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1.5 mkdirp 0.5.1

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1.7 has-ansi 2.0.0

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

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

Install

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

Usage

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

hasAnsi('\u001b[4mcake\u001b[0m');
//=> true

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

Related

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

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1.8 supports-color 2.0.0

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

> Detect whether a terminal supports color

Install

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

Usage

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

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

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

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

Related

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

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1.9 unicodecsv 0.14.1

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Found in path(s):
* /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
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

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* /opt/cola/permits/113619482_1695287522.204296/0/unicodecsv-0-14-1-3-tar-gz/unicodecsv-0.14.1/unicodecsv.egg-info/PKG-INFO
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1.10 buffer-xor 1.0.3

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```
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1.13 browserify-rsa 4.0.1

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1.14 python-backports-ssl-match-hostname 3.5.0.1

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1.17 backbone-computedfields 0.0.12

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1.18 backgrid-filter 0.3.7

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1.19 inflight 1.0.6

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1.22 cookies 2.2.1

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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
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* One file, so you can just drop cookies.py into your project if you like
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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.

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 on the Python issue tracker)
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  >>> from cookies import Cookies, Cookie
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  >>> cookies['rocky'].path = "/cookie"
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  'rocky=road'
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(forcing you to write ugly wrappers as Django, Trac, Werkzeug/Flask, web.py
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* 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.

Found in path(s):
* /opt/cola/permits/148343421_1695307977.777354/0/cookies-2-2-1-tar-gz/cookies-2.2.1/README
No license file was found, but licenses were detected in source scan.

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
```

1.23 django-bulk-update 1.1.10

1.23.1 Available under license :

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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)
- [towr](https://github.com/towr)
- [joshblum](https://github.com/joshblum)
- [luzfcb](https://github.com/luzfcb)
- [torchingloom](https://github.com/torchingloom)
- [cihann](https://github.com/cihann)
- [wetneb](https://github.com/wetneb)
- [tatterdemalion](https://github.com/tatterdemalion)
- [gabriel-laet](https://github.com/gabriel-laet)

TODO

==========

- Geometry Fields support

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==========

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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):
* /opt/cola/permits/148344584_1695307979.0263047/0/django-bulk-update-1-1-10-tar-gz/django-bulk-update-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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1.24 brorand 1.1.0

1.24.1 Available under license :

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1.25 browserify-sign 4.0.4

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1.26 jsesc 0.5.0

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1.27 json5 0.5.1

1.27.1 Available under license :

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1.28 xmltodict 0.11.0

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1.29 appdirs 1.4.3

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1.30 strict-rfc3339 0.7

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1.51 source-map-support 0.4.18

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1.55 repeat-element 1.1.2

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1.56 regex-cache 0.4.4

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1.62 debug 2.6.9

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1.64 path-is-absolute 1.0.1

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1.68 parse-glob 3.0.4

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1.70 ms 2.0.0

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1.170 ipython-genutils 0.2.0

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1.172 requests-ntlm 1.1.0

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1.173 wsaccel 0.6.2

1.173.1 Available under license :

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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 <http://autobahn.ws/python>`_,
    `ws4py <https://github.com/Lawouach/WebSocket-for-Python>`_ and
    `Tornado <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
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.2
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: Implementation :: CPython

Found in path(s):
* /opt/cola/permits/178634281_1695329474.5889049/0/wsaccel-0-6-2-tar-gz/wsaccel-0.6.2/PKG-INFO

1.174 diff-match-patch 20121119

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1.175 backgrid 0.3.8

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1.176 lunr 0.7.2

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1.178 pkijs 2.1.10

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tgz/package/src/uncompressed/plugins/CSSPlugin.js
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/src/minified/TimelineLite.min.js
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/TimelineMax.js
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* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/src/minified/TimelineMax.min.js
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/src/minified/TweenLite.min.js
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* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/EndArrayPlugin.js
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* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/RoundPropsPlugin.js
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* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/src/uncompressed/plugins/RaphaelPlugin.js
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* This file is to be used as a simple template for writing your own plugin. See the
* TweenPlugin docs for more details.
*

* You can start by doing a search for "yourCustomProperty" and replace it with whatever the name
* of your property is. This way of defining a plugin was introduced in version 1.9.0 - previous versions
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1.200 create-ecdh 4.0.3

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1.203 diffie-hellman 5.0.3

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1.204 hash-base 3.0.4

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1.205 minimalistic-assert 1.0.1

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1.206 pbkdf2 3.0.16

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1.207 public-encrypt 4.0.2

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1.208 randomfill 1.0.4

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1.209 ripemd160 2.0.2

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1.210 ntlm-auth 1.2.0

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1.215 jdcal 1.4

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1.219 et-xmlfile 1.0.1

1.220 txaio 18.8.1

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1.223 elliptic 6.4.1

1.224 supports-color 5.5.0

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1.228 plotly-js-basic-dist 1.44.1

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1.229 flatpickr 4.5.2

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1.230 babel-helper-regex 6.24.1

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1.231 responses 0.10.5

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1.234 paramiko 2.6.0

1.235 webpack-jquery-ui 2.0.1

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1.237 iptables 1.8.3

1.238 open-ldap 2.4.48

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1.240 sqlite 3.30.1

1.241 python-setuptools 41.2.0

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1.242 zlib 1.2.8

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1.243 zlib 1.2.5

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1.245 lua-cjson 2.1.0

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1.246 gmp 6.1.2

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1.247 net-tools 2.10

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1.248 ncurses 6.1

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1.249 libvmtools 10.3.5.7752

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>>> freebsd-base64-4.8
>>>
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==========

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>>> freebsd-base64-4.8

base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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>>> unicode-5.0

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1.253 jsonref 0.2

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1.255 xz 5.2.4

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1.270 libyaml 0.2.2

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1.271 simplegeneric 0.8.1

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Programming Language :: Python :: 3
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Topic :: Software Development :: Libraries :: Python Modules

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1.272 dhcp 4.4.1

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

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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<!-- $Id$ -->

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

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

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

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

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

<!--
 - Local variables:
 - mode: sgml
 - End:
-->
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1.273 fs.realpath 1.0.0

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1.274 evp_bytestokey 1.0.3

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1.275 backbone.radio 2.0.0

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1.276 randombytes 2.0.6

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1.277 bn.js 4.11.8

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1.278 hash.js 1.1.5

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1.279 string_decoder 1.1.1

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1.280 asn1.js 4.10.1

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1.281 object.assign 4.1.1

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1.282 des.js 1.0.0

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1.283 ldap-filters 2.2.2

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1.284 object.omit 2.0.1

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1.285 sha.js 2.4.11

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1.286 backbone.marionette 3.4.4

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1.287 ldap-filter 0.2.1

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1.292 start-stop-daemon 1.18.10

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1.296 fdisk 2.35.1

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(including a physical distribution medium), accompanied by a
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and valid for as
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more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
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alternative is allowed only occasionally and noncommercially, and
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with subsection 6b.

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place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in
the same way through the same place at no
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1.297 libffi 3.3

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

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

software.

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

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

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

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

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

    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
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  <xsl:text>
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  </xsl:text>
 </xsl:variable>

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

```
  <xsl:text>&#10;</xsl:text>
 </xsl:for-each>
 <xsl:value-of
 select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
 </xsl:variable>
</xsl:stylesheet>

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

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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
Bos, Sander
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
Cheloha, Scott
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
Jover, Guillem
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
Mallayya, Sangamesh
Marchionna, Michael D.
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
Pasteleurs, Frederic
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
Sanders, Miguel
Sasaki, Kan
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Spradling, Michael
Stier, Matthew
Stoeckmann, Tobias
Street, Russell

Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
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 as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blttermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frdric
Hein, Jochen

Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frdric
Margeviius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Puente, Enol
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer

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1.305 jquery 3.5.1

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1.306 redis 5.0.7

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1.307 jsonschema 2.5.1

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1.308 pycparser 2.19

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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
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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
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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
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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 <harlan@pfcs.com> 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 <brian.utterback@oracle.com> 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

References

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1.312 libtirpc 1.2.5

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1.317 lvm2 2.02.185

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1.320 channels 2.3.1

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1.323 django-redis 4.11.0

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1.324 docker 4.1.0

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1.325 hiredis 0.2.0

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1.326 libglib 2.62.4

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```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*    as needed. This means that data must always be copied to create
*    the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*    Fix is simple: make large buffers large enough to hold entire
*    SDU, and leave <small_buffer_data> bytes empty at the start. Then
*    copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*    buffers. This is done by 2 things:
*      1) skb->destructor / skb->atm.recycle_buffer
*          combined, allow nicstar_free_rx_skb to be called to
*          recycle large data buffers
*      2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*    details.
*
*
```

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*
* M. Welsh, 6 July 1996
*
*
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1.329 ndisc 1.0.4

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1.333 python-blessed 1.17.5

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1.334 python-cached-property 1.4.3

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1.336 tzdata 2019c

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1.337 zope-interface 4.6.0

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1.338 docker-containerd 1.2.12

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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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1.340 docker-engine 19.03.5

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1.342 libdnet 1.11

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1.343 libfastjson 0.99.8

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1.344 setuptools-scm 3.3.3

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URI.js

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

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

API

Parsing

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

Serializing

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

Resolving

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

Normalizing

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

Comparison

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

IP Support

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

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

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

IRI Support

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

Options

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

* `scheme` (string)

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

* `reference` (string)

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

* `tolerant` (boolean, false)

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

* `absolutePath` (boolean, false)

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

* `iri` (boolean, false)

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

* `unicodeSupport` (boolean, false)

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

* `domainHost`
 (boolean, false)

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

Scheme Extendable

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

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

HTTP Support

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

Mailto Support

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

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

URN Support

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

URN UUID Support

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

Usage

To load in a browser, use the following tag:

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

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

