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1.2 bzip2 1.0.6

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```
Julian Seward, Cambridge, UK.
jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

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minibz2
libbz2.dll test program.
by Yoshioka Tsuneo (tsuneo@rr.iij4u.or.jp)
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usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]

*/

1.3 docopt 0.6.2

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1.4 concat-map 0.0.1

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1.5 minimist 0.0.8

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1.8 has-ansi 2.0.0

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

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

Install

• • • •

\$ npm install --save has-ansi

```
## Usage

"js
var hasAnsi = require('has-ansi');
hasAnsi('u001b[4mcake\u001b[0m');
//=> true
hasAnsi('cake');
//=> false
""

## Related

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

## License
```

1.9 supports-color 2.0.0

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> Detect whether a terminal supports color

```
## Install

$ npm install --save supports-color

## Usage

***

js
```

```
var supportsColor = require('supports-color');
if (supportsColor) {
  console.log('Terminal supports color');
}
...

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

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

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

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1.10 unicodecsy 0.14.1

1.10.1 Available under license:

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

* /opt/cola/permits/113619482_1695287522.204296/0/unicodecsv-0-14-1-3-tar-gz/unicodecsv-0.14.1/setup.py No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1 Name: unicodecsv Version: 0.14.1

Found in path(s):

Summary: Python2's stdlib csv module is nice, but it doesn't support unicode. This module is a drop-in replacement

which *does*.

Home-page: https://github.com/jdunck/python-unicodecsv

Author: Jeremy Dunck

Author-email: jdunck@gmail.com

License: BSD License Description: unicodecsv

========

The unicodecsv is a drop-in replacement for Python 2.7's csv module which supports unicode strings without a hassle. Supported versions are python 2.7, 3.3, 3.4, 3.5, and pypy 2.4.0.

```
More fully
```

Python 2's csv module doesn't easily deal with unicode strings, leading to the dreaded "'ascii' codec can't encode characters in position ..." exception.

You can work around it by encoding everything just before calling write (or just after read), but why not add support to the serializer?

```
.. code-block:: pycon

>>> import unicodecsv as csv
>>> from io import BytesIO

>>> f = BytesIO()

>>> w = csv.writer(f, encoding='utf-8')

>>> _ = w.writerow((u'é', u'ñ'))

>>> _ = f.seek(0)

>>> r = csv.reader(f, encoding='utf-8')

>>> next(r) == [u'é', u'ñ']

True
```

Note that unicodecsv expects a bytestream, not unicode -- so there's no need to use `codecs.open` or similar wrappers. Plain `open(..., 'rb')` will do.

(Version 0.14.0 dropped support for python 2.6, but 0.14.1 added it back. See c0b7655248c4249 for the mistaken, breaking change.)

```
Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Natural Language :: English

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language

:: Python :: 2.7

Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: Implementation :: PyPy

Classifier: Programming Language :: Python :: Implementation :: CPython
```

Found in path(s):

* /opt/cola/permits/113619482_1695287522.204296/0/unicodecsv-0-14-1-3-tar-gz/unicodecsv-0.14.1/unicodecsv.egg-info/PKG-INFO

1.11 buffer-xor 1.0.3

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1.13 syslinux 6.03

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*

* This file is part of the lwIP TCP/IP stack.

*

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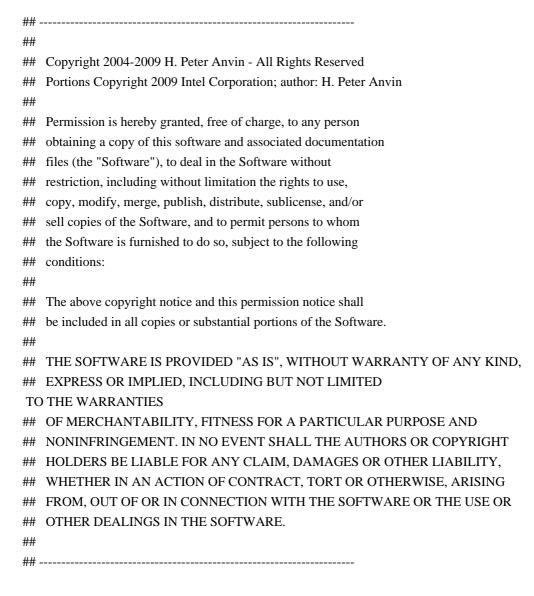
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```
printf("%s",png_get_copyright(NULL));
```

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Glenn Randers-Pehrson glennrp at users.sourceforge.net June 26, 2010

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1.14 browserify-rsa 4.0.1

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1.15 liblogging 1.0.5

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1.16 python-backports-ssl-match-hostname 3.5.0.1

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1.17 fastclick 1.0.6

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1.18 backbone 1.3.3

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1.19 is-array 1.0.0

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1.20 backbone-computedfields 0.0.12

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master/lib/amd/backbone.computedfields.js

* /opt/cola/permits/147231139_1695304164.8714235/0/master-179-zip/backbone-computedfields-master/lib/backbone.computedfields.js

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```
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* Bootstrap Responsive v2.1.1

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* Designed and built with all the love in the world @twitter by @mdo and @fat.
```

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- * /opt/cola/permits/147231139_1695304164.8714235/0/master-179-zip/backbone-computedfields-master/examples/css/bootstrap-responsive.css
- * /opt/cola/permits/147231139_1695304164.8714235/0/master-179-zip/backbone-computedfields-master/examples/css/bootstrap-responsive.min.css

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```
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* mocha
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*/
```

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1.21 backgrid-filter 0.3.7

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1.22 inflight 1.0.6

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1.23 once 1.4.0

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1.24 wrappy 1.0.2

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1.26 cookies 2.2.1

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Found in path(s):

* /opt/cola/permits/148343421_1695307977.777354/0/cookies-2-2-1-tar-gz/cookies-2.2.1/cookies.py No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1

Name: cookies Version: 2.2.1

Summary: Friendlier RFC 6265-compliant cookie parser/renderer

Home-page: https://github.com/sashahart/cookies

Author: Sasha Hart

Author-email: s@sashahart.net

License: UNKNOWN

Description: What is this and what is it for?

cookies.py is a Python module for working with HTTP cookies: parsing and rendering 'Cookie:' request headers and 'Set-Cookie:' response headers, and exposing a convenient API for creating and modifying cookies. It can be used as a replacement of Python's Cookie.py (aka http.cookies).

Features

* Rendering according to the excellent new RFC 6265

(rather than using a unique ad hoc format inconsistently relating to
unrealistic, very old RFCs which everyone ignored). Uses URL encoding to
represent

non-ASCII by default, like many other languages' libraries

- * Liberal parsing, incorporating many complaints about Cookie.py barfing on common cookie formats which can be reliably parsed (e.g. search 'cookie' on the Python issue tracker)
- * Well-documented code, with chapter and verse from RFCs (rather than arbitrary, undocumented decisions and huge tables of magic values, as you see in Cookie.py).
- * Test coverage at 100%, with a much more comprehensive test suite than Cookie.py
- * Single-source compatible with the following Python versions: 2.6, 2.7, 3.2, 3.3 and PyPy (2.7).
- * Cleaner, less surprising API::

```
# old Cookie.py - this code is all directly from its docstring
     >>> from Cookie import SmartCookie
     >>> C = SmartCookie()
     >>> # n.b. it's "smart" because it automatically pickles Python objects,
     >>> # which is actually
quite stupid for security reasons!
     >>> C["rocky"] = "road"
     >>> C["rocky"]["path"] = "/cookie"
     >>> # So C["rocky"] is a string, except when it's a dict...
     >>> # and why do I have to write [""] to access a fixed set of attrs?
     >>> # Look at the atrocious way I render out a request header:
     >>> C.output(attrs=[], header="Cookie:")
      'Cookie: rocky=road'
     # new cookies.py
     >>> from cookies import Cookies, Cookie
     >>> cookies = Cookies(rocky='road')
     >>> # Can also write explicitly: cookies['rocky'] = Cookie['road']
     >>> cookies['rocky'].path = "/cookie"
      >>> cookies.render_request()
      'rocky=road'
```

* Friendly to customization, extension, and reuse of its parts.

Unlike Cookie.py, it doesn't lock all implementation inside its own classes

(forcing you to write ugly wrappers as Django, Trac, Werkzeug/Flask, web.py

and Tornado had to do). You can suppress minor parse exceptions with parameters rather than subclass wrappers. You can plug in your own parsers, renderers and validators for new or existing cookie attributes. You can render the data out in a dict. You can easily use the underlying imperative API or even lift the parser's regexps for your own parser or project. They are very well documented and relate directly to RFCs, so you know exactly what you are getting and why. It's MIT-licensed so do what you want (but I'd love to know what use you are getting from it!)

- * One file, so you can just drop cookies.py into your project if you like
- * MIT license, so you can use it in whatever you want with no strings

Things this is not meant to do

While this is intended to be a good module for handling cookies, it does not even try to do any of the following:

- * Maintain backward compatibility with Cookie.py, which would mean inheriting its confusions and bugs
- * Implement RFCs 2109 or 2965, which have always been ignored by almost everyone and are now obsolete as well
- * Handle every conceivable output from terrible legacy apps, which is not possible to do without lots of silent data loss and corruption (the parser does try to be liberal as possible otherwise, though)
- * Provide a means to store pickled Python objects in cookie values (that's a big security hole)

This doesn't compete with the cookielib (http.cookiejar) module in the Python standard library, which is specifically for implementing cookie storage and similar behavior in an HTTP client such as a browser. Things cookielib does that this doesn't:

* Write to or read from browsers' cookie stores

or other proprietary

formats for storing cookie data in files

* Handle the browser/client logic like deciding which cookies to send or discard, etc.

If you are looking for a cookie library but neither this one nor cookielib will help, you might also consider the implementations in WebOb or Bottle.

Platform: UNKNOWN

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>>> # which is actually quite stupid for security reasons!

>>> # n.b. it's "smart" because it automatically pickles Python objects,

>>> from Cookie import SmartCookie

>>> C = SmartCookie()

>>> C["rocky"] = "road"

```
>>> C["rocky"]["path"] = "/cookie"
>>> # So C["rocky"] is a string, except when it's a dict...
>>> # and why do I have to write [""] to access a fixed set of attrs?
>>> # Look at the atrocious way I render out a request header:
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'Cookie: rocky=road'

# new cookies.py
>>> from cookies import Cookies, Cookie
>>> cookies = Cookies(rocky='road')
>>> # Can also write explicitly: cookies['rocky'] = Cookie['road']
>>> cookies['rocky'].path = "/cookie"
>>> cookies.render_request()
'rocky=road'
```

* Friendly to customization, extension, and reuse of its parts.

Unlike Cookie.py, it doesn't lock all implementation inside its own classes (forcing you to write ugly wrappers as Django, Trac, Werkzeug/Flask, web.py and Tornado had to do). You can suppress minor parse exceptions with parameters rather than subclass wrappers. You can plug in your own parsers, renderers and validators for new or existing cookie attributes. You can render the data out in a dict. You can easily use the underlying imperative API or even lift the parser's regexps for your own parser or project. They are very well documented and relate directly to RFCs, so you know exactly what you are getting and why. It's MIT-licensed so do what you want (but I'd love to know what use you are getting from it!)

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such as a browser. Things cookielib does that this doesn't:

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- * Handle the browser/client logic like deciding which cookies to send or discard, etc.

If you are looking for a cookie library but neither this one nor cookielib will help, you might also consider the implementations in WebOb or Bottle.

```
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```

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```
from setuptools import setup, Command
from cookies import __version__
class Test(Command):
 user_options = []
 def initialize_options(self):
    pass
 def finalize_options(self):
    pass
 def run(self):
    try:
      import pytest
    except ImportError:
      raise AssertionError("Install py.test to run the tests")
    import sys, subprocess
    errno = subprocess.call([sys.executable, '-m', 'py.test'])
    raise SystemExit(errno)
setup(
 name="cookies",
  version= version,
 author="Sasha Hart",
 author_email="s@sashahart.net",
 url="https://github.com/sashahart/cookies",
 py_modules=['cookies', 'test_cookies'],
 description="Friendlier RFC 6265-compliant cookie parser/renderer",
 long_description=open('README').read(),
 classifiers=[
    "Development Status :: 4 - Beta",
    "Environment :: Other Environment",
```

```
"Intended
             Audience :: Developers",
                "License :: OSI Approved :: MIT License",
                "Programming Language :: Python :: 2.6",
                "Programming Language :: Python :: 2.7",
                "Programming Language :: Python :: 3",
                "Programming Language :: Python :: 3.2",
                "Programming Language :: Python :: 3.3",
                "Programming Language :: Python :: Implementation :: PyPy",
                "Topic :: Software Development :: Libraries :: Python Modules",
              ],
              cmdclass = {'test': Test},
            )
            Found in path(s):
            */opt/cola/permits/148343421_1695307977.777354/0/cookies-2-2-1-tar-gz/cookies-2.2.1/setup.py
1.27 django-bulk-update 1.1.10
1.27.1 Available under license:
            No license file was found, but licenses were detected in source scan.
            Metadata-Version: 1.1
            Name: django-bulk-update
            Version: 1.1.10
            Summary: Bulk update using one query over Django ORM.
            Home-page: https://github.com/aykut/django-bulk-update
            Author: Aykut Ozat
            Author-email: aykutozat@gmail.com
            License: UNKNOWN
            Description: django-bulk-update
                [![Build Status](https://travis-ci.org/aykut/django-bulk-update.svg?branch=master)](https://travis-
            ci.org/aykut/django-bulk-update)
                [![Coverage Status](https://coveralls.io/repos/aykut/django-bulk-
            update/badge.svg?branch=master)](https://coveralls.io/r/aykut/django-bulk-update?branch=master)
                Simple bulk update over Django ORM or with helper function.
                This project aims to bulk update given objects using **one query** over
                **Django ORM**.
                Installation
                  pip install django-bulk-update
                Usage
```

```
With manager:
   ```python
 import random
 from bulk_update.manager import BulkUpdateManager
 from tests.models import Person
 class Person(models.Model):
 objects = BulkUpdateManager()
 random_names = ['Walter', 'The Dude', 'Donny', 'Jesus']
 people = Person.objects.all()
 for person in people:
 person.name = random.choice(random_names)
 Person.objects.bulk_update(people, update_fields=['name']) # updates only name column
 Person.objects.bulk_update(people, exclude_fields=['username']) # updates all columns except username
 Person.objects.bulk_update(people) # updates all columns
 Person.objects.bulk_update(people, batch_size=50000) # updates all columns by 50000 sized chunks
 With helper:
    ```python
   import random
    from bulk_update.helper import bulk_update
   from tests.models import Person
   random_names = ['Walter', 'The Dude', 'Donny', 'Jesus']
   people = Person.objects.all()
    for person in people:
     person.name = random.choice(random_names)
   bulk_update(people, update_fields=['name']) # updates only name column
   bulk_update(people, exclude_fields=['username']) # updates all columns except username
   bulk_update(people, using='someotherdb') # updates all columns using the given db
   bulk_update(people) # updates all columns using the default db
   bulk_update(people, batch_size=50000) # updates all columns by 50000 sized chunks using the default db
   Note: You can consider to use `.only('name')` when you only want to update `name`, so that Django will only
retrieve name data from db.
```

And consider to use `.defer('username')` when you don't

want to update 'username', so Django won't retrieve username from db.

These optimization can improve the performance even more.

```
Performance Tests:
```

```
_____
```

Here we test the performance of the `bulk_update` function vs. simply calling `.save()` on every object update (`dmmy_update`). The interesting metric is the speedup using the `bulk_update` function more than the actual raw times.

```
```python
Note: SQlite is unable to run the `timeit` tests
due to the max number of sql variables
In [1]: import os
In [2]: import timeit
In [3]: import django
In [4]: os.environ['DJANGO_SETTINGS_MODULE'] = 'tests.test_settings'
In [5]: django.setup()
In [6]: from tests.fixtures import create fixtures
In [7]: django.db.connection.creation.create_test_db()
In [8]: create_fixtures(1000)
In [9]: setup=""
import random
from bulk_update import helper
from tests.models import Person
random_names = ['Walter', 'The Dude', 'Donny', 'Jesus']
ids = list(Person.objects.values_list('id', flat=True)[:1000])
people = Person.objects.filter(id__in=ids)
for p in people:
 name = random.choice(random_names)
 p.name = name
 p.email = '%s@example.com' % name
bu_update = lambda: helper.bulk_update(people, update_fields=['name', 'email'])
In [10]: bu_perf = min(timeit.Timer('bu_update()', setup=setup).repeat(7, 100))
In [11]: setup=""
import random
from tests.models import Person
from django.db.models import F
random_names = ['Walter', 'The Dude', 'Donny', 'Jesus']
ids = list(Person.objects.values_list('id', flat=True)[:1000])
```

```
people = Person.objects.filter(id__in=ids)
 def dmmy_update():
 for p in people:
 name = random.choice(random_names)
 p.name = name
 p.email = '%s@example.com' % name
 p.save(update fields=['name', 'email'])
 In [12]: dmmy_perf = min(timeit.Timer('dmmy_update()', setup=setup).repeat(7, 100))
 In [13]: print 'Bulk update performance: %.2f. Dummy update performance: %.2f. Speedup: %.2f.' % (bu_perf,
dmmy_perf, dmmy_perf / bu_perf)
 Bulk update performance: 7.05. Dummy update performance: 373.12. Speedup: 52.90.
 Requirements
 - Django 1.2+
 Contributors
 - [aykut](https://github.com/aykut)
 - [daleobrien](https://github.com/daleobrien)
 - [sruon](https://github.com/sruon)
 - [HowerHell](https://github.com/HoverHell)
 - [c-nichols](https://github.com/c-nichols)
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 - [wetneb](https://github.com/wetneb)
 - [tatterdemalion](https://github.com/tatterdemalion)
 - [gabriel-laet](https://github.com/gabriel-laet)
 TODO
 - Geometry Fields support
 License
 django-bulk-update is released under the MIT License. See the LICENSE file for more details.
Platform: UNKNOWN
Classifier: Environment :: Web Environment
Classifier: Framework :: Django
Classifier: Intended Audience :: Developers
```

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent Classifier: Programming Language :: Python

Classifier: Programming Language ::

Python:: 2

Classifier: Programming Language :: Python :: 2.7 Classifier: Programming Language :: Python :: 3 Classifier: Programming Language :: Python :: 3.3 Classifier: Programming Language :: Python :: 3.4

Classifier: Topic :: Internet :: WWW/HTTP

Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content

#### Found in path(s):

1.1.10/PKG-INFO

\* /opt/cola/permits/148344584\_1695307979.0263047/0/django-bulk-update-1-1-10-tar-gz/django-bulk-update-

1.1.10/django\_bulk\_update.egg-info/PKG-INFO

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#### Found in path(s):

 $*/opt/cola/permits/148344584\_1695307979.0263047/0/django-bulk-update-1-1-10-tar-gz/django-bulk-update-1.1.10/README.md$ 

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

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

### Found in path(s):

 $*/opt/cola/permits/148344584\_1695307979.0263047/0/django-bulk-update-1-1-10-tar-gz/django-bulk-update-1.1.10/setup.py$ 

## 1.28 incremental 16.10.1

## 1.28.1 Available under license:

Incremental

-----

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## 1.29 websocket-client 0.40.0

### 1.29.1 Available under license:

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That's all there is to it!

# 1.30 python-requests 2.11.1

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Requests includes some vendorized python libraries to ease installation.

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## **1.31 pickleshare 0.7.4**

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# 1.32 pygments 2.2.0

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## 1.35 packaging 16.8

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## 1.36 idna 2.5

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```
Found in path(s):
```

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,,,,,

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

,,,,,

```
import io, sys
from setuptools import setup

version = "2.5"

def main():

 python_version = sys.version_info[:2]
 if python_version < (2,6):
 raise SystemExit("Sorry, Python 2.6 or newer required")

arguments = {
 'name': 'idna',
 'packages': ['idna'],
 'version': version,
 'description': 'Internationalized Domain Names in Applications (IDNA)',</pre>
```

```
'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 :: 2.6',
 'Programming Language:: Python:: 2.7',
 'Programming Language :: Python :: 3',
 'Programming Language:: Python:: 3.3',
 'Programming Language :: Python :: 3.4',
 'Programming Language:: Python:: 3.5',
 'Programming Language :: Python :: 3.6',
 'Topic :: Internet :: Name Service (DNS)',
 'Topic :: Software Development :: Libraries :: Python Modules',
 'Topic :: Utilities',
],
 'test suite': 'tests',
 setup(**arguments)
if __name__ == '__main__':
 main()
Found
in path(s):
* /opt/cola/permits/151249258_1695308605.4099643/0/idna-2-5-tar-gz/idna-2.5/setup.py
No license file was found, but licenses were detected in source scan.
Metadata-Version: 1.1
Name: idna
Version: 2.5
Summary: Internationalized Domain Names in Applications (IDNA)
Home-page: https://github.com/kjd/idna
Author: Kim Davies
Author-email: kim@cynosure.com.au
License: BSD-like
Description: Internationalized Domain Names in Applications (IDNA)
```

}

Support for the Internationalised Domain Names in Applications

```
(IDNA) protocol as specified in `RFC 5891 http://tools.ietf.org/html/rfc5891.
 This is the latest version of the protocol and is sometimes referred to as
 "IDNA 2008".
 This library also provides support for Unicode Technical Standard 46,
 `Unicode IDNA Compatibility Processing http://unicode.org/reports/tr46/`_.
 This acts as a suitable replacement for the "encodings.idna" module that
 comes with the Python standard library,
but only supports the
 old, deprecated IDNA specification (`RFC 3490 ">">").
 Basic functions are simply executed:
 .. code-block:: pycon
 # Python 3
 >>> import idna
 >>> idna.encode('.')
 b'xn--eckwd4c7c.xn--zckzah'
 >>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
 # Python 2
 >>> import idna
 >>> idna.encode(u'.')
 'xn--eckwd4c7c.xn--zckzah'
 >>> print idna.decode('xn--eckwd4c7c.xn--zckzah')
 Packages

 The latest tagged release version is published in the PyPI repository:
 .. image:: https://badge.fury.io/py/idna.svg
 :target: http://badge.fury.io/py/idna
 Installation
 To install this library,
you can use pip:
 .. code-block:: bash
 $ pip install idna
```

```
.. code-block:: bash
 $ python setup.py install
This library works with Python 2.6 or later, and Python 3.3 or later.
Usage
For typical usage, the ``encode`` and ``decode`` functions will take a domain
name argument and perform a conversion to A-labels or U-labels respectively.
.. code-block:: pycon
 # Python 3
 >>> import idna
 >>> idna.encode('.')
 b'xn--eckwd4c7c.xn--zckzah'
 >>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
You may use the codec encoding and decoding methods using the
"idna.codec" module:
.. code-block:: pycon
 # Python 2
 >>> import idna.codec
 >>> print u'.'.encode('idna')
 xn--80ahd1agd.xn--80akhbyknj4f
 >>> print 'xn--80ahd1agd.xn--80akhbyknj4f'.decode('idna')
Conversions can be applied at a per-label basis using the "ulabel" or "alabel"
functions if necessary:
.. code-block:: pycon
 # Python 2
 >>> idna.alabel(u")
 'xn--0zwm56d'
Compatibility Mapping (UTS #46)
```

Alternatively, you can install the package using the bundled setup script:

As described in `RFC 5895 <a href="http://tools.ietf.org/html/rfc5895">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.ietf.org/html/rfc5895>">http://tools.i

This library provides one such mapping, that was developed by the Unicode Consortium. Known as `Unicode IDNA Compatibility Processing <a href="http://unicode.org/reports/tr46/">http://unicode.org/reports/tr46/</a>, it provides for both a regular mapping for typical applications, as well as a transitional mapping to help migrate from older IDNA 2003 applications.

For example, "Königsgäßchen" is not a permissible label as \*LATIN CAPITAL LETTER K\* is not allowed (nor are capital letters in general). UTS 46 will convert this into lower case prior to applying the IDNA conversion.

```
Python 3

>>> import idna

>>> idna.encode(u'Königsgäßchen')

...

idna.core.InvalidCodepoint: Codepoint U+004B at position 1 of 'Königsgäßchen' not allowed

>>> idna.encode('Königsgäßchen', uts46=True)

b'xn--knigsgchen-b4a3dun'

>>> print(idna.decode('xn--knigsgchen-b4a3dun'))

königsgäßchen
```

Transitional processing provides conversions to help transition from the older 2003 standard to the current standard. For example, in the original IDNA specification, the \*LATIN SMALL LETTER SHARP S\* (B) was converted into two \*LATIN SMALL LETTER S\* (ss), whereas in the current IDNA specification this conversion is not performed.

```
.. code-block:: pycon

Python 2

>>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
'xn--knigsgsschen-lcb0w'
```

Implementors should use transitional processing with caution, only in rare cases where conversion from legacy labels to current labels must be performed (i.e. IDNA implementations that pre-date 2008). For typical applications that just need to convert labels, transitional processing is unlikely to be beneficial and could

produce unexpected incompatible results.

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<sup>&</sup>quot;encodings.idna" Compatibility

Function calls from the Python built-in ``encodings.idna`` module are mapped to their IDNA 2008 equivalents using the ``idna.compat`` module. Simply substitute the ``import`` clause in your code to refer to the new module name.

#### Exceptions

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All errors raised during the conversion following the specification should raise an exception derived from the ``idna.IDNAError`` base class.

More specific exceptions that may be generated as ``idna.IDNABidiError`` when the error reflects an illegal combination of left-to-right and right-to-left characters in a label; ``idna.InvalidCodepoint`` when a specific codepoint is an illegal character in an IDN label (i.e. INVALID); and ``idna.InvalidCodepointContext`` when the codepoint

is illegal based on its positional context (i.e. it is CONTEXTO or CONTEXTJ but the contextual requirements are not satisfied.)

**Testing** 

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The library has a test suite based on each rule of the IDNA specification, as well as tests that are provided as part of the Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <a href="http://unicode.org/reports/tr46/">http://unicode.org/reports/tr46/</a> \_\_.

The tests are run automatically on each commit at Travis CI:

.. image:: https://travis-ci.org/kjd/idna.svg?branch=master :target: https://travis-ci.org/kjd/idna

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: Intended Audience :: System Administrators Classifier: License :: OSI Approved :: BSD License Classifier: Operating System :: OS Independent Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7 Classifier: Programming Language :: Python :: 3 Classifier: Programming Language :: Python :: 3.3 Classifier: Programming Language :: Python :: 3.4 Classifier: Programming Language :: Python :: 3.5 Classifier: Programming Language :: Python :: 3.6 Classifier: Topic :: Internet :: Name Service (DNS)

Classifier: Topic :: Software Development :: Libraries :: Python Modules

Classifier: Topic :: Utilities

#### Found in path(s):

\*/opt/cola/permits/151249258\_1695308605.4099643/0/idna-2-5-tar-gz/idna-2.5/PKG-INFO

\*/opt/cola/permits/151249258 1695308605.4099643/0/idna-2-5-tar-gz/idna-2.5/idna.egg-info/PKG-INFO

## 1.37 jsesc 0.5.0

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# 1.38 json5 0.5.1

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## 1.39 xmltodict 0.11.0

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# 1.40 appdirs 1.4.3

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# 1.41 pyparsing 2.2.0

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## 1.42 strict-rfc3339 0.7

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## 1.56 xlrd 1.1.0

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Metadata-Version: 1.1

Name: xlrd Version: 1.1.0

Summary: Library for developers to extract data from Microsoft Excel (tm) spreadsheet files

Home-page: http://www.python-excel.org/

Author: John Machin

Author-email: sjmachin@lexicon.net

License: BSD

Description: Extract data from Excel spreadsheets (.xls and .xlsx, versions 2.0 onwards) on any platform. Pure

Python (2.7, 3.4+). Strong support for Excel dates. Unicode-aware.

Keywords: xls,excel,spreadsheet,workbook Platform: Any platform -- don't need Windows

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

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## 1.84 chardet 3.0.4

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# 1.105 graceful-fs 4.1.11

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# 1.110 fill-range 2.2.3

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# 1.111 filename-regex 2.0.1

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# 1.112 dcron 4.5

# 1.113 docker-compose 1.10.0

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## 1.115 vcversioner 2.16.0.0

#### 1.115.1 Available under license:

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#### Found in path(s):

\*/opt/cola/permits/163079448\_1695313843.908985/0/vcversioner-2-16-0-0-tar-gz/vcversioner-

2.16.0.0/vcversioner.py

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Metadata-Version: 1.1 Name: veversioner Version: 2.16.0.0

Summary: Use version control tags to discover version numbers

Home-page: https://github.com/habnabit/vcversioner

Author: Aaron Gallagher Author-email: @habnab.it

License: ISC

Description: .. image:: https://travis-ci.org/habnabit/vcversioner.png

vcversioner

`Elevator pitch`\_: you can write a ``setup.py`` with no version information specified, and veversioner will find a recent, properly-formatted VCS tag and extract a version from it.

It's much more convenient to be able to use your version control system's tagging mechanism to derive a version number than to have to duplicate that information all over the place. I eventually ended up copy-pasting the same code into a couple different ``setup.py`` files just to avoid duplicating version information. But, copy-pasting is dumb and unit testing ``setup.py`` files is hard. This code got factored out into veversioner.

```
Basic usage
```

-----

veversioner installs itself as a setuptools hook, which makes its use exceedingly simple::

from setuptools import setup

```
setup(
 # [...]
 setup_requires=['vcversioner'],
 vcversioner={ },
)
```

The presence of a ``vcversioner`` argument automagically activates vcversioner and updates the project's version. The parameter to the ``vcversioner`` argument can also be a dict of keyword arguments which |find\_version| will be called with.

To allow tarballs to be distributed without requiring a ``.git`` (or ``.hg``, etc.) directory, veversioner will also write out a file named (by default) ``version.txt``. Then,

if there is no VCS program or the program is unable to

find any version information, veversioner will read version information from the ``version.txt`` file. However, this file needs to be included in a distributed tarball, so the following line should be added to ``MANIFEST.in``::

include version.txt

This isn't necessary if ``setup.py`` will always be run from a checkout, but otherwise is essential for vcversioner to know what version to use.

The name ``version.txt`` also can be changed by specifying the ``version\_file`` parameter. For example::

from setuptools import setup

```
setup(
 # [...]
 setup_requires=['vcversioner'],
 vcversioner={
 'version_file': 'custom_version.txt',
 },
)
```

For compatibility with `semantic versioning`\_, ``vcversioner`` will strip

```
leading \"'v"\' \ s from version tags. That is, the tag \"'v1.0" will be treated as if it was \"'1.0".
```

Other prefixes can be specified to be stripped by using the ``strip\_prefix`` argument to vcversioner. For compatibility with ``git-dch``, one could specify the ``strip\_prefix`` as ``'debian/'``.

#### Non-hook usage

-----

It's not necessary to depend on voversioner; while `pip`\_ will take care of dependencies automatically, sometimes having a self-contained project is simpler. voversioner is a single file which is easy to add to a project. Simply copy the entire ``voversioner.py`` file adjacent to the existing ``setup.py`` file and update the usage slightly::

```
from setuptools import setup
import veversioner

setup(
 # [...]
 version=veversioner.find_version().version,
)
```

This is necessary because the "vcversioner" distutils hook won't be available.

#### Version modules

-----

``setup.py`` isn't the only place that version information gets duplicated. By generating a version module, the ``\_\_init\_\_.py`` file of a package can import version information. For example, with a package named ``spam``::

from setuptools import setup

```
setup(
 # [...]
 setup_requires=['vcversioner'],
 vcversioner={
 'version_module_paths': ['spam/_version.py'],
 },
)
```

This will generate a ``spam/\_version.py`` file that defines ``\_\_version\_\_`` and

```
``__revision__``. Then, in ``spam/__init__.py``::
 from spam._version import __version__, __revision__
 Since this acts like (and *is*) a regular python module, changing
"MANIFEST.in" is not required.
 Customizing VCS commands

 veversioner by default tries to detect which VCS is being used and picks a
 command to run based on that. For git, that is "git --git-dir %(root)s/.git
 describe --tags --long``. For hg, that is ``hg log -R %(root)s -r . --template
 '{latesttag}-{latesttagdistance}-hg{node|short}'`.
 Any command should output a string that describes the current commit in the
 format ``1.0-0-gdeadbeef``. Specifically, that is ``<version number>-<number of
 commits between the current commit and the version tagged commit>-<revision>``.
 The revision should have a VCS-specific prefix, e.g. "g" for git and "hg"
 for hg.
 However, sometimes this isn't sufficient. If someone wanted to only use
 annotated tags, the git command could be amended like so::
 from setuptools
import setup
 setup(
 #[...]
 setup_requires=['vcversioner'],
 vcversioner={
 'vcs_args': ['git', 'describe', '--long'],
 },
)
 The "vcs_args" parameter must always be a list of strings, which will not be
 interpreted by the shell. This is the same as what ``subprocess.Popen``
 expects.
```

This argument used to be spelled ``git\_args`` until support for multiple VCS systems was added.

Development versions

-----

veversioner can also automatically make a version that corresponds to a commit that isn't itself tagged. Following `PEP 386`\_, this is done by adding a ``.post`` suffix to the version specified by a tag on an earlier commit. For example, if the current commit is three revisions past the ``1.0`` tag, the computed version will be ``1.0.post3``.

This behavior can be disabled by setting the ``include\_dev\_version`` parameter to ``False``. In that case, the aforementioned untagged commit's version would be just ``1.0``.

Since hg requires a commit to make a tag, there's a parameter ``decrement\_dev\_version`` to subtract one from the number of commits after the most recent tag. If the VCS used is detected to be hg (i.e. the revision starts with ``'hg'``) and ``decrement\_dev\_version`` is not specified as ``False``, ``decrement\_dev\_version`` will be automatically set to ``True``.

# Project roots

-----

In order to prevent contamination from other source repositories, veversioner in the 1.x version series will only look in the project root directory for repositories. The project root defaults to the current working directory, which is often the case when running setup.py.

This can be changed by specifying the

"root" parameter. Someone concerned with being able to run setup.py from directories other than the directory containing setup.py should determine the project root from "\_\_file\_\_" in setup.py::

```
from setuptools import setup
import os

setup(
 # [...]
 setup_requires=['vcversioner'],
 vcversioner={
 'root': os.path.dirname(os.path.abspath(__file__)),
 },
)
```

To get the same behavior in the 0.x version series, "vcs\_args" can be set to include the "--git-dir" flag::

from setuptools import setup

```
setup(
 # [...]
 setup_requires=['vcversioner'],
```

```
vcversioner={
 vcs_args=['git', '--git-dir', '%(root)s/.git', 'describe',
 '--tags', '--long'],
 },
 By default, "version.txt" is also read from the project root.
 Substitutions
 As seen above, *root*, *version_file*, and *vcs_args* each support some
 substitutions:
 ``%(root)s``
 The value provided for *root*. This is not available for the *root*
 parameter itself.
 ``%(pwd)s``
 The current working directory.
 ``/` will automatically be translated into the correct path separator for the
 current platform, such as ``:`` or ``\``.
 Sphinx documentation

 `Sphinx`_ documentation is yet another place where version numbers get
 duplicated. Fortunately, since sphinx configuration is python code, veversioner
 can be used there too. Assuming voversioner is installed system-wide, this is
 quite easy. Since Sphinx is
typically run with the current working directory as
 "><your project root>/docs", it's necessary to tell vcversioner where the
 project root is. Simply change your ``conf.py`` to include::
 import vcversioner
 version = release = vcversioner.find_version(root='..').version
 This assumes that your project root is the parent directory of the current
 working directory. A slightly longer version which is a little more robust
 would be::
 import veversioner, os
 version = release = vcversioner.find_version(
 root = os.path.dirname(os.path.dirname(os.path.abspath(\underline{}file\underline{})))).version
```

This version is more robust because it finds the project root not relative to the current working directory but instead relative to the ``conf.py`` file.

If vcversioner is bundled with your project instead of relying on it being installed, you might have

to add the following to your ``conf.py`` before

```
"import veversioner":::
```

```
import sys, os
sys.path.insert(0, os.path.abspath('..'))
```

This line, or something with the same effect, is sometimes already present when using the sphinx ``autodoc`` extension.

#### Read the Docs

~~~~~~~~~

Using voversioner is even possible when building documentation on `Read the Docs`\_. If voversioner is bundled with your project, nothing further needs to be done. Otherwise, you need to tell Read the Docs to install voversioner before it builds the documentation. This means using a ``requirements.txt`` file.

