefined, interpolationType),\n   zoomStops: featureFunctionStops.map(s => s[0]),\n   evaluate({zoom}, properties) {\n   return evaluateExponentialFunction({\n   stops: featureFunctionStops,\n   base: parameters.base\n   }, propertySpec, zoom).evaluate(zoom, properties);\n   }\n   };\n   } else if (zoomDependent) {\n   const interpolationType = type === 'exponential' ?\n   {name: 'exponential', base: parameters.base !== undefined ? parameters.base : 1} : null;\n   return {\n   kind: 'camera',\n   interpolationType,\n   interpolationFactor: Interpolate.interpolationFactor.bind(undefined, interpolationType),\n   zoomStops: parameters.stops.map(s => s[0]),\n   evaluate: ({zoom}) => innerFun(parameters, propertySpec, zoom, hashedStops, categoricalKeyType)\n   };\n   } else {\n   return {\n   kind: 'source',\n   evaluate(_, feature) {\n   const value = feature && feature.properties ? feature.properties[parameters.property] : undefined;\n   if (value === undefined) {\n   return coalesce(parameters.default, propertySpec.default);\n   }\n   return innerFun(parameters, propertySpec, value, hashedStops, categoricalKeyType);\n   }\n   };\n   }\n}\n\nfunction coalesce(a, b, c) {\n   if (a !== undefined) return a;\n   if (b !== undefined) return b;\n   if (c !== undefined) return c;\n}\n\nfunction evaluateCategoricalFunction(parameters, propertySpec, input, hashedStops, keyType) {\n   const evaluated = typeof input === keyType ? hashedStops[input] : undefined; // Enforce strict typing on input\n   return coalesce(evaluated, parameters.default, propertySpec.default);\n}\n\nfunction evaluateIntervalFunction(parameters, propertySpec, input) {\n   // Edge cases\n   if (getType(input) !== 'number') return coalesce(parameters.default, propertySpec.default);\n   const n = parameters.stops.length;\n   if (n === 1) return parameters.stops[0][1];\n   if (input <= parameters.stops[0][0]) return parameters.stops[0][1];\n   if (input >= parameters.stops[n - 1][0]) return parameters.stops[n - 1][1];\n\n   const index = findStopLessThanOrEqualTo(parameters.stops.map((stop) => stop[0]), input);\n\n   return parameters.stops[index][1];\n}\n\nfunction evaluateExponentialFunction(parameters, propertySpec, input) {\n   const base = parameters.base !== undefined ? parameters.base : 1;\n\n   // Edge cases\n   if (getType(input) !== 'number') return coalesce(parameters.default, propertySpec.default);\n   const n = parameters.stops.length;\n   if (n === 1) return parameters.stops[0][1];\n   if (input <= parameters.stops[0][0]) return parameters.stops[0][1];\n   if (input >= parameters.stops[n - 1][0]) return parameters.stops[n - 1][1];\n\n   const index = findStopLessThanOrEqualTo(parameters.stops.map((stop) => stop[0]), input);\n   const t = interpolationFactor(\n   input, base,\n   parameters.stops[index][0],\n   parameters.stops[index + 1][0]);\n\n   const outputLower = parameters.stops[index][1];\n   const outputUpper = parameters.stops[index + 1][1];\n   let interp = interpolate[propertySpec.type] || identityFunction; // eslint-disable-line import/namespace\n\n   if (parameters.colorSpace && parameters.colorSpace !== 'rgb') {\n   const colorspace =

colorSpaces[parameters.colorSpace];

 // eslint-disable-line import/namespace\n   interp = (a, b) => colorspace.reverse(colorspace.interpolate(colorspace.forward(a), colorspace.forward(b), t));\n   }\n\n   if (typeof outputLower.evaluate === 'function') {\n   return {\n   evaluate(...args) {\n   const evaluatedLower = outputLower.evaluate.apply(undefined, args);\n   const evaluatedUpper = outputUpper.evaluate.apply(undefined, args);\n   // Special case for fill-outline-color, which has no spec default.\n   if (evaluatedLower === undefined || evaluatedUpper === undefined) {\n   return undefined;\n   }\n   return interp(evaluatedLower, evaluatedUpper, t);\n   }\n   };\n   }\n\n   return interp(outputLower, outputUpper, t);\n}\n\nfunction evaluateIdentityFunction(parameters, propertySpec, input) {\n   if (propertySpec.type === 'color') {\n   input = Color.parse(input);\n

    } else if (propertySpec.type === 'formatted') {\n   input = Formatted.fromString(input.toString());\n   } else if (propertySpec.type === 'resolvedImage') {\n   input = ResolvedImage.fromString(input.toString());\n   } else if (getType(input) !== propertySpec.type && (propertySpec.type !== 'enum' || !propertySpec.values[input])) {\n   input = undefined;\n   }\n   return coalesce(input, parameters.default, propertySpec.default);\n}\n\n/**\n * Returns a ratio that can be used to interpolate between exponential function\n * stops.\n *\n * How it works:\n * Two consecutive stop values define a (scaled and shifted) exponential\n * function `f(x) = a * base^x + b`, where `base` is the user-specified base,\n * and `a` and `b` are constants affording sufficient degrees of freedom to fit\n * the function to the given stops.\n *\n * Here's a bit of algebra that lets us compute `f(x)` directly from the stop\n * values without explicitly solving for `a` and `b`:\n *\n

 * First stop value: `f(x0) = y0 = a * base^x0 + b`\n * Second stop value: `f(x1) = y1 = a * base^x1 + b`\n * => `y1 - y0 = a(base^x1 - base^x0)`\n * => `a = (y1 - y0)/(base^x1 - base^x0)`\n *\n * Desired value: `f(x) = y = a * base^x + b`\n * => `f(x) = y0 + a * (base^x - base^x0)`\n *\n * From the above, we can replace the `a` in `a * (base^x - base^x0)` and do a\n * little algebra:\n * ```\n * a * (base^x - base^x0) = (y1 - y0)/(base^x1 - base^x0) * (base^x - base^x0)\n *   = (y1 - y0) * (base^x - base^x0) / (base^x1 - base^x0)\n * ```\n *\n * If we let `(base^x - base^x0) / (base^x1 base^x0)`, then we have\n * `f(x) = y0 + (y1 - y0) * ratio`. In other words, `ratio` may be treated as\n * an interpolation factor between the two stops' output values.\n *\n * (Note: a slightly different form for `ratio`,\n * `(base^(x-x0) - 1) / (base^(x1-x0) - 1) `, is equivalent, but requires fewer\n * expensive `Math.pow()` operations.)\n *\n * @private\n */\nfunction interpolationFactor(input,

 base, lowerValue, upperValue) {\n   const difference = upperValue - lowerValue;\n   const progress = input - lowerValue;\n\n   if (difference === 0) {\n   return 0;\n   } else if (base === 1) {\n   return progress / difference;\n   } else {\n   return (Math.pow(base, progress) - 1) / (Math.pow(base, difference) - 1);\n   }\n}\n","// @flow\n\nimport assert from 'assert';\nimport extend from '../util/extend';\nimport ParsingError from './parsing_error';\nimport ParsingContext from './parsing_context';\nimport EvaluationContext from './evaluation_context';\nimport CompoundExpression from './compound_expression';\nimport Step from './definitions/step';\nimport Interpolate from './definitions/interpolate';\nimport Coalesce from './definitions/coalesce';\nimport Let from './definitions/let';\nimport definitions from './definitions';\nimport * as isConstant from './is_constant';\nimport RuntimeError from './runtime_error';\nimport {success, error} from '../util/result';\nimport

 {supportsPropertyExpression, supportsZoomExpression, supportsInterpolation} from '../util/properties';\n\nimport type {Type, EvaluationKind} from './types';\nimport type {Value} from './values';\nimport type {Expression} from './expression';\nimport type {StylePropertySpecification} from '../style-spec';\nimport type {Result} from '../util/result';\nimport type {InterpolationType} from './definitions/interpolate';\nimport type {PropertyValueSpecification} from '../types';\nimport type {FormattedSection} from './types/formatted';\nimport type Point from '@mapbox/point-geometry';\nimport type {CanonicalTileID} from '../../source/tile_id';\n\nexport type Feature = {\n   +type: 1 | 2 | 3 | 'Unknown' | 'Point' | 'MultiPoint' | 'LineString' | 'MultiLineString' | 'Polygon' | 'MultiPolygon',\n   +id?: any,\n   +properties: {[_: string]: any},\n   +patterns?: {[_: string]: {\"min\": string, \"mid\": string, \"max\": string}},\n   +geometry?: Array<Array<Point>>\n};\n\nexport

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

GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection): any {\n   return this._styleExpression.evaluate(globals, feature, featureState, canonical, availableImages, formattedSection);\n   }\n}\n\nexport class ZoomDependentExpression<Kind: EvaluationKind> {\n   kind: Kind;\n   zoomStops: Array<number>;\n   isStateDependent: boolean;\n\n   _styleExpression: StyleExpression;\n   interpolationType: ?InterpolationType;\n\n   constructor(kind: Kind, expression: StyleExpression, zoomStops: Array<number>, interpolationType?: InterpolationType) {\n   this.kind = kind;\n   this.zoomStops = zoomStops;\n   this._styleExpression = expression;\n   this.isStateDependent = kind !== ('camera': EvaluationKind) && !isConstant.isStateConstant(expression.expression);\n   this.interpolationType = interpolationType;\n   }\n\n   evaluateWithoutErrorHandling(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection): any {\n   return this._styleExpression.evaluateWithoutErrorHandling(globals, feature, featureState, canonical, availableImages, formattedSection);\n   }\n\n   evaluate(globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection): any {\n   return this._styleExpression.evaluate(globals, feature, featureState, canonical, availableImages, formattedSection);\n   }\n\n   interpolationFactor(input: number, lower: number, upper: number): number {\n   if (this.interpolationType) {\n   return Interpolate.interpolationFactor(this.interpolationType, input, lower, upper);\n   } else {\n   return 0;\n   }\n   }\n}\n\nexport type ConstantExpression = {\n   kind: 'constant',\n   +evaluate: (globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>) => any,\n}\n\nexport type SourceExpression = {\n   kind: 'source',\n   isStateDependent: boolean,\n   +evaluate: (globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection) => any,\n};\n\nexport type CameraExpression = {\n   kind: 'camera',\n   +evaluate: (globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>) => any,\n   +interpolationFactor: (input: number, lower: number, upper: number) => number,\n   zoomStops: Array<number>,\n   interpolationType: ?InterpolationType\n};\n\nexport type CompositeExpression = {\n   kind: 'composite',\n   isStateDependent: boolean,\n   +evaluate: (globals: GlobalProperties, feature?: Feature, featureState?: FeatureState, canonical?: CanonicalTileID, availableImages?: Array<string>, formattedSection?: FormattedSection) => any,\n   +interpolationFactor: (input: number, lower: number, upper: number) => number,\n   zoomStops: Array<number>,\n   interpolationType: ?InterpolationType\n};\n\nexport type StylePropertyExpression =\n | ConstantExpression\n | SourceExpression\n | CameraExpression\n | CompositeExpression;\n\nexport function createPropertyExpression(expression: mixed, propertySpec: StylePropertySpecification): Result<StylePropertyExpression, Array<ParsingError>> {\n   expression = createExpression(expression, propertySpec);\n   if (expression.result === 'error') {\n   return expression;\n   }\n\n   const parsed = expression.value.expression;\n\n   const isFeatureConstant = isConstant.isFeatureConstant(parsed);\n   if (!isFeatureConstant && !supportsPropertyExpression(propertySpec)) {\n   return error([new ParsingError('', 'data expressions not supported')]);\n   }\n\n   const isZoomConstant = isConstant.isGlobalPropertyConstant(parsed, ['zoom']);\n   if (!isZoomConstant && !supportsZoomExpression(propertySpec)) {\n   return error([new ParsingError('', 'zoom expressions not supported')]);\n   }\n\n   const zoomCurve = findZoomCurve(parsed);\n   if (!zoomCurve && !isZoomConstant) {\n   return error([new ParsingError('', \"zoom\" expression may only be used as input to a top-level \"step\" or \"interpolate\" expression.')]);\n   } else if (zoomCurve instanceof ParsingError) {\n   return error([zoomCurve]);\n   } else if (zoomCurve instanceof Interpolate && !supportsInterpolation(propertySpec)) {\n   return error([new ParsingError('', '\"interpolate\" expressions cannot be used with this property')]);\n   }\n\n   if (!zoomCurve) {\n   return success(isFeatureConstant ?\n   (new ZoomConstantExpression('constant', expression.value): ConstantExpression) :\n   (new ZoomConstantExpression('source',