```
npm install uri-js
```

Then, in your code, load it using:

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

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

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

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

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

Breaking changes

Breaking changes from 3.x

URN parsing has been completely changed to better align with the specification. Scheme is now always `urn`, but has two new properties: `nid` which contains the Namspace Identifier, and `nss` which contains the Namespace Specific String. The `nss` property will be removed by higher order scheme handlers, such as the UUID URN scheme handler.

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

Breaking changes from 2.x

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

Breaking changes from 1.x

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

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

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

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

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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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```
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```

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{"version":3,"sources":["../../src/util.ts","../../src/regexps-uri.ts","../../node_modules/punycode/punycode.es6.js","../../src/uri.ts","../../src/schemes/mailto.ts","../../src/regexps-iri.ts","../../src/schemes/http.ts","../../src/schemes/https.ts","../../src/schemes/urn.ts","../../src/schemes/urn-uuid.ts","../../src/index.ts"],"names":["merge","sets","Array","_len","_key","arguments","length","slice","xl","x","join","subexp","str","typeOf","o","undefined","Object","prototype","toString","call","split","pop","shift","toLowerCase","toUpperCase","toArray","obj","setInterval","assign","target","source","key","buildExps","isIRI","HEXDIG$$","PCT_ENCODED$","SUB_DELIMS$$","RESERVED$$","UCSCHAR$$","DEC_OCTET_RELAXED$","H16$","LS32$","IPV4ADDRESS$","IPV6ADDRESS1$","IPV6ADDRESS2$","IPV6ADDRESS3$","IPV6ADDRESS4$","IPV6ADDRESS5$","IPV6ADDRESS6$","IPV6ADDRESS7$","IPV6ADDRESS8$","IPV6ADDRESS9$","ZONEID$","UNRESERVED$$","RegExp","IPRIVATE$$","IPV6ADDRESS$","error","type","RangeError","errors","map","array","fn","result","mapDomain","string","parts","replace","regexSeparators","ucs2decode","output","counter","value","charCodeAt","extra","push","pctEncChar","chr","c","pctDecChars","newStr","i","il","parseInt","substr","String","fromCharCode","c2","c3","_normalizeComponentEncoding","components","protocol","decodeUnreserved","decStr","match","UNRESERVED","scheme","PCT_ENCODED","NOT_SCHEME","userinfo","NOT_USERINFO","host","NOT_HOST","path","NOT_PATH","NOT_PATH_NOSCHEME","query","NOT_QUERY","fragment","NOT_FRAGMENT","_stripLeadingZeros","_normalizeIPv4","matches","IPV4ADDRESS","address","_matches","_normalizeIPv6","IPV6ADDRESS","_matches2","zone","reverse","last","_address$toLowerCase$2","first","firstFields","lastFields","isLastFieldIPv4Address","test","fieldCount","lastFieldsStart","fields","allZeroFields","reduce","acc","field","index","lastLongest","longestZeroFields","sort","a","b","newHost","newFirst","newLast","parse","uriString","options","iri","IRI_PROTOCOL","URI_PROTOCOL","reference","URI_PARSE","NO_MATCH_IS_UNDEFINED","port","isNaN","indexOf","schemeHandler","SCHEMES","unicodeSupport","domainHost","punycode","toASCII","e","_recomposeAuthority","uriTokens","_","$1","$2","removeDotSegments","input","RDS1","RDS2","RDS3","im","RDS5","Error","s","serialize","toUnicode","authority","charAt","absolutePath","resolveComponents","base","relative","skipNormalization","tolerant","lastIndexOf","resolve","baseURI","relativeURI","schemelessOptions","normalize","uri","equal","uriA","uriB","escapeComponent","ESCAPE","unescapeComponent","maxInt","regexPunycode","regexNonASCII","floor","Math","stringFromCharCode","ucs2encode","fromCodePoint","apply","toConsumableArray","basicToDigit","codePoint","digitToBasic","digit","flag","adapt","delta","numPoints","firstTime","k","baseMinusTMin","decode","inputLength","n","bias","basic","j","oldi","w","t","baseMinusT","out","splice","encode","_step","Symbol","iterator","_iteratorNormalCompletion","_iterator","next","done","currentValue","basicLength","handledCPCount","m","_step2","_iteratorNormalCompletion2","_iterator2","handledCPCountPlusOne","_step3","_iteratorNormalCompletion3","_iterator3","q","qMinusT","handler","http","O","VCHAR$$","NOT_LOCAL_PART","NOT_HFNAME","NOT_HFVALUE","mailtoComponents","to","unknownHeaders","headers","hfields","hfield","toAddrs","subject","body","addr","toAddr","atIdx","localPart","domain","name","URN_PARSE","urnComponents","nid","nss","urnScheme","uriComponents","UUID","uuidComponents","uuid","https","mailto","urn"],"mappings":";4LAAA,SAAAA,gCAAyBC,EAAAzBC,MAAAC,GAAAAC,EAAAA,EAAAAA,EAAAAD,EAAAAC,MAAAAA,GAAAAC,UAAAAD,MACKH,EAAAKK,OAAAS,EAAAG,GACf,GAAAKL,EAAAK,GAAAGM,MAAAM,GAAAI,OAEvB,GADCC,GAAAKP,EAAAKK,OAAAS,EAChBG,EAAAI,EAAAGA,EAAAID,IAAAMC,IACpBA,GAAAKR,EAAAKQ,GAAAGF,MAAAM,GAAAI,YAExBC,GAAAMP,EAAAKO,GAAAID,MAAAM,GACnBN,EAAAKS,KAAAK,UAEVT,GAAAK,GAId,QAAAAU,GAAAuBC,SACf,MAAAQA,EAAAAM,IAGtB,QAAAAC,GAAAuBC,SACfA,KAAAMC,UAAAY,YAAAqB,OAAAND,EAAAAa,OAAAASE,OAAAOC,UAAAUC,SAAASC,KAAAKL,GAAAGM,MAAAM,KAAAKC,MAAAMD,MAAAM,KAAAKE,QAAAQC,cAGrI,QAAAAC,GAAA4BZ,SAChBA,GAAAIY,cAAAGZ,QAAAAC,GAAAAwBC,SAAAChBA,KAAAAQX,WAAAqB,OAAAARW,EAAAAgBA,YAAAAexB,OAAAAQwB,EAAA6B,gBAAAfA,GAAAAIpB,QAAAuBoB,EAAAAIN,OAAASM,EAAAAIC,aAAAeD,EAAAAIP,MAAAQO,GAAAAOxB,MAAAMe,UAAAAUV,MAAAMY,KAAAAKO,MAI3L,QAAAAE,GAAAuBC,EAAAgBC,MAAAChCJ,GAAAAMG,K

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S,2EAA6E0G,IAM/H1J,GAAKsQ,EAAKrQ,KAAK,WAGZ4P,cAGI,SAAUA,EAAmCnH,MAClDxD,GAAa2K,E
ACbC,EAAK9O,EAAQ6O,EAAiBC,OAChCA,EAAI,KACF,GAAI9P,GAAI,EAAAGD,EAAK+P,EAAGjQ,OAAAQ

G,EAAID,IAAMC,EAAG,IACtCuQ,GAAS1L,OAAOiL,EAAG9P,IACnBwQ,EAAQD,EAAOpF,YAAY,KAC3BsF,EAAaF,EAAOzQ,MAAM,EAAG0Q,GAAQ7M,QAAQ8B,GAAaL,GAAkBzB,QAAQ8B,GAAa1E,GAAa4C,QAAQ+L,GAAgBtL,GACxIsM,EAASH,EAAOzQ,MAAM0Q,EAAQ,SAItB9H,EAAQC,IAA2Ea,EAASkB,UAAUgG,GAAxFlH,EAASC,QAAQsC,EAAkB2E,EAAQhI,GAAS5H,eAC5E,MAAO4I,KACG1G,MAAQkC,EAAWlC,OAAS,wDAA2D0F,EAAQC,IAAAgB,UAAV,SAAuB,kBAAoBe,IAGzJ1J,GAAKyQ,EAAY,IAAAMC,IAGhB3K,KAAO+J,EAAG7P,KAAK,QAGrB+P,GAAUH,EAAAiBG,QAAUH,EAAAiBG,WAExDH,GAAAiBO,UAASJ,EAAAA,QAAqBH,EAAAiBO,SAChEP,EAAAiBQ,OAAAML,EAAAA,KAAAkBH,EAAAiBQ,SAExD3I,UACD,GAAMiJ,KAAAQX,GACdA,EAAAQW,KAAAUnB,GAAAEmB,MAChBxM,KACNwM,EAAAKhN,QAAAQ8B,GAAAaL,GAAAkBzB,QAAAQ8B,GAAAa1E,GAAAa4C,QAAAQgM,GAAAYvL,GAClG,IACA4L,EAAAQW,GAAAMhN,QAAAQ8B,GAAAaL,GAAAkBzB,QAAAQ8B,GAAAa1E,GAAAa4C,QAAAQiM,GAAAaxL,UAI3GsD,GAAAO7H,WACCqG,MAAAQwB,EAAAOzH,KAAAK,MAGzBiF,II/JH0L,GAAAY,kBAIZtB,WACI,YAED,SAAUpK,EAA0BwD,MACrClC,GAAAUtB,EAAAWa,MAAAQb,EAAAWa,KAAAKT,MAAAMsL,IACrDC,EAAgB3L,KAEhBsB,EAAAS,IACNhB,GAASkD,EAAAQlD,QAAUqL,EAAAcrL,QAAAU,MACnDsL,EAAAMtK,EAAAQ,GAAAG1F,cACjBiQ,EAAAMvK,EAAAQ,GACdwK,EAAAexL,EAAAf,KAAAyBkD,EAAAQoI,KAAAOA,GACxC1H,EAAgBC,EAAAQ2H,KAEhBF,IAAAMA,IACNC,IAAAMA,IACNhL,KAAAOzF,UAEjB8I,MACaA,EAAAcZ,MAAAMqI,EAAAenI,WAGtC1F,MAAAQ6N,EAAAc7N,OAAAS,+BAGvC6N,cAGI,SAAAUA,EAA6BnI,MAC5ClD,GAASkD,EAAAQlD,QAAAUqL,EAAAcrL,QAAAU,MACnDsL,EAAAMD,EAAAcC,IACpBE,EAAexL,EAAAf,KAAyBkD,EAAAQoI,KAAAOA,GACxC1H,EAAgBC,EAAAQ2H,EAE1B5H,OACaA,EAAAcqB,UAAUoG,EAAAenI,OAGlDuI,GAAAgBJ,EAChBE,EAAAMF,EAAAcE,aACZhL,MAAAU+K,GAAAOpI,EAAAQoI,KAAAvC,IAA8CC,EAEvCE,ICxDHC,GAAAO,2DAIP5B,WACI,iBAED,SAAUuB,EAA6BnI,MACxCyI,GAAAiBN,WACRO,KAAAOD,EAAAeJ,MACtBA,IAAAMzQ,UAEhBoI,EAAAQwC,UAAAciG,EAAAeC,MAAASD,EAAAeC,KAAAK9L,MAAAM4L,QAC7DlO,MAAAQmO,EAAAenO,OAAAS,sBAGzCmO,aAGI,SAAAUA,EAA+BzI,MAC9CmI,GAAAgBM,WAERJ,KAAAOI,EAAAeC,MAAAQ,IAAAItQ,cACzC+P,GC5BTxH,GAAAQkG,GAAAK/J,QAAAU+J,GAEvBlG,EACCQgI,GAAAM7L,QAAAU6L,GAExBhI,EACCQiI,GAAAO9L,QAAAU8L,GAEzBjI,EACCQkI,GAAAI/L,QAAAU+L,GAEtBlI,EACCQ+H,GAAAK5L,QAAAU4L","file":"dist/es5/uri.all.min.js","sourcesContent":["export
function merge(...sets:Array<string>):string {\n\tif (sets.length > 1) {\n\t\tsets[0] = sets[0].slice(0, -1);\n\t\tconst xl = sets.length - 1;\n\t\tfor (let x = 1; x < xl; ++x) {\n\t\t\tsets[x] = sets[x].slice(1, -1);\n\t\t}\n\t\tsets[xl] = sets[xl].slice(1);\n\t\treturn sets.join('');\n\t} else {\n\t\treturn sets[0];\n\t}\n}\n\nexport function subexp(str:string):string {\n\treturn \"(?:\" + str + \")\";\n}\n\nexport function typeOf(o:any):string {\n\treturn o === undefined ? \"undefined\" : (o === null ? \"null\" : Object.prototype.toString.call(o).split(\" \").pop().split(\"]\").shift().toLowerCase());\n}\n\nexport function toUpperCase(str:string):string {\n\treturn str.toUpperCase();\n}\n\nexport function toArray(obj:any):Array<any>
{\n\treturn obj !== undefined && obj !== null ? (obj instanceof Array ? obj : (typeof obj.length !== \"number\" || obj.split || obj.setInterval || obj.call ? [obj] : Array.prototype.slice.call(obj))) : [];\n}\n\n\nexport function assign(target: object, source: any): any {\n\tconst obj = target as any;\n\tif (source) {\n\t\tfor (const key in source) {\n\t\t\tobj[key] = source[key];\n\t\t}\n\t}\n\treturn obj;\n}","import { URIRegExps } from \"./uri\";\nimport { merge, subexp } from \"./util\";\n\nexport function buildExps(isIRI:boolean):URIRegExps {\n\tconst\n\t\tALPHA$$ = \"[A-Za-z]\",\n\t\tCR$ = \"[\\\\x0D]\",\n\t\tDIGIT$$ = \"[0-9]\",\n\t\tDQUOTE$$ = \"[\\\\x22]\",\n\t\tHEXDIG$$ = merge(DIGIT$$, \"[A-Fa-f]\"), //case-insensitive\n\t\tLF$$ = \"[\\\\x0A]\",\n\t\tSP$$ = \"[\\\\x20]\",\n\t\tPCT_ENCODED$ = subexp(subexp(\"%[EFef]\" + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$) + \"|\" + subexp(\"%[89A-Fa-f]\" + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$) + \"|\" + subexp(\"%\"
+ HEXDIG$$ + HEXDIG$$)), //expanded\n\t\tGEN_DELIMS$$ = \"[\\\\:\\\\/\\\\?\\\\#\\\\[\\\\]\\\\@]\",\n\t\tSUB_DELIMS$$ = \"[\\\\!\\\\$\\\\&\\\\'\\\\(\\\\)*\\\\+\\\\,\\\\;\\\\=]\",\n\t\tRESERVED$$ = merge(GEN_DELIMS$$, SUB_DELIMS$$),\n\t\tUCSCHAR$$ = isIRI ? \"[\\\\xA0-\\\\u200D\\\\u2010-\\\\u2029\\\\u202F-\\\\uD7FF\\\\uF900-\\\\uFDCF\\\\uFDF0-\\\\uFFEF]\" : \"[]\", //subset, excludes bidi control characters\n\t\tIPRIVATE$$ = isIRI ? \"[\\\\uE000-\\\\uF8FF]\" : \"[]\", //subset\n\t\tUNRESERVED$$ = merge(ALPHA$$, DIGIT$$, \"[\\\\-\\\\._\\\\~]\", UCSCHAR$$),\n\t\tSCHEME$ = subexp(ALPHA$$ +

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merge(ALPHA$$, DIGIT$$, \"[\\\\+\\\\-\\\\.]\") + \"*\"),\n\t\tUSERINFO$ = subexp(subexp(PCT_ENCODED$ +
\"|\" + merge(UNRESERVED$$, SUB_DELIMS$$, \"[\\\\:]\")) + \"*\"),\n\t\tDEC_OCTET$ =
subexp(subexp(\"25[0-5]\") + \"|\" + subexp(\"2[0-4]\" + DIGIT$$) + \"|\" + subexp(\"1\" + DIGIT$$ + DIGIT$$) +
\"|\" + subexp(\"[1-9]\" + DIGIT$$) + \"|\" + DIGIT$$),\n\t\tDEC_OCTET_RELAXED$ = subexp(subexp(\"25[0-
5]\")