If your project is already set up to install dependencies with a "requirements.txt" file, add "vcversioner" to it. Otherwise, create a "requirements.txt" file. Assuming your documentation is in a "docs" subdirectory

of the main project directory, create ``docs/requirements.txt`` containing a ``vcversioner`` line.

Then, make the following changes to your project's configuration: (Project configuration is edited at e.g.

https://readthedocs.org/dashboard/vcversioner/edit/)

- Check the checkbox under \*\*Use virtualenv\*\*.
- If there was no ``requirements.txt`` previously, set the \*\*Requirements file\*\* to the newly-created one, e.g. ``docs/requirements.txt``.
- $..\ \_Elevator\ pitch: http://en.wikipedia.org/wiki/Elevator\_pitch$
- .. \_pip: https://pypi.python.org/pypi/pip
- .. \_PEP 386: http://www.python.org/dev/peps/pep-0386/
- .. \_Sphinx: http://sphinx-doc.org
- .. \_Read the Docs: https://readthedocs.org/
- .. \_semantic versioning: http://semver.org/

.. |find\_version| replace:: ``find\_version``

Platform: UNKNOWN

Classifier: Development Status :: 3 - Alpha

Classifier:

Intended Audience :: Developers

Classifier: License :: OSI Approved :: ISC License (ISCL)

Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5

Classifier: Topic :: Software Development :: Version Control

#### Found in path(s):

- \*/opt/cola/permits/163079448\_1695313843.908985/0/vcversioner-2-16-0-0-tar-gz/vcversioner-2.16.0.0/PKG-INFO
- \*/opt/cola/permits/163079448\_1695313843.908985/0/vcversioner-2-16-0-0-tar-gz/vcversioner-
- 2.16.0.0/vcversioner.egg-info/PKG-INFO

# 1.116 webcolors 1.7

# 1.116.1 Available under license:

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# 1.117 open-vm-tools 5a9033ddfa95786d867e4d02bbb9a29bac8fb64 f

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# 1.118 rsyslog 8.22.0

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# 1.122 python-cached-property 1.3.0

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

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

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

(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:

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

It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php\_curl, or with

an Apache+mod\_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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

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

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

Metadata-Version: 1.1

Name: certifi Version: 2018.1.18

Summary: Python package for providing Mozilla's CA Bundle.

Home-page: http://certifi.io/ Author: Kenneth Reitz

Author-email: me@kennethreitz.com

License: MPL-2.0

Description: Certifi: Python SSL Certificates

`Certifi`\_ is a carefully curated collection of Root Certificates for validating the trustworthiness of SSL certificates while verifying the identity of TLS hosts. It has been extracted from the `Requests`\_ project.

```
Installation

'`certifi`` is available on PyPI. Simply install it with ``pip``::

$ pip install certifi

Usage

To reference the installed certificate authority (CA) bundle, you can use the built-in function::

>>> import certifi

>>> certifi.where()
'/usr/local/lib/python2.7/site-packages/certifi/cacert.pem'

Enjoy!

1024-bit Root Certificates
```

Browsers and certificate authorities have concluded that 1024-bit keys are unacceptably weak for certificates, particularly root certificates. For this reason, Mozilla has removed any weak (i.e. 1024-bit key) certificate from its bundle, replacing it with an equivalent strong (i.e. 2048-bit or greater key) certificate from the same CA. Because Mozilla removed these certificates from its bundle, "certifi" removed them as well.

In previous versions, "certifi" provided the "certifi.old\_where()" function to intentionally re-add the 1024-bit roots back into your bundle. This was not recommended in production and therefore was removed. To assist in migrating old code, the function "certifi.old\_where()" continues to exist as an alias of

```
``certifi.where()``. Please update your code to use ``certifi.where()`` instead. ``certifi.old_where()`` will be removed in 2018.
```

```
.. _`Certifi`: http://certifi.io/en/latest/
```

 $..\ \_\ Requests\ \ :\ http://docs.python-requests.org/en/latest/$ 

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### 1.203 websocket-client 0.47.0

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## 1.204 iptables 1.6.1

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

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

\* atf-c/ui.c: The format\_paragraph and format\_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

```
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.
Author: Julio Merino <jmmv84@gmail.com>
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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\* admin/check-style.sh,

admin/check-style-common.awk,

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```
<!-- Id -->
<!-- Generate ISC copyright comments from Docbook copyright metadata. -->
<xsl:stylesheet version="1.0"</pre>
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
 xmlns:db="http://docbook.org/ns/docbook">
<xsl:template name="isc.copyright.format">
 <xsl:param name="text"/>
 <xsl:value-of select="$isc.copyright.leader"/>
 <xsl:value-of select="normalize-space(substring-before($text, '
'))"/>
 <xsl:text>
:</xsl:text>
 <xsl:variable name="rest" select="substring-after($text, '
')"/>
 <xsl:if test="translate($rest, '	 ', ")">
 <xsl:call-template name="isc.copyright.format">
 <xsl:with-param name="text" select="$rest"/>
 </xsl:call-template>
 </xsl:if>
</xsl:template>
<xsl:variable name="isc.copyright.text">
 <xsl:text>
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 </xsl:text>
```

</xsl:variable>

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

<xsl:with-param name="text">

<xsl:call-template name="isc.copyright.format">

```
<xsl:for-each select="book/info/copyright"> (xsl:for-each select="book/info/copyright")
 <xsl:text>Copyright (C) </xsl:text>
 <xsl:call-template name="copyright.years">
 <xsl:with-param name="years" select="year"/>
 </xsl:call-template>
 <xsl:text> </xsl:text>
 <xsl:value-of select="holder"/>
 <xsl:value-of select="$isc.copyright.breakline"/>
 <xsl:text>
</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
 </xsl:with-param>
 </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>
<!--
- Local variables:
- mode: sgml
- End:
-->
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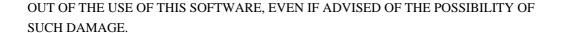
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# 1.207 brace-expansion 1.1.11

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# 1.208 process-nextick-args 2.0.0

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# 1.209 regenerator-runtime 0.11.1

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# 1.210 python-cffi 1.11.5

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# 1.211 requests-toolbelt 0.8.0

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# 1.212 source-map 0.5.7

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# 1.213 coverage 4.3.4

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Metadata-Version: 1.1

Name: isodate Version: 0.6.0

Summary: An ISO 8601 date/time/duration parser and formatter

Home-page: https://github.com/gweis/isodate/

Author: Gerhard Weis

Author-email: gerhard.weis@proclos.com

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:target: https://pypi.python.org/pypi/isodate/

:alt: License

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

For instance, ISO8601:2004 never mentions 2 digit years. So, it is not

intended by this module to support 2 digit years. (while it may still be valid as ISO date, because it is not explicitly forbidden.)

Another example is, when no time zone information is given for a time, then it should be interpreted as local time, and not UTC.

As this module maps ISO 8601 dates/times to standard Python data types, like \*date\*, \*time\*, \*datetime\* and \*timedelta\*, it is not possible to convert all possible ISO 8601 dates/times.

For instance, dates before 0001-01-01 are

not allowed by the Python \*date\* and \*datetime\* classes. Additionally fractional seconds are limited to microseconds. That means if the parser finds for instance nanoseconds it will round it to microseconds.

#### Documentation

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Currently there are four parsing methods available.

\* parse\_time:

parses an ISO 8601 time string into a \*time\* object

\* parse\_date:

parses an ISO 8601 date string into a \*date\* object

\* parse\_datetime:

parses an ISO 8601 date-time string into a \*datetime\* object

\* parse\_duration:

parses an ISO 8601 duration string into a \*timedelta\* or \*Duration\* object.

\* parse tzinfo:

parses the time zone info part of an ISO 8601 string into a \*tzinfo\* object.

#### As ISO 8601 allows to

define durations in years and months, and \*timedelta\*

does not handle years and months, this module provides a \*Duration\* class, which can be used almost like a \*timedelta\* object (with some limitations). However, a \*Duration\* object can be converted into a \*timedelta\* object.

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

\* time\_isoformat:

Intended to create ISO time strings with default format \*hh:mm:ssZ\*.

\* date isoformat:

Intended to create ISO date strings with default format \*yyyy-mm-dd\*.

\* datetime\_isoformat:

Intended to create ISO date-time strings with default format \*yyyy-mm-ddThh:mm:ssZ\*.

\* duration\_isoformat:

Intended to create ISO duration strings with default format \*PnnYnnMnnDTnnHnnMnnS\*.

\* tz isoformat:

Intended to create ISO time zone strings with default format \*hh:mm\*.

\* strftime:

A re-implementation mostly compatible with Python's \*strftime\*, but supports only those format strings, which can also be used for dates prior 1900. This method also understands how to format \*datetime\* and \*Duration\* instances.

#### Installation:

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

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

#### Limitations:

\_\_\_\_\_

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

- for date and time together, this parser accepts a mixture of basic and extended format.
   e.g. the date could be in basic format, while the time is accepted in extended format.
   It also allows short dates and times in date-time strings.
- 2. For incomplete dates, the first day is chosen. e.g. 19th century results in a date of 1901-01-01.
- 3. negative \*Duration\* and \*timedelta\* value are not fully supported yet.

#### Further information:

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

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

Source code is available at `<a href="http://github.com/gweis/isodate">-..

**CHANGES** 

0.6.0 (2017-10-13) - support incomplete month date (Fabien Loffredo) - rely on duck typing when doing duration maths - support ':' as separator in fractional time zones (usrenmae) 0.5.4 (2015-08-06) ------ Fix parsing of Periods (Fabien Bochu) - Make Duration objects hashable (Geoffrey Fairchild) - Add multiplication to duration (Reinoud Elhorst) 0.5.1 (2014-11-07) ------ fixed pickling of Duration objects - raise ISO8601Error when there is no 'T' separator in datetime strings (Adrian Coveney) 0.5.0 (2014-02-23) - ISO8601Error are subclasses of ValueError now (Michael Hrivnak) - improve compatibility across various python variants and versions - raise exceptions when using fractional years and months in date maths with durations - renamed method todatetime on Duraction objects to totimedelta 0.4.9 (2012-10-30) \_\_\_\_\_ - support pickling FixedOffset instances - make sure parsed fractional seconds are in microseconds - add leading zeros when formattig microseconds (Jarom Loveridge) 0.4.8 (2012-05-04)

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

- fixed precision problem with microseconds (reported by Tommi Virtanen)

0.4.0 (2009-02-09)

- added method to parse ISO 8601 time zone strings

- added methods to create ISO 8601 conforming strings

# 0.3.0 (2009-1-05) \_\_\_\_\_ - Initial release **TODOs** \_\_\_\_ This to do list contains some thoughts and ideas about missing features, and parts to think about, whether to implement them or not. This list is probably not complete. Missing features: -----\* time formating does not allow to create fractional representations. \* parser for ISO intervals. \* currently microseconds are always padded to a length of 6 characters. trailing 0s should be optional Documentation: \_\_\_\_\_ \* parse\_datetime: - complete documentation to show what this function allows, but ISO forbids. and vice verse. - support other separators between date and time than 'T' \* parse\_date: - yeardigits should be always greater than 4 - dates before 0001-01-01 are not supported \* parse\_duration: - alternative formats are not fully supported due to parse\_date restrictions - standard duration format is fully supported but not very restrictive. \* Duration: - support fractional years and month in calculations - implement w3c order relation? (`<a href="http://www.w3.org/TR/xmlschema-2/#duration-order">http://www.w3.org/TR/xmlschema-2/#duration-order</a> \_) - refactor to have duration mathematics only at one place. - localize \_\_str\_\_ method (does timedelta do this?) - when is a Duration negative?

Platform: UNKNOWN

Classifier: Development Status :: 4 - Beta

- normalize Durations. months [00-12] and years ]-inf,+inf[

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License Classifier: Operating System :: OS Independent

Classifier:

Programming Language :: Python

Classifier: Programming Language :: Python :: 2.6 Classifier: Programming Language :: Python :: 2.7 Classifier: Programming Language :: Python :: 3.3 Classifier: Programming Language :: Python :: 3.4 Classifier: Programming Language :: Python :: 3.5 Classifier: Programming Language :: Python :: 3.6

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#### Found in path(s):

- \*/opt/cola/permits/178631363\_1695329442.7059288/0/isodate-0-6-0-tar-gz/isodate-0.6.0/src/isodate.egg-info/PKG-INFO
- $*/opt/cola/permits/178631363\_1695329442.7059288/0/isodate-0-6-0-tar-gz/isodate-0.6.0/PKG-INFO$

# 1.216 traitlets 4.3.2

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# 1.218 zeep 2.5.0

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\_\_

Parts of the XSD handling are heavily inspired by soapfish, see: https://github.com/FlightDataServices/soapfish

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The support for BinarySecurityToken is from py-wsse, see: https://github.com/orcasgit/py-wsse

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# 1.220 wsaccel 0.6.2

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Metadata-Version: 1.1

Name: wsaccel Version: 0.6.2

Summary: Accelerator for ws4py and AutobahnPython

Home-page: https://github.com/methane/wsaccel

Author: INADA Naoki

Author-email: songofacandy@gmail.com

License: Apache

Description: WSAccell

\_\_\_\_\_

WSAccell is WebSocket accelerator for `AutobahnPython <a href="http://autobahn.ws/python">`\_, `ws4py <a href="https://github.com/Lawouach/WebSocket-for-Python">`\_ and `Tornado <a href="http://www.tornadoweb.org/">>`\_.

WSAccell replaces per-byte process in them with Cython version.

AutobahnPython beginning with version 0.6 automatically uses WSAccell if available. Otherwise you can run-time patch supported WebSocket libraries using:

```
.. code-block:: python

import wsaccel
wsaccel.patch_autobahn() # for autobahn.
wsaccel.patch_ws4py() # for ws4py.

wsaccel.patch_tornado() # for Tornado
```

Platform: any

Classifier: Intended Audience :: Developers
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3.7
Classifier: Programming Language :: Python :: 3.2
Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: Implementation :: CPython

#### Found in path(s):

# 1.221 diff-match-patch 20121119

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## 1.223 lunr 0.7.2

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# 1.225 pkijs 2.1.10

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## 1.229 readable-stream 2.3.6

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# 1.231 babel-generator 6.26.1

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# 1.232 i18next 7.2.3

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# 1.236 gojsonschema f06f290571ce81ab347174c6f7ad2e1865af41a7

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## 1.237 safe-buffer 5.1.2

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## 1,241 idna 2,7

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,,,,,

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

....

import io, sys from setuptools import setup

def main():

```
python_version = sys.version_info[:2]
if python_version < (2,6):
 raise SystemExit("Sorry, Python 2.6 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',</pre>
```

```
'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 :: 2.6',
 'Programming Language:: Python:: 2.7',
 'Programming Language :: Python :: 3',
 'Programming Language:: Python:: 3.3',
 'Programming Language:: Python:: 3.4',
 'Programming Language :: Python :: 3.5',
 'Programming Language :: Python :: 3.6',
 "Topic :: Internet :: Name Service (DNS)',
 'Topic :: Software Development :: Libraries :: Python Modules',
 'Topic :: Utilities',
 1,
 'test_suite':
'tests',
 }
 setup(**arguments)
if __name__ == '__main__':
 main()
Found in path(s):
* /opt/cola/permits/179835387_1695331576.4826837/0/idna-2-7-tar-gz/idna-2.7/setup.py
No license file was found, but licenses were detected in source scan.
Metadata-Version: 1.1
Name: idna
Version: 2.7
Summary: Internationalized Domain Names in Applications (IDNA)
Home-page: https://github.com/kjd/idna
Author: Kim Davies
Author-email: kim@cynosure.com.au
License: BSD-like
Description: Internationalized Domain Names in Applications (IDNA)
 Support for the Internationalised Domain Names in Applications
 (IDNA) protocol as specified in `RFC 5891 http://tools.ietf.org/html/rfc5891.
 This is the latest version of the protocol and is sometimes referred to as
```

```
"IDNA 2008".
 This library also provides support for Unicode Technical Standard 46,
 `Unicode IDNA Compatibility Processing http://unicode.org/reports/tr46/ _.
 This acts as a suitable replacement for the "encodings.idna" module that
 comes with the Python standard library,
but only supports the
 old, deprecated IDNA specification (`RFC 3490 http://tools.ietf.org/html/rfc3490>"_).
 Basic functions are simply executed:
 .. code-block:: pycon
 # Python 3
 >>> import idna
 >>> idna.encode('.')
 b'xn--eckwd4c7c.xn--zckzah'
 >>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
 # Python 2
 >>> import idna
 >>> idna.encode(u'.')
 'xn--eckwd4c7c.xn--zckzah'
 >>> print idna.decode('xn--eckwd4c7c.xn--zckzah')
 Packages
 The latest tagged release version is published in the PyPI repository:
 .. image:: https://badge.fury.io/py/idna.svg
 :target: http://badge.fury.io/py/idna
 Installation
 To install this library,
you can use pip:
 .. code-block:: bash
 $ pip install idna
```

Alternatively, you can install the package using the bundled setup script:

```
.. code-block:: bash
 $ python setup.py install
This library works with Python 2.6 or later, and Python 3.3 or later.
Usage
For typical usage, the ``encode`` and ``decode`` functions will take a domain
name argument and perform a conversion to A-labels or U-labels respectively.
.. code-block:: pycon
 # Python 3
 >>> import idna
 >>> idna.encode('.')
 b'xn--eckwd4c7c.xn--zckzah'
 >>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
You may use the codec encoding and decoding methods using the
"idna.codec" module:
.. code-block:: pycon
 # Python 2
 >>> import idna.codec
 >>> print u'.'.encode('idna')
 xn--80ahd1agd.xn--80akhbyknj4f
 >>> print 'xn--80ahd1agd.xn--80akhbyknj4f'.decode('idna')
Conversions can be applied at a per-label basis using the ``ulabel`` or ``alabel``
functions if necessary:
.. code-block:: pycon
 # Python 2
 >>> idna.alabel(u")
 'xn--0zwm56d'
Compatibility Mapping (UTS #46)
As described in `RFC 5895 > _, the IDNA
```

specification no longer normalizes input from different potential ways a user may input a domain name. This functionality, known as a "mapping", is now considered by the specification to be a local user-interface issue distinct from IDNA conversion functionality.

This library provides one such mapping, that was developed by the Unicode Consortium. Known as `Unicode IDNA Compatibility Processing <a href="http://unicode.org/reports/tr46/">http://unicode.org/reports/tr46/</a>, it provides for both a regular mapping for typical applications, as well as a transitional mapping to help migrate from older IDNA 2003 applications.

For example, "Königsgäßchen" is not a permissible label as \*LATIN CAPITAL LETTER K\* is not allowed (nor are capital letters in general). UTS 46 will convert this into lower case prior to applying the IDNA conversion.

```
Python 3

>>> import idna

>>> idna.encode(u'Königsgäßchen')

...

idna.core.InvalidCodepoint: Codepoint U+004B at position 1 of 'Königsgäßchen' not allowed

>>> idna.encode('Königsgäßchen', uts46=True)

b'xn--knigsgchen-b4a3dun'

>>> print(idna.decode('xn--knigsgchen-b4a3dun'))

königsgäßchen
```

Transitional processing provides conversions to help transition from the older 2003 standard to the current standard. For example, in the original IDNA specification, the \*LATIN SMALL LETTER SHARP S\* (B) was converted into two \*LATIN SMALL LETTER S\* (ss), whereas in the current IDNA specification this conversion is not performed.

```
.. code-block:: pycon

Python 2

>>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
'xn--knigsgsschen-lcb0w'
```

Implementors should use transitional processing with caution, only in rare cases where conversion from legacy labels to current labels must be performed (i.e. IDNA implementations that pre-date 2008). For typical applications that just need to convert labels, transitional processing is unlikely to be beneficial and could

produce unexpected incompatible results.

```
``encodings.idna`` Compatibility
```

Function calls from the Python built-in ``encodings.idna`` module are mapped to their IDNA 2008 equivalents using the ``idna.compat`` module. Simply substitute the ``import`` clause in your code to refer to the new module name.

#### Exceptions

-----

All errors raised during the conversion following the specification should raise an exception derived from the ``idna.IDNAError`` base class.

More specific exceptions that may be generated as ``idna.IDNABidiError`` when the error reflects an illegal combination of left-to-right and right-to-left characters in a label; ``idna.InvalidCodepoint`` when a specific codepoint is an illegal character in an IDN label (i.e. INVALID); and ``idna.InvalidCodepointContext`` when the codepoint

is illegal based on its positional context (i.e. it is CONTEXTO or CONTEXTJ but the contextual requirements are not satisfied.)

### **Building and Diagnostics**

-----

The IDNA and UTS 46 functionality relies upon pre-calculated lookup tables for performance. These tables are derived from computing against eligibility criteria in the respective standards. These tables are computed using the command-line script ``tools/idna-data``.

This tool will fetch relevant tables from the Unicode Consortium and perform the required calculations to identify eligibility. It has three main modes:

\* ``idna-data make-libdata``. Generates ``idnadata.py`` and ``uts46data.py``, the pre-calculated lookup tables using for IDNA and UTS 46 conversions. Implementors who wish to track this library against a different Unicode version may use this tool

to manually generate a different version of the ``idnadata.py`` and ``uts46data.py`` files.

- \* ``idna-data make-table``. Generate a table of the IDNA disposition (e.g. PVALID, CONTEXTJ, CONTEXTO) in the format found in Appendix B.1 of RFC 5892 and the pre-computed tables published by `IANA <a href="http://iana.org/">http://iana.org/</a>.
- \* ``idna-data U+0061``. Prints debugging output on the various properties associated with an individual Unicode codepoint (in this case, U+0061), that are used to assess the IDNA and UTS 46 status of a codepoint. This is helpful in debugging or analysis.

The tool accepts a number of arguments, described using ``idna-data -h``. Most notably, the ``--version`` argument allows the specification of the version of Unicode to use

```
in computing the table data. For example, "idna-data --version 9.0.0 make-libdata"
 will generate library data against Unicode
9.0.0.
 Note that this script requires Python 3, but all generated library data will work
 in Python 2.6+.
 Testing
 The library has a test suite based on each rule of the IDNA specification, as
 well as tests that are provided as part of the Unicode Technical Standard 46,
 `Unicode IDNA Compatibility Processing http://unicode.org/reports/tr46/ __.
 The tests are run automatically on each commit at Travis CI:
 .. image:: https://travis-ci.org/kjd/idna.svg?branch=master
 :target: https://travis-ci.org/kjd/idna
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: System Administrators
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming
Language:: Python:: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Topic :: Internet :: Name Service (DNS)
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: Utilities
Found in path(s):
*/opt/cola/permits/179835387_1695331576.4826837/0/idna-2-7-tar-gz/idna-2.7/PKG-INFO
*/opt/cola/permits/179835387_1695331576.4826837/0/idna-2-7-tar-gz/idna-2.7/idna.egg-info/PKG-INFO
No license file was found, but licenses were detected in source scan.
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# 1.244 pytz 2018.5

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# 1.245 async-timeout 3.0.0

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

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#### a) Accompany

the work with the complete corresponding

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more

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

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

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Mersenne Twister

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A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init\_genrand(seed) or init\_by\_array(init\_key, key\_length).

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#### Sockets

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The :mod:`socket`
module uses the functions, :func:`getaddrinfo`, and
:func:`getnameinfo`, which are coded in separate source files from the WIDE

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Asynchronous socket services

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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Select kqueue

-----

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-----

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#### Original location:

https://github.com/majek/csiphash/

Solution inspired by code from:

Samuel Neves (supercop/crypto\_auth/siphash24/little) djb (supercop/crypto\_auth/siphash24/little2) Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

#### strtod and dtoa

-----

The file: Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived

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zlib

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Jean-loup Gailly Mark Adler

jloup@gzip.org madler@alumni.caltech.edu

cfuhash

-----

The

implementation of the hash table used by the :mod:`tracemalloc` is based on the cfuhash project::

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

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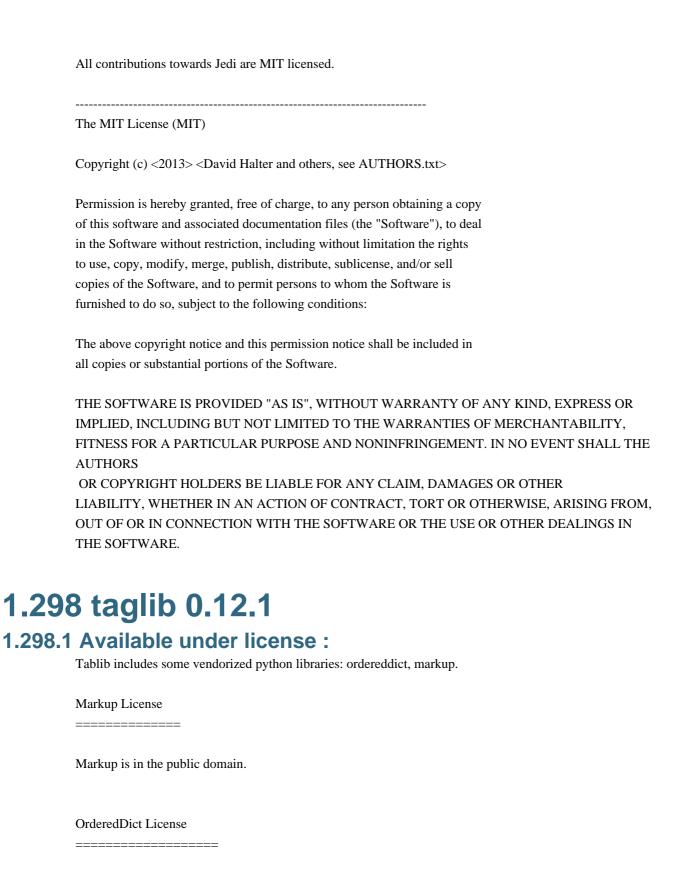
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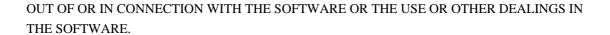
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## 1.304 twisted 18.7.0

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```
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from twisted import __version__ as version, version as longversion

longversion = str(longversion)

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%s
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# 1.307 django-cors-headers 2.4.0

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# 1.311 odfpy 1.3.6

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## 1.313 zope-interface 4.5.0

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# 1.314 elliptic 6.4.1

## 1.315 browserify-des 1.0.2

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# 1.316 squashfs-tools 3de1687d7432ea9b302c2db9521996f506c140a

3

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# 1.321 django 2.1.4

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\_\_\_\_\_

#### Advice for new contributors

\_\_\_\_\_

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

.. admonition:: Basic tools and workflow

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

First steps

========

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

\* \*\*Sign the Contributor License Agreement\*\*

The code that you write belongs to you or your employer. If your contribution is more than one or two lines of code, you need to sign the `CLA`\_. See the `Contributor License Agreement FAQ`\_ for a more thorough explanation.

\* \*\*Triage tickets\*\*

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

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

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

\* \*\*Keep old patches up to date\*\*

Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as

expected. Simply updating a patch is both useful and important! See more on :doc:`writing-code/submitting-patches`.

\* \*\*Write some documentation\*\*

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

.. note::

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

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

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

#### Guidelines

\_\_\_\_\_

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

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

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

\* \*\*Analyze tickets' context and history\*\*

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

\* \*\*Start small\*\*

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

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

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

\* \*\*Be bold! Leave feedback!\*\*

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

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

If you're really not certain if a ticket is ready, don't mark it as such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

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

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

\* \*\*Be rigorous\*\*

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

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

.. \_new-contributors-faq:

**FAQ** 

===

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

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

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

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

### A. HISTORY OF THE SOFTWARE

\_\_\_\_\_

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

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

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Release Derived Year Owner GPLfrom compatible? (1)

| 0.9.0 thru 1.2     |          | 1991-1995 CW |          | l yes   |  |
|--------------------|----------|--------------|----------|---------|--|
| 1.3 thru 1.5.2 1.2 |          | 1995-1999 CN |          | RI yes  |  |
| 1.6                | 1.5.2    | 2000         | CNRI     | no      |  |
| 2.0                | 1.6      | 2000         | BeOpen.o | com no  |  |
| 1.6.1              | 1.6      | 2001         | CNRI     | yes (2) |  |
| 2.1                | 2.0+1.6  | .1 2001      | PSF      | no      |  |
| 2.0.1              | 2.0+1.6  | 5.1 2001     | PSF      | yes     |  |
| 2.1.1              | 2.1+2.0  | 0.1 2001     | PSF      | yes     |  |
| 2.1.2              | 2.1.1    | 2002         | PSF      | yes     |  |
| 2.1.3              | 2.1.2    | 2002         | PSF      | yes     |  |
| 2.2 and above      |          |              |          |         |  |
| 2.1.1              | 2001-now | PSF          | yes      |         |  |

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|---------------------------------------|----------|---------|----------|-----------------|--|--|
|                                       | from     |         | com      | compatible? (1) |  |  |
|                                       |          |         |          |                 |  |  |
| 0.9.0 thr                             | ru 1.2   | 1991-1  | 995 CW   | yes             |  |  |
| 1.3 thru 1.5.2 1.2 1995-1999 CNRI yes |          |         |          |                 |  |  |
| 1.6                                   | 1.5.2    | 2000    | CNRI     | no              |  |  |
| 2.0                                   | 1.6      | 2000    | BeOpen.o | com no          |  |  |
| 1.6.1                                 | 1.6      | 2001    | CNRI     | yes (2)         |  |  |
| 2.1                                   | 2.0+1.6. | 1 2001  | PSF      | no              |  |  |
| 2.0.1                                 | 2.0+1.6. | .1 2001 | PSF      | yes             |  |  |
| 2.1.1                                 | 2.1+2.0. | .1 2001 | PSF      | yes             |  |  |
| 2.1.2                                 | 2.1.1    | 2002    | PSF      | yes             |  |  |
| 2.1.3                                 | 2.1.2    | 2002    | PSF      | yes             |  |  |
| 2.2 and above                         |          |         |          |                 |  |  |
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- \* Code review, PEP8 compliance, benchmark fix
- \* kennethreitz <me@kennethreitz.com>
- \* Bugfixes, suggestions, Requests integration
- \* georgemarshall <a href="https://github.com/georgemarshall">https://github.com/georgemarshall</a>
- \* Bugfixes, Improvements and Test coverage
- \* Thomas Kluyver < thomas@kluyver.me.uk>
- \* Python 3 support
- \* brandon-rhodes <a href="http://rhodesmill.org/brandon">http://rhodesmill.org/brandon</a>
- \* Design review, bugfixes, test coverage.
- \* studer < theo.studer@gmail.com>
- \* IPv6 url support and test coverage
- \* Shivaram Lingamneni <slingamn@cs.stanford.edu>
- \* Support for explicitly closing pooled connections
- \* hartator <hartator@gmail.com>
- \* Corrected multipart behavior for params
- \* Thomas Weischuh <thomas@t-8ch.de>
- \* Support for TLS SNI
- \* API unification of ssl\_version/cert\_reqs
- \* SSL fingerprint and alternative hostname verification
- \* Bugfixes in testsuite
- \* Sune Kirkeby <mig@ibofobi.dk>
- \* Optional SNI-support for Python 2 via PyOpenSSL.