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

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=== 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    }
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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   }\nelse if (type === 'interval') {\n   const expression = ['step', ['number', get]];\n   for (const stop of stops) {\n   appendStopPair(expression, stop[0], stop[1], true);\n   }\n   fixupDegenerateStepCurve(expression);\n   return parameters.default === undefined ? expression : [\n   'case',\n   ['==', ['typeof', get], 'number'],\n   expression,\n   convertLiteral(parameters.default)\n   ];\n   } else if (type === 'exponential') {\n   const base = parameters.base !== undefined ? parameters.base : 1;\n   const expression = [\n   getInterpolateOperator(parameters),\n   base === 1 ? [\"linear\"] : [\"exponential\", base],\n   [\"number\", get]\n   ];\n\n   for (const stop of stops) {\n   appendStopPair(expression, stop[0], stop[1], false);\n   }\n   return parameters.default === undefined ? expression : [\n   'case',\n   ['==', ['typeof', get], 'number'],\n   expression,\n   convertLiteral(parameters.default)\n   ];\n   } else {\n   throw new Error(`Unknown property function type ${type}`);\n   }\n}\n\nfunction convertZoomFunction(parameters, propertySpec, stops, input = ['zoom']) {\n   const type = getFunctionType(parameters, propertySpec);\n   let expression;\n   let isStep = false;\n   if (type === 'interval') {\n   expression = ['step', input];\n   isStep = true;\n   } else if (type === 'exponential') {\n   const base = parameters.base !== undefined ? parameters.base : 1;\n   expression = [getInterpolateOperator(parameters), base === 1 ? [\"linear\"] : [\"exponential\", base], input];\n\n   } else {\n   throw new Error(`Unknown zoom function type \"${type}\"`);\n   }\n\n   for (const stop of stops) {\n   appendStopPair(expression, stop[0], stop[1], isStep);\n   }\n\n   fixupDegenerateStepCurve(expression);\n\n   return expression;\n}\n\nfunction fixupDegenerateStepCurve(expression) {\n   // degenerate step curve (i.e. a constant function): add a noop stop\n   if (expression[0] === 'step' && expression.length === 3) {\n   expression.push(0);\n   expression.push(expression[3]);\n   }\n}\n\nfunction appendStopPair(curve, input, output, isStep) {\n   // Skip duplicate stop values. They were not validated for functions, but they are for expressions.\n   // https://github.com/mapbox/mapbox-gl-js/issues/4107\n   if (curve.length > 3 && input === curve[curve.length - 2]) {\n   return;\n   }\n   // step curves don't get the first input value, as it is redundant.\n   if (!(isStep && curve.length === 2)) {\n   curve.push(input);\n   }\n   curve.push(output);\n}\n\nfunction getFunctionType(parameters, propertySpec) {\n   if (parameters.type) {\n   return parameters.type;\n   } else {\n   assert(propertySpec.expression);\n   return (propertySpec.expression: any).interpolated ? 'exponential' : 'interval';\n   }\n}\n\n// \"String with {name} token\" => [\"concat\", \"String with \", [\"get\", \"name\"], \" token\"]\nexport function convertTokenString(s: string) {\n   const result = ['concat'];\n   const re = /{([^{}]+)}/g;\n   let pos = 0;\n   for (let match = re.exec(s); match !== null; match = re.exec(s)) {\n   const literal = s.slice(pos, re.lastIndex - match[0].length);\n   pos = re.lastIndex;\n   if (literal.length > 0) result.push(literal);\n   result.push(['get', match[1]]);\n   }\n\n   if (result.length === 1) {\n   return s;\n   }\n\n   if (pos < s.length) {\n   result.push(s.slice(pos));\n   } else if (result.length === 2) {\n   return ['to-string', result[1]];\n   }\n\n   return result;\n}\n","// @flow\nimport {createExpression} from '../expression';\nimport type {GlobalProperties, Feature} from '../expression';\nimport type {CanonicalTileID} from '../../source/tile_id';\n\ntype FilterExpression = (globalProperties: GlobalProperties, feature: Feature, canonical?: CanonicalTileID) => boolean;\nexport type FeatureFilter ={filter: FilterExpression, needGeometry: boolean};\n\nexport default createFilter;\nexport {isExpressionFilter};\n\nfunction isExpressionFilter(filter: any) {\n   if (filter === true || filter === false) {\n   return true;\n   }\n\n   if (!Array.isArray(filter) || filter.length === 0) {\n   return false;\n   }\n   switch (filter[0]) {\n   case 'has':\n   return filter.length >= 2 && filter[1] !== '$id' && filter[1] !== '$type';\n\n   case 'in':\n   return filter.length >= 3 && (typeof filter[1] !== 'string' || Array.isArray(filter[2]));\n\n   case '!in':\n   case '!has':\n   case 'none':\n   return false;\n\n   case '==':\n   case '!=':\n   case '>':\n   case '>=':\n   case '<':\n   case '<=':\n   return filter.length !== 3 || (Array.isArray(filter[1]) || Array.isArray(filter[2]));\n\n   case 'any':\n   case 'all':\n   for (const f of filter.slice(1)) {\n   if

(!isExpressionFilter(f) && typeof f !== 'boolean') {\n   return false;\n   }\n   }\n

     return true;\n\n   default:\n   return true;\n   }\n}\n\nconst filterSpec = {\n   'type': 'boolean',\n   'default': false,\n   'transition': false,\n   'property-type': 'data-driven',\n   'expression': {\n   'interpolated': false,\n 'parameters': ['zoom', 'feature']\n   }\n};\n\n/**\n * Given a filter expressed as nested arrays, return a new function\n * that evaluates whether a given feature (with a .properties or .tags property)\n * passes its test.\n *\n * @private\n * @param {Array} filter mapbox gl filter\n * @returns {Function} filter-evaluating function\n */\nfunction createFilter(filter: any): FeatureFilter {\n   if (filter === null || filter === undefined) {\n   return {filter: () => true, needGeometry: false};\n   }\n\n   if (!isExpressionFilter(filter)) {\n   filter = convertFilter(filter);\n   }\n\n const compiled = createExpression(filter, filterSpec);\n   if (compiled.result === 'error') {\n   throw new Error(compiled.value.map(err

 => `${err.key}: ${err.message}`).join(', '));\n   } else {\n   const needGeometry = geometryNeeded(filter);\n   return {filter: (globalProperties: GlobalProperties, feature: Feature, canonical?: CanonicalTileID) => compiled.value.evaluate(globalProperties, feature, {}, canonical),\n   needGeometry};\n   }\n}\n\n//
Comparison function to sort numbers and strings\nfunction compare(a, b) {\n   return a < b ? -1 : a > b ? 1 : 0;\n}\n\nfunction geometryNeeded(filter) {\n   if (!Array.isArray(filter)) return false;\n   if (filter[0] === 'within') return true;\n   for (let index = 1; index < filter.length; index++) {\n   if (geometryNeeded(filter[index])) return true;\n   }\n   return false;\n}\n\nfunction convertFilter(filter: ?Array<any>): mixed {\n   if (!filter) return true;\n   const op = filter[0];\n   if (filter.length <= 1) return (op !== 'any');\n   const converted =\n   op === '==' ? convertComparisonOp(filter[1], filter[2], '==')

 :\n   op === '!=' ? convertNegation(convertComparisonOp(filter[1], filter[2], '==')) :\n   op === '<' ||\n   op === '>' ||\n   op === '<=' ||\n   op === '>=' ? convertComparisonOp(filter[1], filter[2], op) :\n   op === 'any' ? convertDisjunctionOp(filter.slice(1)) :\n   op === 'all' ? ['all'].concat(filter.slice(1).map(convertFilter)) :\n op === 'none' ? ['all'].concat(filter.slice(1).map(convertFilter).map(convertNegation)) :\n   op === 'in' ? convertInOp(filter[1], filter.slice(2)) :\n   op === '!in' ? convertNegation(convertInOp(filter[1], filter.slice(2))) :\n   op === 'has' ? convertHasOp(filter[1]) :\n   op === '!has' ? convertNegation(convertHasOp(filter[1])) :\n op === 'within' ? filter :\n   true;\n   return converted;\n}\n\nfunction convertComparisonOp(property: string, value: any, op: string) {\n   switch (property) {\n   case '$type':\n   return [`filter-type-${op}`, value];\n   case '$id':\n

     return [`filter-id-${op}`, value];\n   default:\n   return [`filter-${op}`, property, value];\n   }\n}\n\nfunction convertDisjunctionOp(filters: Array<Array<any>>) {\n   return ['any'].concat(filters.map(convertFilter));\n}\n\nfunction convertInOp(property: string, values: Array<any>) {\n   if (values.length === 0) { return false; }\n   switch (property) {\n   case '$type':\n   return [`filter-type-in`, ['literal', values]];\n   case '$id':\n   return [`filter-id-in`, ['literal', values]];\n   default:\n   if (values.length > 200 && !values.some(v => typeof v !== typeof values[0])) {\n   return ['filter-in-large', property, ['literal', values.sort(compare)]];\n   } else {\n   return ['filter-in-small', property, ['literal', values]];\n   }\n   }\n}\n\nfunction convertHasOp(property: string) {\n   switch (property) {\n   case '$type':\n   return true;\n   case '$id':\n   return [`filter-has-id`];\n   default:\n

     return [`filter-has`, property];\n   }\n}\n\nfunction convertNegation(filter: mixed) {\n   return ['!', filter];\n}\n","// @flow\n\nimport {isExpressionFilter} from './index';\n\nimport type {FilterSpecification} from '../types';\n\ntype ExpectedTypes = {[_: string]: 'string' | 'number' | 'boolean'};\n\n/**\n * Convert the given legacy filter to (the JSON representation of) an\n * equivalent expression\n * @private\n */\nexport default function convertFilter(filter: FilterSpecification): mixed {\n   return _convertFilter(filter, {});\n}\n\n/*\n * Convert the given filter to an expression, storing the expected types for\n * any feature properties referenced in expectedTypes.\n *\n * These expected types are needed in order to construct preflight type checks\n * needed for handling 'any' filters. A preflight type check is necessary in\n * order to mimic legacy filters' semantics around expected type mismatches.\n * For example, consider the legacy filter:\n *\n *   [\"any\",

 [\"all\", [\">\", \"y\", 0], [\">\", \"y\", 0]], [\">\", \"x\", 0]]\n *\n * Naively, we might convert this to the expression:\n *\n *   [\"any\", [\"all\", [\">\", [\"get\", \"y\"], 0], [\">\", [\"get\", \"z\"], 0]], [\">\", [\"get\", \"x\"], 0]]\n *\n * But if

we tried to evaluate this against, say `{x: 1, y: null, z: 0}`, the\n * [\">\", [\"get\", \"y\"], 0] would cause an evaluation error, leading to the\n * entire filter returning false. Legacy filter semantics, though, ask for\n * [\">\", \"y\", 0] to simply return `false` when `y` is of the wrong type,\n * allowing the subsequent terms of the outer \"any\" expression to be evaluated\n * (resulting, in this case, in a `true` value, because x > 0).\n *\n * We account for this by inserting a preflight type-checking expression before\n * each \"any\" term, allowing us to avoid evaluating the actual converted filter\n * if any type mismatches would cause it to produce an evalaution error:\n *\n *   [\"any\",\n *   [\"case\",\n