 + \"|\" + subexp(\"2[0-4]\" + DIGIT$$) + \"|\" + subexp(\"1\" + DIGIT$$ + DIGIT$$) + \"|\" + subexp(\"0?[1-9]\" +
DIGIT$$) + \"|0?0?\" + DIGIT$$),  //relaxed parsing rules\n\t\tIPV4ADDRESS$ =
subexp(DEC_OCTET_RELAXED$ + \"\\\\.\" + DEC_OCTET_RELAXED$ + \"\\\\.\" +
DEC_OCTET_RELAXED$ + \"\\\\.\" + DEC_OCTET_RELAXED$),\n\t\tH16$ = subexp(HEXDIG$$ +
\"{1,4}\"),\n\t\tLS32$ = subexp(subexp(H16$ + \"\\\\:\" + H16$) + \"|\" + IPV4ADDRESS$),\n\t\tIPV6ADDRESS1$
= subexp(                    subexp(H16$ + \"\\\\:\") + \"{6}\" + LS32$), //          6(
h16 \":\" ) ls32\n\t\tIPV6ADDRESS2$ = subexp(                    \"\\\\:\\\\:\" + subexp(H16$ + \"\\\\:\")
+ \"{5}\" + LS32$), //          \"::\" 5( h16 \":\" ) ls32\n\t\tIPV6ADDRESS3$ = subexp(subexp(
    H16$) + \"?\\\\:\\\\:\" + subexp(H16$ + \"\\\\:\") + \"{4}\" + LS32$), //[          h16 ] \"::\"
 4( h16 \":\" ) ls32\n\t\tIPV6ADDRESS4$ = subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,1}\" + H16$) +
\"?\\\\:\\\\:\" + subexp(H16$ + \"\\\\:\") + \"{3}\" + LS32$), //[ *1( h16 \":\" ) h16 ] \"::\" 3( h16 \":\" )
ls32\n\t\tIPV6ADDRESS5$ = subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,2}\" + H16$) + \"?\\\\:\\\\:\" +
subexp(H16$ + \"\\\\:\") + \"{2}\" + LS32$), //[ *2( h16 \":\" ) h16 ] \"::\" 2( h16 \":\" ) ls32\n\t\tIPV6ADDRESS6$
= subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,3}\" + H16$) + \"?\\\\:\\\\:\" +      H16$ + \"\\\\:\"       + LS32$),
//[ *3( h16 \":\" ) h16 ] \"::\"    h16 \":\"   ls32\n\t\tIPV6ADDRESS7$ = subexp(subexp(subexp(H16$ + \"\\\\:\") +
\"{0,4}\" + H16$) + \"?\\\\:\\\\:\"                    + LS32$), //[ *4( h16 \":\" ) h16 ] \"::\"
ls32\n\t\tIPV6ADDRESS8$ = subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,5}\" + H16$) + \"?\\\\:\\\\:\"
        + H16$ ), //[ *5( h16 \":\" ) h16 ] \"::\"          h16\n\t\tIPV6ADDRESS9$
 = subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,6}\" + H16$) + \"?\\\\:\\\\:\"                    ), //[ *6( h16
\":\" ) h16 ] \"::\"\n\t\tIPV6ADDRESS$ = subexp([IPV6ADDRESS1$, IPV6ADDRESS2$, IPV6ADDRESS3$,
IPV6ADDRESS4$, IPV6ADDRESS5$, IPV6ADDRESS6$, IPV6ADDRESS7$, IPV6ADDRESS8$,
IPV6ADDRESS9$].join(\"|\")),\n\t\tZONEID$ = subexp(subexp(UNRESERVED$$ + \"|\" + PCT_ENCODED$) +
\"+\"),  //RFC 6874\n\t\tIPV6ADDRZ$ = subexp(IPV6ADDRESS$ + \"\\\\%25\" + ZONEID$),  //RFC
6874\n\t\tIPV6ADDRZ_RELAXED$ = subexp(IPV6ADDRESS$ + subexp(\"\\\\%25|\\\\%(?!\" + HEXDIG$$ +
\"{2})\") + ZONEID$),  //RFC 6874, with relaxed parsing rules\n\t\tIPVFUTURE$ = subexp(\"[vV]\" + HEXDIG$$
+ \"+\\\\.\" + merge(UNRESERVED$$, SUB_DELIMS$$, \"[\\\\:]\") + \"+\"),\n\t\tIP_LITERAL$ = subexp(\"\\\\[\"
+ subexp(IPV6ADDRZ_RELAXED$ + \"|\" + IPV6ADDRESS$ + \"|\" + IPVFUTURE$) + \"\\\\]\"),  //RFC
6874\n\t\tREG_NAME$ = subexp(subexp(PCT_ENCODED$ + \"|\" + merge(UNRESERVED$$,
SUB_DELIMS$$)) +
 \"*\"),\n\t\tHOST$ = subexp(IP_LITERAL$ + \"|\" + IPV4ADDRESS$ + \"(?!\" + REG_NAME$ + \")\" + \"|\" +
REG_NAME$),\n\t\tPORT$ = subexp(DIGIT$$ + \"*\"),\n\t\tAUTHORITY$ = subexp(subexp(USERINFO$ +
\"@\") + \"?\" + HOST$ + subexp(\"\\\\:\" + PORT$) + \"?\"),\n\t\tPCHAR$ = subexp(PCT_ENCODED$ + \"|\" +
merge(UNRESERVED$$, SUB_DELIMS$$, \"[\\\\:\\\\@]\")),\n\t\tSEGMENT$ = subexp(PCHAR$ +
\"*\"),\n\t\tSEGMENT_NZ$ = subexp(PCHAR$ + \"+\"),\n\t\tSEGMENT_NZ_NC$ =
subexp(subexp(PCT_ENCODED$ + \"|\" + merge(UNRESERVED$$, SUB_DELIMS$$, \"[\\\\@]\")) +
\"+\"),\n\t\tPATH_ABEMPTY$ = subexp(subexp(\"\\\\/\" + SEGMENT$) + \"*\"),\n\t\tPATH_ABSOLUTE$ =
subexp(\"\\\\/\" + subexp(SEGMENT_NZ$ + PATH_ABEMPTY$) + \"?\"),  //simplified\n\t\tPATH_NOSCHEME$
= subexp(SEGMENT_NZ_NC$ + PATH_ABEMPTY$),  //simplified\n\t\tPATH_ROOTLESS$ =
subexp(SEGMENT_NZ$ + PATH_ABEMPTY$),  //simplified\n\t\tPATH_EMPTY$ = \"(?!\" + PCHAR$ +
\")\",\n\t\tPATH$ = subexp(PATH_ABEMPTY$ + \"|\" + PATH_ABSOLUTE$ + \"|\" + PATH_NOSCHEME$
 + \"|\" + PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$),\n\t\tQUERY$ = subexp(subexp(PCHAR$ + \"|\" +
merge(\"[\\\\/\\\\?]\", IPRIVATE$$)) + \"*\"),\n\t\tFRAGMENT$ = subexp(subexp(PCHAR$ + \"|[\\\\/\\\\?]\") +
\"*\"),\n\t\tHIER_PART$ = subexp(subexp(\"\\\\/\\\\/\" + AUTHORITY$ + PATH_ABEMPTY$) + \"|\" +
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PATH_ABSOLUTE$ + \"|\" + PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$),\n\t\tURI$ = subexp(SCHEME$ + \"\\\\:\" + HIER_PART$ + subexp(\"\\\\?\" + QUERY$) + \"?\" + subexp(\"\\\\#\" + FRAGMENT$) + \"?\"),\n\t\tRELATIVE_PART$ = subexp(subexp(\"\\\\/\\\\/\" + AUTHORITY$ + PATH_ABEMPTY$) + \"|\" + PATH_ABSOLUTE$ + \"|\" + PATH_NOSCHEME$ + \"|\" + PATH_EMPTY$),\n\t\tRELATIVE$ = subexp(RELATIVE_PART$ + subexp(\"\\\\?\" + QUERY$) + \"?\" + subexp(\"\\\\#\" + FRAGMENT$) + \"?\"),\n\t\tURI_REFERENCE$ = subexp(URI$ + \"|\" + RELATIVE$),\n\t\tABSOLUTE_URI$ = subexp(SCHEME$ + \"\\\\:\" + HIER_PART$ + subexp(\"\\\\?\" + QUERY$) + \"?\"),\n\n\t\tGENERIC_REF$ = \"^(\" + SCHEME$ + \")\\\\:\" + subexp(subexp(\"\\\\/\\\\/(\"
 + subexp(\"(\" + USERINFO$ + \")@\") + \"?(\" + HOST$ + \")\" + subexp(\"\\\\:(\" + PORT$ + \")\") + \"?)\") + \"?(\" + PATH_ABEMPTY$ + \"|\" + PATH_ABSOLUTE$ + \"|\" + PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$ + \")\") + subexp(\"\\\\?(\" + QUERY$ + \")\") + \"?\" + subexp(\"\\\\#(\" + FRAGMENT$ + \")\") + \"?$\",\n\t\tRELATIVE_REF$ = \"^(){0}\" + subexp(subexp(\"\\\\/\\\\/(\" + subexp(\"(\" + USERINFO$ + \")@\") + \"?(\" + HOST$ + \")\" + subexp(\"\\\\:(\" + PORT$ + \")\") + \"?)\") + \"?(\" + PATH_ABEMPTY$ + \"|\" + PATH_ABSOLUTE$ + \"|\" + PATH_NOSCHEME$ + \"|\" + PATH_EMPTY$ + \")\") + subexp(\"\\\\?(\" + QUERY$ + \")\") + \"?\" + subexp(\"\\\\#(\" + FRAGMENT$ + \")\") + \"?$\",\n\t\tABSOLUTE_REF$ = \"^(\" + SCHEME$ + \")\\\\:\" + subexp(subexp(\"\\\\/\\\\/(\" + subexp(\"(\" + USERINFO$ + \")@\") + \"?(\" + HOST$ + \")\" + subexp(\"\\\\:(\" + PORT$ + \")\") + \"?)\") + \"?(\" + PATH_ABEMPTY$ + \"|\" + PATH_ABSOLUTE$ + \"|\" + PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$ + \")\") + subexp(\"\\\\?(\"
 + QUERY$ + \")\") + \"?$\",\n\t\tSAMEDOC_REF$ = \"^\" + subexp(\"\\\\#(\" + FRAGMENT$ + \")\") + \"?$\",\n\t\tAUTHORITY_REF$ = \"^\" + subexp(\"(\" + USERINFO$ + \")@\") + \"?(\" + HOST$ + \")\" + subexp(\"\\\\:(\" + PORT$ + \")\") + \"?$\"\n\t;\n\n\treturn {\n\t\tNOT_SCHEME : new RegExp(merge(\"[^]\", ALPHA$$, DIGIT$$, \"[\\\\+\\\\-\\\\.]\"), \"g\"),\n\t\tNOT_USERINFO : new RegExp(merge(\"[^\\\\%\\\\:]\", UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tNOT_HOST : new RegExp(merge(\"[^\\\\%\\\\[\\\\]\\\\:]\", UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tNOT_PATH : new RegExp(merge(\"[^\\\\%\\\\/\\\\:\\\\@]\", UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tNOT_PATH_NOSCHEME : new RegExp(merge(\"[^\\\\%\\\\/\\\\@]\", UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tNOT_QUERY : new RegExp(merge(\"[^\\\\%]\", UNRESERVED$$, SUB_DELIMS$$, \"[\\\\:\\\\@\\\\/\\\\?]\", IPRIVATE$$), \"g\"),\n\t\tNOT_FRAGMENT : new RegExp(merge(\"[^\\\\%]\", UNRESERVED$$, SUB_DELIMS$$, \"[\\\\:\\\\@\\\\/\\\\?]\"), \"g\"),\n\t\tESCAPE
 : new RegExp(merge(\"[^]\", UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tUNRESERVED : new RegExp(UNRESERVED$$, \"g\"),\n\t\tOTHER_CHARS : new RegExp(merge(\"[^\\\\%]\", UNRESERVED$$, RESERVED$$), \"g\"),\n\t\tPCT_ENCODED : new RegExp(PCT_ENCODED$, \"g\"),\n\t\tIPV4ADDRESS : new RegExp(\"^(\" + IPV4ADDRESS$ + \")$\"),\n\t\tIPV6ADDRESS : new RegExp(\"^\\\\[?(\" + IPV6ADDRESS$ + \")\" + subexp(subexp(\"\\\\%25|\\\\%(?!\" + HEXDIG$$ + \"{2})\") + \"(\" + ZONEID$ + \")\") + \"?\\\\]?$\")
//RFC 6874, with relaxed parsing rules\n\t};\n}\n\nexport default buildExps(false);\n","'use strict';\n\n/** Highest positive signed 32-bit float value */\nconst maxInt = 2147483647; // aka. 0x7FFFFFFF or 2^31-1\n\n/** Bootstring parameters */\nconst base = 36;\nconst tMin = 1;\nconst tMax = 26;\nconst skew = 38;\nconst damp = 700;\nconst initialBias = 72;\nconst initialN = 128; // 0x80\nconst delimiter = '-'; // '\\x2D'\n\n/** Regular expressions */\nconst regexPunycode = /^xn--/;\nconst regexNonASCII
 = /[^\\0-\\x7E]/; // non-ASCII chars\nconst regexSeparators = /[\\x2E\\u3002\\uFF0E\\uFF61]/g; // RFC 3490 separators\n\n/** Error messages */\nconst errors = {\n\t'overflow': 'Overflow: input needs wider integers to process',\n\t'not-basic': 'Illegal input >= 0x80 (not a basic code point)',\n\t'invalid-input': 'Invalid input'\n};\n\n/** Convenience shortcuts */\nconst baseMinusTMin = base - tMin;\nconst floor = Math.floor;\nconst stringFromCharCode = String.fromCharCode;\n\n/*--------------------------------------------------------------------------*/\n\n/**\n * A generic error utility function.\n * @private\n * @param {String} type The error type.\n * @returns {Error} Throws a `RangeError` with the applicable error message.\n */\nfunction error(type) {\n\tthrow new RangeError(errors[type]);\n}\n\n/**\n * A generic `Array#map` utility function.\n * @private\n * @param {Array} array The array to iterate over.\n * @param {Function} callback The function that gets called for every
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array\n * item.\n * @returns {Array} A new array of values returned by the callback function.\n */\nfunction map(array, fn) {\n\tconst result = [];\n\tlet length = array.length;\n\twhile (length--) {\n\t\tresult[length] = fn(array[length]);\n\t}\n\treturn result;\n}\n\n/**\n * A simple `Array#map`-like wrapper to work with domain name strings or email\n * addresses.\n * @private\n * @param {String} domain The domain name or email address.\n * @param {Function} callback The function that gets called for every\n * character.\n * @returns {Array} A new string of characters returned by the callback\n * function.\n */\nfunction mapDomain(string, fn) {\n\tconst parts = string.split('@');\n\tlet result = '';\n\tif (parts.length > 1) {\n\t\t// In email addresses, only the domain name should be punycoded. Leave\n\t\t// the local part (i.e. everything up to `@`) intact.\n\t\tresult = parts[0] + '@';\n\t\tstring = parts[1];\n\t}\n\t// Avoid `split(regex)` for IE8 compatibility. See #17.\n\tstring = string.replace(regexSeparators, '\\x2E');\n\tconst labels = string.split('.');\n\tconst encoded = map(labels, fn).join('.');\n\treturn result + encoded;\n}\n\n/**\n * Creates an array containing the numeric code points of each Unicode\n * character in the string. While JavaScript uses UCS-2 internally,\n * this function will convert a pair of surrogate halves (each of which\n * UCS-2 exposes as separate characters) into a single code point,\n * matching UTF-16.\n * @see `punycode.ucs2.encode`\n * @see <https://mathiasbynens.be/notes/javascript-encoding>\n * @memberOf punycode.ucs2\n * @name decode\n * @param {String} string The Unicode input string (UCS-2).