- \* Marc Schlaich <marc.schlaich@gmail.com>
- \* Various bugfixes and test improvements.
- \* Bryce Boe <bbzbryce@gmail.com>
- \* Correct six.moves conflict
- \* Fixed pickle support of some exceptions
- \* Boris Figovsky <boris.figovsky@ravellosystems.com>
- \* Allowed to skip SSL hostname verification
- \* Cory Benfield
- <a href="https://lukasa.co.uk/about/">https://lukasa.co.uk/about/</a>
- \* Stream method for Response objects.
- \* Return native strings in header values.
- \* Generate 'Host' header when using proxies.
- \* Jason Robinson <jaywink@basshero.org>
- \* Add missing WrappedSocket.fileno method in PyOpenSSL
- \* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- \* Fixed a race condition
- \* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- \* Added HTTPS (CONNECT) proxy support
- \* Stephen Holsapple <sholsapp@gmail.com>
- \* Added abstraction for granular control of request fields
- \* Martin von Gagern < Martin.vGagern@gmx.net>
- \* Support for non-ASCII header parameters
- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- \* Support for separate connect and request timeouts
- \* Peter Waller <p@pwaller.net>
- \* HTTPResponse.tell() for determining amount received over the wire
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
- \* Danilo @dbrgn <a href="https://dbrgn.ch/">
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module
- \* Configurable cipher suites in pyopenssl contrib module
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- \* Account retries on proxy errors

- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
- \* Use the platform-specific CA certificate locations
- \* Josh Schneier <a href="https://github.com/jschneier">https://github.com/jschneier</a>
- \* HTTPHeaderDict and associated tests and docs
- \* Bugfixes, docs, test coverage
- \* Tahia Khan <a href="http://tahia.tk/">
- \* Added Timeout examples in docs
- \* Arthur Grunseid <a href="https://grunseid.com">https://grunseid.com</a>
- \* source\_address support and tests (with https://github.com/bui)
- \* Ian Cordasco <graffatcolmingov@gmail.com>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
- \* Erik Tollerud <erik.tollerud@gmail.com>
- \* Support for standard library io module.
- \* Krishna Prasad < kprasad.iitd@gmail.com>
- \* Google App Engine documentation
- \* Aaron Meurer
- <asmeurer@gmail.com>
- \* Added Url.url, which unparses a Url
- \* Evgeny Kapun <abacabadabacaba@gmail.com>
- \* Bugfixes
- \* Benjamen Meyer <br/> <br/> bm\_witness@yahoo.com>
- \* Security Warning Documentation update for proper capture
- \* Shivan Sornarajah < github@sornars.com>
- \* Support for using ConnectionPool and PoolManager as context managers.
- \* Alex Gaynor <alex.gaynor@gmail.com>
- \* Updates to the default SSL configuration
- \* Tomas Tomecek <ttomecek@redhat.com>
- \* Implemented generator for getting chunks from chunked responses.
- \* tlynn <a href="https://github.com/tlynn">https://github.com/tlynn>
- \* Respect the warning preferences at import.
- \* David D. Riddle <ddriddle@illinois.edu>
- \* IPv6 bugfixes in testsuite

- \* Thea Flowers <magicalgirl@google.com>
- \* App Engine environment tests.
- \* Documentation re-write.
- \* John Krauss <a href="https://github.com/talos">https://github.com/talos></a>
- \* Clues to debugging problems with `cryptography` dependency in docs
- \* Disassem <a href="https://github.com/Disassem">https://github.com/Disassem</a>
- \* Fix pool-default headers not applying for url-encoded requests like GET.
- \* James Atherfold < jlatherfold@hotmail.com>
- \* Bugfixes relating to cleanup of connections during errors.
- \* Christian Pedersen <a href="https://github.com/chripede">https://github.com/chripede</a>
- \* IPv6 HTTPS proxy bugfix
- \* Jordan Moldow <a href="https://github.com/jmoldow">https://github.com/jmoldow</a>
- \* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
- \* Bugfix for ``ConnectionPool.urlopen(release\_conn=False)``.
- \* Creation of ``HTTPConnectionPool.ResponseCls``.
- \* Predrag Gruevski <a href="https://github.com/obi1kenobi">https://github.com/obi1kenobi>
- \* Made cert digest comparison use a constant-time algorithm.
- \* Adam Talsma <a href="https://github.com/a-tal">https://github.com/a-tal</a>
- \* Bugfix to ca cert file paths.
- \* Evan Meagher <a href="https://evanmeagher.net">https://evanmeagher.net</a>
- \* Bugfix related to `memoryview` usage in PyOpenSSL adapter
- \* John Vandenberg <jayvdb@gmail.com>
- \* Python 2.6 fixes; pyflakes and pep8 compliance
- \* Andy Caldwell <andy.m.caldwell@googlemail.com>
- \* Bugfix related to reusing connections in indeterminate states.
- \* Ville Skytt <ville.skytta@iki.fi>
- \* Logging efficiency improvements, spelling fixes, Travis config.
- \* Shige Takeda <smtakeda@gmail.com>
- \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
- \* Jesse Shapiro < jesse@jesseshapiro.net>
- \* Various character-encoding fixes/tweaks
- \* Disabling IPv6 DNS when IPv6 connections not supported

- \* David Foster <a href="http://dafoster.net/">http://dafoster.net/</a>
- \* Ensure order of request and response headers are preserved.
- \* Jeremy Cline < jeremy@jcline.org>
- \* Added connection pool keys by scheme
- \* Aviv Palivoda <palaviv@gmail.com>
- \* History list to Retry object.
- \* HTTPResponse contains the last Retry object.
- \* Nate Prewitt <nate.prewitt@gmail.com>
- \* Ensure timeouts are not booleans and greater than zero.
- \* Fixed infinite loop in ``stream`` when amt=None.
- \* Added length\_remaining to determine remaining data to be read.
- \* Added enforce\_content\_length to raise exception when incorrect content-length received.
- \* Seth Michael Larson <sethmichaellarson@protonmail.com>
- \* Created selectors backport that supports PEP 475.
- \* Alexandre Dias <alex.dias@smarkets.com>
- \* Don't retry on timeout if method not in whitelist
- \* Moinuddin Quadri <moin18@gmail.com>
- \* Lazily load idna package
- \* Tom White <s6yg1ez3@mail2tor.com>
- \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
- \* Tim Burke <tim.burke@gmail.com>
- \* Stop buffering entire deflate-encoded responses.
- \* Tuukka Mustonen <tuukka.mustonen@gmail.com>
- \* Add counter for status\_forcelist retries.
- \* Erik Rose <erik@mozilla.com>
- \* Bugfix to pyopenssl vendoring
- \* Wolfgang Richter < wolfgang.richter@gmail.com>
- \* Bugfix related to loading full certificate chains with PyOpenSSL backend.
- \* Mike Miller < github@mikeage.net>
- \* Logging improvements to include the HTTP(S) port when opening a new connection
- \* Ioannis Tziakos <mail@itziakos.gr>
- \* Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
- \* Update appveyor tox setup to use the 64bit python.
- \* Akamai

(through Jesse Shapiro) <jshapiro@akamai.com>

- \* Ongoing maintenance
- \* Dominique Leuenberger <dimstar@opensuse.org>
- \* Minor fixes in the test suite
- \* Will Bond <will@wbond.net>
- \* Add Python 2.6 support to ``contrib.securetransport``
- \* Aleksei Alekseev <alekseev.yeskela@gmail.com>
- \* using auth info for socks proxy
- \* Chris Wilcox <git@crwilcox.com>
- \* Improve contribution guide
- \* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
- \* Bruce Merry <a href="https://www.brucemerry.org.za">https://www.brucemerry.org.za</a>
- \* Fix leaking exceptions when system calls are interrupted with zero timeout
- \* Hugo van Kemenade <a href="https://github.com/hugovk">https://github.com/hugovk</a>
- \* Drop support for EOL Python 2.6
- \* Tim Bell <a href="https://github.com/timb07">https://github.com/timb07></a>
- \* Bugfix for responses with Content-Type: message/\* logging warnings
- \* Justin Bramley <a href="https://github.com/jbramleycl">https://github.com/jbramleycl</a>
- \* Add ability to handle multiple Content-Encodings
- \* Katsuhiko YOSHIDA <a href="https://github.com/kyoshidajp">https://github.com/kyoshidajp</a>
- \* Remove Authorization header regardless of case when redirecting to cross-site
- \* [Your name or handle] <[email or website]>
- \* [Brief summary of your changes]

# 1.325 jquery 3.4.1

## 1.326 lvm2 2.02.173

### 1.326.1 Available under license:

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Version 2.1, February 1999

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## 1.328 webpack-jquery-ui 2.0.1

# 1.329 libapparmor 2.13.2

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu
The following list of people, sorted by last name, have contributed
code or patches to this implementation of sudo since I began
maintaining it in 1993. This list is known to be incomplete--if
you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt Adler, Mark Allbery, Russ

Anderson, Jamie

Andrew, Nick

Andric, Dimitry

Barron, Danny

Bates, Tom

Behan, Zdenk

Bellis, Ray

Benali, Elias

Beverly, Jamie

Boardman, Spider

Bostley, P.J.

Bowes, Keith

Boyce, Keith Garry

Brantley, Michael

Braun, Rob

Bezina, Pavel

Brooks, Piete

Brown, Jerry

Burr, Michael E

Burton, Ross

Bussjaeger, Andreas

Calvin, Gary

Campbell, Aaron

Chazelas, Stephane

ek, Vtzslav

Coleman, Chris

Corzine, Deven T.

Cusack, Frank

Dai, Wei

Dill, David

Earickson, Jeff

Eckhardt, Drew

Edgington, Ben

Esipovich, Marc

Espie, Marc

Faigon, Ariel

Farrell, Brian

Fobes, Steve

Frysinger, Mike

G., Daniel Richard

Gailly, Jean-loup

Gelman, Stephen

Gerraty, Simon J.

Graber, Stephane

Guillory, B.

Hayman, Randy M.

Henke, Joachim

Hideaki, YOSHIFUJI Hieb, Dave Holloway, Nick Hoover, Adam Hunter, Michael T. Hutchings, Ben Irrgang, Eric Jackson, Brian Jackson, John R. Jackson, Richard L., Jr. Janssen, Mark Jepeway, Chris Jorge, Joel Pele Pele Jorge, Joel Juhani, Timo KIKUCHI, Ayamura Kadow, Kevin Kasal, Stepan Kienenberger, Mike King, Dale King, Michael Klyachkin, Andrey Knoble, Jim Knox, Tim Komarnitsky, Alek O. Kondrashov, Nikolai Kopeek, Daniel Kranenburg, Paul Krause, David Lakin, Eric Larsen, Case Levin, Dmitry V. Libby, Kendall Lobbes, Phillip E. McIntyre, Jason MacKenzie, David J. McLaughlin, Tom Makey, Jeff Marchionna, Michael D. Markham, Paul

Marchionna, Michael I Markham, Paul Martinian, Emin Meskes, Michael Michael, David Miller, Todd C. Minier, Loc Moffat, Darren Moldung, Jan Thomas Morris, Charles

Mueller, Andreas

Mller, Dworkin

Nieusma, Jeff

Nikitser, Peter A.

Nussel, Ludwig

Ouellet, Jean-Philippe

Paquet, Eric

Paradis, Chantal

Percival, Ted

Perera, Andres

Peron, Christian S.J.

Peschel, Aaron

Peslyak, Alexander

Peterson, Toby

Petten, Diego Elio

Pickett, Joel

Plotnick, Alex

de Raadt, Theo

Rasch, Gudleik

Reid, Steve

Richards, Matt

Rossum, Guido van

Rouillard, John P.

Rowe, William A., Jr.

Roy, Alain

Ruusame, Elan

Ryabinkin, Eygene

SATO, Yuichi

Snchez, Wilfredo

Saucier, Jean-Francois

Schoenfeld, Patrick

Schuring, Arno

Schwarze, Ingo

Scott, Dougal

Sieger, Nick

Simon, Thor Lancelot

Slemko, Marc

Smith, Andy

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Soulen, Steven

Spangler, Aaron

Spradling, Cloyce D.

Stier, Matthew

Stoeckmann, Tobias

Street, Russell

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Thomas, Matthew

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Tucker, Darren

Uhl, Robert

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Valery, Reznic

Van Dinter, Theo

Venckus, Martynas

de Vries, Maarten

Wagner, Klaus

Walsh, Dan

Warburton, John

Webb, Kirk

Wetzel, Timm

Wieringen, Marco van

Wilk, Jakub

Winiger, Gary

Wood, David

Zacarias, Gustavo

Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blttermann, Mario

Bogusz, Jakub

Casagrande, Milo

Castro, Felipe

Cho, Seong-ho

Chornoivan, Yuri

Diguez, Francisco

Ferreira, Rafael

Garca-Fontes, Walter

Gezer, Volkan

Hamasaki, Takeshi

Hamming, Peter

Hansen, Joe

Hantrais, Frdric

Hein, Jochen

Hufthammer, Karl Ove

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Karvonen, Jorma

Kazik, Duan

Kelemen,

Gbor

Koir, Klemen

Kozlov, Yuri

Kramer, Jakob

Krznar, Tomislav

Marchal, Frdric

Margeviius, Algimantas

Maryanov, Pavel

Nikoli, Miroslav

Nylander, Daniel

Psa, Petr

Qun, Trn Ngc

Regueiro, Leandro

Sarer, zgr

Sendn, Abel

Sikrom, ka

Spingos, Dimitris

Taniguchi, Yasuaki

Tomat, Fbio

Uranga, Mikel Olasagasti

Vorotnikov, Artem

Wang, Wylmer

# 1.335 gmp 6.1.2

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#### @item

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#### @item

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@end enumerate

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### @enumerate a

#### @item

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### @item

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# @item

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#### @enumerate a

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# 1.341 libnettle6 3.4

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original code is FirewallControl.pas, released April 16, 2007.

The initial developer of the original code is Rainer Budde (http://www.speed-soft.de).

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# 1.346 coreutils 8.27

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## 1.352 log-rotate 3.13.0

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## 1.354 python 3.6.10

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

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

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|--------------------------------------|---------|----------|----------|-----------------|--|
| from                                 |         |          | com      | compatible? (1) |  |
|                                      |         |          |          |                 |  |
| 0.9.0 thru                           | 1.2     | 1991-    | 1995 CW  | [ yes           |  |
| 1.3 thru 1.5.2 1.2 1995-1999 CNRI ye |         |          |          | RI yes          |  |
| 1.6                                  | 1.5.2   | 2000     | CNRI     | no              |  |
| 2.0                                  | 1.6     | 2000     | BeOpen.o | com no          |  |
| 1.6.1                                | 1.6     | 2001     | CNRI     | yes (2)         |  |
| 2.1                                  | 2.0+1.6 | 5.1 2001 | PSF      | no              |  |
| 2.0.1                                | 2.0+1.0 | 6.1 2001 | PSF      | yes             |  |
| 2.1.1                                | 2.1+2.0 | 0.1 2001 | PSF      | yes             |  |
| 2.1.2                                | 2.1.1   | 2002     | PSF      | yes             |  |
| 2.1.3                                | 2.1.2   | 2002     | PSF      | yes             |  |
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## 1.359 ncurses 6.1-20191019

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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

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Support for streaming Protocol Buffer messages for the Go language (golang).

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# 1.382 docker 2.0.2

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# 1.383 file-loader 1.11

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# 1.391 simplegeneric 0.8.1

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## 1.393 lym2 2.02.173

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*/opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
0.4.4/tests/codec/cer/__main__.py
opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
0.4.4/pyasn1/type/univ.py
*/opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
0.4.4/tests/codec/native/test_decoder.py
*/opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
0.4.4/pyasn1/compat/integer.py
*/opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
0.4.4/pyasn1/type/tagmap.py
```

\*/opt/ws\_local/PERMITS\_SQL/1063244945\_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-

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0.4.4/pyasn1/compat/octets.py
*/opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
0.4.4/pyasn1/type/namedtype.py
* /opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/base.py
*/opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
0.4.4/tests/codec/ber/test_decoder.py
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0.4.4/pyasn1/codec/native/decoder.py
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0.4.4/tests/codec/cer/test_encoder.py
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0.4.4/tests/test_debug.py
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0.4.4/tests/compat/__main__.py
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ASN.1 library for Python

[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.org/project/pyasn1)
[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/)
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[![Coverage
Status](https://img.shields.io/codecov/c/github/etingof/pyasn1.svg)](https://codecov.io/github/etingof/pyasn1)
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blue.svg)] (https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt)\\
This is a free and open source implementation of ASN.1 types and codecs
as a Python package. It has been first written to support particular
protocol (SNMP) but then generalized to be suitable for a wide range
of protocols based on
[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-
E&type=items).
Features
```

Generic implementation of ASN.1 types (X.208)

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

Why using pyasn1

-----

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

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

Quite a number of books cover the topic of ASN.1.

[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html)

by

Olivier Dubuisson is one of those high quality books freely available on the Internet.

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

How to use pyasn1

-----

With pyasn1 you can build Python objects from ASN.1 data structures.

For example, the following ASN.1 data structure:

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

Could be expressed in pyasn1 like this:

```
```python
class Record(Sequence):
  componentType = NamedTypes(
    NamedType('id', Integer()),
    OptionalNamedType(
      'room', Integer().subtype(
         implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
      )
    ),
    DefaultedNamedType(
      'house',
Integer(0).subtype(
         implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
      )
    )
 )
It is in the spirit of ASN.1 to take abstract data description
and turn it into a programming language specific form.
Once you have your ASN.1 data structure expressed in Python, you
can use it along the lines of similar Python type (e.g. ASN.1
`SET` is similar to Python `dict`, `SET OF` to `list`):
```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
Part of the power of ASN.1 comes from its serialisation features. You
can serialise your data structure and send it over the network.
```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
Conversely, you can turn serialised ASN.1 content, as received from
```

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

encode and send back.

```
```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received record:
>>> print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
The pyasn1 classes struggle to emulate their Python prototypes (e.g. int,
list, dict etc.). But ASN.1 types exhibit more complicated behaviour.
To make life easier for a Pythonista, they can turn their pyasn1
classes into Python built-ins:
```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
Or vice-versa -- you can initialize an ASN.1 structure from a tree of
Python objects:
```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id':
123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and

Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

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

How to get pyasn1

-----

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

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

If

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

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Found in path(s):

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### ASN.1 library for Python

.. toctree::

:maxdepth: 1

Abstract Syntax Notation One (`ASN.1

<a href="http://en.wikipedia.org/wiki/Abstract\_Syntax\_Notation\_1x>`\_)" is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

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

What is ASN.1

-----

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

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

widely used in industry and technology.

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

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

buffers/>`

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

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

- \* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.
- \* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.
- \* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications

-----

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

- \* Signaling standards for the public switched telephone network (SS7 family)
- \* Network management standards (SNMP, CMIP)
- \* Directory standards (X.500 family, LDAP)
- \* Public Key Infrastructure standards (X.509, etc.)
- \* PBX control (CSTA)
- \* IP-based Videoconferencing (H.323 family)
- \* Biometrics (BIP, CBEFF,

ACBio)

- \* Intelligent transportation (SAE J2735)
- \* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

-----

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

| and security reviewed.                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Documentation                                                                                                                                                                |
| toctree:: :maxdepth: 2                                                                                                                                                       |
| /pyasn1/contents                                                                                                                                                             |
| Use case                                                                                                                                                                     |
| toctree:: :maxdepth: 2                                                                                                                                                       |
| /example-use-case                                                                                                                                                            |
| Download & Install                                                                                                                                                           |
| toctree:: :maxdepth: 2                                                                                                                                                       |
| /download                                                                                                                                                                    |
| Changes                                                                                                                                                                      |
| All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements. |
| toctree:: :maxdepth: 1                                                                                                                                                       |
| /changelog                                                                                                                                                                   |
| License                                                                                                                                                                      |
| The PyASN1 software is distributed under 2-clause BSD License.                                                                                                               |
| toctree:: :maxdepth: 2                                                                                                                                                       |

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

# 1.398 djangorestframework 3.8.2

0.4.4/docs/source/contents.rst

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jpg "Clone me," says Dolly sheepishly.

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Version 4 and are acknowledged as authors of this

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- 2. [2]Mark Andrews <mark\_andrews@isc.org> Leitch atomic clock controller
- 3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
- 4. [4] Viraj Bais <vbais@mailman1.intel.com> and [5] Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
- 5. [6] Michael Barone < michael, barone @lmco.com > GPSVME fixes
- 6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
- 7. [8] Greg Brackley < greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recybuf and iosignal code into separate modules.
- 8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
- 9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
- 10. [11] Nelson B Bolyard <nelson@bolyard.me> update and complete

### in sntp

- 11. [12]Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
- 12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
- 13. [14] Steve Clift < clift@ml.csiro.au > OMEGA clock driver
- 14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
- 15. [16]Sven Dietrich <sven\_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
- 16. [17]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
- 17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
- 18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
- 19. [20]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
- 20. [21]Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
- 21. [22]Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
- 22. [23]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
- 23. [24]Mike Iglesias <i glesias @uci.edu> DEC Alpha port
- 24. [25]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
- 25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
- 26. [27]Hans Lambermont Hans.Lambermont@nl.origin-it.com> or[28]</p
- 27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
- 28. [30]Frank Kardel [31]<a href="kardel">kardel</a> (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
- 29. [32] Johannes Maximilian Kuehn <a href="kuehn@ntp.org">kewrote sntp to comply with NTPv4 specification, ntpq saveconfig</a>
- 30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
- 31. [34]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
- 32. [35]Craig
- Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
- 33. [36]George Lindholm < lindholm@ucs.ubc.ca> SunOS 5.1 port
- 34. [37]Louis A. Mamakos < louie@ni.umd.edu> MD5-based authentication
- 35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
- 36. [39]Danny Mayer <mayer@ntp.org>Network I/O, Windows Port, Code Maintenance
- 37. [40]David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
- 38. [41]Wolfgang Moeller < moeller@gwdgv1.dnet.gwdg.de> VMS port

- 39. [42]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
- 40. [43]Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
- 41. [44] Kamal A Mostafa < kamal@whence.com > SCO OpenServer port
- 42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
- 43. [47]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code
  - maintenance
- 44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
- 45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
- 46.~[50] Wilfredo~Snchez~< wsanchez@apple.com>~added~support~for~NetInfo
- 47. [51] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
- 48. [52]Jack Sasportas < jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
- 49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
- 50. [54] Michael Shields <shields@tembel.org> USNO clock driver
- 51. [55]Jeff Steinman < jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
- 52. [56]Harlan Stenn <a href="mailto:sharlan@pfcs.com">harlan@pfcs.com</a>> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
- 53. [57] Kenneth Stone < ken@sdd.hp.com> HP-UX port
- 54. [58] Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support
- 55. [59]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
- 56. [60]Brian Utterback <a href="mailto:strength">brian.utterback@oracle.com</a>> General codebase, Solaris issues
- 57. [61]Loganaden Velvindron < loganaden@gmail.com> Sandboxing (libseccomp) support
- 58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
- 59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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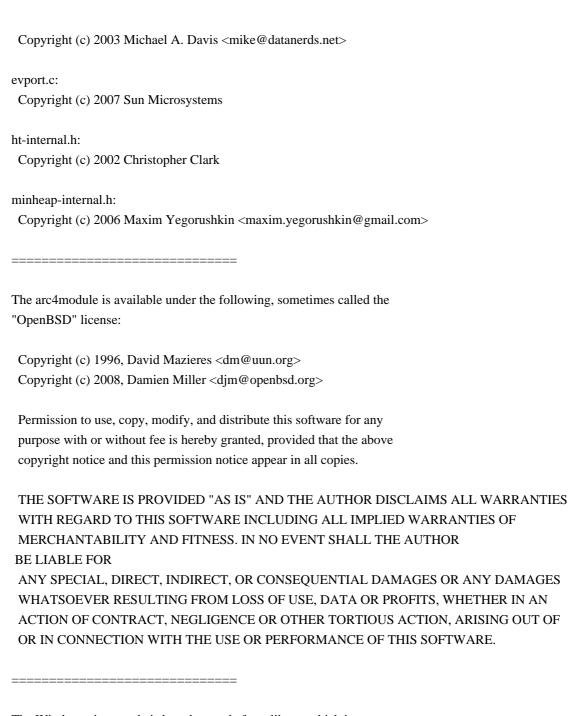
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\*/opt/cola/permits/1110632783\_1607450976.71/0/isarray-1-0-0-7-tgz/package/README.md

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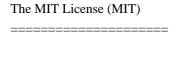
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# 1.418 uri-js 4.2.2

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# URI.js

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

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

## API

### Parsing

```
URI.parse("uri://user:pass@example.com:123/one/two.three?q1=a1&q2=a2#body");
//returns:
//{
// scheme: "uri",
// userinfo: "user:pass",
// host: "example.com",
// port: 123,
// path: "/one/two.three",
// query: "q1=a1&q2=a2",
// fragment : "body"
//}
Serializing
URI.serialize({scheme
: "http", host : "example.com", fragment : "footer"}) === "http://example.com/#footer"
Resolving
URI.resolve("uri://a/b/c/d?q", "../../g") === "uri://a/g"
Normalizing
URI.normalize("HTTP://ABC.com:80/%7Esmith/home.html") === "http://abc.com/~smith/home.html"
Comparison
URI.equal("example://a/b/c/%7Bfoo%7D", "eXAMPLE://a/./b/../b/%63/%7bfoo%7d") === true
IP Support
//IPv4 normalization
URI.normalize("//192.068.001.000") === "//192.68.1.0"
//IPv6 normalization
URI.normalize("//[2001:0:0DB8::0:0001]") === "//[2001:0:db8::1]"
//IPv6 zone identifier support
URI.parse("//[2001:db8::7%25en1]");
//returns:
//{
// host: "2001:db8::7%en1"
//}
IRI Support
//convert IRI to URI
```

```
URI.serialize(URI.parse("http://exampl.org/ros")) === "http://xn--exampl-gva.org/ros%C3%A9"
//convert URI to IRI
URI.serialize(URI.parse("http://xn--exampl-gva.org/ros%C3%A9"), {iri:true}) === "http://exampl.org/ros"
Options
All of
the above functions can accept an additional options argument that is an object that can contain one or more of the
following properties:
* `scheme` (string)
Indicates the scheme that the URI should be treated as, overriding the URI's normal scheme parsing behavior.
* `reference` (string)
If set to "suffix", it indicates that the URI is in the suffix format, and the validator will use the option's 'scheme'
property to determine the URI's scheme.
* `tolerant` (boolean, false)
If set to `true`, the parser will relax URI resolving rules.
* `absolutePath` (boolean, false)
If set to `true`, the serializer will not resolve a relative `path` component.
* `iri` (boolean, false)
If set to 'true', the serializer will unescape non-ASCII characters as per [RFC
3987](http://www.ietf.org/rfc/rfc3987.txt).
* `unicodeSupport` (boolean, false)
If set to `true`, the parser will unescape non-ASCII characters in the parsed output as per [RFC
3987](http://www.ietf.org/rfc/rfc3987.txt).
* `domainHost`
(boolean, false)
If set to `true`, the library will treat the `host` component as a domain name, and convert IDNs (International
```

Domain Names) as per [RFC 5891](http://www.ietf.org/rfc/rfc5891.txt).

## Scheme Extendable

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

```
* http \[[RFC 2616](http://www.ietf.org/rfc/rfc2616.txt)\]
* https \[[RFC 2818](http://www.ietf.org/rfc/rfc2818.txt)\]
* mailto \[[RFC 6068](http://www.ietf.org/rfc/rfc6068.txt)\]
* urn \[[RFC 2141](http://www.ietf.org/rfc/rfc2141.txt)\]
* urn:uuid \[[RFC 4122](http://www.ietf.org/rfc/rfc4122.txt)\]
HTTP Support
URI.equal("HTTP://ABC.COM:80", "http://abc.com/") === true
Mailto Support
URI.parse("mailto:alpha@example.com,bravo@example.com?subject=SUBSCRIBE&body=Sign%20me%20up!");
//returns:
//{
// scheme : "mailto",
// to: ["alpha@example.com", "bravo@example.com"],
// subject
: "SUBSCRIBE",
// body : "Sign me up!"
URI.serialize({
 scheme: "mailto",
 to: ["alpha@example.com"],
 subject: "REMOVE",
 body: "Please remove me",
 headers: {
 cc: "charlie@example.com"
}) ===
"mailto:alpha@example.com?cc=charlie@example.com&subject=REMOVE&body=Please%20remove%20me"
URN Support
URI.parse("urn:example:foo");
//returns:
//{
// scheme : "urn",
// nid : "example",
// nss: "foo",
//}
URN UUID Support
URI.parse("urn:uuid:f81d4fae-7dec-11d0-a765-00a0c91e6bf6");
//returns:
//{
```

```
// scheme : "urn",
// nid : "example",
// uuid: "f81d4fae-7dec-11d0-a765-00a0c91e6bf6",
//}
Usage
To load in a browser, use the following tag:
<script type="text/javascript" src="uri-js/dist/es5/uri.all.min.js"></script>
To load in a CommonJS (Node.js) environment, first install with npm by running on the command line:
npm install uri-js
Then, in your code, load it using:
const URI = require("uri-js");
If you are
writing your code in ES6+ (ESNEXT) or TypeScript, you would load it using:
import * as URI from "uri-js";
Or you can load just what you need using named exports:
import { parse, serialize, resolve, resolveComponents, normalize, equal, removeDotSegments, pctEncChar,
pctDecChars, escapeComponent, unescapeComponent } from "uri-js";
Breaking changes
Breaking changes from 3.x
URN parsing has been completely changed to better align with the specification. Scheme is now always `urn`, but
has two new properties: 'nid' which contains the Namspace Identifier, and 'nss' which contains the Namspace
Specific String. The `nss` property will be removed by higher order scheme handlers, such as the UUID URN
scheme handler.
The UUID of a URN can now be found in the `uuid` property.
Breaking changes from 2.x
URI validation has been removed as it was slow, exposed a vulnerabilty, and was generally not useful.
Breaking changes from 1.x
The 'errors' array on parsed components is
```

now an 'error' string.

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## Found in path(s):

\* Date: 5/15/2008

\* /opt/cola/permits/1110634955\_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/README.md

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```
/*

* QUnit - A JavaScript Unit Testing Framework

* http://docs.jquery.com/QUnit

* Copyright (c) 2009 John Resig, Jörn Zaefferer

* Dual licensed under the MIT (MIT-LICENSE.txt)

* and GPL (GPL-LICENSE.txt) licenses.

*/
/**

* jsDump

* Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com | http://flesler.blogspot.com

* Licensed under BSD (http://www.opensource.org/licenses/bsd-license.php)
```

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

\*/

#### Found in path(s):

 $*/opt/cola/permits/1110634955\_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/tests/qunit.js$ 

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\*/opt/cola/permits/1110634955\_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-

### 4f6f600/dist/es5/uri.all.js

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- \* /opt/cola/permits/1110634955\_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/src/uri.ts

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 function merge(...sets:Array<string>):string {\n\tif(sets.length > 1) {\n\t\tsets[0] = sets[0].slice(0, -1);\n\t\tconst xl
subexp(str:string):string {\n\treturn \"(?:\" + str + \")\";\n\n\nexport function typeOf(o:any):string {\n\treturn o === } \nexport function typeOf(o:any):string {\n\treturn o == }
undefined ? \"undefined\" : (o === null ? \"null\" : Object.prototype.toString.call(o).split(\"
\").pop().split(\"]\").shift().toLowerCase());\n}\n\nexport function toUpperCase(str:string):string {\n\treturn}
str.toUpperCase();\n}\n\nexport function toArray(obj:any):Array<any>
 {\n\treturn obj !== undefined && obj !== null ? (obj instanceof Array ? obj : (typeof obj.length !== \"number\" ||
obj.split || obj.setInterval || obj.call ? [obj] : Array.prototype.slice.call(obj))) : [];\n}\n\nexport function
assign(target: object, source: any): any {\n\tconst obj = target as any;\n\tif (source) {\n\t\tfor (const key in source)
{\ntering \{ \nt(t) \in Surce[key]; \nt(t) \ntering bj; \nt(t), ","import { URIRegExps } from \".'uri\"; \nimport { URIRegExps } from \".'uri\"; \nimport {
merge, subexp } from \"./util\";\n\nexport function buildExps(isIRI:boolean):URIRegExps {\n\tconst\n\t\ALPHA$$
merge(DIGIT\$\$, \"[A-Fa-f]\"), \ // case-insensitive \n\t\tLF\$\$ = \"[\\\\\\] \", \n\t\tSP\$\$ = \"[\\\\\\\\\]
\lceil \lceil \rceil \rceil \rceil / \lceil \lceil \rceil \rceil \rceil / \lceil \rceil \rceil + HEXDIG$$ + \"\%\" + \"\%\" + HEXDIG$$ + \"\%\" + \"\%\" + HEXDIG$$ + \"\%\" + \"\%\
HEXDIG$$ + "%\" + HEXDIG$$ + HEXDIG$$) + "|\" + subexp(\"%[89A-Fa-f]\" + HEXDIG$$ + \"%\" + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$
HEXDIG$$ + HEXDIG$$) + \"|\" + subexp(\"%\"
+ HEXDIG$$ + HEXDIG$$)), //expanded\n\t\tGEN_DELIMS$$ =
"[\]\]\]\]\
merge(ALPHA$$, DIGIT$$, \"[\\\-\\\\-\\\\-]\", UCSCHAR$$),\n\t\tSCHEME$ = subexp(ALPHA$$ +
\"|\" + merge(UNRESERVED$$, SUB_DELIMS$$, \"[\\\\:]\")) + \"*\"),\n\t\tDEC_OCTET$ =
subexp(subexp("25[0-5])") + "||" + subexp("2[0-4])" + DIGIT$$) + |"||" + subexp("1\" + DIGIT$$ + DIGIT$$) + |"||" + DIGIT$$ + DIGIT$$
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''' + subexp(''[1-9]\" + DIGIT$$) + ''\" + DIGIT$$),\n\t\tDEC_OCTET_RELAXED$ = subexp(subexp(''25[0-
5]\")
 DIGIT$$) + \"|0?0?\" + DIGIT$$), //relaxed parsing rules\n\t\tIPV4ADDRESS$ =
subexp(DEC_OCTET_RELAXED$ + \"\\\\.\" + DEC_OCTET_RELAXED$ + \"\\\\.\" +
DEC_OCTET_RELAXED$ + \"\\\\\" + DEC_OCTET_RELAXED$),\n\t\tH16$ = subexp(HEXDIG$$ +
\[\frac{1}{4} \right]^{1}, \[\frac{1}{4}
 subexp(H16\$ + \''\') + \''\{6\}\'' + LS32\$), //
= subexp(
h16 \":\") 1s32\n\t\tIPV6ADDRESS2$ = subexp(
 \"\\\:\\\:\" + subexp(H16$ + \"\\\\:\")
+ "{5}" + LS32$), //
 \"::\" 5(h16 \":\") ls32\n\t\tIPV6ADDRESS3$ = subexp(subexp(
 H16\$) + "?\|\: \ + subexp(H16\$ + \"\: \) + "{4}\" + LS32\$), //[
 h16] \"::\"
 \"?\\\\:\\" + subexp(H16\$ + \"\\\:\") + \"3}\" + LS32\$), //[*1(h16\ \":\") h16] \":\\" 3(h16\ \":\")
subexp(H16$ + \"\\\:\") + \"{2}\" + LS32$), //[*2(h16 \":\") h16] \"::\" 2(h16 \":\") ls32\n\t\tIPV6ADDRESS6$
= subexp(subexp(H16\$ + \"\\\\:\") + \"\{0,3\}\" + H16\$) + \"?\\\\:\\" +
 H16$ + \"\\\:\"
 + LS32\$),
//[*3(h16":") h16]"::" h16":" ls32/n/t/tIPV6ADDRESS7$ = subexp(subexp(H16$ + \"\\\) + \"\\\)
"{0,4}" + H16$) + "?\\\:\"
 + LS32$), //[*4(h16 \":\") h16] \"::\"
+ H16$), //[*5(h16 \":\") h16] \"::\"
 h16\n\t\tIPV6ADDRESS9$
 = subexp(subexp(H16\$ + \'')) + \''(0,6) + H16\$) + \''? \'': \''
), //[*6(h16
\'':\'') h16] \''::\''n\t\tIPV6ADDRESS$ = subexp([IPV6ADDRESS1$, IPV6ADDRESS2$, IPV6ADDRESS3$,
IPV6ADDRESS4$, IPV6ADDRESS5$, IPV6ADDRESS6$, IPV6ADDRESS7$, IPV6ADDRESS8$,
IPV6ADDRESS9$1.join("\")),\n\t\tZONEID$ = subexp(subexp(UNRESERVED$$ + \"\\" + PCT ENCODED$) +
\"+\"), //RFC 6874\n\t\tIPV6ADDRZ$ = subexp(IPV6ADDRESS$ + \"\\\\%25\" + ZONEID$), //RFC
6874\n\text{t/tIPV6ADDRZ} RELAXED$ = subexp(IPV6ADDRESS$ + subexp(\"\\\\%25\\\\\%(?!\" + HEXDIG$$ +
\lceil \{2\} \rceil + ZONEID, //RFC 6874, with relaxed parsing rules/n/t/tIPVFUTURE$ = subexp(\lceil [vV] \rceil + HEXDIG$$
+ ''+ '''+ '''+ merge(UNRESERVED$$, SUB_DELIMS$$, ''['''] + '''+ ''', n t IP_LITERAL$ = subexp(\''\\\[\" | n t IP_LITERAL$ = subexp(\''') + \'''+ ''' | n t IP_LITERAL$ = subexp(\''') | n t IP
+ subexp(IPV6ADDRZ_RELAXED$ + \"\\" + IPV6ADDRESS$ + \"\\" + IPVFUTURE$) + \"\\\]\"), //RFC
 6874\n\t\tREG_NAME$ = subexp(subexp(PCT_ENCODED$ + \"\\" + merge(UNRESERVED$$,
SUB_DELIMS$$)) +
 \"*\"),\n\t\tHOST$ = subexp(IP_LITERAL$ + \"\" + IPV4ADDRESS$ + \"(?!\" + REG_NAME$ + \"\\" + \"\\" +
\"@\") +\"?\" + HOST$ + subexp(\"\\\:\" + PORT$) + \"?\"),\n\t\tPCHAR$ = subexp(PCT_ENCODED$ + \"\\" +
merge(UNRESERVED\$\$, SUB_DELIMS\$\$, "[\\\\emptyred]\")), \nt\tSEGMENT\$ = subexp(PCHAR\$ + true) + true = tru
'''*'),\n\t\tSEGMENT_NZ = subexp(PCHAR$ + \"+\"),\n\t\tSEGMENT_NZ_NC$ =
subexp(subexp(PCT_ENCODED\$ + \"\" + merge(UNRESERVED\$\$, SUB_DELIMS\$\$, \"[\"\"\]) + merge(UNRESERVED\$\$, SUB_DELIMS\$\$, \"\"\"\")) + merge(UNRESERVED\$\$, SUB_DELIMS\$\$, \"\"\")) + merge(UNRESERVED\$\$, \"\")) + merge(UNRESERVED\$\$, \"\"\")) + merge(UNRESERVED\$\$, \"\")) + merge(UNRESERVED\$\$, \")) + merge(UNRESERVED\$\$, \"\")) + merge(UNRESERVED\$\$, \"\")) + m
''+''',\n\t\tPATH_ABEMPTY$ = subexp(subexp(\"\\\\" + SEGMENT$) + \"*\"),\n\t\tPATH_ABSOLUTE$ =
subexp(\"\\\\" + subexp(SEGMENT_NZ$ + PATH_ABEMPTY$) + \"?\"), //simplified\n\t\tPATH_NOSCHEME$
= subexp(SEGMENT_NZ_NC$ + PATH_ABEMPTY$), //simplified\n\t\tPATH_ROOTLESS$ =
subexp(SEGMENT_NZ$ + PATH_ABEMPTY$), //simplified\n\t\tPATH_EMPTY$ = \"(?!\" + PCHAR$ +
\"\ = subexp(PATH_ABEMPTY$ + \"\\" + PATH_ABSOLUTE$ + \"\\" + PATH_NOSCHEME$
 +\"\\" + PATH_ROOTLESS$ + \"\\" + PATH_EMPTY$),\n\t\tQUERY$ = subexp(subexp(PCHAR$ + \"\\" +
\label{eq:linear_part} $$ = subexp(subexp(\'')\'') + AUTHORITY + PATH_ABEMPTY + \''| + CONTROLLED + CONTROL
PATH_ABSOLUTE$ + \"|\" + PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$),\n\t\tURI$ = subexp(SCHEME$ +
\"\\\:\" + HIER_PART$ + subexp(\"\\\\?\" + QUERY$) + \"?\" + subexp(\"\\\\#\" + FRAGMENT$) +
"",\n\t\tRELATIVE_PART$ = subexp(subexp(\"\\\\\\" + AUTHORITY$ + PATH_ABEMPTY$) + \"\" + \"\" + \" + \"\
```