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

 result.\n */\nfunction _convertFilter(filter: FilterSpecification, expectedTypes: ExpectedTypes): mixed {\n   if (isExpressionFilter(filter)) { return filter; }\n\n   if (!filter) return true;\n   const op = filter[0];\n   if (filter.length <= 1) return (op !== 'any');\n\n   let converted;\n\n   if (\n   op === '==' ||\n   op === '!=' ||\n   op === '<' ||\n   op === '>' ||\n   op === '<=' ||\n   op === '>='\n   ) {\n   const [, property, value] = (filter: any);\n   converted = convertComparisonOp(property, value, op, expectedTypes);\n   } else if (op === 'any') {\n   const children = (filter: any).slice(1).map(f => {\n   const types = {};\n   const child = _convertFilter(f, types);\n   const typechecks = runtimeTypeChecks(types);\n   return typechecks === true ? child : ['case', typechecks, child, false];\n   });\n   return ['any'].concat(children);\n   } else if (op === 'all') {\n   const children = (filter: any).slice(1).map(f => _convertFilter(f, expectedTypes));\n   return children.length > 1 ? ['all'].concat(children) : [].concat(...children);\n   } else if (op === 'none') {\n   return ['!', _convertFilter(['any'].concat(filter.slice(1)), {})];\n   } else if (op === 'in') {\n   converted = convertInOp((filter[1]: any), filter.slice(2));\n   } else if (op === '!in') {\n   converted = convertInOp((filter[1]: any), filter.slice(2), true);\n   } else if (op === 'has') {\n   converted = convertHasOp((filter[1]: any));\n   } else if (op === '!has') {\n   converted = ['!', convertHasOp((filter[1]: any))];\n   } else {\n   converted = true;\n   }\n\n   return converted;\n}\n\n\n// Given a set of feature properties and an expected type for each one,\n// construct an boolean expression that tests whether each property has the\n// right type.\n// E.g.: for {name: 'string', population: 'number'}, return\n// ['all',\n//   ['==',\n ['typeof', ['get', 'name'], 'string']],\n//   ['==', ['typeof', ['get', 'population'], 'number']]\n//]\nfunction runtimeTypeChecks(expectedTypes: ExpectedTypes) {\n   const conditions = [];\n   for (const property in expectedTypes) {\n   const get = property === '$id' ? ['id'] : ['get', property];\n   conditions.push(['==', ['typeof', get], expectedTypes[property]]);\n   }\n   if (conditions.length === 0) return true;\n   if (conditions.length === 1) return conditions[0];\n   return ['all'].concat(conditions);\n}\n\nfunction convertComparisonOp(property: string, value: any, op: string, expectedTypes: ?ExpectedTypes) {\n   let get;\n   if (property === '$type') {\n   return [op, ['geometry-type'], value];\n   } else if (property === '$id') {\n   get = ['id'];\n   } else {\n   get = ['get', property];\n   }\n\n   if (expectedTypes && value !== null) {\n   const type = ((typeof value): any);\n   expectedTypes[property] = type;\n   }\n\n   if

 (op === '==' && property !== '$id' && value === null) {\n   return [\n   'all',\n   ['has', property], // missing property != null for legacy filters\n   ['==', get, null]\n   ];\n   } else if (op === '!=' && property !== '$id' && value === null) {\n   return [\n   'any',\n   ['!', ['has', property]], // missing property != null for legacy filters\n   ['!=', get, null]\n   ];\n   }\n\n   return [op, get, value];\n}\n\nfunction convertInOp(property: string, values: Array<any>, negate = false) {\n   if (values.length === 0) return negate;\n\n   let get;\n   if (property === '$type') {\n   get = ['geometry-type'];\n   } else if (property === '$id') {\n   get =

['id'];\n   } else {\n   get = ['get', property];\n   }\n\n   // Determine if the list of values to be searched is homogenously typed.\n   // If so (and if the type is string or number), then we can use a\n   // [match, input, [...values],

 true, false] construction rather than a\n   // bunch of `==` tests.\n   let uniformTypes = true;\n   const type = typeof values[0];\n   for (const value of values) {\n   if (typeof value !== type) {\n   uniformTypes = false;\n   break;\n   }\n   }\n\n   if (uniformTypes && (type === 'string' || type === 'number')) {\n   // Match expressions must have unique values.\n   const uniqueValues = values.sort().filter((v, i) => i === 0 || values[i - 1] !== v);\n   return ['match', get, uniqueValues, !negate, negate];\n   }\n\n   return [negate ? 'all' : 'any'].concat(\n   values.map(v => [negate ? '!=' : '==', get, v])\n   );\n}\n\nfunction convertHasOp(property: string) {\n   if (property === '$type') {\n   return true;\n   } else if (property === '$id') {\n   return ['!=', ['id'], null];\n   } else {\n   return ['has', property];\n   }\n}\n","// @flow\n\nimport {\n   eachLayer,\n   eachProperty\n} from '../visit';\nimport

 {isExpression} from '../expression';\nimport convertFunction, {convertTokenString} from '../function/convert';\nimport convertFilter from '../feature_filter/convert';\n\nimport type {StyleSpecification} from '../types';\n\n/**\n * Migrate the given style object in place to use expressions. Specifically,\n * this will convert (a) \"stop\" functions, and (b) legacy filters to their\n * expression equivalents.\n */\nexport default function(style: StyleSpecification) {\n   const converted = [];\n\n   eachLayer(style, (layer) => {\n   if (layer.filter) {\n   layer.filter = (convertFilter(layer.filter): any);\n   }\n   });\n\n   eachProperty(style, {paint: true, layout: true}, ({path, value, reference, set}) => {\n   if (isExpression(value)) return;\n   if (typeof value === 'object' && !Array.isArray(value)) {\n   set(convertFunction(value, reference));\n   converted.push(path.join('.'));\n   } else if (reference.tokens

 && typeof value === 'string') {\n   set(convertTokenString(value));\n   }\n   });\n\n   return style;\n}\n","\nimport migrateToV8 from './migrate/v8';\nimport migrateToExpressions from './migrate/expressions';\n\n/**\n * Migrate a Mapbox GL Style to the latest version.\n *\n * @private\n * @alias migrate\n * @param {object} style a Mapbox GL Style\n * @returns {Object} a migrated style\n * @example\n * var fs = require('fs');\n * var migrate = require('mapbox-gl-style-spec').migrate;\n * var style = fs.readFileSync('./style.json', 'utf8');\n * fs.writeFileSync('./style.json', JSON.stringify(migrate(style)));\n */\nexport default function(style) {\n   let migrated = false;\n\n   if (style.version === 7) {\n   style = migrateToV8(style);\n   migrated = true;\n   }\n\n   if (style.version === 8) {\n   migrated = migrateToExpressions(style);\n   migrated = true;\n   }\n\n   if (!migrated) {\n   throw new Error('cannot migrate from', style.version);\n

    }\n\n   return style;\n}\n","\nexport default function (style) {\n   const styleIDs = [];\n   const sourceIDs = [];\n   const compositedSourceLayers = [];\n\n   for (const id in style.sources) {\n   const source = style.sources[id];\n\n   if (source.type !== \"vector\")\n   continue;\n\n   const match = /^mapbox:\\/\\/(.*)/.exec(source.url);\n   if (!match)\n   continue;\n   styleIDs.push(id);\n   sourceIDs.push(match[1]);\n   }\n\n   if (styleIDs.length < 2)\n   return style;\n\n   styleIDs.forEach((id) => {\n   delete style.sources[id];\n   });\n\n   const compositeID = sourceIDs.join(\",\");\n\n   style.sources[compositeID] = {\n   \"type\": \"vector\",\n   \"url\": `mapbox://${compositeID}`\n   };\n\n   style.layers.forEach((layer) => {\n   if (styleIDs.indexOf(layer.source) >= 0) {\n   layer.source = compositeID;\n\n   if ('source-layer' in layer) {\n

        if (compositedSourceLayers.indexOf(layer['source-layer']) >= 0) {\n   throw new Error('Conflicting source layer names');\n   } else {\n   compositedSourceLayers.push(layer['source-layer']);\n   }\n   }\n   }\n   });\n\n   return style;\n}\n","\nexport default ['type', 'source', 'source-layer', 'minzoom', 'maxzoom', 'filter', 'layout'];\n","\nimport refProperties from './util/ref_properties';\n\nfunction deref(layer, parent) {\n   const result = {};\n\n   for (const k in layer) {\n   if (k !== 'ref') {\n   result[k] = layer[k];\n   }\n   }\n\n   refProperties.forEach((k) => {\n   if (k in parent) {\n   result[k] = parent[k];\n   }\n   });\n\n   return result;\n}\n\nexport default derefLayers;\n\n/**\n * Given an array of layers, some of which may contain `ref` properties\n * whose value is the `id` of another property, return a new array where\n * such layers have

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

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

```
beforeLayer) {\n            if (!beforeLayer.hasOwnProperty(prop)) continue;\n            if (prop === 'layout' || prop ===
'paint' || prop === 'filter' ||\n                prop === 'metadata' || prop === 'minzoom' || prop === 'maxzoom') continue;\n
        if (prop.indexOf('paint.') === 0) {\n                diffLayerPropertyChanges(beforeLayer[prop], afterLayer[prop],
 commands, layerId, prop.slice(6), operations.setPaintProperty);\n            } else if (!isEqual(beforeLayer[prop],
afterLayer[prop])) {\n                commands.push({command: operations.setLayerProperty, args: [layerId, prop,
afterLayer[prop]]});\n            }\n        }\n        for (prop in afterLayer) {\n            if
(!afterLayer.hasOwnProperty(prop) || beforeLayer.hasOwnProperty(prop)) continue;\n            if (prop === 'layout' ||
prop === 'paint' || prop === 'filter' ||\n                prop === 'metadata' || prop === 'minzoom' || prop === 'maxzoom')
continue;\n            if (prop.indexOf('paint.') === 0) {\n                diffLayerPropertyChanges(beforeLayer[prop],
afterLayer[prop], commands, layerId, prop.slice(6), operations.setPaintProperty);\n            } else if
(!isEqual(beforeLayer[prop], afterLayer[prop])) {\n                commands.push({command:
operations.setLayerProperty, args: [layerId, prop, afterLayer[prop]]});\n            }\n        }\n    }\n}\n\n/**\n
 * Diff two stylesheet\n *\n * Creates semanticly aware diffs that can easily be applied at runtime.\n * Operations
produced by the diff closely resemble the mapbox-gl-js API. Any\n * error creating the diff will fall back to the
'setStyle' operation.\n *\n * Example diff:\n * [\n *   { command: 'setConstant', args: ['@water', '#0000FF'] },\n *
{ command: 'setPaintProperty', args: ['background', 'background-color', 'black'] }\n * ]\n *\n * @private\n * @param
{*} [before] stylesheet to compare from\n * @param {*} after stylesheet to compare to\n * @returns Array list of
changes\n */\nfunction diffStyles(before, after) {\n    if (!before) return [{command: operations.setStyle, args:
[after]}];\n\n    let commands = [];\n\n    try {\n        // Handle changes to top-level properties\n        if
(!isEqual(before.version, after.version)) {\n            return [{command: operations.setStyle, args: [after]}];\n        }\n
    if (!isEqual(before.center, after.center)) {\n
        commands.push({command: operations.setCenter, args: [after.center]});\n        }\n        if
(!isEqual(before.zoom, after.zoom)) {\n            commands.push({command: operations.setZoom, args:
[after.zoom]});\n        }\n        if (!isEqual(before.bearing, after.bearing)) {\n            commands.push({command:
operations.setBearing, args: [after.bearing]});\n        }\n        if (!isEqual(before.pitch, after.pitch)) {\n
commands.push({command: operations.setPitch, args: [after.pitch]});\n        }\n        if (!isEqual(before.sprite,
after.sprite)) {\n            commands.push({command: operations.setSprite, args: [after.sprite]});\n        }\n        if
(!isEqual(before.glyphs, after.glyphs)) {\n            commands.push({command: operations.setGlyphs, args:
[after.glyphs]});\n        }\n        if (!isEqual(before.transition, after.transition)) {\n
commands.push({command: operations.setTransition, args: [after.transition]});\n        }\n        if
 (!isEqual(before.light, after.light)) {\n            commands.push({command: operations.setLight, args:
[after.light]});\n        }\n\n        // Handle changes to `sources`\n        // If a source is to be removed, we also--before
the removeSource\n        // command--need to remove all the style layers that depend on it.\n        const
sourcesRemoved = {};\n\n        // First collect the {add,remove}Source commands\n        const
removeOrAddSourceCommands = [];\n        diffSources(before.sources, after.sources,
removeOrAddSourceCommands, sourcesRemoved);\n\n        // Push a removeLayer command for each style layer
that depends on a\n        // source that's being removed.\n        // Also, exclude any such layers them from the input to
`diffLayers`\n        // below, so that diffLayers produces the appropriate `addLayers`\n        // command\n        const
beforeLayers = [];\n        if (before.layers) {\n            before.layers.forEach((layer) => {\n                if
(sourcesRemoved[layer.source])
 {\n                    commands.push({command: operations.removeLayer, args: [layer.id]});\n                } else {\n
        beforeLayers.push(layer);\n                }\n            });\n        }\n        commands =
commands.concat(removeOrAddSourceCommands);\n\n        // Handle changes to `layers`\n
diffLayers(beforeLayers, after.layers, commands);\n\n    } catch (e) {\n        // fall back to setStyle\n
console.warn('Unable to compute style diff:', e);\n        commands = [{command: operations.setStyle, args:
[after]}];\n    }\n\n    return commands;\n}\n\nexport default diffStyles;\nexport {operations};\n","// @flow\n\n//
Note: Do not inherit from Error. It breaks when transpiling to ES5.\n\nexport default class ValidationError {\n
message: string;\n    identifier: ?string;\n    line: ?number;\n\n    constructor(key: ?string, value: ?{ __line__: number
```