\n * @returns {Array} The new array of code points.\n */\nfunction ucs2decode(string) {\n\tconst output = [];\n\tlet counter = 0;\n\tconst length = string.length;\n\twhile (counter < length) {\n\t\tconst value = string.charCodeAt(counter++);\n\t\tif (value >= 0xD800 && value <= 0xDBFF && counter < length) {\n\t\t\t// It's a high surrogate, and there is a next character.\n\t\t\tconst extra = string.charCodeAt(counter++);\n\t\t\tif ((extra & 0xFC00) == 0xDC00) { // Low surrogate.\n\t\t\t\toutput.push(((value & 0x3FF) << 10) + (extra & 0x3FF) + 0x10000);\n\t\t\t} else {\n\t\t\t\t// It's an unmatched surrogate; only append this code unit, in case the\n\t\t\t\t// next code unit is the high surrogate of a surrogate pair.\n\t\t\t\toutput.push(value);\n\t\t\t\tcounter--;\n\t\t\t}\n\t\t} else {\n\t\t\toutput.push(value);\n\t\t}\n\t}\n\treturn output;\n}\n\n/**\n * Creates a string based on an array of numeric code points.\n * @see `punycode.ucs2.decode`\n * @memberOf punycode.ucs2\n * @name encode\n * @param {Array} codePoints The array of numeric code points.\n * @returns {String} The new Unicode string (UCS-2).\n */\nconst ucs2encode = array => String.fromCodePoint(...array);\n\n/**\n * Converts a basic code point into a digit/integer.\n * @see `digitToBasic()`\n * @private\n * @param {Number} codePoint The basic numeric code point value.\n * @returns {Number} The numeric value of a basic code point (for use in\n * representing integers) in the range `0` to `base - 1`, or `base` if\n * the code point does not represent a value.\n */\nconst basicToDigit = function(codePoint) {\n\tif (codePoint - 0x30 < 0x0A) {\n\t\treturn codePoint - 0x16;\n\t}\n\tif (codePoint - 0x41 < 0x1A) {\n\t\treturn codePoint - 0x41;\n\t}\n\tif (codePoint - 0x61 < 0x1A) {\n\t\treturn codePoint - 0x61;\n\t}\n\treturn base;\n};\n\n/**\n * Converts a digit/integer into a basic code point.\n * @see `basicToDigit()`\n * @private\n * @param {Number} digit The numeric value of a basic code point.\n * @returns {Number} The basic code point whose value (when used for\n * representing integers) is `digit`, which needs to be in the range\n * `0` to `base - 1`. If `flag` is non-zero, the uppercase form is\n * used; else, the lowercase form is used. The behavior is undefined\n * if `flag` is non-zero and `digit` has no uppercase form.\n */\nconst digitToBasic = function(digit, flag) {\n\t// 0..25 map to ASCII a..z or A..Z\n\t// 26..35 map to ASCII 0..9\n\treturn digit + 22 + 75 * (digit < 26) - ((flag != 0) << 5);\n};\n\n/**\n * Bias adaptation function as per section 3.4 of RFC 3492.\n * https://tools.ietf.org/html/rfc3492#section-3.4\n * @private\n */\nconst adapt = function(delta, numPoints, firstTime) {\n\tlet k = 0;\n\tdelta = firstTime ? floor(delta / damp) : delta >> 1;\n\tdelta += floor(delta / numPoints);\n\tfor (/* no initialization */; delta > baseMinusTMin * tMax >> 1; k += base) {\n\t\tdelta = floor(delta / baseMinusTMin);\n\t}\n\treturn floor(k + (baseMinusTMin + 1) * delta / (delta + skew));\n};\n\n/**\n * Converts a Punycode string of ASCII-only symbols to a string of Unicode\n * symbols.\n * @memberOf punycode\n * @param {String} input The Punycode string of ASCII-only symbols.\n * @returns {String} The resulting string of Unicode symbols.\n */\nconst decode = function(input) {\n\t// Don't use UCS-2.\n\tconst output = [];\n\tconst inputLength = input.length;\n\tlet i = 0;\n\tlet n = initialN;\n\tlet bias = initialBias;\n\n\t// Handle the basic code points: let `basic` be the number of input code\n\t// points before the last delimiter, or `0` if

there is none, then copy\n\t// the first basic code points to the output.\n\n\tlet basic = input.lastIndexOf(delimiter);\n\tif (basic < 0) {\n\t\tbasic = 0;\n\t}\n\n\tfor (let j = 0; j < basic; ++j) {\n\t\t// if it's not a basic code point\n\t\tif (input.charCodeAt(j) >= 0x80) {\n\t\t\terror('not-basic');\n\t\t}\n\t\toutput.push(input.charCodeAt(j));\n\t}\n\n\t// Main decoding loop: start just after the last delimiter if any basic code\n\t// points were copied; start at the beginning otherwise.\n\n\tfor (let index = basic > 0 ? basic + 1 : 0; index < inputLength; /* no final expression */) {\n\n\t\t// `index` is the index of the next character to be consumed.\n\t\t// Decode a generalized variable-length integer into `delta`,\n\t\t// which gets added to `i`. The overflow checking is easier\n\t\t// if we increase `i` as we go, then subtract off its starting\n\t\t// value at the end to obtain `delta`.\n\t\tlet oldi = i;\n\t\tfor (let w = 1, k = base; /* no condition */; k += base) {\n\n\t\t\tif (index >= inputLength) {\n\t\t\t\terror('invalid-input');\n\t\t\t}\n\n\t\t\tconst digit = basicToDigit(input.charCodeAt(index++));\n\n\t\t\tif (digit >= base || digit > floor((maxInt - i) / w)) {\n\t\t\t\terror('overflow');\n\t\t\t}\n\n\t\t\ti += digit * w;\n\t\t\tconst t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);\n\n\t\t\tif (digit < t) {\n\t\t\t\tbreak;\n\t\t\t}\n\n\t\tconst baseMinusT = base - t;\n\t\tif (w > floor(maxInt / baseMinusT)) {\n\t\t\terror('overflow');\n\t\t}\n\n\t\tw *= baseMinusT;\n\n\t}\n\n\tconst out = output.length + 1;\n\tbias = adapt(i - oldi, out, oldi == 0);\n\n\t// `i` was supposed to wrap around from `out` to `0`,\n\t// incrementing `n` each time, so we'll fix that now:\n\tif (floor(i / out) > maxInt - n) {\n\t\terror('overflow');\n\t}\n\n\tn += floor(i / out);\n\ti %= out;\n\n\t// Insert `n` at position `i` of the output.\n\toutput.splice(i++, 0, n);\n\n}\n\nreturn String.fromCodePoint(...output);\n};\n\n/**\n * Converts a string of Unicode symbols (e.g. a domain name label) to a\n * Punycode string of ASCII-only symbols.\n * @memberOf punycode\n * @param {String} input The string of Unicode symbols.\n * @returns {String} The resulting Punycode string of ASCII-only symbols.\n */\nconst encode = function(input) {\n\tconst output = [];\n\n\t// Convert the input in UCS-2 to an array of Unicode code points.\n\tinput = ucs2decode(input);\n\n\t// Cache the length.\n\tlet inputLength = input.length;\n\n\t// Initialize the state.\n\tlet n = initialN;\n\tlet delta = 0;\n\tlet bias = initialBias;\n\n\t// Handle the basic code points.\n\tfor (const currentValue of input) {\n\t\tif (currentValue < 0x80) {\n\t\t\toutput.push(stringFromCharCode(currentValue));\n\t\t}\n\t}\n\n\tlet basicLength = output.length;\n\tlet handledCPCount = basicLength;\n\n\t// `handledCPCount` is the number of code points that have been handled;\n\t// `basicLength` is the number of basic code points.\n\n\t// Finish the basic string with a delimiter unless it's empty.\n\tif (basicLength) {\n\t\toutput.push(delimiter);\n\t}\n\n\t// Main encoding loop:\n\twhile (handledCPCount < inputLength) {\n\n\t\t// All non-basic code points < n have been handled already. Find the next\n\t\t// larger one:\n\t\tlet m = maxInt;\n\t\tfor (const currentValue of input) {\n\t\t\tif (currentValue >= n && currentValue < m) {\n\t\t\t\tm = currentValue;\n\t\t\t}\n\t\t}\n\n\t\t// Increase `delta` enough to advance the decoder's <n,i> state to <m,0>,\n\t\t// but guard against overflow.\n\t\tconst handledCPCountPlusOne = handledCPCount + 1;\n\t\tif (m - n > floor((maxInt - delta) / handledCPCountPlusOne)) {\n\t\t\terror('overflow');\n\t\t}\n\n\t\tdelta += (m - n) * handledCPCountPlusOne;\n\t\tn = m;\n\n\t\tfor (const currentValue of input) {\n\t\t\tif (currentValue < n && ++delta > maxInt) {\n\t\t\t\terror('overflow');\n\t\t\t}\n\t\t\tif (currentValue == n) {\n\t\t\t\t// Represent delta as a generalized variable-length integer.\n\t\t\t\tlet q = delta;\n\t\t\t\tfor (let k = base; /* no condition */; k += base) {\n\t\t\t\t\tconst t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);\n\t\t\t\t\tif (q < t) {\n\t\t\t\t\t\tbreak;\n\t\t\t\t\t}\n\t\t\t\t\tconst qMinusT = q - t;\n\t\t\t\t\tconst baseMinusT = base - t;\n\t\t\t\t\toutput.push(\n\t\t\t\t\t\tstringFromCharCode(digitToBasic(t + qMinusT % baseMinusT, 0))\n\t\t\t\t\t);\n\t\t\t\t\tq = floor(qMinusT / baseMinusT);\n\t\t\t\t}\n\n\t\t\t\toutput.push(stringFromCharCode(digitToBasic(q, 0)));\n\t\t\t\tbias = adapt(delta, handledCPCountPlusOne, handledCPCount == basicLength);\n\t\t\t\tdelta = 0;\n\t\t\t\t++handledCPCount;\n\t\t\t}\n\t\t}\n\n\t\t++delta;\n\t\t++n;\n\n\t}\n\treturn output.join('');\n};\n\n/**\n * Converts a Punycode string representing a domain name or an email address\n * to Unicode. Only the Punycoded parts of the input will be converted, i.e.\n * it doesn't matter if you call it on a string that has already been\n * converted to Unicode.\n * @memberOf punycode\n * @param {String} input The Punycoded domain name or

email address to\n * convert to Unicode.\n * @returns {String} The Unicode representation of the given Punycode\n * string.\n */\nconst toUnicode = function(input) {\n\treturn mapDomain(input, function(string) {\n\t\treturn regexPunycode.test(string)\n\t\t\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 regexNonASCII.test(string)\n\t\t\t? 'xn--' + encode(string)\n\t\t\t: string;\n\t});};\n\n/*--*/\n\n/** Define the public API */\nconst punycode = {\n\t/**\n\t * A string representing the current Punycode.js version number.\n\t * @memberOf punycode\n\t * @type String\n\t */\n\t'version': '2.1.0',\n\t/**\n\t * An object of methods to convert from JavaScript's internal character\n\t * representation (UCS-2) to Unicode code points, and back.\n\t * @see <https://mathiasbynens.be/notes/javascript-encoding>\n\t * @memberOf punycode\n\t * @type Object\n\t */\n\t'ucs2': {\n\t\t'decode': ucs2decode,\n\t\t'encode': ucs2encode\n\t},\n\t'decode': decode,\n\t'encode': encode,\n\t'toASCII': toASCII,\n\t'toUnicode': toUnicode\n};\n\nexport default punycode;\n","/**\n * URI.js\n *\n * @fileoverview An RFC 3986 compliant, scheme extendable URI parsing/validating/resolving library for JavaScript.\n * @author Gary Court\n * @see http://github.com/garycourt/uri-js\n */\n\n/**\n * Copyright 2011 Gary Court. All rights reserved.\n *\n * Redistribution and use in source and binary forms, with or without modification, are\n * permitted provided that the following conditions are met:\n *\n *   1. Redistributions of source code must retain the above copyright notice, this list of\n *   conditions and the following disclaimer.\n *\n *   2. Redistributions in binary form must reproduce the above copyright notice, this list\n *   of conditions and the following disclaimer in the documentation and/or other materials\n *   provided with the distribution.\n *\n * THIS SOFTWARE IS PROVIDED BY GARY COURT ``AS IS'' AND ANY EXPRESS OR IMPLIED\n * WARRANTIES,