```
'''?''),\n\t\tURI_REFERENCE$ = subexp(URI$ + \"\" + RELATIVE$),\n\t\tABSOLUTE_URI$ =
\"^(\" + SCHEME$ + \")\\\:\" + subexp(subexp(\"\\\\/\\\/(\"
 + \text{subexp}("(" + \text{USERINFO} + ")@") + "?(" + \text{HOST} + ")" + \text{subexp}("\\\:(" + \text{PORT} + \")\") + \"?)\") + "?(" + \text{HOST} + \")") + "?(" +
\"?(\" + PATH ABEMPTY$ + \"\\" + PATH ABSOLUTE$ + \"\\" + PATH ROOTLESS$ + \"\\" +
PATH_EMPTY$ + \")\") + subexp(\"\\\?(\" + QUERY$ + \")\") + \"?\" + subexp(\"\\\#(\" + FRAGMENT$ + \")\")
 + "? \ ", \ tRELATIVE_REF = ""() {0} " + subexp(subexp()"() " + subexp()"(" + USERINFO + \")@\")
+\"?(\" + HOST$ + \")\" + subexp(\"\\\:(\" + PORT$ + \")\") + \"?(\" + PATH ABEMPTY$ + \"\\" +
PATH_ABSOLUTE$ + \"\\" + PATH_NOSCHEME$ + \"\\" + PATH_EMPTY$ + \"\\") + subexp(\"\\\\?(\" +
 SCHEME + ") \ + "g(" + subexp(subexp("\\\/(" + subexp(\"(" + USERINFO + \")@\") + \"?(\" + HOST +
\")\" + subexp(\"\\\:(\" + PORT$ + \")\") + \"?\\" + PATH_ABEMPTY$ + \"\\" + PATH_ABSOLUTE$ +
\"|\" + PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$ + \")\") + subexp(\"\\\\?(\"
 + QUERY$ + \")\") + \"?$\",\n\t\tSAMEDOC REF$ = \"^\" + subexp(\"\\\#(\" + FRAGMENT$ + \")\") +
\"?$\",\n\t\tAUTHORITY_REF$ = \"^\" + subexp(\"(\" + USERINFO$ + \")\@\") + \"?(\" + HOST$ + \")\" +
 subexp(\'')\'(\'' + PORT\$ + \'')\'') + \''?\$(\'n\t; \n\t;
 ALPHA$$, DIGIT$$, \"[\\\\+\\\-\\\\.]\"), \"g\"),\n\t\tNOT_USERINFO: new RegExp(merge(\"[^\\\\%\\\\:]\",
UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\NOT_HOST : new RegExp(merge(\"[^\\\\%\\\\[]\\\\]\\\]\","
 UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tNOT_PATH_NOSCHEME: new
RegExp(merge(\"[^\\\\@]\", UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tNOT_QUERY: new
RegExp(merge(\"[^\\\\%]\", UNRESERVED$$, SUB_DELIMS$$, \"[\\\\:\\\@\\\\\\?]\", IPRIVATE$$),
\"g\"),\n\t\tNOT_FRAGMENT: new RegExp(merge(\"[^\\\\%]\", UNRESERVED$$, SUB_DELIMS$$,
\"[\\\:\\\@\\\\\\?]\"), \"g\"),\n\t\tESCAPE
 : new RegExp(merge(\"[^]\", UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tUNRESERVED : new
RegExp(UNRESERVED$$, \"g\"),\n\t\OTHER_CHARS : new RegExp(merge(\"[^\\\\%]\", UNRESERVED$$,
RESERVED$$), \"g\"),\n\t\tPCT_ENCODED: new RegExp(PCT_ENCODED$, \"g\"),\n\t\tIPV4ADDRESS: new
RegExp(\''', "+ IPV4ADDRESS\$ + \'')\$''), \''tIPV6ADDRESS\$ + rew RegExp(\''', "+ IPV6ADDRESS\$ + rew RegExp(\''', "+ IPV6
\")\" + subexp(subexp(\"\\\\%25\\\\\%(?!\" + HEXDIG$$ + \"{2}\\") + \"(\" + ZONEID$ + \")\") + \"?\\\\]?$\")
//RFC 6874, with relaxed parsing rules\n\t\;\n\nexport default buildExps(false);\n","'use strict';\n\n/** Highest
positive signed 32-bit float value *\nconst maxInt = 2147483647; // aka. 0x7FFFFFFF or 2^31-1\n\n/** Bootstring
 parameters \wedge nconst base = 36;\nconst tMin = 1;\nconst tMax = 26;\nconst skew = 38;\nconst damp = 700;\nconst
initial Bias = 72; \\ \\ | n > 128; \\ \\ | 0x80 \\ \\ | n > 128; \\ | 0x80 \\ \\ | n > 128; \\ | 0x80 \\ \\ | n > 128; \\ | 0x80 \\ | 0
regexPunycode = /^xn--/;\nconst regexNonASCII
 = /[^\\0-\\x7E]/; // non-ASCII chars\nconst regexSeparators = /[\\x2E\\u3002\\uFF0E\\uFF61]/g; // RFC 3490
 separators\n\n/** Error messages *\nconst errors = {\n\t'overflow': 'Overflow: input needs wider integers to
 process',\n\t'not-basic': 'Illegal input'>= 0x80 (not a basic code point)',\n\t'invalid-input': 'Invalid input'\n\;\n\n/**
 Convenience shortcuts */\nconst baseMinusTMin = base - tMin;\nconst floor = Math.floor;\nconst
 ^*/n/n/^* A generic error utility function.\n * @private\n * @param {String} type The error type.\n * @returns
 {Error} Throws a `RangeError` with the applicable error message.\n */\nfunction error(type) {\n\tthrow new
 RangeError(errors[type]);\n \n/**\n * A generic `Array#map` utility function.\n * @ private\n * @ param {Array}
 array The array to iterate over.\n * @param {Function} callback The function that gets called for every
 array\n * item.\n * @returns {Array} A new array of values returned by the callback function.\n *\nfunction
 map(array, fn) \{ \n tresult = []; \n tel ength = array.length; \n twhile (length--) \{ \n tresult[length] = array.length; \n tresult[length] = array.length
 fn(array[length]); |n\t} |n\treturn result; |n| * A simple `Array#map`-like wrapper to work with domain name
```

PATH\_ABSOLUTE\$ + \"|\" + PATH\_NOSCHEME\$ + \"|\" + PATH\_EMPTY\$),\n\t\tRELATIVE\$ =

```
strings or email\n * addresses.\n * @private\n * @param {String} domain The domain name or email address.\n *
@param {Function} callback The function that gets called for every\n * character.\n * @returns {Array} A new
string of characters returned by the callback\n * function.\n */\nfunction mapDomain(string, fn) {\n\tconst parts =
string.split('@');\n\tlet result = ";\n\tif (parts.length > 1) {\n\tif (parts.length > 2) {\n\tif (parts.length > 3) {\n\t
punycoded. Leave\n\t\t// the local part (i.e. everything up to \ensuremath{\ @^{\ }}\) intact.\n\t\t= parts[0] + '@';\n\t\tstring =
parts[1];\n\t]\n\t. Avoid `split(regex)` for IE8 compatibility. See #17.\n\tstring
 = string.replace(regexSeparators, '\x2E');\n\tconst labels = string.split('.');\n\tconst encoded = map(labels,
fn).join('.');\n\treturn result + encoded;\n}\n\n/**\n * Creates an array containing the numeric code points of each
Unicode\n * character in the string. While JavaScript uses UCS-2 internally,\n * this function will convert a pair of
surrogate halves (each of which\n * UCS-2 exposes as separate characters) into a single code point,\n * matching
UTF-16.\n * @see `punycode.ucs2.encode`\n * @see h *
@memberOf punycode.ucs2\n * @name decode\n * @param {String} string The Unicode input string (UCS-2).\n *
@returns {Array} The new array of code points.\n *\nfunction ucs2decode(string) {\n\tconst output = [];\n\tlet
counter = 0;\n\tconst length = string.length;\n\twhile (counter < length) {\n\t\tconst value =
high
 surrogate, and there is a next character.\n\t\t\tconst extra = string.charCodeAt(counter++);\n\t\t\tif ((extra &
0xFC00) == 0xDC00) { // Low surrogate.\n\t\t\t\toutput.push(((value & 0x3FF) << 10) + (extra & 0x3FF) +
0x10000);\n\text{t/t/t} else \n\text{t/t/t/t/t} it's an unmatched surrogate; only append this code unit, in case the \n\text{t/t/t/t/} next
code unit is the high surrogate of a surrogate pair.\nt\tt/t\toutput.push(value);\nt\tt/t\tcounter--;\nt\tt/t\t} else
code points.\n * @see `punycode.ucs2.decode`\n * @memberOf punycode.ucs2\n * @name encode\n * @param
{Array} codePoints The array of numeric code points.\n * @returns {String} The new Unicode string (UCS-2).\n
*/\nconst ucs2encode = array => String.fromCodePoint(...array);\n\n/**\n * Converts a basic code point into a
digit/integer.\n * @see `digitToBasic()`\n * @private\n * @param {Number} codePoint The basic numeric
 code point value.\n * @returns {Number} The numeric value of a basic code point (for use in\n * representing
integers) in the range '0' to 'base - 1', or 'base' if\n * the code point does not represent a value.\n *\nconst
codePoint - 0x61;\n\t}\n\treturn base;\n\t}:\n\n/**\n * Converts a digit/integer into a basic code point.\n * @see
`basicToDigit()`\n * @private\n * @param {Number} digit The numeric value of a basic code point.\n * @returns
{Number} The basic code point whose value (when used for\n * representing integers) is `digit`, which needs to be
in the range\n * \o` to \base - 1\. If \flag\ is non-zero, the uppercase form is\n * used; else, the lowercase form is
used. The behavior is undefined\n * if `flag` is non-zero and `digit` has no uppercase form.\n
 *\nconst digitToBasic = function(digit, flag) {\n\t// 0..25 map to ASCII a..z or A..Z\n\t// 26..35 map to ASCII
0.9\n\treturn digit + 22 + 75 * (digit < 26) - ((flag!= 0) << 5);\n\frac{1}{3};\n\n/**\n * Bias adaptation function as per section
3.4 of RFC 3492.\n * https://tools.ietf.org/html/rfc3492#section-3.4\n * @private\n *\nconst adapt = function(delta,
numPoints, firstTime) {\n\tdet k = 0;\n\tdetta = firstTime ? floor(delta / damp) : delta >> 1;\n\tdetta += floor(delta /
numPoints);\n\tfor (/* no initialization */; delta > baseMinusTMin * tMax >> 1; k += base) {\n\t\tdelta = floor(delta
/ baseMinusTMin);\n\t,\n\t
Punycode string of ASCII-only symbols to a string of Unicode\n * symbols.\n * @memberOf punycode\n *
@param {String} input The Punycode string of ASCII-only symbols.\n * @returns {String} The resulting string of
Unicode symbols.\n *\nconst decode = function(input) {\n\t// Don't use UCS-2.\n\tconst
 output = [];\n\tconst inputLength = input.length;\n\tlet i = 0;\n\tlet n = initialN;\n\tlet bias = initialBias;\n\n\t//
Handle the basic code points: let `basic` be the number of input code\n\t// points before the last delimiter, or `0` if
there is none, then copy\n\t// the first basic code points to the output.\n\n\text{tlet basic} =
a basic code point\n\t \in CodeAt(j) >= 0x80 {\n\t \in CodeAt(j) >= 0x80}
```

```
basic');\n\t\t \n\t\toutput.push(input.charCodeAt(j));\n\t\/ Main decoding loop: start just after the last delimiter
if any basic code\n\t/ points were copied; start at the beginning otherwise.\n\t/ (let index = basic > 0 ? basic + 1
: 0; index < inputLength; /* no final expression */) {\n\n\t\t//`index` is the index of the next character to be
consumed.\n\t\t// Decode a generalized variable-length integer into `delta`,\n\t\t// which
 gets added to `i`. The overflow checking is easier\n\t\t// if we increase `i` as we go, then subtract off its
starting\n\t\t// value at the end to obtain \ensuremath{\mbox{`delta'.\n\t}} thet oldi = i;\n\t\t) (let \ensuremath{\mbox{w}}=1, \ensuremath{\mbox{k}}= base; /* no condition */; \ensuremath{\mbox{k}}+=
base) \{\n\t t \in \mathbb{N} \ (\n\t t \in \mathbb{N} \ (\n\t t \in \mathbb{N} \) \) \ (\n\t t \in \mathbb{N} \) \ (\n\t
basicToDigit(input.charCodeAt(index++));\n\n\t\t\tif (digit >= base || digit > floor((maxInt - i) / w))
k - bias; n/n/t/t (digit < t) {n/t/tt/tbreak; n/t/t} {n/n/t/ttconst baseMinusT = base - t; n/t/t (w > floor(maxInt / bias)); n/t/t/t (t/t) {t/t/t} (t/t) {t/t/t}
1;\n\t\tbias = adapt(i - oldi, out, oldi == 0);\n\n\t\t// i' was supposed to wrap around from 'out' to '0',\n\t\t//
incrementing `n` each time, so we'll fix that now:\n\t\tif
 at position i of the output.\n\t\output.splice(i++, 0, n);\n\n\t\
String.fromCodePoint(...output);\n\;\n\n/**\n * Converts a string of Unicode symbols (e.g. a domain name label) to
a\n * Punycode string of ASCII-only symbols.\n * @memberOf punycode\n * @param {String} input The string of
Unicode symbols.\n * @returns {String} The resulting Punycode string of ASCII-only symbols.\n *\nconst encode
= function(input) \{\n\ output = [\]: \n\ Convert the input in UCS-2 to an array of Unicode code
points. \\ \\ | h| tinput = ucs 2 \\ \\ decode(input); \\ | h| h| t// \\ Cache the length. \\ | h| tempt \\ \\ length = input. \\ \\ length; \\ | h| h| t// \\ \\ Initialize the length \\ \\ | h| tempt \\ \\ | h| tempt
state.\n\tlet n = initialN;\n\tlet delta = 0;\n\tlet bias = initialBias;\n\n\t/ Handle the basic code points.\n\tfor (const
currentValue \ of input) \{ \ | \ (currentValue < 0x80) \}
{\n\t\t}\n\t\t
 basicLength = output.length;\n\tlet handledCPCount = basicLength;\n\n\t// `handledCPCount` is the number of code
points that have been handled;\n\t// `basicLength` is the number of basic code points.\n\n\t// Finish the basic string
with a delimiter unless it's empty.\n\tif (basicLength) {\n\t\toutput.push(delimiter);\n\t}\n\n\t/ Main encoding
loop:\n\twhile (handledCPCount < inputLength) {\n\n\t\t// All non-basic code points < n have been handled already.
Find the next/n/t/t// larger one:\n/t/tlet m = \max_{n,t}/n/t/tfor (const currentValue of input) {\n/t/t} (currentValue >=
n && currentValue < m) {\ntttt} = \currentValue; \ntttt} \nttt} \nttt} \nttt} \nttt} \ntttt} \nttt
decoder's <n,i> state to <m,0>,\n\t\t// but guard against overflow.\n\t\tconst handledCPCountPlusOne =
{\n\t} {\n\t} = (m - n) + \n\c CPCountPlusOne; \n\t}
 = m; \ln t \pmod{const} \pmod{l} {\ln t \choose const} = m; \ln t \pmod{const}
{\ntttttrror('overflow');\ntttt}\nttttf(currentValue == n) {\ntttttrror('overflow');\ntttttrror('overflow');\ntttttrror('overflow');\ntttrror('overflow');\ntttrror('overflow');\nttrror('over
bias ? tMin : (k \ge bias + tMax ? tMax : k - bias); \ln t t t t t (q < t) {\ln t t t t t t bias; \ln t t t t t t t t const
qMinusT = q - t; \ h \ t \ t \ baseMinusT = base -
t; \ln t \le C de(digit To Basic(t + q Minus T \% base Minus T), the trianger of trianger of the trianger of trianger of the trianger of tria
0))\n\t\t\t\t\t\t\t = floor(qMinusT / floor(
handledCPCountPlusOne, handledCPCount == basicLength);\n\t\t\t\tdelta =
0:\langle h/t \rangle + handled CPCount;\langle h/t \rangle / h/t \rangle / h/t + delta;\langle h/t \rangle + handled CPCount;\langle h/t \rangle / h/t \rangle / h/t + handled CPCount;\langle h/t \rangle / h/t \rangle / h/t + handled CPCount;\langle h/t \rangle / h/t \rangle / h/t + handled CPCount;\langle h/t \rangle / h/t \rangle / h/t + handled CPCount;\langle h/t \rangle / h/t \rangle / h/t + handled CPCount;\langle h/t \rangle / h/t \rangle / h/t + handled CPCount;\langle h/t \rangle / h/t \rangle / h/t + handled CPCount;\langle h/t \rangle / h/t \rangle / h/t + handled CPCount;\langle h/t \rangle / h/t \rangle / h/t + handled CPCount;\langle h/t \rangle / h/t \rangle / h/t + handled CPCount;\langle h/t \rangle / h/t \rangle / h/t + handled CPCount;\langle h/t \rangle / h/t \rangle / h/t + handled CPCount;\langle h/t \rangle / h/t \rangle / h/t \rangle / h/t + handled CPCount;\langle h/t \rangle / h/t \rangle
 * Converts a Punycode string representing a domain name or an email address\n * to Unicode. Only the Punycoded
parts of the input will be converted, i.e.\n * it doesn't matter if you call it on a string that has already been\n *
converted to Unicode.\n * @memberOf punycode\n * @param {String} input The Punycoded domain name or
email address to\n * convert to Unicode.\n * @returns {String} The Unicode representation of the given Punycode\n
* string.\n *\nconst toUnicode = function(input) {\n\treturn mapDomain(input, function(string) {\n\t\treturn
regexPunycode.test(string)\n\t\t\t? decode(string.slice(4).toLowerCase())\n\t\t\t: string;\n\t});\n\f*\n**\n*
```

```
Converts a Unicode string representing a domain name or an email address to\n * Punycode. Only the non-ASCII
parts of the domain name will be converted,\n * i.e. it doesn't matter if you call it with a domain that's already in\n *
ASCII.\n * @memberOf punycode\n * @param {String} input The domain name or email address to convert, as
a\n * Unicode string.\n * @returns {String} The Punycode representation of the given domain name or\n * email
address.\n *\nconst toASCII = function(input) {\n\treturn mapDomain(input, function(string) {\n\t\treturn
-----*\n\n\r/** Define the public API *\nconst punycode = {\n\t/**\n\t * A string
representing the current Punycode.js version number.\n\t * @memberOf punycode\n\t * @type String\n\t
*/\n\t'version': '2.1.0',\n\t/**\n\t * An object of methods to convert from JavaScript's internal character\n\t *
representation (UCS-2) to Unicode code points, and back.\n\t * @see < https://mathiasbynens.be/notes/javascript-
encoding>\n\t * @memberOf punycode\n\t * @type Object\n\t */\n\t'ucs2': {\n\t\t'decode': ucs2decode,\n\t\t'encode':
ucs2encode\n\t},\n\t'decode': decode,\n\t'encode': encode,\n\t'toASCII': toASCII,\n\t'toUnicode':
toUnicode\n\;\n\nexport default punycode;\n","/**\n * URI.js\n *\n * @fileoverview An RFC 3986 compliant,
scheme extendable URI parsing/validating/resolving library for JavaScript.\n * @author Gary Court\n * @see http://github.com/garycourt/uri-js\n */n\n/**\n *
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without modification, are\n * permitted provided that the following conditions are met:\n *\n * 1. Redistributions
of source code must retain the above copyright notice, this list of\n *
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OR\n * CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR\n * SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON\n * ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING\n * NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF\n * ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.\n *\n * The views and conclusions contained in the software and documentation are those of
the n * authors and should not be interpreted as representing official policies, either expressed n * or implied, of
Gary Court.\n *\n\nimport URI_PROTOCOL from \"./regexps-uri\";\nimport IRI_PROTOCOL from \"./regexps-
iri\";\nimport punycode from \"punycode\";\nimport
{ toUpperCase, typeOf, assign } from \"./util\";\n\nexport interface URIComponents
{\n\tscheme?:string;\n\tuserinfo?:string;\n\thost?:string;\n\tport?:number|string;\n\tpath?:string;\n\tquery?:string;\n\tf
ragment?:string;\n\treference?:string;\n\terror?:string;\n}\n\nexport interface URIOptions
{\n\tscheme?:string;\n\treference?:string;\n\ttolerant?:boolean;\n\tabsolutePath?:boolean;\n\tiri?:boolean;\n\tunicode
Support?:boolean;\n\tdomainHost?:boolean;\n\nexport interface URISchemeHandler<Components extends
URIComponents = URIComponents, Options extends URIOptions = URIOptions, ParentComponents extends
URIComponents = URIComponents> {\n\tscheme:string;\n\tparse(components:ParentComponents,
options:Options):Components;\n\tserialize(components:Components,
options:Options):ParentComponents;\n\tunicodeSupport?:boolean;\n\tdomainHost?:boolean;\n\tabsolutePath?:boole
an;\n\nexport interface URIRegExps {\n\tNOT_SCHEME : RegExp,\n\tNOT_USERINFO :
RegExp,\n\tNOT_HOST:
RegExp,\n\tNOT_PATH: RegExp,\n\tNOT_PATH_NOSCHEME: RegExp,\n\tNOT_QUERY:
RegExp,\n\tNOT_FRAGMENT: RegExp,\n\tESCAPE: RegExp,\n\tUNRESERVED:
```

```
RegExp,\hline S: RegE
 \{ \}; \n\ensuremath{\mbox{\mbox{N}}}\cline{\mbox{\mbox{\mbox{N}}}\cline{\mbox{\mbox{N}}}\cline{\mbox{\mbox{N}}}\cline{\mbox{\mbox{N}}}\
e = \%0\" + c.toString(16).toUpperCase();\n\telse if (c < 128) e = \%\" + c.toString(16).toUpperCase();\n\telse if (c
 < 2048) e = \"%\" + ((c >> 6) | 192).toString(16).toUpperCase() + \"%\" + ((c & 63) |
 128).toString(16).toUpperCase();\n\telse e = \"\%\" + ((c >> 12) | 224).toString(16).toUpperCase() + \"\%\" + (((c >> 12) | 224).toString(16).toUpperCase() + (((c <> 12) | 224).toString(16).toUpperCase() + (((c <> 12) | 224).toString(16).toUpperCase() + (((c <> 12) | 224).toStr
 6) & 63) | 128).toString(16).toUpperCase() + \"%\" + ((c & 63) | 128).toString(16).toUpperCase();\n\n\treturn
str.length;\n\n\twhile
 (i < il) \{ \n \t c = parseInt(str.substr(i + 1, 2), 16); \n \t (c < 128) \{ \n \t \t = 8 \}
String.fromCharCode(c);\ht\ti += 3;\hti, \ht\telse if (c >= 194 && c < 224) {\ht\t\tif ((il - i) >= 6) {\ht\t\t\tconst
c2 = parseInt(str.substr(i+4, 2), 16); \\ | (c2 \& 63); \\ | (tt)|
else \{ \ln t + str. substr(i, 6); \ln t + t + str. substr(i
 \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 4, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{parseInt}(\operatorname{str.substr}(i + 7, 2), 16): \ln t \le 2 = \operatorname{pars
+= String.fromCharCode(((c & 15) << 12) | ((c2 & 63) << 6) | (c3 & 63));\n\t\t\t\ else {\n\t\t\t\tnewStr} +=
 str.substr(i, 9); \n\t\t\} \n\t\t = 9; \n\t\t\} \n\t\t = str.substr(i, 3); \n\t\t\t += str.substr(i, 3); \n\t\t += str.subst
 3;\n\t\t\n\n\treturn newStr;\n\n\nfunction normalizeComponentEncoding(components:URIComponents,
protocol:URIRegExps) {\n\tfunction decodeUnreserved(str:string):string {\n\t\const
 decStr = pctDecChars(str);\n\t\treturn (!decStr.match(protocol.UNRESERVED) ? str : decStr);\n\t\]\n\n\tif
 (components.scheme) components.scheme = String(components.scheme).replace(protocol.PCT_ENCODED,
 decodeUnreserved).toLowerCase().replace(protocol.NOT_SCHEME, \"\");\n\tif (components.userinfo!==
 undefined) components.userinfo = String(components.userinfo).replace(protocol.PCT ENCODED,
 decodeUnreserved).replace(protocol.NOT_USERINFO, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\tif (components.host !== undefined) components.host =
String(components.host).replace(protocol.PCT ENCODED,
decodeUnreserved). to Lower Case (). replace (protocol.NOT_HOST, pctEncChar). replace (protocol.PCT_ENCODED, pctEncChar). The protocol of th
toUpperCase);\n\tif (components.path !== undefined) components.path =
String(components.path).replace(protocol.PCT_ENCODED, decodeUnreserved).replace((components.scheme?
 protocol.NOT_PATH: protocol.NOT_PATH_NOSCHEME), pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\tif (components.query
 !== undefined) components.query = String(components.query).replace(protocol.PCT_ENCODED,
 decodeUnreserved).replace(protocol.NOT_QUERY, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\tif (components.fragment !== undefined) components.fragment =
String(components.fragment).replace(protocol.PCT ENCODED,
decodeUnreserved).replace(protocol.NOT_FRAGMENT, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\n\treturn components;\n\;\n\nfunction _stripLeadingZeros(str:string):string {\n\treturn
 str.replace(/^0*(.*)/, |*1") || (0)"; n \leq normalize Pv4(host: string, protocol: URIRegExps): string
 {\n\tconst matches = host.match(protocol.IPV4ADDRESS) || [];\n\tconst [, address] = matches;\n\t\n\tif (address)
 {\ntyreturn address.split(\".\").map(_stripLeadingZeros).join(\".\");\nt} else {\ntytreturn host;\nt}\n}\nfunction
 _normalizeIPv6(host:string, protocol:URIRegExps):string {\n\tconst matches =
host.match(protocol.IPV6ADDRESS) || [];\n\tconst [,
 address, zone] = matches;\n\n\tif (address) {\n\t\const [last, first] =
 address.toLowerCase().split('::').reverse();\n\t\tconst firstFields = first ? first.split(\":\").map(_stripLeadingZeros) :
 [];\n\t\const lastFields = last.split(\":\").map(_stripLeadingZeros);\n\t\const isLastFieldIPv4Address =
 protocol.IPV4ADDRESS.test(lastFields[lastFields.length - 1]);\n\t\tconst fieldCount = isLastFieldIPv4Address ? 7:
 8;\n\t\const lastFieldsStart = lastFields.length - fieldCount;\n\t\tconst fields = Array<string>(fieldCount);\n\n\t\tfor
 (let \ x = 0; \ x < fieldCount; ++x) \ \{\n\t\tfields[x] = firstFields[x] \ || \ lastFields[lastFieldsStart + x] \ || \ || \ || \ h\t\t\t\t\t
 (isLastFieldIPv4Address) {\n\t\tfields[fieldCount - 1] = _normalizeIPv4(fields[fieldCount - 1],
 protocol);\n\t\t\n\n\t\const allZeroFields = fields.reduce<Array<{index:number,length:number}>>((acc, field,
```

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index) => {\n\t\tif (!field || field === \"0\") {\n\t\t\tconst lastLongest = acc[acc.length - 1];\n\t\t\tif (lastLongest
 && lastLongest.index + lastLongest.length === index) \{\ntttttttlastLongest.length++;\ntttttt} else
 {\langle h(t), t(t), h(t), h
 allZeroFields.sort((a, b) => b.length - a.length)[0];\n\n\t\tlet newHost:string;\n\t\tif (longestZeroFields &&
= fields.slice(longestZeroFields.index + longestZeroFields.length);\n\t\t\tnewHost = newFirst.join(\":\") + \"::\" +
newLast.join(":\"):\n\t\t\} else {\n\t\t\tmewHost = fields.join(\":\"):\n\t\t\} \n\n\t\t\t\tmewHost += \"\"\" + \"
/^(?:([^:\\/?#]+):)?(?:\\/\((?:([^\\/?#@]*)@)?(\\[[^\\/?#\\]]+\\]|[^\\/?#:]*)(?:\\:(\\d*))?))?([^?#]*)(?:\\?([^#]*))?(?:#((?:
 |\langle n \rangle \rangle; \(nconst NO MATCH IS UNDEFINED = (\(\text{RegExpMatchArray} \(\'' \'' \), \(\text{match} \((\(\) \) \) \(
 === undefined;\n\nexport function parse(uriString; string, options: URIOptions = {}):URIComponents {\n\tconst
components:URIComponents = { };\n\tconst protocol = (options.iri !== false ? IRI_PROTOCOL :
 URI PROTOCOL);\n\n\tif (options.reference === \"suffix\") uriString = (options.scheme ? options.scheme + \":\":
\"\" + \"\'/\" + uriString;\n\n\tconst matches = uriString.match(URI_PARSE);\n\n\tif (matches) {\n\t}
 (NO_MATCH_IS_UNDEFINED) \{ \n\t\t\t\
matches[1]:\n\t\t\components.userinfo = matches[3]:\n\t\t\components.host = matches[4]:\n\t\t\components.port =
parseInt(matches[5], 10);\n\t\t\components.path = matches[6] || \"\";\n\t\t\components.query =
 matches[7]:\n\t\t\components.fragment = matches[8]:\n\t\t\t/fix port number\n\t\t\tif (isNaN(components.port))
 {\t t} = {\t t} for improper RegExp matching \t t = {\t t} for improper RegExp matching \t t = {\t t}
each component\n\t\t\tcomponents.scheme
 = matches[1] || undefined;\n\t\t\components.userinfo = (uriString.indexOf(\"@\") !== -1 ? matches[3] :
 undefined); \n \times (\n String.indexOf(\"//") !== -1 ? matches[4] :
 undefined);\n\t\t\components.port = parseInt(matches[5], 10);\n\t\t\components.path = matches[6] ||
\''';\n\t\t\components.query = (uriString.indexOf(\"?\")!== -1 ? matches[7] :
undefined);\n\t\t\components.fragment = (uriString.indexOf(\"\")!== -1 ? matches[8] : undefined);\n\n\t\t\t//fix
port number\n\t(isNaN(components.port)) {\n\t(t\t)tcomponents.port =
 (uriString.match(/\/\//(?:.|\n)*\:(?:\//\/?|\#|$)/)? matches[4]: undefined); \\ \n'ttt\|n\t\t|. \\ \n'ttt|. \\
 {\ntering} {\ntering} IP hosts \ntering IP hos
 protocol);\n\t\t}\n\n\t\t//determine reference type\n\t\tif (components.scheme === undefined &&
components.userinfo === undefined && components.host === undefined && components.port ===
 undefined && !components.path && components.query === undefined) {\n\t\t\components.reference = \"same-
 document\";\n\t\t} else if (components.scheme === undefined) {\n\t\tcomponents.reference = \"relative\";\n\t\t}
 else if (components.fragment === undefined) \{\nt\true{t}\tru
 {\n\t\tcomponents.reference = \"uri\";\n\t\t}\n\n\t\tr/\check for reference errors\n\t\tif (options.reference &&
 options.reference !== \"suffix\" && options.reference !== components.reference) {\n\t\t\components.error =
handler\n\t\tconst schemeHandler = SCHEMES[(options.scheme || components.scheme ||
\"\").toLowerCase()];\n\n\t\t//check if scheme can't handle IRIs\n\t\tif (!options.unicodeSupport &&
 (!schemeHandler || !schemeHandler.unicodeSupport)) {\n\t\t\t/if host component is a domain name\n\t\t\tif
 (components.host && (options.domainHost || (schemeHandler &&
 = punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase());\n\t\t\t\t\t}
 catch (e) {\n\t\t\t\t\tcomponents.error = components.error || \"Host's domain name can not be converted to ASCII via
URI_PROTOCOL);\n\t\t\ else \\n\t\t\t//normalize encodings\n\t\t_normalizeComponentEncoding(components,
 protocol);\n\t\t\n\n\t\t//perform scheme specific parsing\n\t\tif (schemeHandler && schemeHandler.parse)
 {\ntroveright} / \ntroveright / \n
\URI\ can not\ be\ parsed.\'';\n\treturn\ components;\n\treturn\ components
```