}, message: string, identifier: ?string) {\n   this.message = (key ? `${key}: `: ") + message;\n   if (identifier) this.identifier = identifier;\n\n   if (value !== null && value !== undefined && value.__line__) {\n   this.line = value.__line__;\n   }\n   }\n}\n","// @flow\n\n// Note: Do not inherit from Error. It breaks when transpiling to ES5.\n\nexport default class ParsingError {\n   message: string;\n   error: Error;\n   line: number;\n\n   constructor(error: Error) {\n   this.error = error;\n   this.message = error.message;\n   const match = error.message.match(/line (\\d+)/);\n   this.line = match ? parseInt(match[1], 10) : 0;\n   }\n}\n","\nimport ValidationError from '../error/validation_error';\n\nexport default function validateConstants(options) {\n   const key = options.key;\n   const constants = options.value;\n\n   if (constants) {\n   return [new ValidationError(key, constants, 'constants have been deprecated as of v8')];\n   } else {\n   return [];\n   }\n}\n","// @flow\n\n//

Turn jsonlint-lines-primitives objects into primitive objects\nexport function unbundle(value: mixed) {\n   if (value instanceof Number || value instanceof String || value instanceof Boolean) {\n   return value.valueOf();\n   } else {\n   return value;\n   }\n}\n\nexport function deepUnbundle(value: mixed): mixed {\n   if (Array.isArray(value)) {\n   return value.map(deepUnbundle);\n   } else if (value instanceof Object && !(value instanceof Number || value instanceof String || value instanceof Boolean)) {\n   const unbundledValue: { [key: string]: mixed } = {};\n   for (const key in value) {\n   unbundledValue[key] = deepUnbundle(value[key]);\n   }\n   return unbundledValue;\n   }\n\n   return unbundle(value);\n}\n","\nimport ValidationError from '../error/validation_error';\nimport getType from '../util/get_type';\nimport validateSpec from './validate';\n\nexport default function validateObject(options) {\n   const key = options.key;

    const object = options.value;\n   const elementSpecs = options.valueSpec || {};\n   const elementValidators = options.objectElementValidators || {};\n   const style = options.style;\n   const styleSpec = options.styleSpec;\n   let errors = [];\n\n   const type = getType(object);\n   if (type !== 'object') {\n   return [new ValidationError(key, object, `object expected, ${type} found`)];\n   }\n\n   for (const objectKey in object) {\n   const elementSpecKey = objectKey.split('.')[0]; // treat 'paint.*' as 'paint'\n   const elementSpec = elementSpecs[elementSpecKey] || elementSpecs['*'];\n\n   let validateElement;\n   if (elementValidators[elementSpecKey]) {\n   validateElement = elementValidators[elementSpecKey];\n   } else if (elementSpecs[elementSpecKey]) {\n   validateElement = validateSpec;\n   } else if (elementValidators['*']) {\n   validateElement = elementValidators['*'];\n   } else if (elementSpecs['*']) {\n   validateElement = validateSpec;\n   } else {\n   errors.push(new ValidationError(key, object[objectKey], `unknown property \"${objectKey}\"`));\n   continue;\n   }\n\n   errors = errors.concat(validateElement({\n   key: (key ? `${key}.` : key) + objectKey,\n   value: object[objectKey],\n   valueSpec: elementSpec,\n   style,\n   styleSpec,\n   object,\n   objectKey\n   }, object));\n   }\n\n   for (const elementSpecKey in elementSpecs) {\n   // Don't check `required` when there's a custom validator for that property.\n   if (elementValidators[elementSpecKey]) {\n   continue;\n   }\n\n   if (elementSpecs[elementSpecKey].required && elementSpecs[elementSpecKey]['default'] === undefined && object[elementSpecKey] === undefined) {\n   errors.push(new ValidationError(key, object, `missing required property \"${elementSpecKey}\"`));

        }\n   }\n\n   return errors;\n}\n","\nimport getType from '../util/get_type';\nimport validate from './validate';\nimport ValidationError from '../error/validation_error';\n\nexport default function validateArray(options) {\n   const array = options.value;\n   const arraySpec = options.valueSpec;\n   const style = options.style;\n   const styleSpec = options.styleSpec;\n   const key = options.key;\n   const validateArrayElement = options.arrayElementValidator || validate;\n\n   if (getType(array) !== 'array') {\n   return [new ValidationError(key, array, `array expected, ${getType(array)} found`)];\n   }\n\n   if (arraySpec.length && array.length !== arraySpec.length) {\n   return [new ValidationError(key, array, `array length ${arraySpec.length} expected, length ${array.length} found`)];\n   }\n\n   if (arraySpec['min-length'] && array.length < arraySpec['min-length']) {\n   return [new ValidationError(key, array, `array length at least ${arraySpec['min-length']}`

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

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

            return [new ValidationError(options.key, reportValue, message)];\n   }\n\n   if (functionType === 'categorical' && type === 'number' && (!isFinite(value) || Math.floor(value) !== value)) {\n   return [new ValidationError(options.key, reportValue, `integer expected, found ${value}`)];\n   }\n\n   if (functionType !== 'categorical' && type === 'number' && previousStopDomainValue !== undefined && value < previousStopDomainValue) {\n   return [new ValidationError(options.key, reportValue, 'stop domain values must appear in ascending order')];\n   } else {\n   previousStopDomainValue = value;\n   }\n\n   if (functionType === 'categorical' && value in stopDomainValues) {\n   return [new ValidationError(options.key, reportValue, 'stop domain values must be unique')];\n   } else {\n   stopDomainValues[value] = true;\n   }\n\n   return [];\n   }\n\n   function validateFunctionDefault(options) {\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\nexport default
function validateExpression(options: any): Array<ValidationError> {\n    const expression =
(options.expressionContext === 'property' ? createPropertyExpression :
createExpression)(deepUnbundle(options.value), options.valueSpec);\n    if (expression.result === 'error') {\n
return expression.value.map((error) => {\n        return new ValidationError(`${options.key}${error.key}`,
options.value, error.message);\n    });\n

    }\n\n    const expressionObj = (expression.value: any).expression || (expression.value:
any)._styleExpression.expression;\n\n    if (options.expressionContext === 'property' && (options.propertyKey ===
'text-font') &&\n        !expressionObj.outputDefined()) {\n        return [new ValidationError(options.key,
options.value, `Invalid data expression for \"${options.propertyKey}\". Output values must be contained as literals
within the expression.`)];\n    }\n\n    if (options.expressionContext === 'property' && options.propertyType ===
'layout' &&\n        (!isStateConstant(expressionObj))) {\n        return [new ValidationError(options.key,
options.value, '\"feature-state\" data expressions are not supported with layout properties.')];\n    }\n\n    if
(options.expressionContext === 'filter' && !isStateConstant(expressionObj)) {\n        return [new
ValidationError(options.key, options.value, '\"feature-state\" data expressions are not supported with filters.')];\n
    }\n\n    if (options.expressionContext