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 { toUpperCase, typeOf, assign } from \"./util\";\n\nexport interface URIComponents {\n\tscheme?:string;\n\tuserinfo?:string;\n\thost?:string;\n\tport?:number|string;\n\tpath?:string;\n\tquery?:string;\n\tfragment?:string;\n\treference?:string;\n\terror?:string;\n}\n\nexport interface URIOptions {\n\tscheme?:string;\n\treference?:string;\n\ttolerant?:boolean;\n\tabsolutePath?:boolean;\n\tiri?:boolean;\n\tunicodeSupport?:boolean;\n\tdomainHost?:boolean;\n}\n\nexport interface URISchemeHandler<Components extends URIComponents = URIComponents, Options extends URIOptions = URIOptions, ParentComponents extends URIComponents = URIComponents> {\n\tscheme:string;\n\tparse(components:ParentComponents, options:Options):Components;\n\tserialize(components:Components, options:Options):ParentComponents;\n\tunicodeSupport?:boolean;\n\tdomainHost?:boolean;\n\tabsolutePath?:boolean;\n}\n\nexport interface URIRegExps {\n\tNOT_SCHEME : RegExp,\n\tNOT_USERINFO : RegExp,\n\tNOT_HOST :

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RegExp,\n\tNOT_PATH : RegExp,\n\tNOT_PATH_NOSCHEME : RegExp,\n\tNOT_QUERY :
RegExp,\n\tNOT_FRAGMENT : RegExp,\n\tESCAPE : RegExp,\n\tUNRESERVED :
RegExp,\n\tOTHER_CHARS : RegExp,\n\tPCT_ENCODED : RegExp,\n\tIPV4ADDRESS :
RegExp,\n\tIPV6ADDRESS : RegExp,\n}\n\nexport const SCHEMES:{[scheme:string]:URISchemeHandler} =
{};\n\nexport function pctEncChar(chr:string):string {\n\tconst c = chr.charCodeAt(0);\n\tlet e:string;\n\n\tif (c < 16)
e = \"%0\" + c.toString(16).toUpperCase();\n\telse if (c < 128) e = \"%\" + c.toString(16).toUpperCase();\n\telse if (c
< 2048) e = \"%\" + ((c >> 6) | 192).toString(16).toUpperCase() + \"%\" + ((c & 63) |
128).toString(16).toUpperCase();\n\telse e = \"%\" + ((c >> 12) | 224).toString(16).toUpperCase() + \"%\" + (((c >>
6) & 63) | 128).toString(16).toUpperCase() + \"%\" + ((c & 63) | 128).toString(16).toUpperCase();\n\n\treturn
e;\n}\n\nexport function pctDecChars(str:string):string {\n\tlet newStr = \"\";\n\tlet i = 0;\n\tconst il =
str.length;\n\n\twhile
 (i < il) {\n\t\tconst c = parseInt(str.substr(i + 1, 2), 16);\n\n\t\tif (c < 128) {\n\t\t\tnewStr +=
String.fromCharCode(c);\n\t\t\ti += 3;\n\t\t}\n\t\telse if (c >= 194 && c < 224) {\n\t\t\tif ((il - i) >= 6) {\n\t\t\t\tconst
c2 = parseInt(str.substr(i + 4, 2), 16);\n\t\t\t\tnewStr += String.fromCharCode(((c & 31) << 6) | (c2 & 63));\n\t\t\t}
else {\n\t\t\t\tnewStr += str.substr(i, 6);\n\t\t\t}\n\t\t\ti += 6;\n\t\t}\n\t\telse if (c >= 224) {\n\t\tif ((il - i) >= 9)
{\n\t\t\tconst c2 = parseInt(str.substr(i + 4, 2), 16);\n\t\t\tconst c3 = parseInt(str.substr(i + 7, 2), 16);\n\t\t\tnewStr
+= String.fromCharCode(((c & 15) << 12) | ((c2 & 63) << 6) | (c3 & 63));\n\t\t} else {\n\t\t\tnewStr +=
str.substr(i, 9);\n\t\t}\n\t\ti += 9;\n\t}\n\telse {\n\t\tnewStr += str.substr(i, 3);\n\t\ti +=
3;\n\t}\n\t}\n\n\treturn newStr;\n}\n\nfunction _normalizeComponentEncoding(components:URIComponents,
protocol:URIRegExps) {\n\tfunction decodeUnreserved(str:string):string {\n\t\tconst
 decStr = pctDecChars(str);\n\t\treturn (!decStr.match(protocol.UNRESERVED) ? str : decStr);\n\t}\n\n\tif
(components.scheme) components.scheme = String(components.scheme).replace(protocol.PCT_ENCODED,
decodeUnreserved).toLowerCase().replace(protocol.NOT_SCHEME, \"\");\n\tif (components.userinfo !==
undefined) components.userinfo = String(components.userinfo).replace(protocol.PCT_ENCODED,
decodeUnreserved).replace(protocol.NOT_USERINFO, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\tif (components.host !== undefined) components.host =
String(components.host).replace(protocol.PCT_ENCODED,
decodeUnreserved).toLowerCase().replace(protocol.NOT_HOST, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\tif (components.path !== undefined) components.path =
String(components.path).replace(protocol.PCT_ENCODED, decodeUnreserved).replace((components.scheme ?
protocol.NOT_PATH : protocol.NOT_PATH_NOSCHEME), pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\tif (components.query
 !== undefined) components.query = String(components.query).replace(protocol.PCT_ENCODED,
decodeUnreserved).replace(protocol.NOT_QUERY, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\tif (components.fragment !== undefined) components.fragment =
String(components.fragment).replace(protocol.PCT_ENCODED,
decodeUnreserved).replace(protocol.NOT_FRAGMENT, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\n\treturn components;\n};\n\nfunction _stripLeadingZeros(str:string):string {\n\treturn
str.replace(/^0*(.*)/, \"$1\") || \"0\";\n}\n\nfunction _normalizeIPv4(host:string, protocol:URIRegExps):string
{\n\tconst matches = host.match(protocol.IPV4ADDRESS) || [];\n\tconst [, address] = matches;\n\t\n\tif (address)
{\n\t\treturn address.split(\".\").map(_stripLeadingZeros).join(\".\");\n\t} else {\n\t\treturn host;\n\t}\n}\n\nfunction
_normalizeIPv6(host:string, protocol:URIRegExps):string {\n\tconst matches =
host.match(protocol.IPV6ADDRESS) || [];\n\tconst [,
 address, zone] = matches;\n\n\tif (address) {\n\t\tconst [last, first] =
address.toLowerCase().split('::').reverse();\n\t\tconst firstFields = first ? first.split(\":\").map(_stripLeadingZeros) :
[];\n\t\tconst lastFields = last.split(\":\").map(_stripLeadingZeros);\n\t\tconst isLastFieldIPv4Address =
protocol.IPV4ADDRESS.test(lastFields[lastFields.length - 1]);\n\t\tconst fieldCount = isLastFieldIPv4Address ? 7 :
8;\n\t\tconst lastFieldsStart = lastFields.length - fieldCount;\n\t\tconst fields = Array<string>(fieldCount);\n\n\t\tfor
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(let x = 0; x < fieldCount; ++x) {\n\t\t\tfields[x] = firstFields[x] || lastFields[lastFieldsStart + x] || '';\n\t\t}\n\n\tif (isLastFieldIPv4Address) {\n\t\t\tfields[fieldCount - 1] = _normalizeIPv4(fields[fieldCount - 1], protocol);\n\t\t}\n\n\tconst allZeroFields = fields.reduce<Array<{index:number,length:number}>>((acc, field, index) => {\n\t\t\tif (!field || field === \"0\") {\n\t\t\t\tconst lastLongest = acc[acc.length - 1];\n\t\t\t\tif (lastLongest && lastLongest.index + lastLongest.length === index) {\n\t\t\t\t\tlastLongest.length++;\n\t\t\t\t} else {\n\t\t\t\t\tacc.push({ index, length : 1 });\n\t\t\t\t}\n\t\t\t}\n\t\t\treturn acc;\n\t}, []);\n\n\tconst longestZeroFields = allZeroFields.sort((a, b) => b.length - a.length)[0];\n\n\tlet newHost:string;\n\tif (longestZeroFields && longestZeroFields.length > 1) {\n\t\t\tconst newFirst = fields.slice(0, longestZeroFields.index) ;\n\t\t\tconst newLast = fields.slice(longestZeroFields.index + longestZeroFields.length);\n\t\t\tnewHost = newFirst.join(\":\") + \"::\" + newLast.join(\":\");\n\t\t} else {\n\t\t\tnewHost = fields.join(\":\");\n\t\t}\n\n\tif (zone) {\n\t\t\tnewHost += \"%\" + zone;\n\t\t}\n\n\treturn newHost;\n\t} else {\n\treturn host;\n\t}\n}\n\nconst URI_PARSE = /^(?:([^:\\/?#]+):)?(?:\\/\\/((?:([^\\/?#@]*)@)?(\\[[^\\/?#\\]]+\\]|[^\\/?#:]*)(?:\\:(\\d*))?))?([^?#]*)(?:\\?([^#]*))?(?:#((?:.|\\n|\\r)*))?/i;\nconst NO_MATCH_IS_UNDEFINED = (<RegExpMatchArray>(\"\").match(/(){0}/))[1] === undefined;\n\nexport function parse(uriString:string, options:URIOptions = {}):URIComponents {\n\tconst components:URIComponents = {};\n\tconst protocol = (options.iri !== false ? IRI_PROTOCOL : URI_PROTOCOL);\n\n\tif (options.reference === \"suffix\") uriString = (options.scheme ? options.scheme + \":\" : \"\") + \"//\" + uriString;\n\n\tconst matches = uriString.match(URI_PARSE);\n\n\tif (matches) {\n\t\tif (NO_MATCH_IS_UNDEFINED) {\n\t\t\t//store each component\n\t\t\tcomponents.scheme = matches[1];\n\t\t\tcomponents.userinfo = matches[3];\n\t\t\tcomponents.host = matches[4];\n\t\t\tcomponents.port = parseInt(matches[5], 10);\n\t\t\tcomponents.path = matches[6] || \"\";\n\t\t\tcomponents.query = matches[7];\n\t\t\tcomponents.fragment = matches[8];\n\n\t\t\t//fix port number\n\t\t\tif (isNaN(components.port)) {\n\t\t\t\tcomponents.port = matches[5];\n\t\t\t}\n\t\t} else {  //IE FIX for improper RegExp matching\n\t\t\t//store each component\n\t\t\tcomponents.scheme = matches[1] || undefined;\n\t\t\tcomponents.userinfo = (uriString.indexOf(\"@\") !== -1 ? matches[3] : undefined);\n\t\t\tcomponents.host = (uriString.indexOf(\"//\") !== -1 ? matches[4] : undefined);\n\t\t\tcomponents.port = parseInt(matches[5], 10);\n\t\t\tcomponents.path = matches[6] || \"\";\n\t\t\tcomponents.query = (uriString.indexOf(\"?\") !== -1 ? matches[7] : undefined);\n\t\t\tcomponents.fragment = (uriString.indexOf(\"#\") !== -1 ? matches[8] : undefined);\n\n\t\t\t//fix port number\n\t\t\tif (isNaN(components.port)) {\n\t\t\t\tcomponents.port = (uriString.match(/\\/\\/(?:.|\\n)*\\:(?:\\/|\\?|\\#|$)/) ? matches[4] : undefined);\n\t\t\t}\n\t\t}\n\n\tif (components.host) {\n\t\t//normalize IP hosts\n\t\tcomponents.host = _normalizeIPv6(_normalizeIPv4(components.host, protocol), protocol);\n\t}\n\n\t//determine reference type\n\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} else if (components.scheme === undefined) {\n\t\tcomponents.reference = \"relative\";\n\t} else if (components.fragment === undefined) {\n\t\tcomponents.reference = \"absolute\";\n\t} else {\n\t\tcomponents.reference = \"uri\";\n\t}\n\n\t//check for reference errors\n\tif (options.reference && options.reference !== \"suffix\" && options.reference !== components.reference) {\n\t\tcomponents.error = components.error || \"URI is not a \" + options.reference + \" reference.\";\n\t}\n\n\t//find scheme handler\n\tconst schemeHandler = SCHEMES[(options.scheme || components.scheme || \"\").toLowerCase()];\n\n\t//check if scheme can't handle IRIs\n\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//convert Unicode IDN -> ASCII IDN\n\t\t\ttry {\n\t\t\t\tcomponents.host = punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase());\n\t\t\t} catch (e) {\n\t\t\t\tcomponents.error = components.error || \"Host's domain name can not be converted to ASCII via punycode: \" + e;\n\t\t\t}\n\t\t}\n\t\t//convert IRI -> URI\n\t\t_normalizeComponentEncoding(components, URI_PROTOCOL);\n\t} else {\n\t\t//normalize encodings\n\t\t_normalizeComponentEncoding(components,