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recomposeAuthority(components:URIComponents, options:URIOptions):string|undefined {\n\tconst protocol =
(options.iri !== false ? IRI PROTOCOL : URI PROTOCOL);\n\tconst
 uriTokens:Array<string> = [];\n\n\tif (components.userinfo !== undefined)
{\n\t\turiTokens.push(components.userinfo);\n\t\turiTokens.push(\"@\");\n\t\f\n\tif (components.host !==
undefined) {\n\t\t//normalize IP hosts, add brackets and escape zone separator for
IPv6\n\t\turiTokens.push(_normalizeIPv6(_normalizeIPv4(String(components.host), protocol),
protocol).replace(protocol.IPV6ADDRESS, (, $1, $2) => \"[\" + $1 + ($2 ?\"%25\" + $2 : \"\") + \"]\"));\n\t}\n\n\tif
(typeof components.port === \"number\")
{\n\t\turiTokens.push(\":\");\n\t\turiTokens.push(components.port.toString(10));\n\t}\n\n\treturn uriTokens.length?
uriTokens.join(\"\"): undefined;\n\\const RDS1 = /^{\.}.\.\\.?\\/;\nconst RDS2 = /^{\.}.\.\\.\\.\\)/\\|
\label{eq:linear_constraint} $$ /^{\...}/s/; \operatorname{RDS} = /^{\...}, \ RDS = /^{\...},
removeDotSegments(input:string):string { \n\tconst output: Array < string > = []; \n\twhile (input.length) { \n\twhile (input.length) } } \\
(input.match(RDS1))
 {\ntrovernment {\nt
'''; h(t) else if (input.match(RDS3)) {h(t) else if (input.
(input === \''.\''' | input === \''.\''') \{ \n\t\t\t else \{ \n\t\t\t enst im = input.match(RDS5); \n\t\t\t (im) \} \}
{\nttrule (s.length); \nttrule (s.length); \ntrule (s.length); \
Error(\"Unexpected dot segment condition\");\n\t\t\\\n\\treturn output.join(\"\");\n\return function
serialize(components:URIComponents, options:URIOptions = {}):string {\n\tconst protocol = (options.iri?
schemeHandler = SCHEMES[(options.scheme || components.scheme || \"\").toLowerCase()]; \n\n\t/perform scheme
specific serialization\n\tif (schemeHandler && schemeHandler.serialize)
 schemeHandler.serialize(components, options);\n\n\tif (components.host) {\n\t\t//if host component is an IPv6
address\n\t\tif (protocol.IPV6ADDRESS.test(components.host)) \\n\t\t//TODO: normalize IPv6 address as per
RFC 5952\n\t\t}\n\n\t\t//if host component is a domain name\n\t\telse if (options.domainHost || (schemeHandler &&
schemeHandler.domainHost)) {n/t/t/convert IDN via punycode/n/t/ttry {n/t/t/tcomponents.host = (!options.iri
? punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase()):
punycode.toUnicode(components.host));\n\t\t\t\ catch (e) {\n\t\t\t\components.error = components.error || \"Host's
domain name can not be converted to \" + (!options.iri ? \"ASCII\" : \"Unicode\") + \" via punycode: \" +
e;\n\t\t\\n\t/\n\t/\n\rt/\normalize encoding\n\t normalizeComponentEncoding(components, protocol);\n\n\tif
(options.reference !== \"suffix\" && components.scheme)
{\n\t\turiTokens.push(\components.scheme);\n\t\turiTokens.push(\":\");\n\t}\n\n\tconst
 authority = recomposeAuthority(components, options);\n\tif (authority !== undefined) {\n\t\tif (options.reference
!==\"suffix\") {\n\t\turiTokens.push(\"/\");\n\t\t\n\n\t\turiTokens.push(authority);\n\n\t\tif (components.path &&
undefined) \{\nt \le components.path;\nn\t\tif (!options.absolutePath && (!schemeHandler ||
!schemeHandler.absolutePath)) {\n\t\t\s = removeDotSegments(s);\n\t\t}\n\n\t\tif (authority === undefined)
{\n\t} s.replace(/\\\\\, \"/%2F\"); //don't allow the path to start with
\'''/n\t\ty\n\t\turiTokens.push(s);\n\t\n\n\tif (components.query !== undefined)
{\n\t\turiTokens.push(\"?\");\n\t\turiTokens.push(components.query);\n\t}\n\n\tif (components.fragment !==
undefined) {\n\t\turiTokens.push(\"\"\");\n\t\turiTokens.push(components.fragment);\n\t\n\n\treturn
uriTokens.join(\"\"); //merge tokens into
 a string\n\;\n\nexport function resolveComponents(base:URIComponents, relative:URIComponents,
options:URIOptions = {}, skipNormalization?:boolean):URIComponents {\n\tconst target:URIComponents =
{\};\n\n\tif (!skipNormalization) {\n\t\tbase = parse(serialize(base, options), options); //normalize base
components\n\t\trelative = parse(serialize(relative, options), options); //normalize relative
relative.scheme;\n\t\tr/target.authority = relative.authority;\n\t\tracet.userinfo = relative.userinfo;\n\t\tracet.host =
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relative.host;\n\t\ttarget.port = relative.port;\n\t\ttarget.path = removeDotSegments(relative.path ||
\"\");\n\t\ttarget.query = relative.query;\n\t\} else {\n\t\tif (relative.userinfo !== undefined || relative.host !==
undefined || relative.port !== undefined) {\n\t\t\t//target.authority = relative.authority;\n\t\ttarget.userinfo =
relative.userinfo;\n\t\ttarget.host
 \"\");\n\t\ttarget.query = relative.query;\n\t\t} else {\n\t\tif (!relative.path) {\n\t\t\ttarget.path =
{\ntrrr} (h/t/t/t/t) = lse {\ntrrr} (base.userinfo !== undefined ||
base.host !== undefined || base.port !== undefined) && !base.path) {\n\t\t\t\t\t\t\ttarget.path = \"\\" +
{\n\t\t\t\t\t} base.path.slice(0, base.path.lastIndexOf(\"\") + 1) +
= relative.query;\n\t\t\t}\n\tt/t/target.authority = base.authority;\n\tt/target.userinfo =
base.scheme;\n\t}\n\n\ttarget.fragment = relative.fragment;\n\n\treturn target;\n};\n\nexport function
resolve(baseURI:string, relativeURI:string, options?:URIOptions):string {\n\tconst schemelessOptions = assign({
scheme: 'null' }, options);\n\treturn serialize(resolveComponents(parse(baseURI, schemelessOptions),
parse(relativeURI, schemelessOptions), schemelessOptions, true), schemelessOptions);\n\;\n\nexport function
normalize(uri:string, options?:URIOptions):string;\nexport function normalize(uri:URIComponents,
options?:URIOptions):URIComponents;\nexport function normalize(uri:any, options?:URIOptions):any {\n\tif
(typeof uri === \"string\") {\n\t\uri = serialize(parse(uri, options), options);\n\t} else if (typeOf(uri) === \"object\")
{\n\t\turi = parse(serialize(<URIComponents>uri,
 options), options);\n\t}\n\n\treturn uri;\n};\n\nexport function equal(uriA:string, uriB:string, options?:
URIOptions):boolean;\nexport function equal(uriA:URIComponents, uriB:URIComponents,
options?:URIOptions):boolean;\nexport function equal(uriA:any, uriB:any, options?:URIOptions):boolean {\n\tif
(typeof uriA === \"string\") {\n\t\turiA = serialize(parse(uriA, options), options);\n\t} else if (typeOf(uriA) ===
\"object\") {\n\t\turiA = serialize(<URIComponents>uriA, options);\n\t}\n\n\tif (typeof uriB === \"string\")
{\n\t\turiB = serialize(parse(uriB, options), options);\n\t} else if (typeOf(uriB) === \"object\") {\n\t\turiB =
serialize(<URIComponents>uriB, options);\n\t}\n\ntreturn uriA === uriB;\n};\n\nexport function
escapeComponent(str:string, options?:URIOptions):string {\n\treturn str && str.toString().replace((!options ||
!options.iri ? URI_PROTOCOL.ESCAPE : IRI_PROTOCOL.ESCAPE), pctEncChar);\n\;\n\nexport function
unescapeComponent(str:string, options?:URIOptions):string
 {\n\treturn str && str.toString().replace((!options || !options.iri ? URI PROTOCOL.PCT ENCODED :
IRI_PROTOCOL.PCT_ENCODED), pctDecChars);\n\;\n","import { URISchemeHandler, URIComponents,
URIOptions } from \"../uri\";\nimport { pctEncChar, pctDecChars, unescapeComponent } from \"../uri\";\nimport
punycode from \"punycode\";\nimport { merge, subexp, toUpperCase, toArray } from \"../util\";\n\nexport interface
MailtoHeaders {\n\t[hfname:string]:string\n\nexport interface MailtoComponents extends URIComponents
{\n\cdot}\, \n\to:Array<string>,\n\theaders?:MailtoHeaders,\n\tsubject?:string,\n\thody?:string\n}\n\nconst O:MailtoHeaders
\"\\\xA0-\\\\u200D\\\\u2010-\\\\u2029\\\\u202F-\\\\uD7FF\\\\uF900-\\\\uFDF\-\\\\uFFF\": \"\") +
\"]\";\nconst HEXDIG$$ = \"[0-9A-Fa-f]\"; //case-insensitive\nconst PCT_ENCODED$ =
subexp(subexp(\"%[EFef]\" + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$
+ \"\%\" + HEXDIG$$ + HEXDIG$$) + \"\" + subexp(\"%[89A-Fa-f]\" + HEXDIG$$ + \"\%\" + HEXDIG$$$ + \"\%\" + HEXDIG$$$ + \"\%\" + HEXDIG$$ + \"\%\" + \"\%\" + HEXDIG$$ + \"\%\"
\text{HEXDIG}$) + \"\\" + subexp(\"%\" + \text{HEXDIG}$$ + \text{HEXDIG}$$)); //expanded\\\\\/RFC 5322, except these
\|\cdot\|_{\|\cdot\|}^{\|\cdot\|}\|_{\|\cdot\|}^{\|\cdot\|}\|_{\|\cdot\|}^{\|\cdot\|}\|_{\|\cdot\|}^{\|\cdot\|}
 \begin{tabular}{ll} $ \C \N 08 \N 08 \N 08 \N 08 \N 08 \N 08 \N 09 \N
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= merge(|"[||||x21|||x5B||||x5D-||||x7E]|", OBS_QTEXT$\$); //%d33 / %d35-91 / %d93-126 / obs-properties of the control of the
qtext \ | VCHAR = \| \| \| x^21 - \| x^21
 subexp(\"\\\\\" + merge(\"[\\\x00\\\x0D\\\x0A]\", OBS_QTEXT$$)); //%d0 / CR / LF / obs-qtext\n//const
= subexp(subexp(\"\\\\\\"
 + \operatorname{subexp}(\operatorname{VCHAR} + \operatorname{VCHAR} + \operatorname{VCHAR})) + \operatorname{VCHAR} + \operatorname{VCHA
subexp(FWS$ + \"?\" + QCONTENT$) + \"*\" + FWS$ + \"?\" + \\\\\");\nconst ATEXT$$ = \"[A-Za-z0-
merge(QTEXT$$, \"[\\\\\]\");\nconst DOT ATOM TEXT$ = subexp(ATEXT$$ + \"+\" + subexp(\"\\\\.\" +
subexp(QTEXT$$ + \"\" + QUOTED_PAIR$);\nconst QUOTED_STRING$ = subexp(\\\\\" + QCONTENT$ +
\"*\" + \\\\\");\n\n/\RFC 6068\nconst DTEXT NO OBS$$ = \"[\\\\x5A\\\\x5E-\\\\x7E]\"; //%d33-90 /
subexp(UNRESERVED$$ + \"\\" + PCT_ENCODED$ + \"\\" + SOME_DELIMS$$);\nconst
 LOCAL_PART$ = subexp(DOT_ATOM_TEXT$ + \"\" + QUOTED_STRING$);\nconst ADDR_SPEC$ =
 subexp(LOCAL\ PART\$ + \"\)\) = subexp(ADDR\ SPEC\$ + subexp(\"\\\,\" + DOMAIN\$);
ADDR SPEC$) + \"*\");\nconst HFNAME$ = subexp(QCHAR$ + \"*\");\nconst HFVALUE$ =
HFNAME$;\nconst HFIELD$ = subexp(HFNAME$ + \"\\\=\" + HFVALUE$);\nconst HFIELDS2$ =
 subexp(HFIELD\$ + subexp(\"\\\&\" + HFIELD\$) + \"*\"); nconst HFIELDS\$ = subexp(\\"\\\\?\" + HFIELD$) + \"*\"); nconst HFIELDS$
UNRESERVED = new RegExp(UNRESERVED$$, \"g\");\nconst PCT_ENCODED = new
RegExp(PCT_ENCODED$, \"g\");\nconst NOT_LOCAL_PART = new RegExp(merge(\"[^]\", ATEXT$$,
\"[\\\.]\", '[\\\\"]', VCHAR$$), \"g\");\nconst NOT_DOMAIN = new RegExp(merge(\"[^]\", ATEXT$$, \"[\\\\.]\",
\"[\\\[]\", DTEXT NO OBS$$, \"[\\\]]\"), \"g\");\nconst NOT HFNAME = new RegExp(merge(\"[^]\",
 UNRESERVED\$\$, SOME_DELIMS\$\$), \\ "g\");\\ \\ |nconst|NOT_HFVALUE = NOT_HFNAME;\\ \\ |nconst|TO = new|TO =
RegExp(\"^\" + TO\$ + \"\$'"); \nconst HFIELDS = new RegExp(\"^\" + HFIELDS2\$ + \"\$'"); \n\nfunction
decodeUnreserved(str:string):string {\n\tconst decStr = pctDecChars(str);\n\treturn (!decStr.match(UNRESERVED)
 ? str : decStr);\n}\n\nconst handler:URISchemeHandler<MailtoComponents> = {\n\tscheme : \"mailto\",\n\n\tparse
: function (components:URIComponents, options:URIOptions):MailtoComponents {\n\t\const mailtoComponents =
components as MailtoComponents;\n\t\tconst to = mailtoComponents.to = (mailtoComponents.path?
mailtoComponents.path.split(\",\"): []); \n\t\tmailtoComponents.path = undefined; \n\n\t\tif
(mailto Components. query) {\n/t/tlet unknown Headers} = false\n/t/t) + false\n
hfields = mailtoComponents.query.split(\"\&\"); \n\n\t\thfor (let x = 0, xl = hfields.length; x < xl; ++x) {\n\t\t\t}const
hfield = hfields[x].split(\"=\");\n\n\t\t\tswitch (hfield[0])
 {\t ('', ''); \t ('', ''); \t
\"subject\":\n\t\t\t\t\tmailtoComponents.subject = unescapeComponent(hfield[1],
 options);\n\t\t\t\t\t\ttreak;\n\t\t\t\t\tcase \"body\":\n\t\t\t\t\tmailtoComponents.body =
 true;\n\t\t\t\t\t\t\theaders[unescapeComponent(hfield[0], options)] = unescapeComponent(hfield[1],
 options);\langle n/t/t/t/t \rangle /n/t/t/t \rangle /n/t/t/t (unknownHeaders) mailtoComponents.headers =
headers; \ln t \le n / t
 {\ntrover addr = to[x].split(\@'");\nn\tt\taddr[0] = unescapeComponent(addr[0]);\nn\tt\tif}
 (!options.unicodeSupport) {\n\t\t\t//convert Unicode IDN ->
 ASCII IDN\n\t\t\t {\n\t\t\taddr[1] = punycode.toASCII(unescapeComponent(addr[1],
 options).toLowerCase());\n\t\t\t catch (e) \n\t\tt\t\t\t\tmailtoComponents.error = mailtoComponents.error || \"Email
```

```
mailtoComponents;\n\t\,\n\n\tserialize: function (mailtoComponents:MailtoComponents,
options:URIOptions):URIComponents {\n\t\tconst components = mailtoComponents as URIComponents;\n\t\tconst
to = toArray(mailtoComponents.to); h(t) (to) h(t) (let t = 0, t = t). Length; t < t; t < t) t < t.
atIdx)).replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED,
toUpperCase).replace(NOT_LOCAL_PART, pctEncChar);\n\t\t\tlet
 punycode.toASCII(unescapeComponent(domain, options).toLowerCase()): punycode.toUnicode(domain));\n\t\t\t\t\t\t\t
catch (e) {\n\t\t\t\t\tcomponents.error = components.error || \"Email address's domain name can not be converted to
domain: \langle h/t/t \rangle / h/n/t/t components. path = to.join()'', | h/t/t/t \rangle / h/n/t/t const headers = mailtoComponents. headers = mailtoComponen
mailtoComponents.headers || { };\n\n\t\tif (mailtoComponents.subject) headers[\"subject\"] =
mailtoComponents.subject;\n\t\tif (mailtoComponents.body) headers[\"body\"] =
mailtoComponents.body;\n\n\t\tconst fields = [];\n\t\for (const name in headers) {\n\t\t\tif (headers[name] !==
O[name]) {\n\t\t\t\tfields.push(\n\t\t\t\t\tname.replace(PCT_ENCODED,
decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_HFNAME,
decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_HFVALUE,
pctEncChar)\n\t\t\t);\n\t\t\t}\n\t\tif (fields.length) {\n\t\tcomponents.query}
fields.join(\"&\");\n\t\t}\n\n\t\treturn components;\n\t}\n}\n\nexport default handler;","import { URIRegExps } from
\"./uri\";\nimport { buildExps } from \"./regexps-uri\";\n\nexport default buildExps(true);\n", "import {
URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\n\nconst handler:URISchemeHandler =
{\n\tscheme: \"http\",\n\n\tdomainHost: true,\n\n\tparse: function (components:URIComponents,
options:URIOptions):URIComponents {\n\t\t//report missing host\n\t\tif (!components.host)
{\n\t}\ unthe unit is a most like a host.\";\n\t\t\return
components;\n\t\},\n\n\tserialize: function (components:URIComponents, options:URIOptions):URIComponents
{\n\t/normalize the}
 default port\n\t\tif (components.port === (String(components.scheme).toLowerCase() !== \"https\" ? 80 : 443) ||
components.port === \''\'') \{\nt\t\tcomponents.port = undefined;\nt\t\}\nt\t\t/\normalize the empty path\nt\tif
(!components.path) {\n\t\t}\components.path = ''\'';\n\t\t}\n\n\t\t'\NOTE: We do not parse query strings for HTTP
URIs\n\t\t//as WWW Form Url Encoded query strings are part of the HTML4+ spec,\n\t\t//and not the HTTP
spec.\n\n\t\treturn components;\n\t\\n\;\n\nexport default handler;","import { URISchemeHandler,
URIComponents, URIOptions } from \"../uri\";\nimport http from \"./http\";\n\nconst handler:URISchemeHandler =
{\n\tscheme: \"https\",\n\tdomainHost: http.domainHost,\n\tparse: http.parse,\n\tserialize:
http.serialize\n}\n\nexport default handler;","import { URISchemeHandler, URIComponents, URIOptions } from
\"../uri\";\nimport { pctEncChar, SCHEMES } from \"../uri\";\n\nexport interface URNComponents extends
URIComponents {\n\tnid?:string;\n\tnss?:string;\n}\n\nexport
interface URNOptions extends URIOptions {\n\tnid?:string;\n}\n\const NID$ = \"(?:[0-9A-Za-z][0-9A-Za-z\\\-
\{1,31\}\\";\nconst PCT_ENCODED$ = \"(?:\\\\%[0-9A-Fa-f]{2}\\\";\nconst TRANS$$ = \"[0-9A-Za-f]^{2}\\";\nconst TRANS$$
PCT_ENCODED\$ + \\ "|\ " + TRANS\$\$ + \\ ") +) "; \\ |nconst URN_SCHEME = new RegExp(\\ "^urn\\ |\ " + NID\$ + PCT_ENCODED\$ + \\ " + NID\$ + \\ " + NID\$ + PCT_ENCODED\$ + \\ " + NI
\")\n\nconst URN_PATH = new RegExp(\"^(\" + NID$ + \")\\\:(\" + NSS$ + \")$\");\nconst URN_PARSE =
\\xFF\]/g;\n\n//RFC 2141\nconst handler:URISchemeHandler<URNComponents,URNOptions> = {\n\tscheme :
\"urn\",\n\n\tparse: function (components:URIComponents, options:URNOptions):URNComponents {\n\t\tconst
matches = components.path && components.path.match(URN_PARSE);\n\t\tlet urnComponents = components as
```

```
URNComponents;\n\n\t\tif (matches) {\n\t\t\const
 scheme = options.scheme || urnComponents.scheme || \"urn\";\n\t\t\const nid =
matches[1].toLowerCase();\n\t\t\tconst nss = matches[2];\n\t\t\tconst urnScheme = `${scheme}:${options.nid ||
nid}`;\n\t\t\tconst schemeHandler = SCHEMES[urnScheme];\n\n\t\t\turnComponents.nid =
nid;\n\t\t\turnComponents.nss = nss;\n\t\t\turnComponents.path = undefined;\n\n\t\t\tif (schemeHandler)
{\ntrue {\ntrue | \ntrue | \
urnComponents;\n\t},\n\n\tserialize : function (urnComponents:URNComponents,
options:URNOptions):URIComponents {\n\t\tconst scheme = options.scheme || urnComponents.scheme ||
\"urn\";\n\t\tconst nid = urnComponents.nid;\n\t\tconst urnScheme = `${scheme};\${options.nid || nid}`;\n\t\tconst
schemeHandler = SCHEMES[urnScheme];\n\n\t\tif (schemeHandler) {\n\t\turnComponents =
schemeHandler.serialize(urnComponents,
 options) as URNComponents;\n\t\t\n\n\t\const uriComponents = urnComponents as URIComponents;\n\t\t\const
nss = urnComponents.nss;\n\t\turiComponents.path = `${nid || options.nid}:${nss}`;\n\n\t\treturn
uriComponents;\n\t},\n};\n\nexport default handler;","import { URISchemeHandler, URIComponents, URIOptions
} from \"../uri\":\nimport { URNComponents } from \"./urn\":\nimport { SCHEMES } from \"../uri\":\n\nexport
interface UUIDComponents extends URNComponents {\n\tuuid?: string;\n}\n\nconst UUID = /^[0-9A-Fa-
f_{8}(?:\-[0-9A-Fa-f]_{4})_{3}\-[0-9A-Fa-f]_{12}_{.\nconst} UUID PARSE = /^{0-9A-Fa-f}_{36}/.\nconst
4122\nconst handler:URISchemeHandler<UUIDComponents, URIOptions, URNComponents> = {\n\tscheme:
\"urn:uuid\",\n\n\tparse: function (urnComponents:URNComponents, options:URIOptions):UUIDComponents
\\n\t\tconst uuidComponents = urnComponents as UUIDComponents;\n\t\tuuidComponents.uuid =
uuidComponents.nss;\n\t\tuuidComponents.nss = undefined;\n\n\t\tif (!options.tolerant &&
 (!uuidComponents.uuid || !uuidComponents.uuid.match(UUID))) {\n\t\tuuidComponents.error =
uuidComponents.error || \"UUID is not valid.\";\n\t\t\n\n\t\treturn uuidComponents;\n\t\,\n\n\tserialize : function
(uuidComponents:UUIDComponents, options:URIOptions):URNComponents {\n\t\const urnComponents =
uuidComponents as URNComponents;\n\t\t//normalize UUID\n\t\turnComponents.nss = (uuidComponents.uuid ||
\"\").toLowerCase();\n\t\treturn urnComponents;\n\t\,\n\;\n\nexport default handler;","import { SCHEMES } from
\"./uri\";\n\nimport http from \"./schemes/http\";\nSCHEMES[http.scheme] = http;\n\nimport https from
\"./schemes/https\";\nSCHEMES[https.scheme] = https;\n\nimport mailto from
\"./schemes/mailto\";\nSCHEMES[mailto.scheme] = mailto;\n\nimport urn from
\"./schemes/urn\";\nSCHEMES[urn.scheme] = urn;\n\nimport uuid from \"./schemes/urn-
uuid\";\nSCHEMES[uuid.scheme] = uuid;\n\nexport * from \"./uri\";\n"]}
```

## Found in path(s):

\*/opt/cola/permits/1110634955\_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/dist/es5/uri.all.min.js.map

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

```
{"version":3,"file":"uri.all.js","sources":["../../src/index.ts","../../src/schemes/urn-
uuid.ts","../../src/schemes/urn.ts","../../src/schemes/mailto.ts","../../src/schemes/https.ts","../../src/schemes/https.ts","../../src/schemes/https.ts","../../src/schemes/https.ts","../../src/regexps-
uri.ts","../../src/util.ts"],"sourcesContent":["import { SCHEMES } from \"./uri\";\n\nimport http from
\"./schemes/http\";\nSCHEMES[http.scheme] = https;\n\nimport mailto from
\"./schemes/https\";\nSCHEMES[https.scheme] = https;\n\nimport urin from
\"./schemes/mailto\";\nSCHEMES[mailto.scheme] = mailto;\n\nimport urin from
\"./schemes/urn\";\nSCHEMES[urin.scheme] = urin;\n\nimport urin from \"./schemes/urn-
uuid\";\nSCHEMES[uuid.scheme] = uuid;\n\nexport * from \"./uri\";\n","import { URISchemeHandler,
URIComponents, URIOptions } from \"../uri\";\nimport { URNComponents } from \"./urn\";\nimport { SCHEMES
```

```
} from \"../uri\";\n\nexport interface UUIDComponents extends URNComponents {\n\tuuid?: string;\n}\n\nconst
 UUID = /^{[0-9A-Fa-f]} \{ 8 \} (?: \-[0-9A-Fa-f] \{ 4 \}) \{ 3 \} \\ -[0-9A-Fa-f] \{ 12 \} \$ /; \\ \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \} \$ /; \\ | 12 \}
 [36]/;\n\n/RFC 4122\nconst handler:URISchemeHandler<UUIDComponents, URIOptions, URNComponents>
 {\n\tscheme : \"urn:uuid\",\n\n\tparse : function (urnComponents:URNComponents,
options:URIOptions):UUIDComponents {\n\t\const uuidComponents = urnComponents as
 UUIDComponents;\n\t\tuuidComponents.uuid = uuidComponents.nss;\n\t\tuuidComponents.nss =
 undefined;\n\n\t\tif (!options.tolerant && (!uuidComponents.uuid || !uuidComponents.uuid.match(UUID)))
 uuidComponents;\n\t},\n\n\tserialize : function (uuidComponents:UUIDComponents,
 options:URIOptions):URNComponents {\n\t\tconst urnComponents = uuidComponents as
URNComponents; \\ \\ |n\rangle \\ \\ |t\rangle \\ |n\rangle \\ |t\rangle \\ |
 \| \''' \}.toLowerCase();\n\treturn urnComponents;\n\t\,\n\;\n\nexport default handler;","import {
 URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\nimport { pctEncChar, SCHEMES } from
\"../uri\";\n\nexport interface URNComponents extends URIComponents
 {\n\tnid?:string;\n\tnss?:string;\n}\n\nexport interface URNOptions extends URIOptions
 {\pi:string;\n}\in NID = \"(?:[0-9A-Za-z][0-9A-Za-z\\\-]{1,31}\\";\nconst PCT_ENCODED$ =
TRANS\$\$ + "")+)""; |nconst URN_SCHEME = new RegExp(""urn\\\":(" + NID\$ + "")\$"); |nconst URN_PATH = ""."" |nconst URN_PATH |nconst URN_PATH | |nconst U
new RegExp(\"^(\" + NID$ + \")\\\:(\" + NS$ + \")$\");\nconst URN_PARSE = /^([^\\:]+)\\:(.*)/;\nconst
handler:URISchemeHandler<URNComponents,URNOptions>
 = {\n\tscheme : \"urn\",\n\n\tparse : function (components:URIComponents,
 options:URNOptions):URNComponents {\n\t\tconst matches = components.path &&
components.path.match(URN_PARSE);\n\t\tlet urnComponents = components as URNComponents;\n\n\t\tif
 (matches) {\n\t\t\const scheme = options.scheme || urnComponents.scheme || \"urn\";\n\t\t\const nid =
 matches[1].toLowerCase();\n\t\t\tconst nss = matches[2];\n\t\t\tconst urnScheme = `${scheme}:${options.nid ||
 nid}`;\n\t\t\tconst schemeHandler = SCHEMES[urnScheme];\n\n\t\t\turnComponents.nid =
 nid; \ln t = nss; \ln t \cdot t = nss; \ln t \cdot t = nss; \ln t \cdot t = nss; \ln
 {\ntrue \{ \ntrue \} \ntrue \} } (urnComponents = schemeHandler.parse(urnComponents, options) as URNComponents; \ntrue \
 {\ntering} \ urnComponents.error \| \URN \ can not be parsed.\";\n\t\t\runn\t\treturn
 urnComponents;\n\t},\n\n\tserialize : function (urnComponents:URNComponents,
 options:URNOptions):URIComponents
 {\n\t\const scheme = options.scheme || urnComponents.scheme || \"urn\";\n\t\tconst nid =
 urnComponents.nid;\n\t\tconst urnScheme = `${scheme}:${options.nid || nid}`;\n\t\tconst schemeHandler =
SCHEMES[urnScheme]; \n\t (schemeHandler) {\n\t (schemeHandler) }
urnComponents as URIComponents;\n\t\tconst nss = urnComponents.nss;\n\t\turiComponents.path = `${nid ||
options.nid}:${nss}`;\n\n\t\treturn uriComponents;\n\t},\n};\n\nexport default handler;","import {
 URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\nimport { pctEncChar, pctDecChars,
 unescapeComponent } from \"../uri\";\nimport punycode from \"punycode\";\nimport { merge, subexp,
 toUpperCase, toArray } from \"../util\";\n\nexport interface MailtoHeaders {\n\t[hfname:string]:string\n}\n\nexport
 interface MailtoComponents extends URIComponents
 {\n\tto:Array<string>,\n\theaders?:MailtoHeaders,\n\tsubject?:string,\n\thody?:string\n}\n\const
 O:MailtoHeaders = { };\nconst isIRI = true;\n\n/\RFC 3986\nconst UNRESERVED$$ = \"[A-Za-z0-9\\\\-
\\\\.\\\\~\\\+ (isIRI ?\"\\\\xA0-\\\\u200D\\\\u2010-\\\\u202F-\\\\uD7FF\\\\uF900-\\\\uFDF0-\\\
\\\\uFFEF\": \"\") + \"]\";\nconst HEXDIG$$ = \"[0-9A-Fa-f]\"; //case-insensitive\nconst PCT_ENCODED$ =
```

```
HEXDIG$$) + \"\\" + subexp(\"%[89A-Fa-f]\" + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$) + \"\\" +
subexp(\"\" + HEXDIG$$ + HEXDIG$$)); //expanded\n\n/RFC 5322, except these symbols as per RFC 6068: @
\label{eq:linear_const_wsp} $$= \left(\frac{20}{\sqrt{20}}\right)^{-1/2} GBS_QTEXT$$= \end{tabular}
\"[\\\x08\\\\x0B\\\\x0B\\\\x0E\\\\x1F\\\x1F\\\x7F]\\"; //(%d1-8 / %d11-12 / %d14-31 / %d127)\n//const QTEXT$$
= merge(\"[\\\x21\\\x23-\\\x5B\\\\x5D-\\\\x7E]\",
OBS QTEXT$$); //\%d33 / %d35-91 / %d93-126 / obs-qtext\n//const VCHAR$$ = \"[\\\\x1-\\\x7E]\";\n//const
WSP\$\$ = "[\|\x00\|\x09]\|\x00BS_QP\$ = subexp(\|\\|\\|\ + merge(\|\\|\x00\|\x0D\|\x0A]\|,
\width
subexp(VCHAR\$\$ + \parallel \parallel WSP\$\$)) + \parallel \parallel WSP\$\$)) + \parallel \parallel WSP\$\$)) + \parallel \parallel WSP\$\$)) + \parallel \parallel WSP\$\$)
subexp(FWS$ + \"?\" + QCONTENT$) + \"*\" + FWS$ + \"?\" + \\\\\");\nconst ATEXT$$ = \"[A-Za-z0-
merge(QTEXT$$, \"[\\\\\]\");\nconst DOT_ATOM_TEXT$ = subexp(ATEXT$$ + \"+\" + subexp(\"\\\\.\" +
ATEXT\$\$ + \"+\") + \"*\"); \ QUOTED_PAIR\$ = subexp(\"\"\") + VCHAR\$\$); \ \ nconst
 QCONTENT$ = subexp(QTEXT$$ + \"\\" + QUOTED_PAIR$);\nconst QUOTED_STRING$ = subexp(\\\\\\" +
QCONTENT$ + \"*\" + \\\\\");\n\n/RFC 6068\nconst DTEXT NO OBS$$ = \"[\\\\x21-\\\\x5A\\\\x5E-\\\\x7E]\";
LOCAL_PART$ = subexp(DOT_ATOM_TEXT$ + \"\" + QUOTED_STRING$);\nconst ADDR_SPEC$ =
subexp(LOCAL_PART\$ + \''\) @ \'' + DOMAIN\$); \\ | nconst\ TO\$ = subexp(ADDR_SPEC\$ + subexp(\''\) \'' + DOMAIN\$); \\ | nconst\ TO\$ = subexp(ADDR_SPEC\$ + subexp(\''\) \'' + DOMAIN\$); \\ | nconst\ TO\$ = subexp(ADDR_SPEC\$ + subexp(\''\) \'' + DOMAIN\$); \\ | nconst\ TO\$ = subexp(ADDR_SPEC\$ + subexp(\''\) \'' + DOMAIN\$); \\ | nconst\ TO\$ = subexp(ADDR_SPEC\$ + subexp(\''\) \'' + DOMAIN\$); \\ | nconst\ TO\$ = subexp(ADDR_SPEC\$ + subexp(\''\) \'' + DOMAIN\$); \\ | nconst\ TO\$ = subexp(ADDR_SPEC\$ + subexp(\''\) \'' + DOMAIN\$); \\ | nconst\ TO\$ = subexp(ADDR_SPEC\$ + subexp(\''\) \'' + DOMAIN\$); \\ | nconst\ TO\$ = subexp(ADDR_SPEC\$ + subexp(\''\) \'' + DOMAIN\$); \\ | nconst\ TO\$ = subexp(\''\) \ | nconst\ TO\$ = subexp(\''\) \
ADDR SPEC$) + \"*\");\nconst HFNAME$ = subexp(QCHAR$ + \"*\");\nconst HFVALUE$ =
HFNAME$;\nconst HFIELD$ = subexp(HFNAME$ + \"\\\=\" + HFVALUE$);\nconst HFIELDS2$ =
subexp(HFIELD\$ + subexp(\''\\\&\" + HFIELD\$) + \'"*\"); nconst HFIELD\$\$ = subexp(\''\\\\?\" + HFIELD$\)
HFIELDS2$);\nconst MAILTO URI = new RegExp(\"^mailto\\\\:\"
 + TO$ + \"?\" + HFIELDS$ + \"?$\");\n\nconst UNRESERVED = new RegExp(UNRESERVED$$, \"g\");\nconst
PCT_ENCODED = new RegExp(PCT_ENCODED$, \"g\");\nconst NOT_LOCAL_PART = new
RegExp(merge(\"[^]\", ATEXT$$, \"[\\\\]\", '[\\\\]", VCHAR$$), \"g\");\nconst NOT_DOMAIN = new
RegExp(merge(\"[^]\", ATEXT$$, \"[\\\.]\", \"[\\\[]\", DTEXT_NO_OBS$$, \"[\\\]]\"), \"g\");\nconst
NOT_HFNAME = new RegExp(merge(\"[^]\", UNRESERVED$$, SOME_DELIMS$$), \"g\");\nconst
NOT_HFVALUE = NOT_HFNAME; nconst TO = new RegExp(\"^" + TO$ + \"$\"); nconst HFIELDS = new RegExp(\"^" + TO$ + \"$\");
RegExp(\"^\" + HFIELDS2\$ + \"\$'"):\n\nfunction decodeUnreserved(str:string):string {\ntconst decStr = }
handler:URISchemeHandler<MailtoComponents> = {\n\tscheme : \"mailto\",\n\n\tparse : function
(components: URIComponents, options: URIOptions): MailtoComponents {\n\t\tconst mailtoComponents =
components as MailtoComponents;\n\t\tconst to = mailtoComponents.to
 = (mailtoComponents.path ? mailtoComponents.path.split(\",\") : []);\n\t\tmailtoComponents.path =
undefined;\n\t\tif (mailtoComponents.query) \n\t\ttlet unknownHeaders = false\n\tt\tconst
headers: Mailto Headers = \{ \}: \ln t \cdot \text{headers} = \{
\"subject\":\n\t\t\t\t\t\t\
true;\n\t\t\t\t\t\theaders[unescapeComponent(hfield[0], options)]
```