 && options.expressionContext.indexOf('cluster') === 0) {\n        if (!isGlobalPropertyConstant(expressionObj,
['zoom', 'feature-state'])) {\n            return [new ValidationError(options.key, options.value, '\"zoom\" and \"feature-
state\" expressions are not supported with cluster properties.')];\n        }\n        if (options.expressionContext ===
'cluster-initial' && !isFeatureConstant(expressionObj)) {\n            return [new ValidationError(options.key,
options.value, 'Feature data expressions are not supported with initial expression part of cluster properties.')];\n
    }\n    }\n\n    return [];\n}\n","\nimport getType from '../util/get_type';\nimport ValidationError from
'../error/validation_error';\n\nexport default function validateBoolean(options) {\n    const value = options.value;\n
const key = options.key;\n    const type = getType(value);\n\n    if (type !== 'boolean') {\n        return [new
ValidationError(key, value, `boolean expected,
 ${type} found`)];\n    }\n\n    return [];\n}\n","\nimport ValidationError from '../error/validation_error';\nimport
getType from '../util/get_type';\nimport {parseCSSColor} from 'csscolorparser';\n\nexport default function
validateColor(options) {\n    const key = options.key;\n    const value = options.value;\n    const type =
getType(value);\n\n    if (type !== 'string') {\n        return [new ValidationError(key, value, `color expected, ${type}
found`)];\n    }\n\n    if (parseCSSColor(value) === null) {\n        return [new ValidationError(key, value, `color
expected, \"${value}\" found`)];\n    }\n\n    return [];\n}\n","\nimport ValidationError from
'../error/validation_error';\nimport {unbundle} from '../util/unbundle_jsonlint';\n\nexport default function
validateEnum(options) {\n    const key = options.key;\n    const value = options.value;\n    const valueSpec =
options.valueSpec;\n    const errors = [];\n\n    if (Array.isArray(valueSpec.values)) { // <=v7\n        if
(valueSpec.values.indexOf(unbundle(value))
 === -1) {\n            errors.push(new ValidationError(key, value, `expected one of [${valueSpec.values.join(', ')}],
${JSON.stringify(value)} found`));\n        }\n    } else { // >=v8\n        if
(Object.keys(valueSpec.values).indexOf(unbundle(value)) === -1) {\n            errors.push(new ValidationError(key,
value, `expected one of [${Object.keys(valueSpec.values).join(', ')}], ${JSON.stringify(value)} found`));\n        }\n
}\n    return errors;\n}\n","\nimport ValidationError from '../error/validation_error';\nimport validateExpression from
'./validate_expression';\nimport validateEnum from './validate_enum';\nimport getType from
'../util/get_type';\nimport {unbundle, deepUnbundle} from '../util/unbundle_jsonlint';\nimport extend from
'../util/extend';\nimport {isExpressionFilter} from '../feature_filter';\n\nexport default function validateFilter(options)
{\n    if (isExpressionFilter(deepUnbundle(options.value))) {\n        return validateExpression(extend({},
 options, {\n            expressionContext: 'filter',\n            valueSpec: {value: 'boolean'}\n        }));\n    } else {\n
return validateNonExpressionFilter(options);\n    }\n}\n\nfunction validateNonExpressionFilter(options) {\n    const
value = options.value;\n    const key = options.key;\n\n    if (getType(value) !== 'array') {\n        return [new
ValidationError(key, value, `array expected, ${getType(value)} found`)];\n    }\n\n    const styleSpec =
```

options.styleSpec;\n   let type;\n\n   let errors = [];\n\n   if (value.length < 1) {\n   return [new ValidationError(key, value, 'filter array must have at least 1 element')];\n   }\n\n   errors = errors.concat(validateEnum({\n   key: `${key}[0]`,\n   value: value[0],\n   valueSpec: styleSpec.filter_operator,\n   style: options.style,\n   styleSpec: options.styleSpec\n   }));\n\n   switch (unbundle(value[0])) {\n   case '<':\n   case '<=':\n   case '>':\n

 case '>=':\n   if (value.length >= 2 && unbundle(value[1]) === '$type') {\n   errors.push(new ValidationError(key, value, `\"$type\" cannot be use with operator \"${value[0]}\"`));\n   }\n   /* falls through */\n   case '==':\n   case '!=':\n   if (value.length !== 3) {\n   errors.push(new ValidationError(key, value, `filter array for operator \"${value[0]}\" must have 3 elements`));\n   }\n   /* falls through */\n   case 'in':\n   case '!in':\n   if (value.length >= 2) {\n   type = getType(value[1]);\n   if (type !== 'string') {\n   errors.push(new ValidationError(`${key}[1]`, value[1], `string expected, ${type} found`));\n   }\n   }\n   for (let i = 2; i < value.length; i++) {\n   type = getType(value[i]);\n   if (unbundle(value[1]) === '$type') {\n   errors = errors.concat(validateEnum({\n   key: `${key}[${i}]`,\n

   value: value[i],\n   valueSpec: styleSpec.geometry_type,\n   style: options.style,\n   styleSpec: options.styleSpec\n   }));\n   } else if (type !== 'string' && type !== 'number' && type !== 'boolean') {\n   errors.push(new ValidationError(`${key}[${i}]`, value[i], `string, number, or boolean expected, ${type} found`));\n   }\n   }\n   break;\n\n   case 'any':\n   case 'all':\n   case 'none':\n   for (let i = 1; i < value.length; i++) {\n   errors = errors.concat(validateNonExpressionFilter({\n   key: `${key}[${i}]`,\n   value: value[i],\n   style: options.style,\n   styleSpec: options.styleSpec\n   }));\n   }\n   break;\n\n   case 'has':\n   case '!has':\n   type = getType(value[1]);\n   if (value.length !== 2) {\n   errors.push(new ValidationError(key, value, `filter array

 for \"${value[0]}\" operator must have 2 elements`));\n        } else if (type !== 'string') {\n            errors.push(new ValidationError(`${key}[1]`, value[1], `string expected, ${type} found`));\n        }\n        break;\n    case 'within':\n        type = getType(value[1]);\n        if (value.length !== 2) {\n            errors.push(new ValidationError(key, value, `filter array for \"${value[0]}\" operator must have 2 elements`));\n        } else if (type !== 'object') {\n            errors.push(new ValidationError(`${key}[1]`, value[1], `object expected, ${type} found`));\n   }\n   break;\n   }\n   return errors;\n}\n","\nimport validate from './validate';\nimport ValidationError from '../error/validation_error';\nimport getType from '../util/get_type';\nimport {isFunction} from '../function';\nimport {unbundle, deepUnbundle} from '../util/unbundle_jsonlint';\nimport {supportsPropertyExpression} from '../util/properties';\n\nexport default function validateProperty(options,

 propertyType) {\n   const key = options.key;\n   const style = options.style;\n   const styleSpec = options.styleSpec;\n   const value = options.value;\n   const propertyKey = options.objectKey;\n   const layerSpec = styleSpec[`${propertyType}_${options.layerType}`];\n\n   if (!layerSpec) return [];\n   const transitionMatch = propertyKey.match(/^(.*)-transition$/);\n   if (propertyType === 'paint' && transitionMatch && layerSpec[transitionMatch[1]] && layerSpec[transitionMatch[1]].transition) {\n   return validate({\n   key,\n   value,\n   valueSpec: styleSpec.transition,\n   style,\n   styleSpec\n   });\n   }\n\n   const valueSpec = options.valueSpec || layerSpec[propertyKey];\n   if (!valueSpec) {\n   return [new ValidationError(key, value, `unknown property \"${propertyKey}\"`)];\n   }\n\n   let tokenMatch;\n   if (getType(value) === 'string' && supportsPropertyExpression(valueSpec) && !valueSpec.tokens

 && (tokenMatch = /^{([^}]+)}$/.exec(value))) {\n   return [new ValidationError(\n   key, value,\n   `\"${propertyKey}\" does not support interpolation syntax\\n` +\n   `Use an identity property function instead: \\`{ \"type\": \"identity\", \"property\": ${JSON.stringify(tokenMatch[1])} }\\`.`)];\n   }\n\n   const errors = [];\n\n   if (options.layerType === 'symbol') {\n   if (propertyKey === 'text-field' && style && !style.glyphs) {\n   errors.push(new ValidationError(key, value, 'use of \"text-field\" requires a style \"glyphs\" property'));\n   }\n   if (propertyKey === 'text-font' && isFunction(deepUnbundle(value)) && unbundle(value.type) === 'identity') {\n   errors.push(new ValidationError(key, value, '\"text-font\" does not support identity functions'));\n   }\n   }\n\n   return errors.concat(validate({\n   key: options.key,\n   value,\n   valueSpec,\n   style,\n   styleSpec,\n

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

layer,\n   key: options.key,\n   value: options.value,\n   style: options.style,\n   styleSpec: options.styleSpec,\n   objectElementValidators: {\n   '*'(options) {\n   return validatePaintProperty(extend({layerType: type}, options));\n   }\n   }\n   });\n   }\n   }\n   }));\n\n   return errors;\n}\n\n","\nimport getType from '../util/get_type';\nimport ValidationError from '../error/validation_error';\n\nexport default function validateString(options) {\n   const value = options.value;\n   const key = options.key;\n   const type = getType(value);\n\n   if (type !== 'string') {\n   return [new ValidationError(key, value, `string expected, ${type} found`)];\n   }\n\n   return [];\n}\n\n","\nimport ValidationError from '../error/validation_error';\nimport {unbundle} from '../util/unbundle_jsonlint';\nimport validateObject from './validate_object';\nimport validateEnum from './validate_enum';\nimport validateExpression from './validate_expression';\nimport validateString from './validate_string';\nimport getType from '../util/get_type';\n\nconst objectElementValidators

 = {\n   promoteId: validatePromoteId\n};\n\nexport default function validateSource(options) {\n   const value = options.value;\n   const key = options.key;\n   const styleSpec = options.styleSpec;\n   const style = options.style;\n\n   if (!value.type) {\n   return [new ValidationError(key, value, \"type\" is required')];\n   }\n\n   const type = unbundle(value.type);\n   let errors;\n\n   switch (type) {\n   case 'vector':\n   case 'raster':\n   case 'raster-dem':\n   errors = validateObject({\n   key,\n   value,\n   valueSpec: styleSpec[`source_${type.replace('-', '_')}`],\n   style: options.style,\n   styleSpec,\n   objectElementValidators\n   });\n   return errors;\n   case 'geojson':\n   errors = validateObject({\n   key,\n   value,\n   valueSpec: styleSpec.source_geojson,\n   style,\n   styleSpec,\n   objectElementValidators\n

        });\n   if (value.cluster) {\n   for (const prop in value.clusterProperties) {\n   const [operator, mapExpr] = value.clusterProperties[prop];\n   const reduceExpr = typeof operator === 'string' ? [operator, ['accumulated'], ['get', prop]] : operator;\n\n   errors.push(...validateExpression({\n   key: `${key}.${prop}.map`,\n   value: mapExpr,\n   expressionContext: 'cluster-map'\n   }));\n   errors.push(...validateExpression({\n   key: `${key}.${prop}.reduce`,\n   value: reduceExpr,\n   expressionContext: 'cluster-reduce'\n   }));\n   }\n   }\n   return errors;\n\n   case 'video':\n   return validateObject({\n   key,\n   value,\n   valueSpec: styleSpec.source_video,\n   style,\n   styleSpec\n   });\n\n   case 'image':\n

        return validateObject({\n   key,\n   value,\n   valueSpec: styleSpec.source_image,\n   style,\n   styleSpec\n   });\n\n   case 'canvas':\n   return [new ValidationError(key, null, `Please use runtime APIs to add canvas sources, rather than including them in stylesheets.`, 'source.canvas')];\n\n   default:\n   return validateEnum({\n   key: `${key}.type`,\n   value: value.type,\n   valueSpec: {values: ['vector', 'raster', 'raster-dem', 'geojson', 'video', 'image']},\n   style,\n   styleSpec\n   });\n   }\n}\n\nfunction validatePromoteId({key, value}) {\n   if (getType(value) === 'string') {\n   return validateString({key, value});\n   } else {\n   const errors = [];\n   for (const prop in value) {\n   errors.push(...validateString({key: `${key}.${prop}`, value: value[prop]}));\n   }\n   return errors;\n   }\n}\n","\nimport ValidationError

 from '../error/validation_error';\nimport getType from '../util/get_type';\nimport validate from './validate';\n\nexport default function validateLight(options) {\n   const light = options.value;\n   const styleSpec = options.styleSpec;\n   const lightSpec = styleSpec.light;\n   const style = options.style;\n\n   let errors = [];\n\n   const rootType = getType(light);\n   if (light === undefined) {\n   return errors;\n   } else if (rootType !== 'object') {\n   errors = errors.concat([new ValidationError('light', light, `object expected, ${rootType} found`)]);\n   return errors;\n   }\n\n   for (const key in light) {\n   const transitionMatch = key.match(/^(.*)-transition$/);\n\n   if (transitionMatch && lightSpec[transitionMatch[1]] && lightSpec[transitionMatch[1]].transition) {\n   errors = errors.concat(validate({\n   key,\n   value: light[key],\n   valueSpec: styleSpec.transition,\n

                style,\n   styleSpec\n   }));\n   } else if (lightSpec[key]) {\n   errors = errors.concat(validate({\n   key,\n   value: light[key],\n   valueSpec: lightSpec[key],\n

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

@param {Object} style The style to be validated.\n * @param {Object} [styleSpec] The style specification to validate against.\n *   If omitted, the latest style spec is used.\n * @returns {Array<ValidationError>}\n * @example\n * var validate = require('mapbox-gl-style-spec/lib/validate_style.min');\n * var errors = validate(style);\n *\/\nfunction validateStyleMin(style, styleSpec = latestStyleSpec) {\n\n   let errors = [];\n\n   errors = errors.concat(validate({\n   key: ",\n   value: style,\n   valueSpec: styleSpec.$root,\n   styleSpec,\n   style,\n   objectElementValidators: {\n   glyphs: validateGlyphsURL,\n   '*'() {\n   return [];\n   }\n   }\n   }));\n\n   if (style.constants) {\n   errors = errors.concat(validateConstants({\n   key: 'constants',\n   value: style.constants,\n   style,\n   styleSpec\n   }));\n   }\n\n   return sortErrors(errors);\n}\n\nvalidateStyleMin.source = wrapCleanErrors(validateSource);\nvalidateStyleMin.light = wrapCleanErrors(validateLight);\nvalidateStyleMin.layer = wrapCleanErrors(validateLayer);\nvalidateStyleMin.filter = wrapCleanErrors(validateFilter);\nvalidateStyleMin.paintProperty = wrapCleanErrors(validatePaintProperty);\nvalidateStyleMin.layoutProperty = wrapCleanErrors(validateLayoutProperty);\n\nfunction sortErrors(errors) {\n   return [].concat(errors).sort((a, b) => {\n   return a.line - b.line;\n   });\n}\n\nfunction wrapCleanErrors(inner) {\n   return function(...args) {\n   return sortErrors(inner.apply(this, args));\n   };\n}\n\nexport default validateStyleMin;\n","/* parser generated by jison 0.4.15 */\n/*\n Returns a Parser object of the following structure:\n\n Parser: {\n   yy: {}\n }\n\n Parser.prototype: {\n   yy: {},\n   trace: function(),\n   symbols_: {associative list: name ==> number},\n   terminals_: {associative list: number ==> name},\n   productions_: [...],\n   performAction: function anonymous(yytext, yyleng, yylineno, yy, yystate, $$, _$),\n   table: [...],\n   defaultActions: {...},\n   parseError: function(str, hash),\n   parse: function(input),\n\n   lexer: {\n   EOF: 1,\n   parseError: function(str, hash),\n   setInput: function(input),\n   input: function(),\n   unput: function(str),\n   more: function(),\n   less: function(n),\n   pastInput: function(),\n   upcomingInput: function(),\n   showPosition: function(),\n   test_match: function(regex_match_array, rule_index),\n   next: function(),\n\n   lex: function(),\n   begin: function(condition),\n   popState: function(),\n   _currentRules: function(),\n   topState: function(),\n   pushState: function(condition),\n\n   options: {\n   ranges: boolean   (optional: true ==> token location info will include a .range[] member)\n   flex: boolean   (optional: true ==> flex-like lexing behaviour where the rules are tested exhaustively to find the longest match)\n   backtrack_lexer: boolean (optional: true ==> lexer regexes are tested in order and for each matching regex the action code is invoked; the lexer terminates the scan when a token is returned by the action code)\n   },\n\n   performAction: function(yy, yy_, $avoiding_name_collisions, YY_START),\n   rules: [...],\n   conditions: {associative list: name ==> set},\n   }\n }\n\n\n token location info (@$, _$, etc.): {\n   first_line: n,\n   last_line: n,\n   first_column: n,\n   last_column: n,\n   range: [start_number, end_number]   (where the numbers are indexes into the input string, regular zero-based)\n }\n\n\n the parseError function receives a 'hash' object with these members for lexer and parser errors: {\n   text: (matched text)\n   token: (the produced terminal token, if any)\n   line: (yylineno)\n }\n while parser (grammar) errors will also provide these members, i.e. parser errors deliver a superset of attributes: {\n   loc: (yylloc)\n   expected: (string describing the set of expected tokens)\n   recoverable: (boolean: TRUE when the parser has a error recovery rule available for this particular error)\n }\n*\/\nvar parser = (function(){\nvar o=function(k,v,o,l){for(o=o||{},l=k.length;l--;o[k[l]]=v);return o},$V0=[1,12],$V1=[1,13],$V2=[1,9],$V3=[1,10],$V4=[1,11],$V5=[1,14],$V6=[1,15],$V7=[14,18,22,24],$V8=[18,22],$V9=[22,24];\nvar parser = {trace: function trace() { },\nyy: {},\nsymbols_: {\"error\":2,\"JSONString\":3,\"STRING\":4,\"JSONNumber\":5,\"NUMBER\":6,\"JSONNullLiteral\":7,\"NULL\":8,\"JSONBooleanLiteral\":9,\"TRUE\":10,\"FALSE\":11,\"JSONText\":12,\"JSONValue\":13,\"EOF\":14,\"JSONObject\":15,\"JSONArray\":16,\"{\":17,\"}\":18,\"JSONMemberList\":19,\"JSONMember\":20,\":\":21,\",\":22,\"[\":23,\"]\":24,\"JSONEElementList\":25,\"$accept\":0,\"$end\":1},\nterminals_:

{2:\"error\",4:\"STRING\",6:\"NUMBER\",8:\"NULL\",10:\"TRUE\",11:\"FALSE\",14:\"EOF\",17:\"{\",18:\"}\",21:\":\",22:\",\",23:\"[\",24:\"]\"},\nproductions_:
[0,[3,1],[5,1],[7,1],[9,1],[9,1],[12,2],[13,1],[13,1],[13,1],[13,1],[13,1],[13,1],[15,2],[15,3],[20,3],[19,1],[19,3],[16,2],[16,3],[25,1],[25,3]],\nperformAction: function anonymous(yytext, yyleng, yylineno, yy, yystate /* action[1] */, $$ /* vstack */, _$ /* lstack */) {\n/* this == yyval */\n\nvar $0 = $$.length - 1;\nswitch (yystate) {\ncase 1:\n // replace escaped characters with actual character\n   this.$ = new String(yytext.replace(/\\\\(\\\\\\\")/g,

\"$\"+\"1\")\n   .replace(/\\\\n/g,'\\n')\n   .replace(/\\\\r/g,'\\r')\n
.replace(/\\\\t/g,'\\t')\n   .replace(/\\\\v/g,'\\v')\n   .replace(/\\\\f/g,'\\f')\n
.replace(/\\\\b/g,'\\b'));\n   this.$.__line__ = this._$.first_line;\n   \nbreak;\ncase 2:\n\n   this.$ = new Number(yytext);\n   this.$.__line__ = this._$.first_line;\n   \nbreak;\ncase 3:\n   this.$ = null;\n
\nbreak;\ncase 4:\n\n   this.$ = new Boolean(true);\n   this.$.__line__ = this._$.first_line;\n
\nbreak;\ncase 5:\n\n   this.$ = new Boolean(false);\n   this.$.__line__ = this._$.first_line;\n
\nbreak;\ncase 6:\nreturn this.$ = $$[$0-1];\nbreak;\ncase 13:\nthis.$ = {}; Object.defineProperty(this.$, '__line__',
{\n   value: this._$.first_line,\n   enumerable: false\n   })\nbreak;\ncase
14: case 19:\nthis.$ = $$[$0-1]; Object.defineProperty(this.$, '__line__', {\n   value: this._$.first_line,\n
enumerable: false\n   })\nbreak;\ncase 15:\nthis.$ = [$$[$0-2], $$[$0]];\nbreak;\ncase 16:\nthis.$ = {};
this.$[$$[$0][0]] = $$[$0][1];\nbreak;\ncase 17:\nthis.$ = $$[$0-2]; $$[$0-2][$$[$0][0]] = $$[$0][1];\nbreak;\ncase
18:\nthis.$ = []; Object.defineProperty(this.$, '__line__', {\n   value: this._$.first_line,\n   enumerable:
false\n   })\nbreak;\ncase 20:\nthis.$ = [$$[$0]];\nbreak;\ncase 21:\nthis.$ = $$[$0-2]; $$[$0-2].push($$[$0]);\nbreak;\n}\n},\ntable:
[{3:5,4:$V0,5:6,6:$V1,7:3,8:$V2,9:4,10:$V3,11:$V4,12:1,13:2,15:7,16:8,17:$V5,23:$V6},{1:[3]},{14:[1,16]},o($
V7,[2,7]),o($V7,[2,8]),o($V7,[2,9]),o($V7,[2,10]),o($V7,[2,11]),o($V7,[2,12]),o($V7,[2,3]),o($V7,[2,4]),o($V7,[2,
5]),o([14,18,21,22,24],[2,1]),o($V7,[2,2]),{3:20,4:$V0,18:[1,17],19:18,20:19},{3:5,4:$V0,5:6,6:$V1,7:3,8:$V2,9:4,
10:$V3,11:$V4,13:23,15:7,16:8,17:$V5,23:$V6,24:[1,21],25:22},{1:[2,6]},o($V7,[2,13]),{18:[1,24],22:[1,25]},o($
V8,[2,16]),{21:[1,26]},o($V7,[2,18]),{22:[1,28],24:[1,27]},o($V9,[2,20]),o($V7,[2,14]),{3:20,4:$V0,20:29},{3:5,4:
$V0,5:6,6:$V1,7:3,8:$V2,9:4,10:$V3,11:$V4,13:30,15:7,16:8,17:$V5,23:$V6},o($V7,[2,19]),{3:5,4:$V0,5:6,6:$V1
,7:3,8:$V2,9:4,10:$V3,11:$V4,13:31,15:7,16:8,17:$V5,23:$V6},o($V8,[2,17]),o($V8,[2,15]),o($V9,[2,21])],\ndefaultActions:
{16:[2,6]},\nparseError: function parseError(str, hash) {\n   if (hash.recoverable) {\n   this.trace(str);\n   } else
{\n   throw new Error(str);\n   }\n},\nparse: function parse(input) {\n   var self = this, stack = [0], tstack = [],
vstack = [null], lstack = [], table = this.table, yytext = '', yylineno = 0, yyleng = 0, recovering = 0, TERROR = 2,
EOF = 1;\n   var args = lstack.slice.call(arguments, 1);\n   var lexer = Object.create(this.lexer);\n   var sharedState
= { yy: {} };\n   for (var k in this.yy) {\n   if (Object.prototype.hasOwnProperty.call(this.yy,
k)) {\n   sharedState.yy[k] = this.yy[k];\n   }\n   }\n   lexer.setInput(input, sharedState.yy);\n
sharedState.yy.lexer = lexer;\n   sharedState.yy.parser = this;\n   if (typeof lexer.yylloc == 'undefined') {\n
lexer.yylloc = {};\n   }\n   var yyloc = lexer.yylloc;\n   lstack.push(yyloc);\n   var ranges = lexer.options &&
lexer.options.ranges;\n   if (typeof sharedState.yy.parseError === 'function') {\n   this.parseError =
sharedState.yy.parseError;\n   } else {\n   this.parseError = Object.getPrototypeOf(this).parseError;\n   }\n
function popStack(n) {\n   stack.length = stack.length - 2 * n;\n   vstack.length = vstack.length - n;\n
lstack.length = lstack.length - n;\n   }\n   _token_stack:\n   function lex() {\n   var token;\n   token =
lexer.lex() || EOF;\n   if (typeof token !== 'number') {\n   token = self.symbols_[token] || token;\n
}\n   return
token;\n   }\n   var symbol, preErrorSymbol, state, action, a, r, yyval = {}, p, len, newState, expected;\n   while
(true) {\n   state = stack[stack.length - 1];\n   if (this.defaultActions[state]) {\n   action =
this.defaultActions[state];\n   } else {\n   if (symbol === null || typeof symbol == 'undefined') {\n
symbol = lex();\n   }\n   action = table[state] && table[state][symbol];\n   }\n   if (typeof
action === 'undefined' || !action.length || !action[0]) {\n   var errStr = '';\n   expected = [];\n
for (p in table[state]) {\n   if (this.terminals_[p] && p > TERROR) {\n   expected.push('\\" +

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this.terminals_[p] + '\\'");\n                    }\n              }\n              if (lexer.showPosition) {\n                errStr =
'Parse error on line ' + (yylineno + 1) + ':\\n' + lexer.showPosition() + '\\nExpecting
 ' + expected.join(', ') + ', got \\" + (this.terminals_[symbol] || symbol) + '\\'";\n            } else {\n                errStr =
'Parse error on line ' + (yylineno + 1) + ': Unexpected ' + (symbol == EOF ? 'end of input' : '\\" +
(this.terminals_[symbol] || symbol) + '\\'");\n                }\n              this.parseError(errStr, {\n                text:
lexer.match,\n                token: this.terminals_[symbol] || symbol,\n                line: lexer.yylineno,\n
loc: yyloc,\n                expected: expected\n                });\n            }\n          if (action[0] instanceof Array &&
action.length > 1) {\n            throw new Error('Parse Error: multiple actions possible at state: ' + state + ', token: ' +
symbol);\n        }\n        switch (action[0]) {\n        case 1:\n            stack.push(symbol);\n
vstack.push(lexer.yytext);\n            lstack.push(lexer.yylloc);\n          stack.push(action[1]);\n
     symbol = null;\n            if (!preErrorSymbol) {\n              yyleng = lexer.yyleng;\n              yytext =
lexer.yytext;\n            yylineno = lexer.yylineno;\n            yyloc = lexer.yylloc;\n            if (recovering > 0)
{\n                recovering--;\n                }\n          } else {\n              symbol = preErrorSymbol;\n
preErrorSymbol = null;\n            }\n            break;\n          case 2:\n            len = this.productions_[action[1]][1];\n
   yyval.$ = vstack[vstack.length - len];\n            yyval._$ = {\n              first_line: lstack[lstack.length - (len ||
1)].first_line,\n            last_line: lstack[lstack.length - 1].last_line,\n            first_column: lstack[lstack.length -
(len || 1)].first_column,\n            last_column: lstack[lstack.length - 1].last_column\n            };\n          if (ranges)
{\n              yyval._$.range = [\n              lstack[lstack.length
 - (len || 1)].range[0],\n            lstack[lstack.length - 1].range[1]\n              ];\n            }\n            r =
this.performAction.apply(yyval, [\n              yytext,\n              yyleng,\n              yylineno,\n
sharedState.yy,\n            action[1],\n              vstack,\n            lstack\n            ].concat(args));\n          if
(typeof r !== 'undefined') {\n              return r;\n            }\n          if (len) {\n              stack = stack.slice(0, -1 *
len * 2);\n            vstack = vstack.slice(0, -1 * len);\n            lstack = lstack.slice(0, -1 * len);\n          }\n
stack.push(this.productions_[action[1]][0]);\n            vstack.push(yyval.$);\n            lstack.push(yyval._$);\n
newState = table[stack[stack.length - 2]][stack[stack.length - 1]];\n          stack.push(newState);\n            break;\n
  case 3:\n            return true;\n
    }\n    }\n    return true;\n}};\n/* generated by jison-lex 0.3.4 */\nvar lexer = (function(){\nvar lexer =
({\n\nEOF:1,\n\nparseError:function parseError(str, hash) {\n        if (this.yy.parser) {\n
this.yy.parser.parseError(str, hash);\n        } else {\n            throw new Error(str);\n        }\n    },\n\n// resets the lexer,
sets new input\nsetInput:function (input, yy) {\n        this.yy = yy || this.yy || {};\n        this._input = input;\n
this._more = this._backtrack = this.done = false;\n        this.yylineno = this.yyleng = 0;\n        this.yytext =
this.matched = this.match = '';\n        this.conditionStack = ['INITIAL'];\n        this.yylloc = {\n            first_line: 1,\n
        first_column: 0,\n            last_line: 1,\n            last_column: 0\n        };\n        if (this.options.ranges) {\n
this.yylloc.range = [0,0];\n        }\n        this.offset = 0;\n        return this;\n    },\n\n// consumes and returns one char
from
 the input\ninput:function () {\n        var ch = this._input[0];\n        this.yytext += ch;\n        this.yyleng++;\n
this.offset++;\n        this.match += ch;\n        this.matched += ch;\n        var lines = ch.match(/(?:\\r\\n?|\\n).*/g);\n
 if (lines) {\n            this.yylineno++;\n            this.yylloc.last_line++;\n        } else {\n
this.yylloc.last_column++;\n        }\n        if (this.options.ranges) {\n            this.yylloc.range[1]++;\n        }\n\n
this._input = this._input.slice(1);\n        return ch;\n    },\n\n// unshifts one char (or a string) into the
input\nunput:function (ch) {\n        var len = ch.length;\n        var lines = ch.split(/(?:\\r\\n?|\\n)/g);\n\n
this._input = ch + this._input;\n        this.yytext = this.yytext.substr(0, this.yytext.length - len);\n        //this.yyleng -=
len;\n        this.offset -= len;\n        var oldLines = this.match.split(/(?:\\r\\n?|\\n)/g);\n        this.match =
this.match.substr(0,
 this.match.length - 1);\n        this.matched = this.matched.substr(0, this.matched.length - 1);\n\n        if (lines.length
- 1) {\n            this.yylineno -= lines.length - 1;\n        }\n        var r = this.yylloc.range;\n\n        this.yylloc = {\n
 first_line: this.yylloc.first_line,\n            last_line: this.yylineno + 1,\n            first_column:
this.yylloc.first_column,\n            last_column: lines ?\n                (lines.length === oldLines.length ?
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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   }\n   return this;\n   },\n\n// retain first n characters of the match\nless:function (n) {\n   this.unput(this.match.slice(n));\n   },\n\n// displays already matched input, i.e. for error messages\npastInput:function () {\n   var past = this.matched.substr(0, this.matched.length - this.match.length);\n   return (past.length
> 20 ? '...':'') + past.substr(-20).replace(/\\n/g, \"\");\n   },\n\n// displays upcoming input, i.e. for error messages\nupcomingInput:function () {\n   var next = this.match;\n   if (next.length < 20) {\n   next += this._input.substr(0, 20-next.length);\n   }\n   return (next.substr(0,20) + (next.length > 20 ? '...' : '')).replace(/\\n/g, \"\");\n   },\n\n// displays the character position where the lexing error occurred, i.e. for error messages\nshowPosition:function () {\n   var pre = this.pastInput();\n   var c = new Array(pre.length + 1).join(\"-\");\n   return pre + this.upcomingInput() + \"\\n\" + c + \"^\";\n   },\n\n// test the lexed token: return FALSE when not a match, otherwise return token\ntest_match:function (match, indexed_rule) {\n   var token,\n   lines,\n   backup;\n\n   if (this.options.backtrack_lexer) {\n   // save context\n   backup = {\n   yylineno: this.yylineno,\n   yylloc: {\n   first_line: this.yylloc.first_line,\n   last_line: this.last_line,\n first_column: this.yylloc.first_column,\n   last_column: this.yylloc.last_column\n   },\n yytext: this.yytext,\n   match: this.match,\n   matches: this.matches,\n   matched: this.matched,\n   yyleng: this.yyleng,\n   offset: this.offset,\n   _more: this._more,\n _input: this._input,\n   yy: this.yy,\n   conditionStack: this.conditionStack.slice(0),\n   done: this.done\n   };\n   if (this.options.ranges) {\n   backup.yylloc.range = this.yylloc.range.slice(0);\n   }\n   }\n\n   lines = match[0].match(/(?:\\r\\n?|\\n).*/g);\n   if (lines) {\n   this.yylineno += lines.length;\n   }\n
    this.yylloc = {\n   first_line: this.yylloc.last_line,\n   last_line: this.yylineno + 1,\n first_column: this.yylloc.last_column,\n   last_column: lines ?\n   lines[lines.length - 1].length - lines[lines.length - 1].match(/\\r?\\n?/)[0].length :\n   this.yylloc.last_column + match[0].length\n   };\n   this.yytext += match[0];\n   this.match += match[0];\n   this.matches = match;\n   this.yyleng = this.yytext.length;\n   if (this.options.ranges) {\n   this.yylloc.range = [this.offset, this.offset += this.yyleng];\n   }\n   this._more = false;\n   this._backtrack = false;\n   this._input = this._input.slice(match[0].length);\n   this.matched += match[0];\n   token = this.performAction.call(this, this.yy, this, indexed_rule, this.conditionStack[this.conditionStack.length - 1]);\n   if (this.done && this._input) {\n   this.done