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protocol);\n\t\t}\n\n\t\t//perform scheme specific parsing\n\t\tif (schemeHandler && schemeHandler.parse) {\n\t\t\tschemeHandler.parse(components, options);\n\t\t}\n\t} else {\n\t\tcomponents.error = components.error || \"URI can not be parsed.\";\n\t}\n\n\treturn components;\n};\n\nfunction _recomposeAuthority(components:URIComponents, options:URIOptions):string|undefined {\n\tconst protocol = (options.iri !== false ? IRI_PROTOCOL : URI_PROTOCOL);\n\tconst uriTokens:Array<string> = [];\n\n\tif (components.userinfo !== undefined) {\n\t\turiTokens.push(components.userinfo);\n\t\turiTokens.push(\"@\");\n\t}\n\n\tif (components.host !== undefined) {\n\t\t//normalize IP hosts, add brackets and escape zone separator for IPv6\n\t\turiTokens.push(_normalizeIPv6(_normalizeIPv4(String(components.host), protocol), protocol).replace(protocol.IPV6ADDRESS, (_, $1, $2) => \"[\" + $1 + ($2 ? \"%25\" + $2 : \"\") + \"]\"));\n\t}\n\n\tif (typeof components.port === \"number\") {\n\t\turiTokens.push(\":\");\n\t\turiTokens.push(components.port.toString(10));\n\t}\n\n\treturn uriTokens.length ? uriTokens.join(\"\") : undefined;\n};\n\nconst RDS1 = /^\\.\\.?\\//;\nconst RDS2 = /^\\/\\.(\\/|$)/;\nconst RDS3 = /^\\/\\.\\.(\\/|$)/;\nconst RDS4 = /^\\.\\.?$/;\nconst RDS5 = /^\\/?(?:.|\\n)*?(?=\\/|$)/;\n\nexport function removeDotSegments(input:string):string {\n\tconst output:Array<string> = [];\n\n\twhile (input.length) {\n\t\tif (input.match(RDS1)) {\n\t\t\tinput = input.replace(RDS1, \"\");\n\t\t} else if (input.match(RDS2)) {\n\t\t\tinput = input.replace(RDS2, \"/\");\n\t\t} else if (input.match(RDS3)) {\n\t\t\tinput = input.replace(RDS3, \"/\");\n\t\t\toutput.pop();\n\t\t} else if (input === \".\" || input === \"..\") {\n\t\t\tinput = \"\";\n\t\t} else {\n\t\t\tconst im = input.match(RDS5);\n\t\t\tif (im) {\n\t\t\t\tconst s = im[0];\n\t\t\t\tinput = input.slice(s.length);\n\t\t\t\toutput.push(s);\n\t\t\t} else {\n\t\t\t\tthrow new Error(\"Unexpected dot segment condition\");\n\t\t\t}\n\t\t}\n\t}\n\n\treturn output.join(\"\");\n};\n\nexport function serialize(components:URIComponents, options:URIOptions = {}):string {\n\tconst protocol = (options.iri ? IRI_PROTOCOL : URI_PROTOCOL);\n\tconst uriTokens:Array<string> = [];\n\n\t//find scheme handler\n\tconst schemeHandler = SCHEMES[(options.scheme || components.scheme || \"\").toLowerCase()];\n\n\t//perform scheme specific serialization\n\tif (schemeHandler && schemeHandler.serialize) schemeHandler.serialize(components, options);\n\n\tif (components.host) {\n\t\t//if host component is an IPv6 address\n\t\tif (protocol.IPV6ADDRESS.test(components.host)) {\n\t\t\t//TODO: normalize IPv6 address as per RFC 5952\n\t\t}\n\n\t\t//if host component is a domain name\n\t\telse if (options.domainHost || (schemeHandler && schemeHandler.domainHost)) {\n\t\t\t//convert IDN via punycode\n\t\t\ttry {\n\t\t\t\tcomponents.host = (!options.iri ? punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase()) : punycode.toUnicode(components.host));\n\t\t\t} catch (e) {\n\t\t\t\tcomponents.error = components.error || \"Host's domain name can not be converted to \" + (!options.iri ? \"ASCII\" : \"Unicode\") + \" via punycode: \" + e;\n\t\t\t}\n\t\t}\n\t}\n\n\t//normalize encoding\n\t_normalizeComponentEncoding(components, protocol);\n\n\tif (options.reference !== \"suffix\" && components.scheme) {\n\t\turiTokens.push(components.scheme);\n\t\turiTokens.push(\":\");\n\t}\n\n\tconst authority = _recomposeAuthority(components, options);\n\tif (authority !== undefined) {\n\t\tif (options.reference !== \"suffix\") {\n\t\t\turiTokens.push(\"//\");\n\t\t}\n\n\t\turiTokens.push(authority);\n\n\t\tif (components.path && components.path.charAt(0) !== \"/\") {\n\t\t\turiTokens.push(\"/\");\n\t\t}\n\t}\n\n\tif (components.path !== undefined) {\n\t\tlet s = components.path;\n\n\t\tif (!options.absolutePath && (!schemeHandler || !schemeHandler.absolutePath)) {\n\t\t\ts = removeDotSegments(s);\n\t\t}\n\n\t\tif (authority === undefined) {\n\t\t\ts = s.replace(/^\\/\\//, \"/%2F\");  //don't allow the path to start with \"//\"\n\t\t}\n\n\t\turiTokens.push(s);\n\t}\n\n\tif (components.query !== undefined) {\n\t\turiTokens.push(\"?\");\n\t\turiTokens.push(components.query);\n\t}\n\n\tif (components.fragment !== undefined) {\n\t\turiTokens.push(\"#\");\n\t\turiTokens.push(components.fragment);\n\t}\n\n\treturn uriTokens.join(\"\");  //merge tokens into a string\n};\n\nexport function resolveComponents(base:URIComponents, relative:URIComponents, options:URIOptions = {}, skipNormalization?:boolean):URIComponents {\n\tconst target:URIComponents = {};\n\n\tif (!skipNormalization) {\n\t\tbase = parse(serialize(base, options), options);  //normalize base
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components\n\t\trelative = parse(serialize(relative, options), options); //normalize relative components\n\t}\n\toptions = options || {};\n\n\tif (!options.tolerant && relative.scheme) {\n\t\ttarget.scheme = relative.scheme;\n\t\t//target.authority = relative.authority;\n\t\ttarget.userinfo = relative.userinfo;\n\t\ttarget.host = relative.host;\n\t\ttarget.port = relative.port;\n\t\ttarget.path = removeDotSegments(relative.path || \"\");\n\t\ttarget.query = relative.query;\n\t} else {\n\t\tif (relative.userinfo !== undefined || relative.host !== undefined || relative.port !== undefined) {\n\t\t\t//target.authority = relative.authority;\n\t\t\ttarget.userinfo = relative.userinfo;\n\t\t\ttarget.host
= relative.host;\n\t\t\ttarget.port = relative.port;\n\t\t\ttarget.path = removeDotSegments(relative.path || \"\");\n\t\t\ttarget.query = relative.query;\n\t\t} else {\n\t\t\tif (!relative.path) {\n\t\t\t\ttarget.path = base.path;\n\t\t\t\tif (relative.query !== undefined) {\n\t\t\t\t\ttarget.query = relative.query;\n\t\t\t\t} else {\n\t\t\t\t\ttarget.query = base.query;\n\t\t\t\t}\n\t\t} else {\n\t\t\tif (relative.path.charAt(0) === \"/\") {\n\t\t\t\ttarget.path = removeDotSegments(relative.path);\n\t\t\t} else {\n\t\t\t\tif ((base.userinfo !== undefined || base.host !== undefined || base.port !== undefined) && !base.path) {\n\t\t\t\t\ttarget.path = \"/\" + relative.path;\n\t\t\t\t} else if (!base.path) {\n\t\t\t\t\ttarget.path = relative.path;\n\t\t\t\t} else {\n\t\t\t\t\ttarget.path = base.path.slice(0, base.path.lastIndexOf(\"/\") + 1) + relative.path;\n\t\t\t\t}\n\t\t\t\ttarget.path = removeDotSegments(target.path);\n\t\t\t}\n\t\t\ttarget.query
= relative.query;\n\t\t}\n\t\t//target.authority = base.authority;\n\t\ttarget.userinfo = base.userinfo;\n\t\ttarget.host = base.host;\n\t\ttarget.port = base.port;\n\t}\n\ttarget.scheme = base.scheme;\n\t}\n\ntarget.fragment = relative.fragment;\n\nreturn 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\treturn serialize(parse(uri, options), options);\n\t} else if (typeOf(uri) === \"object\") {\n\t\treturn parse(serialize(<URIComponents>uri,
options), options);\n\t}\n\nreturn 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\nif (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\nreturn uriA === uriB;\n};\n\nexport function escapeComponent(str:string, options?:URIOptions):string {\n\treturn str && str.toString().replace((!options || !options.iri ? URI_PROTOCOL.ESCAPE : IRI_PROTOCOL.ESCAPE), pctEncChar);\n};\n\nexport function unescapeComponent(str:string, options?:URIOptions):string
{\n\treturn str && str.toString().replace((!options || !options.iri ? URI_PROTOCOL.PCT_ENCODED : IRI_PROTOCOL.PCT_ENCODED), pctDecChars);\n};\n","import { URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\nimport { pctEncChar, pctDecChars, unescapeComponent } from \"../uri\";\nimport punycode from \"punycode\";\nimport { merge, subexp, toUpperCase, toArray } from \"../util\";\n\nexport interface MailtoHeaders {\n\t[hfname:string]:string\n}\n\nexport interface MailtoComponents extends URIComponents {\n\tto:Array<string>,\n\theaders?:MailtoHeaders,\n\tsubject?:string,\n\tbody?:string\n}\n\nconst O:MailtoHeaders = {};\nconst isIRI = true;\n\n//RFC 3986\nconst UNRESERVED$$ = \"[A-Za-z0-9\\\\-\\\\.\\\\_\\\\~\" + (isIRI ? \"\\\\xA0-\\\\u200D\\\\u2010-\\\\u2029\\\\u202F-\\\\uD7FF\\\\uF900-\\\\uFDCF\\\\uFDF0-\\\\uFFEF\" : \"\") + \"]\";\nconst HEXDIG$$ = \"[0-9A-Fa-f]\"; //case-insensitive\nconst PCT_ENCODED$ = subexp(subexp(\"%[EFef]\" + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$
+ \"%\" + HEXDIG$$ + HEXDIG$$) + \"|\" + subexp(\"%[89A-Fa-f]\" + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$) + \"|\" + subexp(\"%\" + HEXDIG$$ + HEXDIG$$)); //expanded\n\n//RFC 5322, except these

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symbols as per RFC 6068: @ : / ? # [ ] & ; =\n//const ATEXT$$ = \"[A-Za-z0-9\\\\!\\\\#\\\\$\\\\%\\\\&\\\\'\\\\*\\\\+\\\\-\\\\/\\\\=\\\\?\\\\^\\\\_\\\\`\\\\{\\\\|\\\\}\\\\~]\";\n//const WSP$$ = \"[\\\\x20\\\\x09]\";\n//const OBS_QTEXT$$ = \"[\\\\x01-\\\\x08\\\\x0B\\\\x0C\\\\x0E-\\\\x1F\\\\x7F]\";  //(%d1-8 / %d11-12 / %d14-31 / %d127)\n//const QTEXT$$ = merge(\"[\\\\x21\\\\x23-\\\\x5B\\\\x5D-\\\\x7E]\", OBS_QTEXT$$);  //%d33 / %d35-91 / %d93-126 / obs-qtext\n//const VCHAR$$ = \"[\\\\x21-\\\\x7E]\";\n//const WSP$$ = \"[\\\\x20\\\\x09]\";\n//const OBS_QP$ = subexp(\"\\\\\\\\\" + merge(\"[\\\\x00\\\\x0D\\\\x0A]\", OBS_QTEXT$$));  //%d0 / CR / LF / obs-qtext\n//const FWS$ = subexp(subexp(WSP$$ + \"*\" + \"\\\\x0D\\\\x0A\") + \"?\" + WSP$$ + \"+\");\n//const QUOTED_PAIR$ = subexp(subexp(\"\\\\\\\\\"
 + subexp(VCHAR$$ + \"|\" + WSP$$)) + \"|\" + OBS_QP$);\n//const QUOTED_STRING$ = subexp('\\\\\"' + subexp(FWS$ + \"?\" + QCONTENT$) + \"*\" + FWS$ + \"?\" + '\\\\\"');\nconst ATEXT$$ = \"[A-Za-z0-9\\\\!\\\\$\\\\%\\\\'\\\\*\\\\+\\\\-\\\\^\\\\_\\\\`\\\\{\\\\|\\\\}\\\\~]\";\nconst QTEXT$$ = \"[\\\\!\\\\$\\\\%\\\\'\\\\(\\\\)\\\\*\\\\+\\\\,\\\\-\\\\.0-9\\\\<\\\\>A-Z\\\\x5E-\\\\x7E]\";\nconst VCHAR$$ = merge(QTEXT$$, \"[\\\\\\\\\\\\\\\\]\");\nconst DOT_ATOM_TEXT$ = subexp(ATEXT$$ + \"+\" + subexp(\"\\\\.\" + ATEXT$$ + \"+\") + \"*\");\nconst QUOTED_PAIR$ = subexp(\"\\\\\\\\\" + VCHAR$$);\nconst QCONTENT$ = subexp(QTEXT$$ + \"|\" + QUOTED_PAIR$);\nconst QUOTED_STRING$ = subexp('\\\\\"' + QCONTENT$ + \"*\" + '\\\\\"');\n\n//RFC 6068\nconst DTEXT_NO_OBS$$ = \"[\\\\x21-\\\\x5A\\\\x5E-\\\\x7E]\";  //%d33-90 / %d94-126\nconst SOME_DELIMS$$ = \"[\\\\!\\\\$\\\\'\\\\(\\\\)\\\\*\\\\+\\\\,\\\\;\\\\:\\\\@]\";\nconst QCHAR$ = subexp(UNRESERVED$$ + \"|\" + PCT_ENCODED$ + \"|\" + SOME_DELIMS$$);\nconst
 DOMAIN$ = subexp(DOT_ATOM_TEXT$ + \"|\" + \"\\\\[\" + DTEXT_NO_OBS$$ + \"*\" + \"\\\\]\");\nconst LOCAL_PART$ = subexp(DOT_ATOM_TEXT$ + \"|\" + QUOTED_STRING$);\nconst ADDR_SPEC$ = subexp(LOCAL_PART$ + \"\\\\@\" + DOMAIN$);\nconst TO$ = subexp(ADDR_SPEC$ + subexp(\"\\\\,\" + ADDR_SPEC$) + \"*\");\nconst HFNAME$ = subexp(QCHAR$ + \"*\");\nconst HFVALUE$ = HFNAME$;\nconst HFIELD$ = subexp(HFNAME$ + \"\\\\=\" + HFVALUE$);\nconst HFIELDS2$ = subexp(HFIELD$ + subexp(\"\\\\&\" + HFIELD$) + \"*\");\nconst HFIELDS$ = subexp(\"\\\\?\" + HFIELDS2$);\nconst MAILTO_URI = new RegExp(\"^mailto\\\\:\" + TO$ + \"?\" + HFIELDS$ + \"?$\");\n\nconst UNRESERVED = new RegExp(UNRESERVED$$, \"g\");\nconst PCT_ENCODED = new RegExp(PCT_ENCODED$, \"g\");\nconst NOT_LOCAL_PART = new RegExp(merge(\"[^]\", ATEXT$$, \"[\\\\.]\", '[\\\\\"]', VCHAR$$), \"g\");\nconst NOT_DOMAIN = new RegExp(merge(\"[^]\", ATEXT$$, \"[\\\\.]\", \"[\\\\[]\", DTEXT_NO_OBS$$, \"[\\\\]]\"), \"g\");\nconst NOT_HFNAME = new RegExp(merge(\"[^]\",