```
to.length; x < xl; ++x) {\n\t\t\const addr = to[x].split(\"@\");\n\n\t\t\taddr[0] =
unescapeComponent(addr[0]);\n\n\t\tif (!options.unicodeSupport) {\n\t\t\t/convert Unicode IDN -> ASCII
options).toLowerCase());\n\t\t\t catch (e) \n\t\tt\t\t\t\tmailtoComponents.error = mailtoComponents.error \|\ \
mailtoComponents;\n\t\,\n\n\tserialize: function (mailtoComponents:MailtoComponents,
options:URIOptions):URIComponents {\n\t\tconst components
= mailtoComponents as URIComponents;\n\t\tconst to = toArray(mailtoComponents.to);\n\t\tif (to) {\n\t\tfor (let x
= 0, xl = to.length; x < xl; ++x) {\n\t\t\tconst toAddr = String(to[x]);\n\t\t\tconst atIdx =
toAddr.lastIndexOf(\"@\");\n\t\t\tconst localPart = (toAddr.slice(0, atIdx)).replace(PCT_ENCODED,
decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_LOCAL_PART, pctEncChar);\n\t\t\t\tlet
domain = toAddr.slice(atIdx + 1); \\ \n/t/t/t/convert IDN via punycode/n/t/t/t/ty {\n/t/t/t/tdomain = (!options.iri ?)} \\
punycode.toASCII(unescapeComponent(domain, options).toLowerCase()): punycode.toUnicode(domain));\n\t\t\t\t\t\t\t
catch (e) {\n\t\t\t\tcomponents.error = components.error || \"Email address's domain name can not be converted to
= mailtoComponents.headers || { };\n\n\t\tif (mailtoComponents.subject) headers[\"subject\"] =
mailtoComponents.subject;\n\t\tif (mailtoComponents.body) headers[\"body\"] =
mailtoComponents.body;\n\n\t\tconst fields = [];\n\t\for (const name in headers) {\n\t\t\tif (headers[name] !==
O[name]) {\n\t\t\t\fields.push(\n\t\t\t\tname.replace(PCT_ENCODED,
decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_HFNAME, pctEncChar) +\n\t\t\t\t\t\t\"=\"
+\n\t\t\t\t\theaders[name].replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED,
toUpperCase).replace(NOT HFVALUE, pctEncChar)\n\t\t\t\);\n\t\t\\\n\t\t\\\n\t\t\f\(fields.length)
{\ntrue {\ntrue components:\nt}\n}\n\
handler; ", "import { URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\nimport http from
\"./http\";\n\const handler:URISchemeHandler = {\n\tscheme : \"https\",\n\tdomainHost : http.domainHost,\n\tparse
: http.parse,\n\tserialize
: http.serialize\n}\n\nexport default handler;","import { URISchemeHandler, URIComponents, URIOptions } from
\"../uri\";\n\nconst handler:URISchemeHandler = {\n\tscheme : \"http\",\n\n\tdomainHost : true,\n\n\tparse : function
(components:URIComponents, options:URIOptions):URIComponents {\n\t\t//report missing host\n\t\tif
(!components.host) {\n\t\t\components.error = components.error || \"HTTP URIs must have a
host.\";\n\t\t}\n\n\t\treturn components;\n\t},\n\n\tserialize : function (components:URIComponents,
options:URIOptions):URIComponents {\n\t\t//normalize the default port\n\t\tif (components.port ===
(String(components.scheme).toLowerCase() !== \"https\" ? 80 : 443) || components.port === \"\")
{\n\t}^{\n\t}^{\n\t}^{\n\t}^{\n\t}^{\n\t}^{\n\t}^{\n\t}^{\n\t}^{\n\t}^{\n\t}}
Form Url Encoded query strings are part of the HTML4+ spec,\n\t\t//and
not the HTTP spec.\n\n\t\treturn components;\n\t\n\;\n\nexport default handler;","/**\n * URI.js\n *\n *
@fileoverview An RFC 3986 compliant, scheme extendable URI parsing/validating/resolving library for
JavaScript.\n * @author Gary Court\n * @see
http://github.com/garycourt/uri-js\n *\n\n/**\n * Copyright 2011 Gary Court. All rights reserved.\n *\n *
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 the software and documentation are those of the\n * authors and should not be interpreted as representing official
 policies, either expressed\n * or implied, of Gary Court.\n */\n\nimport URI PROTOCOL from \"./regexps-
 uri\";\nimport IRI_PROTOCOL from \"./regexps-iri\";\nimport
 punycode from \"punycode\";\nimport { toUpperCase, typeOf, assign } from \"./util\";\n\nexport interface
 URIComponents
 {\n\tscheme?:string;\n\tuserinfo?:string;\n\thost?:string;\n\tport?:number|string;\n\tpath?:string;\n\tquery?:string;\n\tf
 ragment?:string;\n\treference?:string;\n\terror?:string;\n\n\nexport interface URIOptions
 {\n\tscheme?:string;\n\treference?:string;\n\ttolerant?:boolean;\n\tabsolutePath?:boolean;\n\tiri?:boolean;\n\tunicode
Support?:boolean;\n\tdomainHost?:boolean;\n\nnexport interface URISchemeHandler<Components extends
 URIComponents = URIComponents, Options extends URIOptions = URIOptions, ParentComponents extends
 URIComponents = URIComponents> {\n\tscheme:string;\n\tparse(components:ParentComponents,
 options:Options):Components;\n\tserialize(components:Components,
 options:Options):ParentComponents;\n\tunicodeSupport?:boolean;\n\tdomainHost?:boolean;\n\tabsolutePath?:boole
an;\n\nnexport interface URIRegExps {\n\tNOT_SCHEME : RegExp,\n\tNOT_USERINFO
 : RegExp,\n\tNOT HOST: RegExp,\n\tNOT PATH: RegExp,\n\tNOT PATH NOSCHEME:
RegExp,\n\tNOT QUERY: RegExp,\n\tNOT FRAGMENT: RegExp,\n\tESCAPE: RegExp,\n\tUNRESERVED:
RegExp,\n\tOTHER_CHARS: RegExp,\n\tPCT_ENCODED: RegExp,\n\tIPV4ADDRESS:
RegExp,\hline S: RegE
 \{\}\ \n\nexport function pctEncChar(chr:string):string \{\n\ const c = chr.charCodeAt(0);\n\ let e:string;\n\ \n\tif(c < 16)
e = "\%0" + c.toString(16).toUpperCase(); \n\telse if (c < 128) e = "\%" + c.toString(16).toUpperCase(); \n\telse if (c
 < 2048) e = \"%\" + ((c >> 6) | 192).toString(16).toUpperCase() + \"%\" + ((c & 63) |
 128).toString(16).toUpperCase();\n\telse e = \"\%\" + ((c >> 12) | 224).toString(16).toUpperCase() + \"\%\" + (((c >> 12) | 224).toString(16).toUpperCase() + (((c <> 12) | 224).toString(16).toUpperCase() + (((c <> 12) | 224).toString(16).toUpperCase() + (((c <> 12) | 224).toStr
 6) & 63) | 128).toString(16).toUpperCase() + \"%\" + ((c & 63) | 128).toString(16).toUpperCase();\n\rteturn
e;\n\\nexport function pctDecChars(str:string):string {\n\tlet newStr = \"\";\n\tlet i
 = 0;\n\tconst il = str.length;\n\n\twhile (i < il) \n c = parseInt(str.substr(i + 1, 2), 16);\n\n\t (c < 128)
 {\nt} \ The string from CharCode(c); \nt \
>= 6 {\n\t\t\t\const c2 = parseInt(str.substr(i + 4, 2), 16);\n\t\t\t\t\t\end{str} += String.fromCharCode(((c & 31) << 6) |
 ((il-i) \ge 9) \{ \ln t \le 2 = parseInt(str.substr(i+4, 2), 16); \ln t \le 3 = parseInt(str.substr(i+7, 2), 16); \ln t \le
 {\ntrover \{ \ntrover += str.substr(i, 9); \ntrover += str.substr(i, 9); \ntrover += str.substr(i, 3); \ntrover += str.substr
 3;\n\t\t\n\n\treturn newStr;\n\n\nfunction _normalizeComponentEncoding(components:URIComponents,
 protocol:URIRegExps) {\n\tfunction
 decodeUnreserved(str:string):string {\n\t\const decStr = pctDecChars(str);\n\t\treturn}
 (!decStr.match(protocol.UNRESERVED) ? str : decStr);\n\tif (components.scheme) components.scheme =
String(components.scheme).replace(protocol.PCT_ENCODED,
 decodeUnreserved).toLowerCase().replace(protocol.NOT_SCHEME, \"\");\n\tif (components.userinfo!==
```

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undefined) components.userinfo = String(components.userinfo).replace(protocol.PCT ENCODED,
decodeUnreserved).replace(protocol.NOT USERINFO, pctEncChar).replace(protocol.PCT ENCODED,
toUpperCase);\n\tif (components.host !== undefined) components.host =
String(components.host).replace(protocol.PCT_ENCODED,
decodeUnreserved).toLowerCase().replace(protocol.NOT_HOST, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\tif (components.path !== undefined) components.path =
String(components.path).replace(protocol.PCT_ENCODED, decodeUnreserved).replace((components.scheme?
protocol.NOT_PATH: protocol.NOT_PATH_NOSCHEME), pctEncChar).replace(protocol.PCT_ENCODED,
 toUpperCase);\n\tif (components.query !== undefined) components.query =
String(components.query).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_QUERY,
pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);\n\tif (components.fragment !== undefined)
components.fragment = String(components.fragment).replace(protocol.PCT_ENCODED,
decodeUnreserved).replace(protocol.NOT_FRAGMENT, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\n\treturn components;\n\;\n\nfunction _stripLeadingZeros(str:string):string {\n\treturn
str.replace(/^0*(.*)/, \"$1\") || \"0\";\n}\n\nfunction _normalizeIPv4(host:string, protocol:URIRegExps):string
 \{\n \to matches = \notematch (protocol.IPV4ADDRESS) \ || \ []; \n \to [, address] = matches; \n \to [, address] \}
{\ntyreturn address.split(\".\").map(_stripLeadingZeros).join(\".\");\nt} else {\ntytreturn host;\nt}\n}\nfunction
normalizeIPv6(host:string, protocol:URIRegExps):string {\n\tconst matches =
host.match(protocol.IPV6ADDRESS)
|| [];\n\tconst [, address, zone] = matches;\n\n\tif (address) {\n\t\tconst [last, first] =
address.toLowerCase().split('::').reverse();\n\t\tconst firstFields = first ? first.split(\":\").map(stripLeadingZeros) :
[];\n\t\const lastFields = last.split(\":\").map(_stripLeadingZeros);\n\t\const isLastFieldIPv4Address =
protocol.IPV4ADDRESS.test(lastFields[lastFields.length - 1]);\n\t\tconst fieldCount = isLastFieldIPv4Address ? 7:
8;\n\t\tconst lastFieldsStart = lastFields.length - fieldCount;\n\t\tconst fields = Array<string>(fieldCount);\n\n\t\tfor
(isLastFieldIPv4Address) {\n\t\t\frields[fieldCount - 1] = normalizeIPv4(fields[fieldCount - 1],
protocol);\n\t\t\n\n\t\const allZeroFields = fields.reduce<Array<{index:number,length:number}>>((acc, field,
index) => {n\t (!field || field === \"0") {n\t (!field || field === \"0") {n\t (!field || field === \ n\t (!field == \ n\t (!field
 - 1];\n\t\t\tif (lastLongest && lastLongest.index + lastLongest.length === index)
{\nttttttastLongest.length++;\nttttt} else {\ntttttacc.push({ index, length: 1 });\nttttt}\ntttttarn
acc; \h(t), []); \h(t), []);
newHost:string;\n\t\tif (longestZeroFields && longestZeroFields.length > 1) {\n\t\t\const newFirst = fields.slice(0,
longestZeroFields.index);\n\t\t\const newLast = fields.slice(longestZeroFields.index +
{\nt}_{\nt} = fields.join(\:':);/n\tt}_n/n\ttif(zone) {\nt}_{\nt} + zone;/n\tt}_n/n\ttreturn
newHost;\n\t else \n\t newHost;\n\t n\t newHost
/^(?:([^\\/#]+):)?(?:\\\/((?:([^\\/#@]*)@)?(\\[[^\\/?#\]]+\\]|[^\\/#:]*)(?:\\:(\\d*))?))?([^#]*))?(?:#((?:
.|\\n|\\r)*))?/i;\nconst NO_MATCH_IS_UNDEFINED
 options:URIOptions = { }):URIComponents {\n\tconst components:URIComponents = { };\n\tconst protocol =
(options.iri !== false ? IRI_PROTOCOL : URI_PROTOCOL);\n\n\tif (options.reference === \"suffix\") uriString =
(options.scheme? options.scheme + \":\":\") + \"/\" + uriString;\n\n\tconst matches =
uriString.match(URI_PARSE);\n\n\tif (matches) {\n\t\tif (NO_MATCH_IS_UNDEFINED) {\n\t\t/\store each
component \ln t \cdot t \cdot t = matches[1]; \ln t \cdot t \cdot t = matches[3]; \ln t = matches[3];
= matches[4];\n\t\t\components.port = parseInt(matches[5], 10);\n\t\t\components.path = matches[6] ||
improper RegExp matching\n\t\t\t//store
```

```
each component\n\t\t\components.scheme = matches[1] || undefined;\n\t\t\components.userinfo =
 (uriString,indexOf(\"@\") !== -1 ? matches[3] : undefined);\n\t\tcomponents.host = (uriString,indexOf(\"/\") !== -
 1 ? matches[4] : undefined);\n\t\t\components.port = parseInt(matches[5], 10);\n\t\t\components.path = matches[6]
\| '''; \ln t \cdot components.query = (uriString.indexOf(\"?\") !== -1 ? matches[7] :
undefined);\n\t\t\components.fragment = (uriString.indexOf(\"\")!== -1 ? matches[8] : undefined);\n\n\t\t\t//fix
port number \ | \ (isNaN(components.port)) \ \{ \ | \ (isNaN(components.port)) \ | \ (isNaN(
 (uriString.match(/\/\//(?:./\n)*\:(?:\//\\?|\\#|$)/)? matches[4]: undefined); \\ \n't\t\} \n't\t\} \n't\tif (components.host)
 {\ntering} {\ntering} IP hosts \ntering IP hos
 protocol);\n\t\t}\n\n\t\t//determine reference type\n\t\tif (components.scheme === undefined &&
components.userinfo === undefined && components.host
 === undefined && components.port === undefined &&!components.path && components.query === undefined)
 {\n\t\tcomponents.reference = \"same-document\";\n\t\t} else if (components.scheme === undefined)
 {\n\t\tcomponents.reference = \"relative\";\n\t\t} else if (components.fragment === undefined)
 {\n\t\t\components.reference = \uri\:\n\t\t\end{minipage} else {\n\t\t\components.reference = \uri\:\n\t\t\n\n\t\t/\check} }
 for reference errors\n\t\tif (options.reference && options.reference !== \"suffix\" && options.reference !==
components.reference) {\n\t\t\components.error = components.error || \"URI is not a \" + options.reference + \"
components.scheme || \"\").toLowerCase()];\n\n\t\t//check if scheme can't handle IRIs\n\t\tif
 (!options.unicodeSupport && (!schemeHandler || !schemeHandler.unicodeSupport)) {\n\t\t/if host component is a
 domain name\n\t\tif (components.host &&
 (options.domainHost || (schemeHandler && schemeHandler.domainHost))) {\n\t\t\t\t/\convert Unicode IDN ->
 ASCII IDN\n\t\t\t\t {\n\t\t\t
 punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase());\n\t\t\t\t\t}
catch (e) {\n\t\t\t\tcomponents.error = components.error || \"Host's domain name can not be converted to ASCII via
URI PROTOCOL);\n\t\t\ else {\n\t\t\r/normalize encodings\n\t\t\ normalizeComponentEncoding(components,
protocol);\n\t\t}\n\n\t\t//perform scheme specific parsing\n\t\tif (schemeHandler && schemeHandler.parse)
 {\n\t\tschemeHandler.parse(components, options);\n\t\t}\n\t} else {\n\t\tcomponents.error = components.error ||
\"URI can not be parsed.\";\n\t}\n\ntreturn components;\n};\n\nfunction
 recomposeAuthority(components:URIComponents, options:URIOptions):string|undefined {\n\tconst protocol =
(options.iri
 !== false ? IRI_PROTOCOL : URI_PROTOCOL); \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tconst uriTokens: Array < string > = []; \\ \n\tcons uriTokens: Ar
 (components.userinfo !== undefined)
 {\n\t\turiTokens.push(components.userinfo);\n\t\turiTokens.push(\"@\");\n\t}\n\n\tif (components.host !==
 undefined) {\n\t\t//normalize IP hosts, add brackets and escape zone separator for
IPv6\n\t\turiTokens.push(_normalizeIPv6(_normalizeIPv4(String(components.host), protocol),
 protocol).replace(protocol.IPV6ADDRESS, (_, $1, $2) => \"[\" + $1 + ($2 ? \"\25\" + $2 : \"\") + \"]\")); \n\t\frac{1}{n}\tiff
 (typeof components.port === \"number\")
 {\n\t\turiTokens.push(\":\");\n\t\turiTokens.push(components.port.toString(10));\n\t}\n\n\treturn uriTokens.length?
 \label{eq:linear_constraint} $$ /^{\...(\)}/; \operatorname{RDS4} = /^{...}.?^{,\,n} = P^{,\,n} =
removeDotSegments(input:string):string \{\n\tconst output:Array < string > = \prod;\n\twhile
 (input.length) \\ \ln t (input.match(RDS1)) \\ \ln t (input.match(RDS1)) \\ \ln t (input.length) \\ \ln
 (input.match(RDS2)) \{ \n \t \t = input.replace(RDS2, \''\'); \n \t \} else if (input.match(RDS3)) \{ \n \t \t \ | \ \ \ \ \} \}
input.replace(RDS3, \'')\) \htt\toutput.pop(); \htt} else if (input === \''.\'' || input === \''.\'') { \htt\tinput == \''.\'' || input === \''.\'' || inp
\"\";\n\t\t\ else \{\n\t\t\const\ im = input.match(RDS5);\n\t\t\tif\ (im)\ \{\n\t\t\t\const\ s = im[0];\n\t\t\t\t)
input.slice(s.length);\n\t\t\toutput.push(s);\n\t\t\t} else {\n\t\t\t\tthrow new Error(\"Unexpected dot segment
```

```
serialize(components:URIComponents, options:URIOptions = { }):string {\n\tconst protocol = (options.iri?
schemeHandler = SCHEMES[(options.scheme || components.scheme || \"\").toLowerCase()]; \n\n\t/perform scheme
specific serialization\n\tif
 (schemeHandler && schemeHandler.serialize) schemeHandler.serialize(components, options);\n\n\tif
(components.host) {\n\t\t//if host component is an IPv6 address\n\t\tif
(protocol.IPV6ADDRESS.test(components.host)) {\n\t\t/TODO: normalize IPv6 address as per RFC
5952\n\t\t}\n\n\t\t//if host component is a domain name\n\t\telse if (options.domainHost || (schemeHandler &&
scheme Handler.domain Host)) \{ \langle h/t/t/convert\ IDN\ via\ punycode/h/t/ttry\ \{ \langle h/t/t/components.host = (!options.iri
? punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase()):
punycode.toUnicode(components.host));\n\t\t\t\ catch (e) {\n\t\t\tcomponents.error = components.error || \"Host's
domain name can not be converted to \" + (!options.iri ? \"ASCII\" : \"Unicode\") + \" via punycode: \" +
e;\n\t\t\\n\t\\n\t/\normalize encoding\n\t normalizeComponentEncoding(components, protocol);\n\n\tif
(options.reference !== \"suffix\" && components.scheme)
{\n\t\turiTokens.push(components.scheme);\n\t\turiTokens.push(\":\");\n\t}\n\t\const
 authority = recomposeAuthority(components, options);\n\tif (authority !== undefined) {\n\t\tif (options.reference
!==\"suffix\") {\n\t\turiTokens.push(\"/\");\n\t\t\n\n\t\turiTokens.push(authority);\n\n\t\tif (components.path &&
undefined) \{\nt \le components.path;\n\nt (!options.absolutePath && (!schemeHandler ||
!schemeHandler.absolutePath)) {\n\t\ts = removeDotSegments(s);\n\t\t}\n\n\t\tif (authority === undefined)
\'''/n\t \ \ln Tokens.push(s); \n\t \ \ln (components.query !== undefined)
{\n\t\turiTokens.push(\"?\");\n\t\turiTokens.push(components.query);\n\t}\n\n\tif (components.fragment !==
undefined) {\n\t\turiTokens.push(\"\"\");\n\t\turiTokens.push(components.fragment);\n\t\n\n\treturn
uriTokens.join(\"\"); //merge tokens into a string\n\;\n\nexport function resolveComponents(base:URIComponents,
relative:URIComponents, options:URIOptions = { }, skipNormalization?:boolean):URIComponents {\n\tconst
target:URIComponents = \{ \}; \n\n\tif (!skipNormalization) \{ \n\t\tbase = parse(serialize(base, options), options) \}
//normalize base components\n\t\trelative = parse(serialize(relative, options), options); //normalize relative
relative.scheme;\n\t\t//target.authority = relative.authority;\n\t\target.userinfo = relative.userinfo;\n\t\target.host =
relative.host;\n\t\ttarget.port = relative.port;\n\t\ttarget.path = removeDotSegments(relative.path ||
\"\");\n\t\ttarget.query = relative.query;\n\t\} else {\n\t\tif (relative.userinfo !== undefined || relative.host !==
undefined || relative.port !== undefined) \{\nt \in \mathbb{Z} \mid (x,t) \in \mathbb{Z} \mid (x,t) \in \mathbb{Z} \}
= relative.userinfo;\n\t\t\ttarget.host = relative.host;\n\t\t\ttarget.port = relative.port;\n\t\t\ttarget.path =
removeDotSegments(relative.path || \""); \n\t\ttarget.query = relative.query; \n\t\t} else {\n\t\t} (!relative.path)
{\t t}_t = base.path; \t t (relative.query !== undefined) {\t t}_t t (relative.query == undefined) {\t t}_t t (relati
relative.query; \\ \\ | h(t/t/t) else { \\ h(t/t/t) target.query = base.query; \\ h(t/t/t) { \\ h(t/t/t) else { \\ h(t/t/t) tiff } else { \\ h(t/t) tiff } else { \\
(relative.path.charAt(0) === \''/\') \{ \n\t\t/t\t rget.path = removeDotSegments(relative.path); \n\t/t\t\} else
{\n\t\t\t\t\tif ((base.userinfo !== undefined || base.host !== undefined || base.port !== undefined) && !base.path)
{\n\t\t\t\t\t\t} else if (!base.path) {\n\t\t\t\t\t}
= relative.query;\n\t\t\t\t/\target.authority = base.authority;\n\t\t\target.userinfo =
base.userinfo;\n\t\t\ttarget.host = base.host;\n\t\t\ttarget.port = base.port;\n\t\t}\n\t\ttarget.scheme =
resolve(baseURI:string, relativeURI:string, options?:URIOptions):string {\n\tconst schemelessOptions = assign({
scheme: 'null' }, options);\n\treturn serialize(resolveComponents(parse(baseURI, schemelessOptions),
parse(relativeURI, schemelessOptions), schemelessOptions, true), schemelessOptions);\n\;\n\nexport function
```

```
normalize(uri:string, options?:URIOptions):string;\nexport function normalize(uri:URIComponents,
options?:URIOptions):URIComponents;\nexport function normalize(uri:any, options?:URIOptions):any {\n\tif
(typeof uri === \"string\") {\n\t\uri = serialize(parse(uri, options), options);\n\t} else if (typeOf(uri) === \"object\")
 {\ntroversex} {\ntroversex} = parse(serialize(<URIComponents>uri, options), options); \\nt} \\ntroversex uri; \\n\ntroversex uri; \\n\ntrovex uri; \\n\ntroversex uri; \\n\ntroversex uri; \\n\ntroversex uri; \\
equal(uriA:string, uriB:string, options?: URIOptions):boolean;\nexport function equal(uriA:URIComponents,
uriB:URIComponents, options?:URIOptions):boolean;\nexport function equal(uriA:any, uriB:any,
options?:URIOptions):boolean {\n\tif (typeof uriA === \"string\") {\n\t\uriA = serialize(parse(uriA, options),
options);\n\t} else if (typeOf(uriA) === \"object\") {\n\t\turiA = serialize(<URIComponents>uriA,
options); \ln t \ln t (typeof uriB === \"string\") {\n\t\turiB = serialize(parse(uriB, options), options); \n\t\} else if
(typeOf(uriB) === \"object\") {\n\t\turiB = serialize(<URIComponents>uriB, options);\n\t}\n\n\treturn uriA ===
uriB;\n};\n\nexport function escapeComponent(str:string, options?:URIOptions):string {\n\treturn str &&
str.toString().replace((!options || !options.iri ? URI_PROTOCOL.ESCAPE : IRI_PROTOCOL.ESCAPE),
pctEncChar);\n};\n\nexport function unescapeComponent(str:string,
 options?:URIOptions):string {\n\treturn str && str.toString().replace((!options || !options.iri ?
URI_PROTOCOL.PCT_ENCODED: IRI_PROTOCOL.PCT_ENCODED), pctDecChars);\n\;\n","'use
strict';\n\n/** Highest positive signed 32-bit float value *\nconst maxInt = 2147483647; // aka. 0x7FFFFFFF or
2^31-1\n\n/** Bootstring parameters *\nconst base = 36;\nconst tMin = 1;\nconst tMax = 26;\nconst skew =
38;\nconst damp = 700;\nconst initialBias = 72;\nconst initialN = 128; // 0x80\nconst delimiter = '-'; // \xyperb\n\n/**
Regular expressions */\nconst regexPunycode = /\^xn--/;\nconst regexNonASCII = /[\\\0-\\x7E]/; // non-ASCII
chars\nconst regexSeparators = /[\x2E\u3002\uFF0E\uFF61]/g; // RFC 3490 separators\n\n/** Error messages
*/nconst errors = {\n\t'overflow': 'Overflow: input needs wider integers to process',\n\t'not-basic': 'Illegal input >=
0x80 (not a basic code point)',\n\t'invalid-input': 'Invalid input\n\;\n\n/** Convenience shortcuts *\nconst
baseMinusTMin
 = base - tMin;\nconst floor = Math.floor;\nconst stringFromCharCode = String.fromCharCode;\n\n/*------
-----*/\n\n/**\n * A generic error utility function.\n * @private\n *
@param {String} type The error type.\n * @returns {Error} Throws a `RangeError` with the applicable error
message.\n ^{n} in throw new RangeError(errors[type]):\n\\\\n\\^**\n * A generic `Array#map`
utility function.\n * @private\n * @param {Array} array The array to iterate over.\n * @param {Function} callback
The function that gets called for every array\n * item.\n * @returns {Array} A new array of values returned by the
callback function.\n *\nfunction map(array, fn) {\n\tconst result = \[];\n\tle length = array.length;\n\twhile (length--)
{\ntering \{ \ntering \} \ntering
work with domain name strings or email\n * addresses.\n * @private\n * @param
 {String} domain The domain name or email address.\n * @param {Function} callback The function that gets called
for every\n * character.\n * @returns { Array} A new string of characters returned by the callback\n * function.\n
*/\nfunction mapDomain(string, fn) {\n\tconst parts = string.split('@');\n\tlet result = ";\n\tif (parts.length > 1)
{\n\t\t// In email addresses, only the domain name should be punycoded. Leave\n\t\t// the local part (i.e. everything
up to `@`) intact.\n\t\tresult = parts[0] + '@';\n\t\tstring = parts[1];\n\t\\n\t// Avoid `split(regex)` for IE8
compatibility. See #17.\n\tstring = string.replace(regexSeparators, '\x2E');\n\tconst labels = string.split('.');\n\tconst
encoded = map(labels, fn).join('.');\n\treturn result + encoded;\n\n\n/**\n * Creates an array containing the numeric
code points of each Unicode\n * character in the string. While JavaScript uses UCS-2 internally,\n * this function
will convert a pair of surrogate halves (each of which\n * UCS-2 exposes
 as separate characters) into a single code point,\n * matching UTF-16.\n * @see `punycode.ucs2.encode`\n * @see
<a href="mailto:/mathiasbynens.be/notes/javascript-encoding>\n * @memberOf punycode.ucs2\n * @name decode\n *
@param {String} string The Unicode input string (UCS-2).\n * @returns {Array} The new array of code points.\n
*\nfunction ucs2decode(string) {\n\tconst output = [];\n\tlet counter = 0;\n\tconst length = string.length;\n\twhile
(counter < length) {\n\t\const value = string.charCodeAt(counter++);\n\t\tif (value >= 0xD800 && value <=
0xDBFF \&\& counter < length) \{ \n\t\t\t// It's a high surrogate, and there is a next character.\n\t\t\tconst extra =
string.charCodeAt(counter++);\n\t\ ((extra & 0xFC00) == 0xDC00) { // Low
```

```
surrogate.\n\t\t\toutput.push(((value & 0x3FF) << 10) + (extra & 0x3FF) + 0x10000);\n\t\t\t\ else \\n\t\t\t\t/\ It's an
unmatched surrogate; only append this code unit, in case the \n\t\t\t\t/\/ next code unit is the high surrogate of a
surrogate pair.\n\t\t\toutput.push(value);\n\t\t\tcounter--;\n\t\t\\\n\t\t\
 numeric code points.\n * @see `punycode.ucs2.decode`\n * @memberOf punycode.ucs2\n * @name encode\n *
@param {Array} codePoints The array of numeric code points.\n * @returns {String} The new Unicode string
(UCS-2).\n */\nconst ucs 2 encode = array => String.fromCodePoint(...array); \n\n/**\n * Converts a basic code point
into a digit/integer.\n * @see `digitToBasic()`\n * @private\n * @param {Number} codePoint The basic numeric
code point value.\n * @returns {Number} The numeric value of a basic code point (for use in\n * representing
integers) in the range '0' to 'base - 1', or 'base' if\n * the code point does not represent a value.\n *\nconst
(codePoint - 0x41 < 0x1A) {\n\t\treturn codePoint - 0x41;\n\t}\n\tif
 (codePoint - 0x61 < 0x1A) {\n\treturn codePoint - 0x61;\n\treturn base;\n\;\n\n/**\n * Converts a
digit/integer into a basic code point.\n * @see `basicToDigit()`\n * @private\n * @param {Number} digit The
numeric value of a basic code point.\n * @returns {Number} The basic code point whose value (when used for\n *
representing integers) is 'digit', which needs to be in the range\n * '0' to 'base - 1'. If 'flag' is non-zero, the
uppercase form is\n * used; else, the lowercase form is used. The behavior is undefined\n * if `flag` is non-zero and
`digit` has no uppercase form.\n *\nconst digitToBasic = function(digit, flag) {\n\t/ 0..25 map to ASCII a..z or
A..Z \ln t / 26..35 map to ASCII 0..9 \ln t = 22 + 75 * (digit < 26) - ((flag! = 0) << 5); \n\; \n\/n/** \n * Bias
adaptation function as per section 3.4 of RFC 3492.\n * https://tools.ietf.org/html/rfc3492#section-3.4\n *
@private\n *\nnconst adapt = function(delta, numPoints, firstTime) {\ntlet k = 0;\ntdelta
 = firstTime ? floor(delta / damp) : delta >> 1;\n\tdelta += floor(delta / numPoints);\n\tfor (/* no initialization */;
delta > baseMinusTMin * tMax >> 1; k += base) \{ \n t delta = floor(delta / baseMinusTMin); \n t \n treturn floor(k delta > baseMinusTMin) \} \} \}
+ (baseMinusTMin + 1) * delta / (delta + skew));\n;\n * Converts a Punycode string of ASCII-only symbols
to a string of Unicode\n * symbols.\n * @memberOf punycode\n * @param {String} input The Punycode string of
ASCII-only symbols.\n * @returns {String} The resulting string of Unicode symbols.\n *\/nconst decode =
function(input) \{\n\t/\ Don't use UCS-2.\n\tconst output = \prod;\n\tconst inputLength = input.length;\n\tlet i = 0;\n\tlet n
= initialN;\n\tlet bias = initialBias;\n\n\t// Handle the basic code points: let `basic` be the number of input code\n\t//
points before the last delimiter, or '0' if there is none, then copy\n\t// the first basic code points to the output.\n\n\tlet
basic = input.lastIndexOf(delimiter); \n \in \ (basic < 0) {\n \in \
= 0; \ln t \ln t = 0; j < basic; ++j) {\ln t' i it's not a basic code point \ln t' i input.charCodeAt(j) >= 0x80)
{\ntropy}(n) = {\ntropy}(n) + {\nt
the last delimiter if any basic code\n\t// points were copied; start at the beginning otherwise.\n\n\tfor (let index =
basic > 0? basic + 1:0; index < inputLength; /* no final expression */) \{\n\n\t\t//\ index\ is the index of the next
character to be consumed.\n\t\t// Decode a generalized variable-length integer into `delta`,\n\t\t// which gets added to
'i'. The overflow checking is easier\n\t\t// if we increase 'i' as we go, then subtract off its starting\n\t\t// value at the
end to obtain `delta`.\n\t\tlet oldi = i;\n\t\tfor (let w = 1, k = base; /* no condition */; k += base) {\n\n\t\t\tif (index >=
inputLength) {\n\t\t\terror('invalid-input');\n\t\t\)\n\n\t\t\const digit =
basicToDigit(input.charCodeAt(index++));\n\n\t\tif
 (digit >= base \parallel digit > floor((maxInt - i) / w)) \{ \n \t \t \t \error('overflow'); \n \t \t \t \t \+ = digit * w; \n \t \t \t \error('overflow'); \n \t \t \t \+ = digit * w; \n \t \t \t \error('overflow'); \n \t \t \t \+ = digit * w; \n \t \t \t \+ = digit * w; \n \t \t \t \+ = digit * w; \n \t \t \t \+ = digit * w; \n \t \t \t \+ = digit * w; \n \t \t \+ = digit * w; \n \t \t \+ = digit * w; \n \t \+ = digit *
supposed to wrap around from `out` to `0',\n\t\t// incrementing `n` each time, so we'll fix that now:\n\t\tif (floor(i /
out) > maxInt - n) {\n\t}/{\n\n\t}/{\n\n\t}/{\n\n
position `i` of the output.\n\t\
String.fromCodePoint(...output);\n\;\n\n/**\n * Converts a string of Unicode symbols (e.g. a domain name label) to
a\n * Punycode string of ASCII-only symbols.\n * @memberOf punycode\n
```

```
* @param {String} input The string of Unicode symbols.\n * @returns {String} The resulting Punycode string of
ASCII-only symbols.\n */\nconst encode = function(input) \{\n\t output = []; \n\t // Convert the input in UCS-2 \}
to an array of Unicode code points.\n\tinput = ucs2decode(input);\n\n\t// Cache the length.\n\tlet inputLength =
input.length;\n\/\n\t// Initialize the state.\n\tlet n = initialN;\n\tlet delta = 0;\n\tlet bias = initialBias;\n\/\n\t// Handle the
basic code points.\n\tfor (const currentValue of input) {\n\t\tif (currentValue < 0x80)
{\ntrover \{ \ntrover \} \ntrover
handledCPCount = basicLength;\n\n\t// handledCPCount is the number of code points that have been handled;\n\t//
`basicLength` is the number of basic code points.\n\n\t// Finish the basic string with a delimiter unless it's
empty.\n\tif (basicLength) {\n\t\toutput.push(delimiter);\n\t}\n\n\t// Main encoding loop:\n\twhile
 (handledCPCount < inputLength) {\n\n\t\t// All non-basic code points < n have been handled already. Find the
next\n\t\t// larger one:\n\t\tlet m = maxInt;\n\t\tfor (const currentValue of input) {\n\t\tif (currentValue >= n &&
<n,i>state to <m,0>,\n\t\t// but guard against overflow.\n\t\tconst handledCPCountPlusOne = handledCPCount +
1;\ln t = n > floor((maxInt - delta) / handledCPCountPlusOne)) {\n t t = n > floor((maxInt - delta) / handledCPCountPlusOne))} {\n t t = n > floor((maxInt - delta) / handledCPCountPlusOne))} {\n t t = n > floor((maxInt - delta) / handledCPCountPlusOne))} {\n t t = n > floor((maxInt - delta) / handledCPCountPlusOne))} {\n t t = n > floor((maxInt - delta) / handledCPCountPlusOne))} {\n t t = n > floor((maxInt - delta) / handledCPCountPlusOne))} {\n t t = n > floor((maxInt - delta) / handledCPCountPlusOne))} {\n t t = n > floor((maxInt - delta) / handledCPCountPlusOne))} {\n t t = n > floor((maxInt - delta) / handledCPCountPlusOne))} {\n t t = n > floor((maxInt - delta) / handledCPCountPlusOne))} {\n t t = n > floor((maxInt - delta) / handledCPCountPlusOne))} {\n t t = n > floor((maxInt - delta) / handledCPCountPlusOne))} {\n t t = n > floor((maxInt - delta) / handledCPCountPlusOne))} {\n t = n > floor((maxInt - delta) / handledCPCountPlusOne))} {\n t = n > floor((maxInt - delta) / handledCPCountPlusOne))} {\n t = n > floor((maxInt - delta) / handledCPCountPlusOne))} {\n t = n > floor((maxInt - delta) / handledCPCountPlusOne))} {\n t = n > floor((maxInt - delta) / handledCPCountPlusOne))} {\n t = n > floor((maxInt - delta) / handledCPCountPlusOne))} {\n t = n > floor((maxInt - delta) / handledCPCountPlusOne))} {\n t = n > floor((maxInt - delta) / handledCPCountPlusOne))} {\n t = n > floor((maxInt - delta) / handledCPCountPlusOne))} {\n t = n > floor((maxInt - delta) / handledCPCountPlusOne))} {\n t = n > floor((maxInt - delta) / handledCPCountPlusOne))} {\n t = n > floor((maxInt - delta) / handledCPCountPlusOne))} {\n t = n > floor((maxInt - delta) / handledCPCountPlusOne))} {\n t = n > floor((maxInt - delta) / handledCPCountPlusOne)} {\n t = n > floor((maxInt - delta) / handledCPCountPlusOne)} {\n t = n > floor((maxInt - delta) / handledCPCountPlusOne)} {\n t = n > floor((maxInt - delta) / handledCPCountPlusOne)} {\n t = n > floor((maxInt - delta) / handledCPCountPlusOne)} {\n t = n > floor((maxInt - delta) / han
&& ++delta > maxInt) {\n\t\t\terror('overflow');\n\t\t\t| \(\n\t\t\t) (currentValue == n) {\n\t\t\t\t// Represent delta as a
generalized variable-length integer.\n\t\t\t\t\text{tlet } q = delta;\n\t\t\t\text{tfor (let } k = base; /* no condition */; k += base)
{\n\t\t\t} that t = k \le bias ? tMin : (k >= bias + tMax)
 baseMinusT = base - t; \\ \n't/t/t/t \\ \number \\ push(\\ \n't/t/t/t \\ \n't/t/t/t \\ \n't/t/t/t \\ \n't/t/t/t \\ \n't/t/t/t \\ \n't/t/t \\ \n't/t \\ \n't/t/t \\ \n't/t \\ \n't
baseMinusT, 0))\n\t\t\t\t\t,\n\t\t\t\t
handledCPCountPlusOne, handledCPCount == basicLength);\n\t\t\tdelta =
0:\ln t + \text{lead}(PCount:\ln t) \ln t + \text{lead}(PCount:\ln t) + \text{lead}(PCount:\ln t) + \text{lead}(PCount:\ln
Converts a Punycode string representing a domain name or an email address\n * to Unicode. Only the Punycoded
parts of the input will be converted, i.e.\n * it doesn't matter if you call it on a string that has already been\n *
converted to Unicode.\n * @memberOf punycode\n * @param {String} input The Punycoded domain name or
email address to\n * convert to Unicode.\n * @returns {String} The
 Unicode representation of the given Punycode\n * string.\n *\nconst toUnicode = function(input) {\n\treturn}
mapDomain(input, function(string) {\n\t\treturn regexPunycode.test(string)\n\t\t\t?
decode(string.slice(4).toLowerCase())\n\t\t\t: string;\n\t});\n\n\/**\n * Converts a Unicode string representing a
domain name or an email address to\n * Punycode. Only the non-ASCII parts of the domain name will be
converted,\n * i.e. it doesn't matter if you call it with a domain that's already in\n * ASCII.\n * @memberOf
punycode\n * @param {String} input The domain name or email address to convert, as a\n * Unicode string.\n *
@returns {String} The Punycode representation of the given domain name or\n * email address.\n */\nconst
toASCII = function(input) {\n\treturn mapDomain(input, function(string) {\n\t\treturn
-----*\nn\n/**
 Define the public API *\nconst punycode = {\n\t/**\n\t * A string representing the current Punycode.js version
number.\n\t * @memberOf punycode\n\t * @type String\n\t *\wedgen\t'version': '2.1.0',\n\t/**\n\t * An object of methods
to convert from JavaScript's internal character\n\t * representation (UCS-2) to Unicode code points, and back.\n\t *
@see \n\t * @memberOf punycode\n\t * @type Object\n\t
*/n\t'ucs2': {\n\t\t'decode': ucs2decode,\n\t\t'encode': ucs2encode\n\t},\n\t'decode': decode,\n\t'encode':
} from \"./uri\";\nimport { buildExps } from \"./regexps-uri\";\n\nexport default buildExps(true);\n","import {
URIRegExps } from \"./uri\";\nimport { merge, subexp } from \"./util\";\n\nexport function
```