= false;\n   }\n   if (token) {\n   return token;\n   } else if (this._backtrack) {\n   // recover context\n   for (var k in backup) {\n   this[k] = backup[k];\n   }\n   return false; // rule action called reject() implying the next rule should be tested instead.\n   }\n   return false;\n   },\n\n// return next match in input\nnext:function () {\n   if (this.done) {\n   return this.EOF;\n   }\n   if (!this._input) {\n   this.done = true;\n   }\n\n   var token,\n   match,\n   tempMatch,\n   index;\n   if (!this._more) {\n   this.yytext = '';\n   this.match = '';\n   }\n   var rules = this._currentRules();\n for (var i = 0; i < rules.length; i++) {\n   tempMatch = this._input.match(this.rules[rules[i]]);\n   if (tempMatch && (!match || tempMatch[0].length > match[0].length))

{\n   match = tempMatch;\n   index = i;\n   if (this.options.backtrack_lexer) {\n token = this.test_match(tempMatch, rules[i]);\n   if (token !== false) {\n   return token;\n } else if (this._backtrack) {\n   match = false;\n   continue; // rule action called reject() implying a rule MISmatch.\n   } else {\n   // else: this is a lexer rule which consumes input without producing a token (e.g. whitespace)\n   return false;\n   }\n   } else if (!this.options.flex) {\n   break;\n   }\n   }\n   }\n   if (match) {\n   token = this.test_match(match, rules[index]);\n   if (token !== false) {\n   return token;\n   }\n   // else: this is a lexer rule which

consumes input without producing a token (e.g. whitespace)\n   return false;\n   }\n   if (this._input === \"\") {\n   return this.EOF;\n   } else {\n   return this.parseError('Lexical error on line ' + (this.yylineno + 1) + '. Unrecognized text.\\n' + this.showPosition(), {\n   text: \"\",\n   token: null,\n   line: this.yylineno\n   });\n   }\n},\n\n// return next match that has a token\nlex:function lex() {\n   var r = this.next();\n   if (r) {\n   return r;\n   } else {\n   return this.lex();\n   }\n},\n\n// activates a new lexer condition state (pushes the new lexer condition state onto the condition stack)\nbegin:function begin(condition) {\n   this.conditionStack.push(condition);\n   },\n\n// pop the previously active lexer condition state off the condition stack\npopState:function popState() {\n   var n = this.conditionStack.length - 1;\n   if (n > 0) {\n   return this.conditionStack.pop();\n   } else {\n   return this.conditionStack[0];\n   }\n   },\n\n// produce the lexer rule set which is active for the currently active lexer condition state\n_currentRules:function _currentRules() {\n   if (this.conditionStack.length && this.conditionStack[this.conditionStack.length - 1]) {\n   return this.conditions[this.conditionStack[this.conditionStack.length - 1]].rules;\n   } else {\n   return this.conditions[\"INITIAL\"].rules;\n   }\n   },\n\n// return the currently active lexer condition state; when an index argument is provided it produces the N-th previous condition state, if available\ntopState:function topState(n) {\n   n = this.conditionStack.length - 1 - Math.abs(n || 0);\n   if (n >= 0) {\n   return this.conditionStack[n];\n   } else {\n   return \"INITIAL\";\n   }\n   },\n\n// alias for begin(condition)\npushState:function

pushState(condition) {\n   this.begin(condition);\n   },\n\n// return the number of states currently on the stack\nstateStackSize:function stateStackSize() {\n   return this.conditionStack.length;\n   },\noptions: {},\nperformAction: function anonymous(yy,yy_,$avoiding_name_collisions,YY_START) {\nvar YYSTATE=YY_START;\nswitch($avoiding_name_collisions) {\ncase 0:/* skip whitespace */\nbreak;\ncase 1:return 6\nbreak;\ncase 2:yy_.yytext = yy_.yytext.substr(1,yy_.yyleng-2); return 4\nbreak;\ncase 3:return 17\nbreak;\ncase 4:return 18\nbreak;\ncase 5:return 23\nbreak;\ncase 6:return 24\nbreak;\ncase 7:return 22\nbreak;\ncase 8:return 21\nbreak;\ncase 9:return 10\nbreak;\ncase 10:return 11\nbreak;\ncase 11:return 8\nbreak;\ncase 12:return 14\nbreak;\ncase 13:return 'INVALID'\nbreak;\n}\n},\nrules: [/^(?:\s+)/,/^(?:(-?([0-9]|[1-9][0-9]+))(\.[0-9]+)?([eE][-+]?[0-9]+)?\b)/,/^(?:\"(?:\\[\\\"bfnrt/]|\\\u[a-fA-F0-9]{4}|[^\\\0-\x09\x0a-\x1f\"])*\")/,/^(?:\{)/,/^(?:\})/,/^(?:\[)/,/^(?:\])/,/^(?:,)/,/^(?::)/,/^(?:true\b)/,/^(?:false\b)/,/^(?:null\b)/,/^(?:$)/,/^(?:.)/],\nconditions:
{\"INITIAL\":{\"rules\":[0,1,2,3,4,5,6,7,8,9,10,11,12,13],\"inclusive\":true}}\n});\nreturn lexer;\n})();\nparser.lexer = lexer;\nfunction Parser () {\n this.yy = {};\n}\nParser.prototype = parser;parser.Parser = Parser;\nreturn new Parser;\n})();\n\n\nif (typeof require !== 'undefined' && typeof exports !== 'undefined') {\nexports.parser = parser;\nexports.Parser = parser.Parser;\nexports.parse = function () { return parser.parse.apply(parser, arguments); };\n}\n","import ParsingError from './error/parsing_error';\nimport jsonlint from '@mapbox/jsonlint-lines-primitives';\n\nexport default function readStyle(style) {\n   if (style instanceof String || typeof style === 'string' || style instanceof Buffer) {\n   try {\n   return jsonlint.parse(style.toString());\n   } catch (e) {\n   throw new ParsingError(e);\n

    }\n   }\n\n   return style;\n}\n","\nimport validateStyleMin from './validate_style.min';\nimport {v8} from './style-spec';\nimport readStyle from './read_style';\n\n/**\n * Validate a Mapbox GL style against the style specification.\n *\n * @private\n * @alias validate\n * @param {Object|String|Buffer} style The style to be

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

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

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Found
 in path(s):
* /opt/cola/permits/1096023214_1601640940.37/0/mapbox-mapbox-gl-style-spec-13-16-0-
tgz/package/dist/index.es.js.map
No license file was found, but licenses were detected in source scan.

13.16.0

Features and improvements
* Added `volatile` source property to control storing the tiles in local storage.
([9702](https://github.com/mapbox/mapbox-gl-js/pull/9702))

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

13.15.0

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

13.14.0

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

13.13.1

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

Bug fixes

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

13.13.0

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

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

13.12.0

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

13.11.0

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

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

13.10.2

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

13.10.0

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

13.9.1

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

13.9.0

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

13.8.0

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

13.7.2

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

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

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

13.7.1

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

13.7.0

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

13.6.0

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

##
 13.5.0

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

13.4.0

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

13.3.0

Bug fixes
* **Expressions**
  * Fix `let` expression stripping expected type during parsing ([#7300](https://github.com/mapbox/mapbox-gl-js/issues/7300), fixed by [#7301](https://github.com/mapbox/mapbox-gl-js/pull/7301))
  * Fix superfluous wrapping of literals in `literal` expression ([#7336](https://github.com/mapbox/mapbox-gl-js/issues/7336), fixed by [#7337](https://github.com/mapbox/mapbox-gl-js/pull/7337))

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

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

13.2.0

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

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

13.1.1

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

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

13.1.0

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

13.0.1

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

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

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

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

13.0.0
Malformed package published to NPM.

12.0.0

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

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

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

11.1.1

Bug fixes

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

11.1.0

Features and improvements

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

11.0.0

Breaking changes

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

Features and improvements

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

Bug fixes

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

10.1.0

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

Validation Changes

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

10.0.1

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

10.0.0

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

9.0.1

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

9.0.0

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

8.11.0

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

8.10.0

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

Style Specification Changes

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

Reference JSON & API Changes

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

8.9.0

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

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

8.8.1

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

* Fixed style validation for layers with invalid types

8.8.0

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

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

8.7.0

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

* Add support for has / !has operators.

8.6.0

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

* Added support for zoom and feature driven functions.

8.4.2

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

* Refactored style validator to expose more granular validation methods

8.4.1

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

* Revert ramp validation checks that broke some styles.

8.4.0

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

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

8.3.0

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

* Added `line-offset` style property

8.2.1

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

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

8.2.0

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

* Add inline `example` property.
* Enforce that all
 style properties must have documentation in `doc` property.
* Create minified style specs with `doc` and `example` properties removed.

* `validate` now validates against minified style spec.
* `format` now accepts `space` option to use with `JSON.stringify`.
* Remove `gl-style-spritify`. Mapbox GL sprites are now created automatically by
 the Mapbox style APIs, or for hand-crafted styles, by [spritezero-cli](https://github.com/mapbox/spritezero-cli).

8.1.0

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

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

8.0.0

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

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

7.5.0

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

7.4.1

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

7.0.0

Introduction of Mapbox GL style specification v7.

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

6.0.0 (Style spec v6)

Introduction of Mapbox GL style specification v6.

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

0.0.5 (in progress)

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

0.0.4 (Aug 8 2014)

* Initial public release

Found in path(s):
* /opt/cola/permits/1096023214_1601640940.37/0/mapbox-mapbox-gl-style-spec-13-16-0-
tgz/package/CHANGELOG.md

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1.701 express-handlebars 5.1.0-5.1.0

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1.702 @types/range-parser 1.2.3-1.2.3

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1.703 domelementtype 2.0.1-2.0.1

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1.704 react-highlight-words 0.16.0-0.16.0
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1.707 query-string 5.1.1-5.1.1

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1.708 url-to-options 1.0.1-1.0.1

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1.709 require_optional 1.0.1-1.0.1

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1.714 lodash.isarray 3.0.4-3.0.4

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1.717 @mapbox/point-geometry 0.1.0-0.1.0

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1.720 change-emitter 0.1.6-0.1.6

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1.729 react-is 16.13.1-16.13.1

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1.730 eventemitter3 4.0.7-4.0.7

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1.731 @types/node 14.14.31-14.14.31

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1.749 react-portal 4.2.1-4.2.1

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1.755 unified 6.2.0-6.2.0

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1.758 regenerator-runtime 0.13.5-0.13.5

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1.762 on-headers 1.0.2-1.0.2

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1.772 buffer-more-ints 1.0.0-1.0.0

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1.773 d3-hierarchy 1.1.9-1.1.9

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1.775 glob 7.1.6-7.1.6

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1.776 cssesc 3.0.0-3.0.0

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1.780 delaunator 4.0.1-4.0.1

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1.783 react-router 4.3.1-4.3.1

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1.784 socket.io-parser 3.4.1-3.4.1

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1.787 @types/qs 6.9.5-6.9.5

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1.790 hoist-non-react-statics 3.3.2-3.3.2

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{
 "name": "my-app",
 "version": "0.1.0",
 "description": "my-app",
 "scripts": {
  "start": "node server.js"
 },
 "repository": "",
 "author": "",
 "license": "Apache License 2.0",
 "dependencies": {
  "raptor": ">=2.3.0",
  "optimist": "~0.3.5",
  "express-raptor": "~0.1.2",
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  "express": "~3.1.1",
  "request": "~2.16.6",
  "ebay-global-header": "git://github.scm.corp.ebay.com/cubejs-ebay/ebay-global-header-node.git",
  "raptor-optimizer-ready-plugin": "git://github.scm.corp.ebay.com/cubejs-ebay/raptor-optimizer-ready-plugin.git",
  "ebay-ui-components": "git://github.scm.corp.ebay.com/Raptor/RaptorUIComponents.git",
  "raptor-hot-reload": "~0.1.3",
  "socket.io": "~0.9.14",
  "cluster2": "git://github.scm.corp.ebay.com/cubejs/cluster2.git",
  "context-config": "git://github.scm.corp.ebay.com/cubejs/context-config-node.git",
  "raptor-config": "git://github.scm.corp.ebay.com/cubejs-ebay/raptor-config-node.git"
 },
 "devDependencies": {}
}
```