 UNRESERVED$$, SOME_DELIMS$$), \"g\");\nconst NOT_HFVALUE = NOT_HFNAME;\nconst TO = new RegExp(\"^\" + TO$ + \"$\");\nconst HFIELDS = new RegExp(\"^\" + HFIELDS2$ + \"$\");\n\nfunction decodeUnreserved(str:string):string {\n\tconst decStr = pctDecChars(str);\n\treturn (!decStr.match(UNRESERVED) ? str : decStr);\n}\n\nconst handler:URISchemeHandler<MailtoComponents> =  {\n\tscheme : \"mailto\",\n\n\tparse : function (components:URIComponents, options:URIOptions):MailtoComponents {\n\t\tconst mailtoComponents = components as MailtoComponents;\n\t\tconst to = mailtoComponents.to = (mailtoComponents.path ? mailtoComponents.path.split(\",\") : []);\n\t\tmailtoComponents.path = undefined;\n\n\t\tif (mailtoComponents.query) {\n\t\t\tlet unknownHeaders = false\n\t\t\tconst headers:MailtoHeaders = {};\n\t\t\tconst hfields = mailtoComponents.query.split(\"&\");\n\n\t\t\tfor (let x = 0, xl = hfields.length; x < xl; ++x) {\n\t\t\t\tconst hfield = hfields[x].split(\"=\");\n\n\t\t\t\tswitch (hfield[0])
 {\n\t\t\t\tcase \"to\":\n\t\t\t\t\tconst toAddrs = hfield[1].split(\",\");\n\t\t\t\t\tfor (let x = 0, xl = toAddrs.length; x < xl; ++x) {\n\t\t\t\t\tto.push(toAddrs[x]);\n\t\t\t\t}\n\t\t\t\tbreak;\n\t\t\tcase \"subject\":\n\t\t\t\tmailtoComponents.subject = unescapeComponent(hfield[1], options);\n\t\t\t\tbreak;\n\t\t\tcase \"body\":\n\t\t\t\tmailtoComponents.body = unescapeComponent(hfield[1], options);\n\t\t\t\tbreak;\n\t\t\tdefault:\n\t\t\t\tunknownHeaders = true;\n\t\t\t\theaders[unescapeComponent(hfield[0], options)] = unescapeComponent(hfield[1], options);\n\t\t\t\tbreak;\n\t\t}\n\t}\n\n\tif (unknownHeaders) mailtoComponents.headers = headers;\n\t}\n\n\tmailtoComponents.query = undefined;\n\n\tfor (let x = 0, xl = to.length; x < xl; ++x) {\n\t\tconst addr = to[x].split(\"@\");\n\n\t\taddr[0] = unescapeComponent(addr[0]);\n\n\t\tif
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(!options.unicodeSupport) {\n\t\t\t\t//convert Unicode IDN ->
ASCII IDN\n\t\t\t\ttry {\n\t\t\t\t\taddr[1] = punycode.toASCII(unescapeComponent(addr[1], options).toLowerCase());\n\t\t\t\t} catch (e) {\n\t\t\t\t\tmailtoComponents.error = mailtoComponents.error || \"Email address's domain name can not be converted to ASCII via punycode: \" + e;\n\t\t\t\t}\n\t\t\t} else {\n\t\t\t\taddr[1] = unescapeComponent(addr[1], options).toLowerCase();\n\t\t\t}\n\n\t\tto[x] = addr.join(\"@\");\n\t\t}\n\n\treturn mailtoComponents;\n\t},\n\nserialize : function (mailtoComponents:MailtoComponents, options:URIOptions):URIComponents {\n\tconst components = mailtoComponents as URIComponents;\n\tconst to = toArray(mailtoComponents.to);\n\tif (to) {\n\t\tfor (let x = 0, xl = to.length; x < xl; ++x) {\n\t\t\tconst toAddr = String(to[x]);\n\t\t\tconst atIdx = toAddr.lastIndexOf(\"@\");\n\t\t\tconst localPart = (toAddr.slice(0, atIdx)).replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_LOCAL_PART, pctEncChar);\n\t\t\tlet
domain = toAddr.slice(atIdx + 1);\n\n\t\t//convert IDN via punycode\n\t\ttry {\n\t\t\tdomain = (!options.iri ? punycode.toASCII(unescapeComponent(domain, options).toLowerCase()) : punycode.toUnicode(domain));\n\t\t}
catch (e) {\n\t\t\tcomponents.error = components.error || \"Email address's domain name can not be converted to \" + (!options.iri ? \"ASCII\" : \"Unicode\") + \" via punycode: \" + e;\n\t\t}\n\n\tto[x] = localPart + \"@\" + domain;\n\t}\n\n\tcomponents.path = to.join(\",\");\n\t}\n\n\tconst headers = mailtoComponents.headers = mailtoComponents.headers || {};\n\n\tif (mailtoComponents.subject) headers[\"subject\"] = mailtoComponents.subject;\n\tif (mailtoComponents.body) headers[\"body\"] = mailtoComponents.body;\n\n\tconst fields = [];\n\tfor (const name in headers) {\n\t\tif (headers[name] !== O[name]) {\n\t\t\tfields.push(\n\t\t\t\tname.replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_HFNAME,
pctEncChar) +\n\t\t\t\t\"=\" +\n\t\t\t\theaders[name].replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_HFVALUE, pctEncChar)\n\t\t\t);\n\t\t}\n\t}\n\tif (fields.length) {\n\t\tcomponents.query = fields.join(\"&\");\n\t}\n\n\treturn components;\n\t}\n}\n\nexport default handler;","import { URIRegExps } from \"./uri\";\nimport { buildExps } from \"./regexps-uri\";\n\nexport default buildExps(true);\n","import { URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\n\nconst handler:URISchemeHandler = {\n\tscheme : \"http\",\n\n\tdomainHost : true,\n\n\tparse : function (components:URIComponents, options:URIOptions):URIComponents {\n\t\t//report missing host\n\t\tif (!components.host) {\n\t\t\tcomponents.error = components.error || \"HTTP URIs must have a host.\";\n\t\t}\n\n\treturn components;\n\t},\n\n\tserialize : function (components:URIComponents, options:URIOptions):URIComponents {\n\t\t//normalize the
default port\n\tif (components.port === (String(components.scheme).toLowerCase() !== \"https\" ? 80 : 443) || components.port === \"\") {\n\t\tcomponents.port = undefined;\n\t}\n\t\n\t//normalize the empty path\n\tif (!components.path) {\n\t\tcomponents.path = \"/\";\n\t}\n\n\t//NOTE: We do not parse query strings for HTTP URIs\n\t//as WWW Form Url Encoded query strings are part of the HTML4+ spec,\n\t//and not the HTTP spec.\n\n\treturn components;\n\t}\n};\n\nexport default handler;","import { URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\nimport http from \"./http\";\n\nconst handler:URISchemeHandler = {\n\tscheme : \"https\",\n\n\tdomainHost : http.domainHost,\n\tparse : http.parse,\n\tserialize : http.serialize\n}\n\nexport default handler;","import { URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\nimport { pctEncChar, SCHEMES } from \"../uri\";\n\nexport interface URNComponents extends URIComponents {\n\tnid?:string;\n\tnss?:string;\n}\n\nexport
interface URNOptions extends URIOptions {\n\tnid?:string;\n}\n\nconst NID$ = \"(?:[0-9A-Za-z][0-9A-Za-z\\\\-]{1,31})\";\nconst PCT_ENCODED$ = \"(?:\\\\%[0-9A-Fa-f]{2})\";\nconst TRANS$$ = \"[0-9A-Za-z\\\\(\\\\)\\\\+\\\\,\\\\-\\\\.\\\\:\\\\=\\\\@\\\\;\\\\$\\\\_\\\\!\\\\*\\\\'\\\\/\\\\?\\\\#]\";\nconst NSS$ = \"(?:(?:\" + PCT_ENCODED$ + \"|\" + TRANS$$ + \")+)\";\nconst URN_SCHEME = new RegExp(\"^urn\\\\:(\" + NID$ + \")$\");\nconst URN_PATH = new RegExp(\"^(\" + NID$ + \")\\\\:(\" + NSS$ + \")$\");\nconst URN_PARSE = /^([^\\:]+)\\:(.*)/;\nconst URN_EXCLUDED = /[\\x00-\\x20\\\\\\\"\\&\\<\\>\\[\\]\\^\\`\\{\\|\\}\\~\\x7F-

\\xFF]/g;\n\n//RFC 2141\nconst handler:URISchemeHandler<URNComponents,URNOptions> = {\n\tscheme : \"urn\",\n\n\tparse : function (components:URIComponents, options:URNOptions):URNComponents {\n\t\tconst matches = components.path && components.path.match(URN_PARSE);\n\t\tlet urnComponents = components as URNComponents;\n\n\t\tif (matches) {\n\t\t\tconst
 scheme = options.scheme || urnComponents.scheme || \"urn\";\n\t\t\tconst nid = matches[1].toLowerCase();\n\t\t\tconst nss = matches[2];\n\t\t\tconst urnScheme = `${scheme}:${options.nid || nid}`;\n\t\t\tconst schemeHandler = SCHEMES[urnScheme];\n\n\t\t\turnComponents.nid = nid;\n\t\t\turnComponents.nss = nss;\n\t\t\turnComponents.path = undefined;\n\n\t\t\tif (schemeHandler) {\n\t\t\t\turnComponents = schemeHandler.parse(urnComponents, options) as URNComponents;\n\t\t\t}\n\t\t} else {\n\t\t\turnComponents.error = urnComponents.error || \"URN can not be parsed.\";\n\t\t}\n\n\treturn urnComponents;\n\t},\n\n\tserialize : function (urnComponents:URNComponents, options:URNOptions):URIComponents {\n\t\tconst scheme = options.scheme || urnComponents.scheme || \"urn\";\n\t\tconst nid = urnComponents.nid;\n\t\tconst urnScheme = `${scheme}:${options.nid || nid}`;\n\t\tconst schemeHandler = SCHEMES[urnScheme];\n\n\t\tif (schemeHandler) {\n\t\t\turnComponents = schemeHandler.serialize(urnComponents,
 options) as URNComponents;\n\t\t}\n\n\tconst uriComponents = urnComponents as URIComponents;\n\tconst nss = urnComponents.nss;\n\turiComponents.path = `${nid || options.nid}:${nss}`;\n\n\treturn uriComponents;\n\t},\n};\n\nexport default handler;","import { URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\nimport { URNComponents } from \"./urn\";\nimport { SCHEMES } from \"../uri\";\n\nexport interface UUIDComponents extends URNComponents {\n\tuuid?: string;\n}\n\nconst UUID = /^[0-9A-Fa-f]{8}(?:\\-[0-9A-Fa-f]{4}){3}\\-[0-9A-Fa-f]{12}$/;\nconst UUID_PARSE = /^[0-9A-Fa-f\\-]{36}/;\n\n//RFC 4122\nconst handler:URISchemeHandler<UUIDComponents, URIOptions, URNComponents> = {\n\tscheme : \"urn:uuid\",\n\n\tparse : function (urnComponents:URNComponents, options:URIOptions):UUIDComponents {\n\t\tconst uuidComponents = urnComponents as UUIDComponents;\n\t\tuuidComponents.uuid = uuidComponents.nss;\n\t\tuuidComponents.nss = undefined;\n\n\t\tif (!options.tolerant &&
 (!uuidComponents.uuid || !uuidComponents.uuid.match(UUID))) {\n\t\t\tuuidComponents.error = uuidComponents.error || \"UUID is not valid.\";\n\t\t}\n\n\treturn uuidComponents;\n\t},\n\n\tserialize : function (uuidComponents:UUIDComponents, options:URIOptions):URNComponents {\n\t\tconst urnComponents = uuidComponents as URNComponents;\n\t\t//normalize UUID\n\t\turnComponents.nss = (uuidComponents.uuid || \"\").toLowerCase();\n\t\treturn urnComponents;\n\t},\n};\n\nexport default handler;","import { SCHEMES } from \"./uri\";\n\nimport http from \"./schemes/http\";\nSCHEMES[http.scheme] = http;\n\nimport https from \"./schemes/https\";\nSCHEMES[https.scheme] = https;\n\nimport mailto from \"./schemes/mailto\";\nSCHEMES[mailto.scheme] = mailto;\n\nimport urn from \"./schemes/urn\";\nSCHEMES[urn.scheme] = urn;\n\nimport uuid from \"./schemes/urn-uuid\";\nSCHEMES[uuid.scheme] = uuid;\n\nexport * from \"./uri\";\n"]}

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

{"version":3,"file":"uri.all.js","sources":["../../src/index.ts","../../src/schemes/urn-uuid.ts","../../src/schemes/urn.ts","../../src/schemes/mailto.ts","../../src/schemes/https.ts","../../src/schemes/http.ts","../../src/uri.ts","../../node_modules/punycode/punycode.es6.js","../../src/regexps-iri.ts","../../src/regexps-uri.ts","../../src/util.ts"],"sourcesContent":["import { SCHEMES } from \"./uri\";\n\nimport http from \"./schemes/http\";\nSCHEMES[http.scheme] = http;\n\nimport https from \"./schemes/https\";\nSCHEMES[https.scheme] = https;\n\nimport mailto from \"./schemes/mailto\";\nSCHEMES[mailto.scheme] = mailto;\n\nimport urn from