encode,\n\t'toASCII': toASCII,\n\t'toUnicode': toUnicode\n};\n\nexport default punycode;\n","import { URIRegExps  $buildExps(isIRI:boolean): URIRegExps {\n\tconst\n\t\tALPHA$$ = "[A-Za-z]\",\n\t\tCR$ = }$ 

```
= \| \| \|x^2\|, \| t \in \mathbb{S} = merge(DIGIT\$\$, \| A-Fa-f\|^*), \ // case-insensitive \| t \in \mathbb{S} = \mathbb{S} = \mathbb{S}
\lceil \| xOA \|^n, h(t)SP$ = \| \| \| xOA \|^n, h(t)SP$ = \| \| \| xOA \|^n, h(t)SP$ = SUBCODED$ = SUBCEP$ =
HEXDIG$$ + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$) + \"|\" + subexp(\"%[89A-Fa-f]\" + HEXDIG$$ +
\""+HEXDIG$$ + HEXDIG$$) + \""+ subexp(\"%\" + HEXDIG$$ + HEXDIG$$)),
//expanded\n\t\tGEN_DELIMS$$ = \"[\\\\:\\\/\\\\?\\\\#\\\\[\\\\@]\\",\n\t\tSUB_DELIMS$$ =
SUB DELIMS$$),\n\t\UCSCHAR$$ = isIRI ?\"[\\\xA0-\\\\u200D\\\\u2010-\\\\u2029\\\\u202F-
merge(ALPHA$$, DIGIT$$, \"[\\\+\\\-\\\\.]\")
 + \"*\"),\n\t\tUSERINFO$ = subexp(subexp(PCT_ENCODED$ + \"\\" + merge(UNRESERVED$$,
SUB DELIMS$$, \"[\\\\:]\") + \"*\"),\n\t\tDEC OCTET$ = subexp(subexp("25[0-5]\") + \"\" + subexp(\"2[0-4]\")
+ DIGIT$$) + \"\\" + subexp(\"1\" + DIGIT$$ + DIGIT$$) + \"\\" + subexp(\"[1-9]\" + DIGIT$$) + \"\\" +
DIGIT\$\$), \\ | \text{DIGIT}\$\$), \\ | \text{DIGIT}\$\$), \\ | \text{DIGIT}\$\$) + \\ | \text{DIGIT}\$\} + \\ | \text{DIGIT}\$ + \\ | \text{DIGIT
''' + subexp(\"1\" + DIGIT$$ + DIGIT$$) + \"|\" + subexp(\"0?[1-9]\" + DIGIT$$) + \"|0?0?\" + DIGIT$$),
//relaxed parsing rules\n\t\tIPV4ADDRESS$ = subexp(DEC_OCTET_RELAXED$ + \"\\\\." +
DEC OCTET RELAXED$ + \"\\\\\" + DEC OCTET RELAXED$ + \"\\\\\\" +
DEC_OCTET_RELAXED\$), \\ | h(t) = subexp(HEXDIG\$\$ + (1,4)), \\ | h(t) = subexp(subexp(H16\$ + (1,4))), \\ | h(t) = subexp(
\"\|\cdot\| + H16\$ + \|\cdot\| + IPV4ADDRESS\$), \n\t\tIPV6ADDRESS1\$ = subexp(
 subexp(H16\$ + \''\') + \''\{6\}\'' + LS32\$), //
 6(h16 \":\") ls32\n\t\tIPV6ADDRESS2$
 \"\\\:\\" + subexp(H16\$ + \\\\\:\\") + \\\\\\5\\\" + LS32\$), //
 = subexp(
\"::\" 5(h16)":\") ls32\n\t\t IPV6ADDRESS3$ = subexp(subex
 H16$) + \"?\\\\:\\\" +
 subexp(H16\$ + \''\') + \''\{4\}\'' + LS32\$), //[
 h16] \"::\" 4(h16 \":\") ls32\n\t\tIPV6ADDRESS4$ =
subexp(subexp(H16\$ + \''\') + \''\{0,1\}\'' + H16\$) + \''?\''\'' + subexp(H16\$ + \'''\') + \''\{3\}\'' + H16\$) + \'''?\''\'' + Subexp(H16\$ + \'''\'') + \'''\{3\}\''' + H16\$) + \'''?\''\'' + Subexp(H16\$ + \'''\'') + \'''\{3\}\''' + H16\$) + \'''?\''\'' + Subexp(H16\$ + \'''\'') + \'''\{3\}\''' + H16\$) + \'''?\''\'' + Subexp(H16\$ + \'''\'') + \'''\{3\}\''' + H16\$) + \'''?\''' + Subexp(H16\$ + \'''\'') + \'''' + Subexp(H16\$ + \'''\'') + \'''' + Subexp(H16\$ + \'''\'') + \'''' + Subexp(H16\$ + \'''\'') + \''''' + Subexp(H16\$ + \'''\'') + \'''' + Subexp(H16\$ + \'''\'') + Subexp(H16\$ +
LS32$), //[*1(h16 \":\") h16] \"::\" 3(h16 \":\") ls32\n\t\tIPV6ADDRESS5$ = subexp(subexp(H16$ +
\"?\\\\:\\\:\"+
 H16$ + \"\\\\:\"
 + LS32\$), //[*3(h16 \":\") h16] \"::\" h16 \":\"
1s32\n\t\t IPV6ADDRESS7$ = subexp(subexp(subexp(H16$)
 + \"\\\:\") + \"{0,4}\" + H16$) + \"?\\\:\\\:\"
 + LS32$), //[*4(h16 \":\") h16] \"::\"
h16\n\t\tIPV6ADDRESS9$ = subexp(subexp(subexp(H16$ +
 + H16$), //[*5(h16 \":\") h16] \"::\"
"" + "{0,6}\" + H16$) + \"?\\\\:\"
), //[*6(h16 \":\") h16]
\"::\"\n\t\tIPV6ADDRESS$ = subexp([IPV6ADDRESS1$, IPV6ADDRESS2$, IPV6ADDRESS3$,
IPV6ADDRESS4$, IPV6ADDRESS5$, IPV6ADDRESS6$, IPV6ADDRESS7$, IPV6ADDRESS8$,
\"+\"), //RFC 6874\n\t\tIPV6ADDRZ$ = subexp(IPV6ADDRESS$ + \"\\\\%25\" + ZONEID$), //RFC
 6874 \ln t \ln V6ADDRZ_RELAXED = subexp(IPV6ADDRESS + subexp()") \ln 25 \ln (?!)" + HEXDIG + the subexp()" + the sub
(2)) + ZONEID$), //RFC 6874, with relaxed
 parsing rules\n\t\tIPVFUTURE$ = subexp(\"[vV]\" + HEXDIG$$ + \"+\\\.\" + merge(UNRESERVED$$,
SUB_DELIMS\$\$, "[\]") + "+\"), n\ttIP_LITERAL\$ = subexp(\]" "\\\" + subexp(IPV6ADDRZ_RELAXED\$ + 1), n\ttIP_LITERAL = subexp(\]" "\\\" + subexp(\]" "\\" + subexp(\]" "\" + s
\"\\" + IPV6ADDRESS$ + \"\\" + IPVFUTURE$) + \"\\\]\", //RFC 6874\n\t\tREG_NAME$ =
 subexp(IP_LITERAL$ + \"|\" + IPV4ADDRESS$ + \"(?!\" + REG_NAME$ + \")\" + \"|\" +
 \"@\") +\"?\" + HOST$ + subexp(\"\\\\:\" + PORT$) + \"?\"),\n\t\tPCHAR$ = subexp(PCT_ENCODED$ + \\"\" +
 merge(UNRESERVED\$\$, SUB_DELIMS\$\$, "[[\\\:@]\"]), \nt\tSEGMENT\$ = subexp(PCHAR\$ + PCHAR\$ + P
```

```
'''*'),\n\t\tSEGMENT_NZ = subexp(PCHAR$ + \"+\"),\n\t\tSEGMENT_NZ_NC$ =
subexp(subexp(PCT_ENCODED$ + \"|\" + merge(UNRESERVED$$, SUB_DELIMS$$, \"[\\\\@]\")) +
''+''),\n\t\tPATH_ABEMPTY$ = subexp(subexp(\"\\\\\" + SEGMENT$) + \"*\"),\n\t\tPATH_ABSOLUTE$
 = subexp(\''\'' + subexp(SEGMENT_NZ\$ + PATH_ABEMPTY\$) + \'''?\''),
//simplified\n\t\tPATH NOSCHEME$ = subexp(SEGMENT NZ NC$ + PATH ABEMPTY$),
//simplified\n\t\tPATH_ROOTLESS$ = subexp(SEGMENT_NZ$ + PATH_ABEMPTY$),
//simplified \ln t PATH EMPTY = \"(?!' + PCHAR + ')', \ln t PATH = subexp(PATH ABEMPTY + \"|' + PCHAR + ")' + PCHAR + ")'' + PCHAR + ")''' + PCHAR + ")'' + PCHAR + ")''' + PCHAR + ")'' + PCHAR + ")''' + PCHAR + ")'' + PCHAR + ")''' + PCHAR + ")'' + PCHAR + ")''' + PCHAR + ")'' + PCHAR + ")'''
PATH_ABSOLUTE$ + \"\\" + PATH_NOSCHEME$ + \"\\" + PATH_ROOTLESS$ + \"\\" +
\label{eq:linear_part} $$ '''(\),\ttFRAGMENT$ = subexp(subexp(PCHAR$ + \''[[\\\\\]) + \''*\''),\n\ttHIER_PART$ = $$
subexp(subexp(\"\\\\\\" + AUTHORITY$ + PATH_ABEMPTY$) + \"\\" + PATH_ABSOLUTE$ + \"\\" +
subexp(\'\'\'\' + QUERY\$) + \'\'\'' + subexp(\'\'\'\'\' + FRAGMENT\$) + \'\'\'', \'\'\' + RELATIVE PART\$ =
subexp(subexp(\"\\\\\\\" + AUTHORITY\$ + PATH_ABEMPTY\$) + \"\" + PATH_ABSOLUTE\$ + \"\\" + PATH_ABSOLUTE\$ + \"\" + PATH_ABSOLUTE + \" + PATH_ABSOLUTE + \"\" +
PATH_NOSCHEME$ + \"|\" + PATH_EMPTY$),\n\t\tRELATIVE$
 = subexp(RELATIVE_PART\$ + subexp(\"\\\\?\" + QUERY\$) + \"?\" + subexp(\"\\\\\\\" + FRAGMENT\$) +
'''?''),\n\t\tURI_REFERENCE$ = subexp(URI$ + \"\" + RELATIVE$),\n\t\tABSOLUTE_URI$ =
\"^(\" + SCHEME$ + \")\\\:\" + subexp(subexp(\"\\\/\\\/(\" + subexp(\"(\" + USERINFO$ + \")@\") + \"?(\" +
HOST$ + \")\" + subexp(\"\\\:(\" + PORT$ + \")\") + \"?(\" + PATH_ABEMPTY$ + \"\\" +
PATH ABSOLUTE$ + \"\" + PATH ROOTLESS$ + \"\" + PATH EMPTY$ + \"\") + subexp(\"\\\?(\" +
QUERY$ + \")\") + \"?\" + subexp(\"\\\#(\" + FRAGMENT$ + \")\") + \"?\",\n\t\tRELATIVE_REF$ = \"^(){0}\" +
subexp(subexp(\"\\\\\\\\\\\\" + subexp(\"(\" + USERINFO\$ + \")@\") + \"?(\" + HOST\$ + \")\" + subexp(\"\\\\:(\" + HOST\$ + \")\" + subexp(\"\\\:(\" + HOST\$ + \")\") + subexp(\"\\:(\" + HOST\$ + \")\")
PATH_NOSCHEME$ + \"|\" + PATH_EMPTY$ + \")\") + subexp(\"\\\\?(\" + QUERY$ + \")\") + \"?\"
 subexp(subexp(\"\\\\\\(\" + subexp(\"\\" + USERINFO$ + \")@\") + \"?(\" + HOST$ + \")\" + subexp(\"\\\:(\" +
PORT$ + \")\") + \"?(\" + PATH_ABEMPTY$ + \"\\" + PATH_ABSOLUTE$ + \"\\" +
PATH_ROOTLESS$ + \"\\" + PATH_EMPTY$ + \"\\") + subexp(\"\\\?(\" + QUERY$ + \")\") +
"?\",\n\t\tSAMEDOC_REF$ = \"^\" + subexp(\"\\\#(\" + FRAGMENT$ + \")\") +
\label{eq:linear_continuous_ref} $$ = ''' + subexp(''('' + USERINFO\$ + '')@'') + ''?('' + HOST\$ + '')'' + Continuous_{n,n} +
subexp(\"\\\:(\" + PORT\$ + \")\") + \"?\$\"\backslash n \setminus t; \land n \setminus treturn \{\n \setminus tNOT_SCHEME : new RegExp(merge(\"[^]\", n \setminus t, n \setminus treturn \{\n \mid tNOT_SCHEME : new RegExp(merge(\"[^]\", n \setminus t, n \setminus treturn \{\n \mid tNOT_SCHEME : new RegExp(merge(\"[^]\", n \setminus t, n \setminus treturn \{\n \mid tNOT_SCHEME : new RegExp(merge(\"[^]\], n \setminus t, n \setminus treturn \{\n \mid tNOT_SCHEME : new RegExp(merge(\"[^]\], n \setminus t, n \setminus treturn \{\n \mid tNOT_SCHEME : new RegExp(merge(\"[^]\], n \setminus t, n \setminus treturn \{\n \mid tNOT_SCHEME : new RegExp(merge(\"[^]\], n \setminus t, n \setminus treturn \{\n \mid tNOT_SCHEME : new RegExp(merge(\"[^]\], n \setminus t, n
ALPHA$$, DIGIT$$, \"[\\\\+\\\-\\\\.]\"), \"g\"),\n\t\NOT_USERINFO: new RegExp(merge(\"[^\\\\%\\\\:]\",
UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\NOT_HOST : new RegExp(merge(\"[^\\\\%\\\\[]\\\\]\\\]\","
UNRESERVED$$, SUB_DELIMS$$),
 \"g\"),\n\t\tNOT_PATH_NOSCHEME : new RegExp(merge(\"[^\\\\\\\\\\@]\", UNRESERVED$$,
SUB_DELIMS$$), \"g\"),\n\t\tNOT_QUERY: new RegExp(merge(\"[^\\\\]\", UNRESERVED$$,
RegExp(merge(\"[^\\\\%]\", UNRESERVED$$, SUB_DELIMS$$, \"[\\\\:\\\\@\\\\/\\\\?]\"), \nktESCAPE:
new RegExp(merge(\"[^]\", UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tUNRESERVED : new
RegExp(UNRESERVED$$, \"g\"),\n\t\OTHER_CHARS : new RegExp(merge(\"[^\\\\\]\", UNRESERVED$$,
RESERVED$$), \"g\"),\n\t\tPCT_ENCODED: new RegExp(PCT_ENCODED$, \"g\"),\n\t\tIPV4ADDRESS: new
\")\" + subexp(subexp(\"\\\\%25\\\\\%(?!\" + HEXDIG$$ + \"{2}\\") + \"(\" + ZONEID$ + \")\") + \"?\\\\]?$\")
//RFC 6874, with relaxed parsing rules\n\t\;\n\nexport default buildExps(false);\n","export function
merge(...sets:Array<string>):string
```

 ${\n \text{tif (sets.length} > 1) } {\n \text{tsets}[0] = \text{sets}[0].slice}(0, -1); \n \text{tsenst } xl = \text{sets.length} - 1; \n \text{tsenst} - 1; \n \text$ ++x)  $\{\n\t$ t\tsets[x] = sets[x].slice(1, -1);\n\t\tsets[x]] = sets[x]].slice(1);\n\t\treturn sets.join(");\n\t\ else  ${\n\treturn sets[0];\n\t}\n\n\export function subexp(str:string):string {\n\treturn \"(?:\" + str + \")\";\n}\n\n\export }$ function typeOf(o:any):string {\n\treturn o === undefined ? \"undefined\" : (o === null ? \"null\" : Object.prototype.toString.call(o).split(\"\").pop().split(\"\").shift().toLowerCase());\n\n\nexport function toUpperCase(str:string):string {\n\treturn str.toUpperCase();\n}\n\nexport function toArray(obj:any):Array<any> {\n\treturn obj !== undefined && obj !== null ? (obj instanceof Array ? obj : (typeof obj.length !== \"number\" || obj.split || obj.setInterval || obj.call ? [obj] : Array.prototype.slice.call(obj))) : [];\n}\n\nexport function assign(target: object, source: any): any {\n\tconst obj = target as obj;\n}"],"names":["SCHEMES","uuid","scheme","urn","mailto","https","http","urnComponents","nss","uuidComp onents", "toLowerCase", "options", "error", "tolerant", "match", "UUID", "undefined", "handler", "uriComponents", "path" ","nid","schemeHandler","serialize","urnScheme","parse","matches","components","URN PARSE","query","fields", "join","length","push","name","replace","PCT\_ENCODED","decodeUnreserved","toUpperCase","NOT\_HFNAME ","pctEncChar","headers","NOT\_HFVALUE","O","mailtoComponents","body","subject","to","x","localPart","dom ain", "iri", "e", "punycode", "toASCII", "unescapeComponent", "toUnicode", "toAddr", "slice", "atIdx", "NOT LOCAL P ART", "lastIndexOf", "String", "x1", "toArray", "addr", "unicodeSupport", "split", "unknownHeaders", "hfield", "toAddrs", "hfields","decStr","UNRESERVED","str","pctDecChars","RegExp","merge","UNRESERVED\$\$","SOME\_DELIM S\$\$","ATEXT\$\$","VCHAR\$\$","PCT\_ENCODED\$","QTEXT\$\$","subexp","HEXDIG\$\$","isIRI","domainHost"," port", "host", "toString", "URI\_PROTOCOL", "IRI\_PROTOCOL", "ESCAPE", "escapeComponent", "uriA", "uriB", "typ eOf", "equal", "uri", "normalize", "resolveComponents", "baseURI", "schemelessOptions", "relativeURI", "assign", "resolveComponents", "baseURI", "assign", "resolveComponents", "assign", "resolveComponents", "baseURI", "assign", "resolveComponents", "baseURI", "assign", "resolveComponents", "assign", "assi ve", "target", "fragment", "relative", "base", "userinfo", "removeDotSegments", "charAt", "skipNormalization", "uriToken s", "s", "authority", "absolutePath", "reference", "\_recomposeAuthority", "protocol", "IPV6ADDRESS", "test", "output", " Error", "input", "im", "RDS5", "pop", "RDS3", "RDS2", "RDS1", "\$1", "\$2", "\_normalizeIPv6", "\_normalizeIPv4", "\_", "uri String", "isNaN", "indexOf", "parseInt", "NO\_MATCH\_IS\_UNDEFINED", "URI\_PARSE", "newHost", "zone", "newFi rst", "newLast", "longestZeroFields", "index", "b", "a", "allZeroFields", "sort", "acc", "lastLongest", "field", "reduce", "field Count", "isLastFieldIPv4Address", "firstFields", "lastFields", "lastFieldsStart", "Array", "IPV4ADDRESS", "last", "map" ","stripLeadingZeros","first","address","reverse","NOT\_FRAGMENT","NOT\_QUERY","NOT\_PATH","NOT\_PA TH NOSCHEME", "NOT HOST", "NOT USERINFO", "NOT SCHEME", "normalizeComponentEncoding", "new Str", "substr", "i", "fromCharCode", "c", "c2", "c3", "il", "chr", "charCodeAt", "encode", "decode", "ucs2encode", "ucs2deco de", "regexNonASCII", "string", "mapDomain", "regexPunycode", "n", "delta", "handledCPCount", "adapt", "handledCP CountPlusOne", "basicLength", "stringFromCharCode", "digitToBasic", "q", "floor", "qMinusT", "baseMinusT", "t", "k", "bias", "tMin", "tMax", "currentValue", "maxInt", "m", "inputLength", "delimiter", "initialBias", "initialN", "fromCodePoi nt","splice","out","oldi","w","digit","basicToDigit","basic","j","baseMinusTMin","skew","numPoints","firstTime"," damp", "flag", "codePoint", "array", "value", "extra", "counter", "result", "encoded", "labels", "fn", "regexSeparators", "part s","RangeError","errors","type","Math","buildExps","IPV6ADDRESS\$","ZONEID\$","IPV4ADDRESS\$","RESER VED\$\$","SUB DELIMS\$\$","IPRIVATE\$\$","ALPHA\$\$","DIGIT\$\$","AUTHORITY REF\$","USERINFO\$","HO ST\$","PORT\$","SAMEDOC\_REF\$","FRAGMENT\$","ABSOLUTE\_REF\$","SCHEME\$","PATH\_ABEMPTY\$", "PATH\_ABSOLUTE\$","PATH\_ROOTLESS\$","PATH\_EMPTY\$","QUERY\$","RELATIVE\_REF\$","PATH\_NO SCHEME\$","GENERIC\_REF\$","ABSOLUTE\_URI\$","HIER\_PART\$","URI\_REFERENCE\$","URI\$","RELATI VE\$","RELATIVE\_PART\$","AUTHORITY\$","PCHAR\$","PATH\$","SEGMENT\_NZ\$","SEGMENT\_NZ\_NC\$", "SEGMENT\$","IP\_LITERAL\$","REG\_NAME\$","IPV6ADDRZ\_RELAXED\$","IPVFUTURE\$","IPV6ADDRES S1\$","IPV6ADDRESS2\$","IPV6ADDRESS3\$","IPV6ADDRESS5\$","IPV6ADDRESS6\$","I PV6ADDRESS7\$","IPV6ADDRESS8\$","IPV6ADDRESS9\$","H16\$","LS32\$","DEC\_OCTET\_RELAXED\$","DE C\_OCTET\$","UCSCHAR\$\$","GEN\_DELIMS\$\$","SP\$\$","DQUOTE\$\$","CR\$","obj","key","source","setInterval", "call", "prototype", "o", "Object", "shift", "sets"], "mappings": ";;;;;;;AUAA, SAAA4E, KAAA, GAAA; sCAAyBkP, IAAz B;YAAA;;;QACKA,KAAK/R,MAAL,GAAc,CAAlB,EAAqB;aACf,CAAL,IAAU+R,KAAK,CAAL,EAAQrQ,KA AR,CAAc,CAAd,EAAiB,CAAC,CAAlB,CAAV;YACMK,KAAKgQ,KAAK/R,MAAL,GAAc,CAAzB;aACK,IAA

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,OAAOA,OAAO,QAAQ2M,QAAf,IAA2B,GAAlC,CA7CjB;QA8CClB,iBAAiBzL,OAAO,QAAQA,OAAOyM,cA AcjB,aAArB,CAAR,GAA8C,GAArD,CA9ClB;;qBA+CkBxL,OAAO0M,iBAAiBlB,aAAxB,CA/ClB;;qBAgDkBx L,OAAOyM,cAAcjB,aAArB,CAhDlB;;kBAiDe,QAAQe,MAAR,GAAiB,GAjDhC;QAkDCC,QAAQxM,OAAOw L,gBAAgB,GAAhB,GAAsBC,cAAtB,GAAuC,GAAvC,GAA6CK,cAA7C,GAA8D,GAA9D,GAA0EJ,cAApE,GA AqF,GAArF,GAA2FC,WAAIG,CAIDT;QAmDCC,SAAS5L,OAAOA,OAAOuM,SAAS,GAAT,GAAe9M,MAAM, UAAN,EAAkBoL,UAAlB,CAAtB,IAAuD,GAA9D,CAnDV;QAoDCQ,YAAYrL,OAAOA,OAAOuM,SAAS,WA AhB,IAA+B,GAAtC,CApDb;QAqDCN,aAAajM,OAAOA,OAAO,WAAWsM,UAAX,GAAwBd,aAA/B,IAAgD,G AAhD,GAAsDC,cAAtD,GAAuE,GAAvE,GAA6EC,cAA7E,GAA8F,GAA9F,GAA0GC,WAA3G,CArDd;QAsDC Q,OAAOnM,OAAOuL,UAAU,KAAV,GAAkBU,UAAlB,GAA+BjM,OAAO,QAAQ4L,MAAf,CAA/B,GAAwD,G AAxD,GAA8D5L,OAAO,QAAQqL,SAAf,CAA9D,GAA0F,GAAjG,CAtDR;QAuDCgB,iBAAiBrM,OAAOA,OA AO,WAAWsM,UAAX,GAAwBd,aAA/B,IAAgD,GAAhD,GAAsDC,cAAtD,GAAuE,GAAvE,GAA6EK,cAA7E,G AA8F,GAA9F,GAA0GH,WAA3G,CAvDlB;QAwDCS,YAAYpM,OAAOqM,iBAAiBrM,OAAO,QAAQ4L,MAAf ,CAAjB,GAA0C,GAA1C,GAAgD5L,OAAO,QAAQqL,SAAf,CAAhD,GAA4E,GAAnF,CAxDb;QAyDCa,iBAAiB IM,OAAOmM,OAAO,GAAP,GAAaC,SAApB,CAzDIB;QA0DCJ,gBAAgBhM,OAAOuL,UAAU,KAAV,GAAkBAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRAC,CACRU,UAAlB,GAA+BjM,OAAO,QAAQ4L,MAAf,CAA/B,GAAwD,GAA/D,CA1DjB;QA4DCG,eAAe,OAAOR,OAA P,GAAiB,MAAjB,GAA0BvL,OAAOA,OAAO,YAAYA,OAAO,MAAMiL,SAAN,GAAkB,IAAzB,CAAZ,GAA6C ,IAA7C,GAAoDC,KAApD,GAA4D,GAA5D,GAAkEIL,OAAO,SAASmL,KAAT,GAAiB,GAAxB,CAAIE,GAAiG ,IAAxG,IAAgH,IAAhH,GAAuHK,aAAvH,GAAuI,GAAvI,GAA6IC,cAA7I,GAA8J,GAA9J,GAA6KC,cAApK,G AAqL,GAArL,GAA2LC,WAA3L,GAAyM,GAAhN,CAA1B,GAAiP3L,OAAO,SAAS4L,MAAT,GAAkB,GAAzB, CAAjP,GAAiR,GAAjR,GAAuR5L,OAAO,SAASqL,SAAT,GAAqB,GAA5B,CAAvR,GAA0T,IA5D1U;QA6DCQ ,gBAAgB,WAAW7L,OAAOA,OAAO,YAAYA,OAAO,MAAMiL,SAAN,GAAkB,IAAzB,CAAZ,GAA6C,IAA7C, GAAoDC,KAApD,GAA4D,GAA5D,GAAkEIL,OAAO,SAASmL,KAAT,GAAiB,GAAxB,CAAlE,GAAiG,IAAxG ,IAAgH,IAAhH,GAAuHK,aAAvH,GAAuI,GAAvI,GAA6IC,cAA7I,GAA8J,GAA9J,GAAoKK,cAApK,GAAqL,G AArL,GAA2LH,WAA3L,GAAyM,GAAhN,CAAX,GAAkO3L,OAAO,SAAS4L,MAAT,GAAkB,GAAzB,CAAlO, GAAkQ,GAAlQ,GAAwQ5L,OAAO,SAASqL,SAAT,GAAqB,GAA5B,CAAxQ,GAA2S,IA7D5T;QA8DCC,gBAA gB,OAAOC,OAAP,GAAiB,MAAjB,GAA0BvL,OAAOA,OAAO,YAAYA,OAAO,MAAMiL,SAAN,GAAkB,IAA zB,CAAZ,GAA6C,IAA7C,GAAoDC,KAApD,GAA4D,GAA5D,GAAkEIL,OAAO,SAASmL,KAAT,GAAiB,GAA xB,CAAlE,GAAiG,IAAxG,IAAgH,IAAhH,GAAuHK,aAAvH,GAAuI,GAAvI,GAA6IC,cAA7I,GAA8J,GAA9J,G AAoKC,cAApK,GAAqL,GAArL,GAA2LC,WAA3L,GAAyM,GAAhN,CAA1B,GAAiP3L,OAAO,SAAS4L,MAA T,GAAkB,GAAzB,CAAjP,GAAiR,IA9DlS;QA+DCR,eAAe,MAAMpL,OAAO,SAASqL,SAAT,GAAqB,GAA5B, CAAN,GAAyC,IA/DzD;QAgECL,iBAAiB,MAAMhL,OAAO,MAAMiL,SAAN,GAAkB,IAAzB,CAAN,GAAuC,I AAvC,GAA8CC,KAA9C,GAAsD,GAAtD,GAA4DIL,OAAO,SAASmL,KAAT,GAAiB,GAAxB,CAA5D,GAA2F, IAhE7G;WAmEO;oBACO,IAAI3L,MAAJ,CAAWC,MAAM,KAAN,EAAaqL,OAAb,EAAsBC,OAAtB,EAA+B,a AA/B,CAAX,EAA0D,GAA1D,CADP;sBAES,IAAIvL,MAAJ,CAAWC,MAAM,WAAN,EAAmBC,YAAnB,EAAi CkL,YAAjC,CAAX,EAA2D,GAA3D,CAFT;kBAGK,IAAIpL,MAAJ,CAAWC,MAAM,iBAAN,EAAyBC,YAAzB ,EAAuCkL,YAAvC,CAAX,EAAiE,GAAjE,CAHL;kBAIK,IAAIpL,MAAJ,CAAWC,MAAM,iBAAN,EAAyBC,Y