Found in path(s):

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

1.792 string_decoder 1.3.0-1.3.0

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1.793 mime-types 2.1.29-2.1.29

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1.795 semver 5.7.1-5.7.1

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1.796 quickselect 2.0.0-2.0.0

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1.797 follow-redirects 1.11.0-1.11.0

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1.799 react-motion 0.5.2-0.5.2
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1.800 is-decimal 1.0.4-1.0.4

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1.801 tiny-warning 1.0.3-1.0.3

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1.803 ws 7.4.3-7.4.3

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1.804 ajv 6.12.6-6.12.6

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1.805 d3-path 1.0.9-1.0.9

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1.807 node-gyp-build 4.2.3-4.2.3

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1.808 postcss 7.0.35-7.0.35

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1.809 querystringify 2.2.0-2.2.0

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1.810 bootstrap 3.4.1-3.4.1

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1.813 trim-trailing-lines 1.1.3-1.1.3

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1.817 base64-arraybuffer 0.1.4-0.1.4

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1.819 jwa 1.4.1-1.4.1

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1.823 string_decoder 1.0.3-1.0.3

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1.824 engine.io-parser 2.2.1-2.2.1

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1.828 shallowequal 0.2.2-0.2.2

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1.829 datatables.net-dt 1.10.13-1.10.13

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1.832 @types/express-serve-static-core 4.17.18-4.17.18

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1.833 minimist 1.2.5-1.2.5

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1.835 emojis-list 3.0.0-3.0.0

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1.836 express-http-context 1.2.4-1.2.4

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1.838 fs.realpath 1.0.0-1.0.0
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1.839 big-integer 1.6.48-1.6.48

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1.841 compression 1.7.4-1.7.4

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1.842 safe-buffer 5.2.0-5.2.0

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1.843 ee-first 1.1.1-1.1.1

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1.844 cookie 0.4.0-0.4.0

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1.846 http-cache-semantics 3.8.1-3.8.1

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1.847 component-emitter 1.3.0-1.3.0

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1.850 has-symbol-support-x 1.4.2-1.4.2

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1.851 node-gp 1.12.5-1.12.5

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

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1.856 unist-util-visit-parents 1.1.2-1.1.2

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1.857 loader-utils 1.4.0-1.4.0

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1.859 graceful-fs 4.2.6-4.2.6

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1.860 @types/cls-hooked 4.3.3-4.3.3

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1.861 mime-types 2.1.27-2.1.27

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1.865 lodash 4.17.4-4.17.4

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1.866 mongodb 2.2.34-2.2.34

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1.892 @mapbox/jsonlint-lines-primitives 2.0.1-2.0.1

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1.903 js-base64 2.6.4-2.6.4

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1.906 timed-out 4.0.1-4.0.1

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1.908 @mapbox/geojson-area 0.2.2-0.2.2

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1.942 @types/react 17.0.19-17.0.19

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1.954 csstype 3.0.8-3.0.8

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1.955 react 15.7.0-15.7.0

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1.956 react-shadow-dom-retarget-events 1.1.0-1.1.0

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1.959 svgpath 2.3.1-2.3.1

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1.962 mobx-logger 0.7.1-0.7.1

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1.964 @types/component-emitter 1.2.10-1.2.10

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Found in path(s):
* /opt/cola/permits/1230232024_1643651972.99/0/types-9-1-1-tgz/package/util.d.ts

1.967 socket.io-adapter 2.1.0-2.1.0

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1.969 @types/node 16.3.0-16.3.0

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1.979 engine.io-parser 4.0.2-4.0.2

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1.992 helmet 4.5.0-4.5.0

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1.1005 rc 1.2.8

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