AAzB,EAAuCkL,YAAvC,CAAX,EAAiE,GAAjE,CAJL;2BAKc,IAAIpL,MAAJ,CAAWC,MAAM,cAAN,EAAsB C,YAAtB,EAAoCkL,YAApC,CAAX,EAA8D,GAA9D,CALd;mBAMM,IAAIpL,MAAJ,CAAWC,MAAM,QAAN, EAAgBC,YAAhB,EAA8BkL,YAA9B,EAA4C,gBAA5C,EAA8DC,UAA9D,CAAX,EAAsF,GAAtF,CANN;sBAO S,IAAIrL,MAAJ,CAAWC,MAAM,QAAN,EAAgBC,YAAhB,EAA8BkL,YAA9B,EAA4C,gBAA5C,CAAX,EAA0 E,GAA1E,CAPT;gBAQG,IAAIpL,MAAJ,CAAWC,MAAM,KAAN,EAAaC,YAAb,EAA2BkL,YAA3B,CAAX,EA AqD,GAArD,CARH;oBASO,IAAIpL,MAAJ,CAAWE,YAAX,EAAyB,GAAzB,CATP;qBAUQ,IAAIF,MAAJ,CA AWC,MAAM,QAAN,EAAgBC,YAAhB,EAA8BiL,UAA9B,CAAX,EAAsD,GAAtD,CAVR;qBAWQ,IAAInL,MA AJ,CAAWM,YAAX,EAAyB,GAAzB,CAXR;qBAYQ,IAAIN,MAAJ,CAAW,OAAOkL,YAAP,GAAsB,IAAjC,CA ZR;qBAaQ,IAAIIL,MAAJ,CAAW,WAAWgL,YAAX,GAA0B,GAA1B,GAAgCxK,OAAOA,OAAO,iBAAiBC,Q AAjB,GAA4B,MAAnC,IAA6C,GAA7C,GAAmDwK,OAAnD,GAA6D,GAApE,CAAhC,GAA2G,QAAtH,CAbR; ;;;;;;;;;;ADDA;;AACA,IAAMpC,SAAS,UAAf;;;AAGA,IAAMzG,OAAO,EAAb;AACA,IAAMsG,OAAO ,CAAb;AACA,IAAMC,OAAO,EAAb;AACA,IAAMkB,OAAO,EAAb;AACA,IAAMG,OAAO,GAAb;AACA,IAA Mf,cAAc,EAApB;AACA,IAAMC,WAAW,GAAjB;AACA,IAAMF,YAAY,GAAlB;;;AAGA,IAAMtB,gBAAgB,O AAtB;AACA,IAAMH,gBAAgB,YAAtB;AACA,IAAMoD,kBAAkB,2BAAxB;;;AAGA,IAAMG,SAAS;aACF,iDA DE;cAED,gDAFC;kBAGG;CAHIB;;;AAOA,IAAMIB,gBAAgBxH,OAAOsG,IAA7B;AACA,IAAMN,QAAQ4C,K AAK5C,KAAnB;AACA,IAAMH,qBAAqB7I,OAAOwH,YAAlC;;;;;;;;AAUA,SAASzK,OAAT,CAAe4O,IAAf,E AAqB;OACd,IAAIF,UAAJ,CAAeC,OAAOC,IAAP,CAAf,CAAN;;;;;;;;;AAWD,SAASnF,GAAT,CAAauE,KAAb ,EAAoBO,EAApB,EAAwB;KACjBH,SAAS,EAAf;KACIjN,SAAS6M,MAAM7M,MAAnB;QACOA,QAAP,EAAi B;SACTA,MAAP,IAAiBoN,GAAGP,MAAM7M,MAAN,CAAH,CAAjB;;QAEMiN,MAAP;;;;;;;;AaaD,SAAS 9C,SAAT,CAAmBD,MAAnB,EAA2BkD,EAA3B,EAA+B;KACxBE,QAAQpD,OAAO/H,KAAP,CAAa,GAAb,C AAd;KACI8K,SAAS,EAAb;KACIK,MAAMtN,MAAN,GAAe,CAAnB,EAAsB;;;WAGZsN,MAAM,CAAN,IAA W,GAApB;WACSA,MAAM,CAAN,CAAT;;;UAGQpD,OAAO/J,OAAP,CAAekN,eAAf,EAAgC,MAAhC,CAAT; KACMF,SAASjD,OAAO/H,KAAP,CAAa,GAAb,CAAf;KACM+K,UAAU5E,IAAI6E,MAAJ,EAAYC,EAAZ,EA AgBrN,IAAhB,CAAqB,GAArB,CAAhB;QACOkN,SAASC,OAAhB;;;;;;;;;;AagBD,SAASID,UAAT,CAAoBE ,MAApB,EAA4B;KACrBtE,SAAS,EAAf;KACIoH,UAAU,CAAd;KACMhN,SAASkK,OAAOIK,MAAtB;QACOg N,UAAUhN,MAAjB,EAAyB;MACIB8M,QAAQ5C,OAAON,UAAP,CAAkBoD,SAAIB,CAAd;MACIF,SAAS,M AAT,IAAmBA,SAAS,MAA5B,IAAsCE,UAAUhN,MAApD,EAA4D;;OAErD+M,QAAQ7C,OAAON,UAAP,CA AkBoD,SAAIB,CAAd;OACI,CAACD,QAAQ,MAAT,KAAoB,MAAxB,EAAgC;;WACxB9M,IAAP,CAAY,CAA C,CAAC6M,QAAQ,KAAT,KAAmB,EAApB,KAA2BC,QAAQ,KAAnC,IAA4C,OAAxD;IADD,MAEO;;;;WAGC9 M,IAAP,CAAY6M,KAAZ;;;GARF,MAWO;UACC7M,IAAP,CAAY6M,KAAZ;;;QAGKIH,MAAP;;;;;;;;AAWD ,IAAMmE,aAAa,SAAbA,UAAa;QAASjI,OAAO+J,aAAP,iCAAwBgB,KAAxB,EAAT;CAAnB;;;;;;;;;AAWA,IA AMV,eAAe,SAAfA,YAAe,CAASS,SAAT,EAAoB;KACpCA,YAAY,IAAZ,GAAmB,IAAvB,EAA6B;SACrBA,Y AAY,IAAnB;;KAEGA,YAAY,IAAZ,GAAmB,IAAvB,EAA6B;SACrBA,YAAY,IAAnB;;KAEGA,YAAY,IAAZ,G AAmB,IAAvB,EAA6B;SACrBA,YAAY,IAAnB;;QAEM9H,IAAP;CAVD;;;;;;;;AAwBA,IAAM8F,eAAe,SAAf A,YAAe,CAASsB,KAAT,EAAgBS,IAAhB,EAAsB;;;QAGnCT,QAAQ,EAAR,GAAa,MAAMA,QAAQ,EAAd,CA Ab,IAAkC,CAACS,QAAQ,CAAT,KAAe,CAAjD,CAAP;CAHD;;;;;;AAWA,IAAMnC,QAAQ,SAARA,KAAQ,C AASF,KAAT,EAAgBkC,SAAhB,EAA2BC,SAA3B,EAAsC;KAC/CvB,IAAI,CAAR;SACQuB,YAAY3B,MAAM AQgC,gBAAgBjB,IAAhB,IAAwB,CAA9D,EAAiEH,KAAKpG,IAAtE,EAA4E;UACnEgG,MAAMR,QAAQgC,a AAd,CAAR;;QAEMxB,MAAMI,IAAI,CAACoB,gBAAgB,CAAjB,IAAsBhC,KAAtB,IAA+BA,QAAQiC,IAAvC, CAAV,CAAP;CAPD;;;;;;;AAiBA,IAAMzC,SAAS,SAATA,MAAS,CAAShE,KAAT,EAAgB;;KAExBF,SAAS,E AAf;KACM6F,cAAc3F,MAAM9F,MAA1B;KACIqJ,IAAI,CAAR;KACIgB,IAAIuB,QAAR;KACIT,OAAOQ,WA AX;;;;;KAMIS,QAAQtG,MAAMjE,WAAN,CAAkB6J,SAAIB,CAAZ;KACIU,QAAQ,CAAZ,EAAe;UACN,CAA R;;;MAGI,IAAIC,IAAI,CAAb,EAAgBA,IAAID,KAApB,EAA2B,EAAEC,CAA7B,EAAgC;;MAE3BvG,MAAM8 D,UAAN,CAAiByC,CAAjB,KAAuB,IAA3B,EAAiC;WAC1B,WAAN;;SAEMpM,IAAP,CAAY6F,MAAM8D,UA AN,CAAiByC,CAAjB,CAAZ;;;;;;MAMI,IAAIhF,QAAQ+E,QAAQ,CAAR,GAAYA,QAAQ,CAApB,GAAwB,CA AzC,EAA4C/E,QAAQoE,WAApD,4BAA4F;;;;;;MAOvFO,OAAO3C,CAAX;OACK,IAAI4C,IAAI,CAAR,EAA

Wf,IAAIpG,IAApB,qBAA8CoG,KAAKpG,IAAnD,EAAyD;;OAEpDuC,SAASoE,WAAb,EAA0B;YACnB,eAAN; ;;OAGKS,QAAQC,aAAarG,MAAM8D,UAAN,CAAiBvC,OAAjB,CAAb,CAAd;;OAEI6E,SAASpH,IAAT,IAAiB oH,QAAQpB,MAAM,CAACS,SAASIC,CAAV,IAAe4C,CAArB,CAA7B,EAAsD;YAC/C,UAAN;;;QAGIC,QAA QD,CAAb;OACMhB,IAAIC,KAAKC,IAAL,GAAYC,IAAZ,GAAoBF,KAAKC,OAAOE,IAAZ,GAAmBA,IAAnB ,GAA0BH,IAAIC,IAA5D;;OAEIe,QAAQjB,CAAZ,EAAe;;;;OAITD,aAAalG,OAAOmG,CAA1B;OACIgB,IAAIn B,MAAMS,SAASP,UAAf,CAAR,EAAoC;YAC7B,UAAN;;;QAGIA,UAAL;;;MAIKe,MAAMnG,OAAO5F,MAA P,GAAgB,CAA5B;SACOwK,MAAMnB,IAAI2C,IAAV,EAAgBD,GAAhB,EAAgBC,QAAQ,CAA7B,CAAP;;;;M AIIIB,MAAMzB,IAAI0C,GAAV,IAAiBR,SAASIB,CAA9B,EAAiC;WAC1B,UAAN;;;OAGIS,MAAMzB,IAAI0C ,GAAV,CAAL;OACKA,GAAL;;;SAGOD,MAAP,CAAczC,GAAd,EAAmB,CAAnB,EAAsBgB,CAAtB;;;QAIMvI ,OAAO+J,aAAP,eAAwBjG,MAAxB,CAAP;CAjFD;;;;;;;AA2FA,IAAMiE,SAAS,SAATA,MAAS,CAAS/D,KAA T,EAAgB;KACxBF,SAAS,EAAf;;;SAGQoE,WAAWIE,KAAX,CAAR;;;KAGI2F,cAAc3F,MAAM9F,MAAxB;;; KAGIqK,IAAIuB,QAAR;KACItB,QAAQ,CAAZ;KACIa,OAAOQ,WAAX;;;;;;;uBAG2B7F,KAA3B,8HAAkC;O AAvBwF,cAAuB;;OAC7BA,iBAAe,IAAnB,EAAyB;WACjBrL,IAAP,CAAY0K,mBAAmBW,cAAnB,CAAZ;;;;;; ;;;;;;;KAIEZ,cAAc9E,OAAO5F,MAAzB;KACIuK,iBAAiBG,WAArB;;;;;KAMIA,WAAJ,EAAiB;SACTzK,IA AP,CAAYyL,SAAZ;;;;QAIMnB,iBAAiBkB,WAAxB,EAAqC;;;;MAIhCD,IAAID,MAAR;;;;;yBAC2BzF,KAA3B ,mIAAkC;QAAvBwF,YAAuB;;QAC7BA,gBAAgBjB,CAAhB,IAAqBiB,eAAeE,CAAxC,EAA2C;SACtCF,YAAJ; ;;;;;;;;;;MAMIb,wBAAwBF,iBAAiB,CAA/C;MACIiB,IAAInB,CAAJ,GAAQS,MAAM,CAACS,SAASjB,K AAV,IAAmBG,qBAAzB,CAAZ,EAA6D;WACtD,UAAN;;;WAGQ,CAACe,IAAInB,CAAL,IAAUI,qBAAnB;MA CIe,CAAJ;;;;;yBAE2B1F,KAA3B,mIAAkC;QAAvBwF,aAAuB;;QAC7BA,gBAAejB,CAAf,IAAoB,EAAEC,KA AF,GAAUiB,MAAlC,EAA0C;aACnC,UAAN;;QAEGD,iBAAgBjB,CAApB,EAAuB;;SAElBQ,IAAIP,KAAR;UA CK,IAAIY,IAAIpG,IAAb,qBAAuCoG,KAAKpG,IAA5C,EAAkD;UAC3CmG,IAAIC,KAAKC,IAAL,GAAYC,IA AZ,GAAoBF,KAAKC,OAAOE,IAAZ,GAAmBA,IAAnB,GAA0BH,IAAIC,IAA5D;UACIN,IAAII,CAAR,EAAW; ;;UAGLF,UAAUF,IAAII,CAApB;UACMD,aAAalG,OAAOmG,CAA1B;aACOhL,IAAP,CACC0K,mBAAmBC,a AAaK,IAAIF,UAAUC,UAA3B,EAAuC,CAAvC,CAAnB,CADD;UAGIF,MAAMC,UAAUC,UAAhB,CAAJ;;;YA GM/K,IAAP,CAAY0K,mBAAmBC,aAAaC,CAAb,EAAgB,CAAhB,CAAAB,CAAZ;YACOL,MAAMF,KAAN,E AAaG,qBAAb,EAAoCF,kBAAkBG,WAAtD,CAAP;aACQ,CAAR;OACEH,cAAF;;;;;;;;IAIAD,KAAF;IAC ED,CAAF;;QAGMzE,OAAO7F,IAAP,CAAY,EAAZ,CAAP;CArFD;;;;;;;;;AAmGA,IAAMyB,YAAY,SAAZA,S AAY,CAASsE,KAAT,EAAgB;QAC1BqE,UAAUrE,KAAV,EAAiB,UAASoE,MAAT,EAAiB;SACjCE,cAAczE,I AAd,CAAmBuE,MAAnB,IACJJ,OAAOI,OAAOxI,KAAP,CAAa,CAAb,EAAgB/C,WAAhB,EAAP,CADI,GAEJu L,MAFH;EADM,CAAP;CADD;;;;;;;;;AAmBA,IAAM5I,UAAU,SAAVA,OAAU,CAASwE,KAAT,EAAgB;QA CxBqE,UAAUrE,KAAV,EAAiB,UAASoE,MAAT,EAAiB;SACjCD,cAActE,IAAd,CAAmBuE,MAAnB,IACJ,SA ASL,OAAOK,MAAP,CADL,GAEJA,MAFH;EADM,CAAP;CADD;;;;;AAWA,IAAM7I,WAAW;;;;;YAML,OAN K;;;;;;;SAcR;YACG2I,UADH;YAEGD;EAhBK;WAkBND,MAlBM;WAmBND,MAnBM;YAoBLvI,OApBK;cAq BHE;CArBd,CAwBA;;ADvbA;;;;;;;;;;;;;AAoCA,AACA,AACA,AACA,AAiDA,AAAO,IAAMvD,U AA6C,EAAnD;AAEP,AAAA,SAAAuC,UAAA,CAA2BmJ,GAA3B,EAAA;QACOJ,IAAII,IAAIC,UAAJ,CAAe,C AAf,CAAV;QACIxI,UAAJ;QAEImI,IAAI,EAAR,EAAYnI,IAAI,OAAOmI,EAAE7F,QAAF,CAAW,EAAX,EAA epD,WAAf,EAAX,CAAZ,KACK,IAAIiJ,IAAI,GAAR,EAAanI,IAAI,MAAMmI,EAAE7F,QAAF,CAAW,EAAX, EAAepD,WAAf,EAAV,CAAb,KACA,IAAIiJ,IAAI,IAAR,EAAcnI,IAAI,MAAM,CAAEmI,KAAK,CAAN,GAA W,GAAZ,EAAiB7F,QAAjB,CAA0B,EAA1B,EAA8BpD,WAA9B,EAAN,GAAoD,GAApD,GAA0D,CAAEiJ,IAA I,EAAL,GAAW,GAAZ,EAAiB7F,QAAjB,CAA0B,EAA1B,EAA8BpD,WAA9B,EAA9D,CAAd,KACAc,IAAI,M AAM,CAAEmI,KAAK,EAAN,GAAY,GAAb,EAAkB7F,QAAlB,CAA2B,EAA3B,EAA+BpD,WAA/B,EAAN,GA AqD,GAArD,GAA2D,CAAGiJ,KAAK,CAAN,GAAW,EAAZ,GAAkB,GAAnB,EAAwB7F,QAAxB,CAAiC,EAAj C,EAAqCpD,WAArC,EAA3D,GAAgH,GAAhH,GAAsH,CAAEiJ,IAAI,EAAL,GAAW,GAAZ,EAAiB7F,QAAjB, CAA0B,EAA1B,EAA8BpD,WAA9B,EAA1H;WAEEc,CAAP;;AAGD,AAAA,SAAAuB,WAAA,CAA4BD,GAA5 B,EAAA;QACKyG,SAAS,EAAb;QACIE,IAAI,CAAR;QACMK,KAAKhH,IAAI1C,MAAf;WAEOqJ,IAAIK,EAA X,EAAe;YACRH,IAAI1C,SAASnE,IAAI0G,MAAJ,CAAWC,IAAI,CAAf,EAAkB,CAAIB,CAAT,EAA+B,EAA/ B,CAAV;YAEIE,IAAI,GAAR,EAAa;sBACFzH,OAAOwH,YAAP,CAAoBC,CAApB,CAAV;iBACK,CAAL;SAF D,MAIK,IAAIA,KAAK,GAAL,IAAYA,IAAI,GAApB,EAAyB;gBACxBG,KAAKL,CAAN,IAAY,CAAhB,EAAm

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GK0H,GAAP;SATqB,EAUnB,EAVmB,CAAtB;YAYMN,oBAAoBI,cAAcC,IAAd,CAAmB,UAACF,CAAD,EAA ID,CAAJ;mBAAUA,EAAEtH,MAAF,GAAWuH,EAAEvH,MAAvB;SAAnB,EAAkD,CAAID,CAA1B;YAEIgH,g BAAJ;YACII,qBAAqBA,kBAAkBpH,MAAlB,GAA2B,CAApD,EAAuD;gBAChDkH,WAAWpH,OAAO4B,KAA P,CAAa,CAAb,EAAgB0F,kBAAkBC,KAAlC,CAAjB;gBACMF,UAAUrH,OAAO4B,KAAP,CAAa0F,kBAAkBC, KAAIB,GAA0BD,kBAAkBpH,MAAzD,CAAhB;sBACUkH,SAASnH,IAAT,CAAc,GAAd,IAAqB,IAArB,GAA4 BoH,QAAQpH,IAAR,CAAa,GAAb,CAAtC;SAHD,MAIO;sBACID,OAAOC,IAAP,CAAY,GAAZ,CAAV;;YAGG kH,IAAJ,EAAU;uBACE,MAAMA,IAAjB;;eAGMD,OAAP;KA5CD,MA6CO;eACCvD,IAAP;;;AAIF,IAAMsD,Y AAY,iIAAIB;AACA,IAAMD,wBAA4C,EAAD,CAAK/H,KAAL,CAAW,OAAX,EAAqB,CAArB,MAA4BE,SAA 7E;AAEA,AAAA,SAAAQ,KAAA,CAAsBiH,SAAtB,EAAA;QAAwC9H,OAAxC,uEAA6D,EAA7D;;QACOe,aA A2B,EAAjC;QACM8F,WAAY7G,QAAQuC,GAAR,KAAgB,KAAhB,GAAwByC,YAAxB,GAAuCD,YAAzD;QA EI/E,QAAQ2G,SAAR,KAAsB,QAA1B,EAAoCmB,YAAY,CAAC9H,QAAQT,MAAR,GAAiBS,QAAQT,MAAR, GAAiB,GAAlC,GAAwC,EAAzC,IAA+C,IAA/C,GAAsDuI,SAAlE;QAE9BhH,UAAUgH,UAAU3H,KAAV,CAA gBgI,SAAhB,CAAhB;QAEIrH,OAAJ,EAAa;YACRoH,qBAAJ,EAA2B;;uBAEf3I,MAAX,GAAoBuB,QAAQ,CA AR,CAApB;uBACWqF,QAAX,GAAsBrF,QAAQ,CAAR,CAAtB;uBACW+D,IAAX,GAAkB/D,QAAQ,CAAR,C AAIB;uBACW8D,IAAX,GAAkBqD,SAASnH,QAAQ,CAAR,CAAT,EAAqB,EAArB,CAAIB;uBACWN,IAAX,G AAkBM,QAAQ,CAAR,KAAc,EAAhC;uBACWG,KAAX,GAAmBH,QAAQ,CAAR,CAAnB;uBACWkF,QAAX, GAAsBIF,QAAQ,CAAR,CAAtB;;gBAGIiH,MAAMhH,WAAW6D,IAAjB,CAAJ,EAA4B;2BAChBA,IAAX,GAA kB9D,QAAQ,CAAR,CAAlB;;SAZF,MAcO;;;uBAEKvB,MAAX,GAAoBuB,QAAQ,CAAR,KAAcT,SAAlC;uBA CW8F,QAAX,GAAuB2B,UAAUE,OAAV,CAAkB,GAAlB,MAA2B,CAAC,CAA5B,GAAgClH,QAAQ,CAAR,C AAhC,GAA6CT,SAApE;uBACWwE,IAAX,GAAmBiD,UAAUE,OAAV,CAAkB,IAAlB,MAA4B,CAAC,CAA7B ,GAAiCIH,QAAQ,CAAR,CAAjC,GAA8CT,SAAjE;uBACWuE,IAAX,GAAkBqD,SAASnH,QAAQ,CAAR,CAAT ,EAAqB,EAArB,CAAlB;uBACWN,IAAX,GAAkBM,QAAQ,CAAR,KAAc,EAAhC;uBACWG,KAAX,GAAoB6G ,UAAUE,OAAV,CAAkB,GAAIB,MAA2B,CAAC,CAA5B,GAAgCIH,QAAQ,CAAR,CAAhC,GAA6CT,SAAjE;u BACW2F,QAAX,GAAuB8B,UAAUE,OAAV,CAAkB,GAAIB,MAA2B,CAAC,CAA5B,GAAgClH,QAAQ,CAAR ,CAAhC,GAA6CT,SAApE;;gBAGI0H,MAAMhH,WAAW6D,IAAjB,CAAJ,EAA4B;2BAChBA,IAAX,GAAmBk D, UAAU3H, KAAV, CAAgB, +BAAhB, IAAmDW, QAAQ, CAAR, CAAnD, GAAgET, SAAnF;;; YAIEU, WAAW8D, CAAR, CAARD, CIAAf,EAAqB;;uBAETA,IAAX,GAAkB8C,eAAeC,eAAe7G,WAAW8D,IAA1B,EAAgCgC,QAAhC,CAAf,EAA0 DA,QAA1D,CAAIB;;;YAIG9F,WAAWxB,MAAX,KAAsBc,SAAtB,IAAmCU,WAAWoF,QAAX,KAAwB9F,SA A3D,IAAwEU,WAAW8D,IAAX,KAAoBxE,SAA5F,IAAyGU,WAAW6D,IAAX,KAAoBvE,SAA7H,IAA0I,CAA CU,WAAWP,IAAtJ,IAA8JO,WAAWE,KAAX,KAAqBZ,SAAvL,EAAkM;uBACtLsG,SAAX,GAAuB,eAAvB;SA DD,MAEO,IAAI5F,WAAWxB,MAAX,KAAsBc,SAA1B,EAAqC;uBAChCsG,SAAX,GAAuB,UAAvB;SADM,M AEA,IAAI5F,WAAWiF,QAAX,KAAwB3F,SAA5B,EAAuC;uBAClCsG,SAAX,GAAuB,UAAvB;SADM,MAEA; uBACKA,SAAX,GAAuB,KAAvB;;;YAIG3G,QAAQ2G,SAAR,IAAqB3G,QAAQ2G,SAAR,KAAsB,QAA3C,IAA uD3G,QAAQ2G,SAAR,KAAsB5F,WAAW4F,SAA5F,EAAuG;uBAC3F1G,KAAX,GAAmBc,WAAWd,KAAX,I AAoB,kBAAkBD,QAAQ2G,SAA1B,GAAsC,aAA7E;;;YAIKjG,gBAAgBrB,QAAQ,CAACW,QAAQT,MAAR,IA AkBwB,WAAWxB,MAA7B,IAAuC,EAAxC,EAA4CQ,WAA5C,EAAR,CAAtB;;YAGI,CAACC,QAAQsD,cAAT, KAA4B,CAAC5C,aAAD,IAAkB,CAACA,cAAc4C,cAA7D,CAAJ,EAAkF;;gBAE7EvC,WAAW8D,IAAX,KAAo B7E,QAAQ2E,UAAR,IAAuBjE,iBAAiBA,cAAciE,UAA1E,CAAJ,EAA4F;;oBAEvF;+BACQE,IAAX,GAAkBpC, SAASC,OAAT,CAAiB3B,WAAW8D,IAAX,CAAgBtD,OAAhB,CAAwBsF,SAASrF,WAAjC,EAA8CuC,WAA9 C,EAA2DhE,WAA3D,EAAjB,CAAlB;iBADD,CAEE,OAAOyC,CAAP,EAAU;+BACAvC,KAAX,GAAmBc,WA AWd,KAAX,IAAoB,oEAAoEuC,CAA3G;;;;wCAI0BzB,UAA5B,EAAwCgE,YAAxC;SAXD,MAYO;;wCAEsBhE ,UAA5B,EAAwC8F,QAAxC;;;YAIGnG,iBAAiBA,cAAcG,KAAnC,EAA0C;0BAC3BA,KAAd,CAAoBE,UAApB, EAAgCf,OAAhC;;KA3EF,MA6EO;mBACKC,KAAX,GAAmBc,WAAWd,KAAX,IAAoB,wBAAvC;;WAGMc,U AAP;;AACA;AAED,SAAA6F,mBAAA,CAA6B7F,UAA7B,EAAuDf,OAAvD,EAAA;QACO6G,WAAY7G,QAA QuC,GAAR,KAAgB,KAAhB,GAAwByC,YAAxB,GAAuCD,YAAzD;QACMwB,YAA0B,EAAhC;QAEIxF,WAA WoF,QAAX,KAAwB9F,SAA5B,EAAuC;kBAC5BgB,IAAV,CAAeN,WAAWoF,QAA1B;kBACU9E,IAAV,CAAe ,GAAf;;QAGGN,WAAW8D,IAAX,KAAoBxE,SAAxB,EAAmC;;kBAExBgB,IAAV,CAAesG,eAAeC,eAAe1E,O AAOnC,WAAW8D,IAAIB,CAAf,EAAwCgC,QAAxC,CAAf,EAAkEA,QAAIE,EAA4EtF,OAA5E,CAAoFsF,SAA

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;;;;;;;;AAaA,IAAML,UAAU,uDAAhB;AACA,IAAMG,UAAU,4DAAhB;AACA,IAAMF,UAAUJ,MAAMM,OA AN,EAAe,YAAf,CAAhB;AACA,AACA,AACA,AACA,AAEA,AAEA,IAAMJ,gBAAgB,qCAAtB;AACA,AACA, ,YAAX,EAAyB,GAAzB,CAAnB;AACA,IAAM1C,cAAc,IAAIwC,MAAJ,CAAWM,YAAX,EAAyB,GAAzB,CA ApB;AACA,IAAMtB,iBAAiB,IAAIgB,MAAJ,CAAWC,MAAM,KAAN,EAAaG,OAAb,EAAsB,OAAtB,EAA+B, OAA/B,EAAwCC,OAAxC,CAAX,EAA6D,GAA7D,CAAvB;AACA,AACA,IAAM1C,aAAa,IAAIqC,MAAJ,CAA WC,MAAM,KAAN,EAAaC,YAAb,EAA2BC,aAA3B,CAAX,EAAsD,GAAtD,CAAnB;AACA,IAAMrC,cAAcH,U AApB;AACA,AACA,AAEA,SAAAF,gBAAA,CAA0BqC,GAA1B,EAAA;QACOF,SAASG,YAAYD,GAAZ,CAA f;WACQ,CAACF,OAAOzD,KAAP,CAAa0D,UAAb,CAAD,GAA4BC,GAA5B,GAAkCF,MAA1C;;AAGD,IAAM tD,YAA8C;YAC1C,QAD0C;WAG3C,kBAAUS,UAAV,EAAoCf,OAApC,EAAT;YACQgC,mBAAmBjB,UAAzB; YACMoB,KAAKH,iBAAiBG,EAAjB,GAAuBH,iBAAiBxB,IAAjB,GAAwBwB,iBAAiBxB,IAAjB,CAAsB+C,K AAtB,CAA4B,GAA5B,CAAxB,GAA2D,EAA7F;yBACiB/C,IAAjB,GAAwBH,SAAxB;YAEI2B,iBAAiBf,KAAr B,EAA4B;gBACvBuC,iBAAiB,KAArB;gBACM3B,UAAwB,EAA9B;gBACM8B,UAAU3B,iBAAiBf,KAAjB,CA AuBsC,KAAvB,CAA6B,GAA7B,CAAhB;iBAEK,IAAInB,IAAI,CAAR,EAAWe,KAAKQ,QAAQvC,MAA7B,EA AqCgB,IAAIe,EAAzC,EAA6C,EAAEf,CAA/C,EAAkD;oBAC3CqB,SAASE,QAAQvB,CAAR,EAAWmB,KAAX ,CAAiB,GAAjB,CAAf;wBAEQE,OAAO,CAAP,CAAR;yBACM,IAAL;4BACOC,UAAUD,OAAO,CAAP,EAAU F,KAAV,CAAgB,GAAhB,CAAhB;6BACK,IAAInB,KAAI,CAAR,EAAWe,MAAKO,QAAQtC,MAA7B,EAAqCg B,KAAIe,GAAzC,EAA6C,EAAEf,EAA/C,EAAkD;+BAC9Cf,IAAH,CAAQqC,QAAQtB,EAAR,CAAR;;;yBAGG, SAAL;yCACkBF,OAAjB,GAA2BS,kBAAkBc,OAAO,CAAP,CAAlB,EAA6BzD,OAA7B,CAA3B;;yBAEI,MAA L;yCACkBiC,IAAjB,GAAwBU,kBAAkBc,OAAO,CAAP,CAAlB,EAA6BzD,OAA7B,CAAxB;;;yCAGiB,IAAjB;g CACQ2C,kBAAkBc,OAAO,CAAP,CAAIB,EAA6BzD,OAA7B,CAAR,IAAiD2C,kBAAkBc,OAAO,CAAP,CAAI B,EAA6BzD,OAA7B,CAAjD;;;;gBAKCwD,cAAJ,EAA0BxB,iBAAiBH,OAAjB,GAA2BA,OAA3B;;yBAGJZ,KA AjB,GAAyBZ,SAAzB;aAEK,IAAI+B,MAAI,CAAR,EAAWe,OAAKhB,GAAGf,MAAxB,EAAgCgB,MAAIe,IAA pC,EAAwC,EAAEf,GAA1C,EAA6C;gBACtCiB,OAAOlB,GAAGC,GAAH,EAAMmB,KAAN,CAAY,GAAZ,CA Ab;iBAEK,CAAL,IAAUZ,kBAAkBU,KAAK,CAAL,CAAlB,CAAV;gBAEI,CAACrD,QAAQsD,cAAb,EAA6B;;o BAExB;yBACE,CAAL,IAAUb,SAASC,OAAT,CAAiBC,kBAAkBU,KAAK,CAAL,CAAIB,EAA2BrD,OAA3B,E AAoCD,WAApC,EAAjB,CAAV;iBADD,CAEE,OAAOyC,CAAP,EAAU;qCACMvC,KAAjB,GAAyB+B,iBAAiB /B,KAAjB,IAA0B,6EAA6EuC,CAAhI;;aALF,MAOO;qBACD,CAAL,IAAUG,kBAAkBU,KAAK,CAAL,CAAlB, EAA2BrD,OAA3B,EAAoCD,WAApC,EAAV;;eAGEqC,GAAH,IAAQiB,KAAKIC,IAAL,CAAU,GAAV,CAAR;; 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gBACMC, gBAAgBrB, QAAQuB, SAAR, C gBAEIK, aAAJ, EAAmB; gCACFA, cAAcG, KAAd, CAAoBjB, aAApB, EAAmCI, OAAnC, CAAhB;; SAZF, MAcO; 0BAEIK, aAAJ, EAAmB; gCACFA, cAAcG, KAAd, CAAoBjB, aAApB, EAAmCI, OAAnC, CAAhB;; SAZF, MAcO; 0BAEIK, aAAJ, EAAmB; gCACFA, cAAcG, KAAd, CAAoBjB, aAApB, EAAmCI, OAAnC, CAAhB;; SAZF, MAcO; 0BAEIK, aAAJ, EAAmCI, OAAnC, CAAABB;; SAZF, MAcO; 0BAEIK, aAAJ, EAAmCI, OAAnC, CAAABB;; SAZF, MAcO; 0BAEIK, aAAJ, CAAABB;; CAABBEIK, aAABB, CAABBEIK, aAABB, CAABBB;; CAABBEIK, aAABBB;; CAABBEIK, aAABBB;; CAABBB;; CABBB;; CABBB

#### Found

in path(s):

\* /opt/cola/permits/1110634955\_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/dist/es5/uri.all.js.map

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

```
import resolve from 'rollup-plugin-node-resolve';
import babel from 'rollup-plugin-babel';
const packageJson = require('./package.json');
export default {
entry: "dist/esnext/index.js",
format: "umd",
moduleName: "URI",
plugins: [
 resolve({
 module: true,
 jsnext: true,
 preferBuiltins: false
 }),
 babel({
 "presets": [
 ["latest", {
 "es2015": {
 "modules": false
 }
 }]
],
 "plugins": ["external-helpers"],
 "externalHelpers": false
```

```
],
dest: "dist/es5/uri.all.js",
sourceMap: true,
banner: "/** @license URI.js v" + packageJson.version + " (c) 2011 Gary Court. License:
http://github.com/garycourt/uri-js */"
}
Found in path(s):
*/opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/rollup.config.js
```

# 1.419 postcss 6.0.23

#### 1.419.1 Available under license:

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# 1.420 minimist 1.2.0

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### 1.421 css-selector-tokenizer 0.7.1

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# 1.422 json-schema-traverse 0.4.1

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# 1.423 fast-json-stable-stringify 2.0.0

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# 1.424 postcss-modules-values 1.3.0

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# 1.425 regexpu-core 1.0.0

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# 1.426 postcss-modules-local-by-default 1.2.0

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dateutil - Extensions to the standard Python datetime module.

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## 1.462 lodash 4.17.11

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