\"./schemes/urn\";\nSCHEMES[urn.scheme] = urn;\n\nimport uuid from \"./schemes/urn-uuid\";\nSCHEMES[uuid.scheme] = uuid;\n\nexport * from \"./uri\";\n","import { URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\nimport { URNComponents } from \"./urn\";\nimport { SCHEMES } from \"../uri\";\n\nexport interface UUIDComponents extends URNComponents {\n\tuuid?: string;\n}\n\nconst UUID = /^[0-9A-Fa-f]{8}(?:\\-[0-9A-Fa-f]{4}){3}\\-[0-9A-Fa-f]{12}$/;\nconst UUID_PARSE = /^[0-9A-Fa-f\\-]{36}/;\n\n//RFC 4122\nconst handler:URISchemeHandler<UUIDComponents, URIOptions, URNComponents> = {\n\tscheme : \"urn:uuid\",\n\n\tparse : function (urnComponents:URNComponents, options:URIOptions):UUIDComponents {\n\t\tconst uuidComponents = urnComponents as UUIDComponents;\n\t\tuuidComponents.uuid = uuidComponents.nss;\n\t\tuuidComponents.nss = undefined;\n\n\t\tif (!options.tolerant && (!uuidComponents.uuid || !uuidComponents.uuid.match(UUID))) {\n\t\t\tuuidComponents.error = uuidComponents.error || \"UUID is not valid.\";\n\t\t}\n\n\t\treturn uuidComponents;\n\t},\n\n\tserialize : function (uuidComponents:UUIDComponents, options:URIOptions):URNComponents {\n\t\tconst urnComponents = uuidComponents as URNComponents;\n\t\t//normalize UUID\n\t\turnComponents.nss = (uuidComponents.uuid || \"\").toLowerCase();\n\t\treturn urnComponents;\n\t},\n};\n\nexport default handler;","import { URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\nimport { pctEncChar, SCHEMES } from \"../uri\";\n\nexport interface URNComponents extends URIComponents {\n\tnid?:string;\n\tnss?:string;\n}\n\nexport interface URNOptions extends URIOptions {\n\tnid?:string;\n}\n\nconst NID$ = \"(?:[0-9A-Za-z][0-9A-Za-z\\\\-]{1,31})\";\nconst PCT_ENCODED$ = \"(?:\\\\%[0-9A-Fa-f]{2})\";\nconst TRANS$$ = \"[0-9A-Za-z\\\\(\\\\)\\\\+\\\\,\\\\\\-\\\\.\\\\:\\\\=\\\\@\\\\;\\\\$\\\\_\\\\!\\\\*\\\\'\\\\/\\\\?\\\\#]\";\nconst NSS$ = \"(?:(?:\" + PCT_ENCODED$ + \"|\" + TRANS$$ + \")+)\";\nconst URN_SCHEME = new RegExp(\"^urn\\\\:(\" + NID$ + \")$\");\nconst URN_PATH = new RegExp(\"^(\" + NID$ + \")\\\\:(\" + NSS$ + \")$\");\nconst URN_PARSE = /^([^\\:]+)\\:(.*)/;\nconst URN_EXCLUDED = /[\\x00-\\x20\\\\\\\"\\&\\<\\>\\[\\]\\^\\`\\{\\|\\}\\~\\x7F-\\xFF]/g;\n\n//RFC 2141\nconst handler:URISchemeHandler<URNComponents,URNOptions> = {\n\tscheme : \"urn\",\n\n\tparse : function (components:URIComponents, options:URNOptions):URNComponents {\n\t\tconst matches = components.path && components.path.match(URN_PARSE);\n\t\tlet urnComponents = components as URNComponents;\n\n\t\tif (matches) {\n\t\t\tconst scheme = options.scheme || urnComponents.scheme || \"urn\";\n\t\t\tconst nid = matches[1].toLowerCase();\n\t\t\tconst nss = matches[2];\n\t\t\tconst urnScheme = `${scheme}:${options.nid || nid}`;\n\t\t\tconst schemeHandler = SCHEMES[urnScheme];\n\n\t\t\turnComponents.nid = nid;\n\t\t\turnComponents.nss = nss;\n\t\t\turnComponents.path = undefined;\n\n\t\t\tif (schemeHandler) {\n\t\t\t\turnComponents = schemeHandler.parse(urnComponents, options) as URNComponents;\n\t\t\t}\n\t\t} else {\n\t\t\turnComponents.error = urnComponents.error || \"URN can not be parsed.\";\n\t\t}\n\n\t\treturn urnComponents;\n\t},\n\n\tserialize : function (urnComponents:URNComponents, options:URNOptions):URIComponents {\n\t\tconst scheme = options.scheme || urnComponents.scheme || \"urn\";\n\t\tconst nid = urnComponents.nid;\n\t\tconst urnScheme = `${scheme}:${options.nid || nid}`;\n\t\tconst schemeHandler = SCHEMES[urnScheme];\n\n\t\tif (schemeHandler) {\n\t\t\turnComponents = schemeHandler.serialize(urnComponents, options) as URNComponents;\n\t\t}\n\n\t\tconst uriComponents = urnComponents as URIComponents;\n\t\tconst nss = urnComponents.nss;\n\t\turiComponents.path = `${nid || options.nid}:${nss}`;\n\n\t\treturn uriComponents;\n\t},\n};\n\nexport default handler;","import { URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\nimport { pctEncChar, pctDecChars, unescapeComponent } from \"../uri\";\nimport punycode from \"punycode\";\nimport { merge, subexp, toUpperCase, toArray } from \"../util\";\n\nexport interface MailtoHeaders {\n\t[hfname:string]:string\n}\n\nexport interface MailtoComponents extends URIComponents {\n\tto:Array<string>,\n\theaders?:MailtoHeaders,\n\tsubject?:string,\n\tbody?:string\n}\n\nconst

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O:MailtoHeaders = {};\nconst isIRI = true;\n\n//RFC 3986\nconst UNRESERVED$$ = \"[A-Za-z0-9\\\\-\\\\.\\\\_\\\\~\" + (isIRI ? \"\\\\xA0-\\\\u200D\\\\u2010-\\\\u2029\\\\u202F-\\\\uD7FF\\\\uF900-\\\\uFDCF\\\\uFDF0-\\\\uFFEF\" : \"\") + \"]\";\nconst HEXDIG$$ = \"[0-9A-Fa-f]\";  //case-insensitive\nconst PCT_ENCODED$ = subexp(subexp(\"%[EFef]\" + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$) + \"|\" + subexp(\"%[89A-Fa-f]\" + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$) + \"|\" + subexp(\"%\" + HEXDIG$$ + HEXDIG$$));  //expanded\n\n//RFC 5322, except these symbols as per RFC 6068: @ : / ? # [ ] & ; =\n//const ATEXT$$ = \"[A-Za-z0-9\\\\!\\\\#\\\\$\\\\%\\\\&\\\\'\\\\*\\\\+\\\\-\\\\/\\\\=\\\\?\\\\^\\\\_\\\\`\\\\{\\\\|\\\\}\\\\~]\";\n//const WSP$$ = \"[\\\\x20\\\\x09]\";\n//const OBS_QTEXT$$ = \"[\\\\x01-\\\\x08\\\\x0B\\\\x0C\\\\x0E-\\\\x1F\\\\x7F]\";  //(%d1-8 / %d11-12 / %d14-31 / %d127)\n//const QTEXT$$ = merge(\"[\\\\x21\\\\x23-\\\\x5B\\\\x5D-\\\\x7E]\",
 OBS_QTEXT$$);  //%d33 / %d35-91 / %d93-126 / obs-qtext\n//const VCHAR$$ = \"[\\\\x21-\\\\x7E]\";\n//const WSP$$ = \"[\\\\x20\\\\x09]\";\n//const OBS_QP$ = subexp(\"\\\\\\\\\" + merge(\"[\\\\x00\\\\x0D\\\\x0A]\", OBS_QTEXT$$));  //%d0 / CR / LF / obs-qtext\n//const FWS$ = subexp(subexp(WSP$$ + \"*\\" + \"\\\\x0D\\\\x0A\") + \"?\" + WSP$$ + \"+\");\n//const QUOTED_PAIR$ = subexp(subexp(\"\\\\\\\\\" + subexp(VCHAR$$ + \"|\" + WSP$$)) + \"|\" + OBS_QP$);\n//const QUOTED_STRING$ = subexp('\\\\\"' + subexp(FWS$ + \"?\" + QCONTENT$) + \"*\" + FWS$ + \"?\" + '\\\\\"');\nconst ATEXT$$ = \"[A-Za-z0-9\\\\!\\\\$\\\\%\\\\'\\\\*\\\\+\\\\-\\\\^\\\\_\\\\`\\\\{\\\\|\\\\}\\\\~]\";\nconst QTEXT$$ = \"[\\\\!\\\\$\\\\%\\\\'\\\\(\\\\)\\\\*\\\\+\\\\,\\\\-\\\\.0-9\\\\<\\\\>A-Z\\\\x5E-\\\\x7E]\";\nconst VCHAR$$ = merge(QTEXT$$, \"[\\\\\\\\\\\\\\\\]\");\nconst DOT_ATOM_TEXT$ = subexp(ATEXT$$ + \"+\" + subexp(\"\\\\.\" + ATEXT$$ + \"+\") + \"*\");\nconst QUOTED_PAIR$ = subexp(\"\\\\\\\\\" + VCHAR$$);\nconst QCONTENT$ = subexp(QTEXT$$ + \"|\" + QUOTED_PAIR$);\nconst QUOTED_STRING$ = subexp('\\\\\"' + QCONTENT$ + \"*\" + '\\\\\"');\n\n//RFC 6068\nconst DTEXT_NO_OBS$$ = \"[\\\\x21-\\\\x5A\\\\x5E-\\\\x7E]\";  //%d33-90 / %d94-126\nconst SOME_DELIMS$$ = \"[\\\\!\\\\$\\\\'\\\\(\\\\)\\\\*\\\\+\\\\,\\\\;\\\\:\\\\@]\";\nconst QCHAR$ = subexp(UNRESERVED$$ + \"|\" + PCT_ENCODED$ + \"|\" + SOME_DELIMS$$);\nconst DOMAIN$ = subexp(DOT_ATOM_TEXT$ + \"|\" + \"\\\\[\" + DTEXT_NO_OBS$$ + \"*\" + \"\\\\]\");\nconst LOCAL_PART$ = subexp(DOT_ATOM_TEXT$ + \"|\" + QUOTED_STRING$);\nconst ADDR_SPEC$ = subexp(LOCAL_PART$ + \"\\\\@\" + DOMAIN$);\nconst TO$ = subexp(ADDR_SPEC$ + subexp(\"\\\\,\" + ADDR_SPEC$) + \"*\");\nconst HFNAME$ = subexp(QCHAR$ + \"*\");\nconst HFVALUE$ = HFNAME$;\nconst HFIELD$ = subexp(HFNAME$ + \"\\\\=\" + HFVALUE$);\nconst HFIELDS2$ = subexp(HFIELD$ + subexp(\"\\\\&\" + HFIELD$) + \"*\");\nconst HFIELDS$ = subexp(\"\\\\?\" + HFIELDS2$);\nconst MAILTO_URI = new RegExp(\"^mailto\\\\:\"
 + TO$ + \"?\" + HFIELDS$ + \"?$\");\n\nconst UNRESERVED = new RegExp(UNRESERVED$$, \"g\");\nconst PCT_ENCODED = new RegExp(PCT_ENCODED$, \"g\");\nconst NOT_LOCAL_PART = new RegExp(merge(\"[^]\", ATEXT$$, \"[\\\\.]\", '[\\\\\"]', VCHAR$$), \"g\");\nconst NOT_DOMAIN = new RegExp(merge(\"[^]\", ATEXT$$, \"[\\\\.]\", \"[\\\\[]\", DTEXT_NO_OBS$$, \"[\\\\]]\"), \"g\");\nconst NOT_HFNAME = new RegExp(merge(\"[^]\", UNRESERVED$$, SOME_DELIMS$$), \"g\");\nconst NOT_HFVALUE = NOT_HFNAME;\nconst TO = new RegExp(\"^\\\" + TO$ + \"$\");\nconst HFIELDS = new RegExp(\"^\\\" + HFIELDS2$ + \"$\");\n\nfunction decodeUnreserved(str:string):string {\n\tconst decStr = pctDecChars(str);\n\treturn (!decStr.match(UNRESERVED) ? str : decStr);\n}\n\nconst handler:URISchemeHandler<MailtoComponents> =  {\n\tscheme : \"mailto\",\n\n\tparse : function (components:URIComponents, options:URIOptions):MailtoComponents {\n\t\tconst mailtoComponents = components as MailtoComponents;\n\t\tconst to = mailtoComponents.to
 = (mailtoComponents.path ? mailtoComponents.path.split(\",\") : []);\n\t\tmailtoComponents.path = undefined;\n\n\t\tif (mailtoComponents.query) {\n\t\t\tlet unknownHeaders = false\n\t\t\tconst headers:MailtoHeaders = {};\n\t\t\tconst hfields = mailtoComponents.query.split(\"&\");\n\n\t\t\tfor (let x = 0, xl = hfields.length; x < xl; ++x) {\n\t\t\t\tconst hfield = hfields[x].split(\"=\");\n\n\t\t\t\tswitch (hfield[0]) {\n\t\t\t\t\tcase \"to\":\n\t\t\t\t\t\tconst toAddrs = hfield[1].split(\",\");\n\t\t\t\t\t\tfor (let x = 0, xl = toAddrs.length; x < xl; ++x) {\n\t\t\t\t\t\t\to.push(toAddrs[x]);\n\t\t\t\t\t}\n\t\t\t\t\tbreak;\n\t\t\t\tcase
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\"subject\":\n\t\t\t\t\t\tmailtoComponents.subject = unescapeComponent(hfield[1], options);\n\t\t\t\t\t\tbreak;\n\t\t\t\t\tcase \"body\":\n\t\t\t\t\t\tmailtoComponents.body = unescapeComponent(hfield[1], options);\n\t\t\t\t\t\tbreak;\n\t\t\t\t\tdefault:\n\t\t\t\t\t\tunknownHeaders = true;\n\t\t\t\t\t\theaders[unescapeComponent(hfield[0], options)]
= unescapeComponent(hfield[1], options);\n\t\t\t\t\t\tbreak;\n\t\t\t\t}\n\t\t\t}\n\n\t\tif (unknownHeaders) mailtoComponents.headers = headers;\n\t\t}\n\n\ttmailtoComponents.query = undefined;\n\n\tfor (let x = 0, xl = to.length; x < xl; ++x) {\n\t\tconst addr = to[x].split(\"@\");\n\n\t\taddr[0] = unescapeComponent(addr[0]);\n\n\t\tif (!options.unicodeSupport) {\n\t\t\t//convert Unicode IDN -> ASCII IDN\n\t\t\ttry {\n\t\t\t\taddr[1] = punycode.toASCII(unescapeComponent(addr[1], options).toLowerCase());\n\t\t\t} catch (e) {\n\t\t\t\tmailtoComponents.error = mailtoComponents.error || \"Email address's domain name can not be converted to ASCII via punycode: \" + e;\n\t\t\t}\n\t\t} else {\n\t\t\taddr[1] = unescapeComponent(addr[1], options).toLowerCase();\n\t\t}\n\n\tto[x] = addr.join(\"@\");\n\t}\n\n\treturn mailtoComponents;\n\t},\n\nserialize : function (mailtoComponents:MailtoComponents, options:URIOptions):URIComponents {\n\tconst components
= mailtoComponents as URIComponents;\n\tconst to = toArray(mailtoComponents.to);\n\tif (to) {\n\t\tfor (let x = 0, xl = to.length; x < xl; ++x) {\n\t\t\tconst toAddr = String(to[x]);\n\t\t\tconst atIdx = toAddr.lastIndexOf(\"@\");\n\t\t\tconst localPart = (toAddr.slice(0, atIdx)).replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_LOCAL_PART, pctEncChar);\n\t\t\tlet domain = toAddr.slice(atIdx + 1);\n\n\t\t\t//convert IDN via punycode\n\t\t\ttry {\n\t\t\t\tdomain = (!options.iri ? punycode.toASCII(unescapeComponent(domain, options).toLowerCase()) : punycode.toUnicode(domain));\n\t\t\t} catch (e) {\n\t\t\t\tcomponents.error = components.error || \"Email address's domain name can not be converted to \" + (!options.iri ? \"ASCII\" : \"Unicode\") + \" via punycode: \" + e;\n\t\t\t}\n\n\t\t\tto[x] = localPart + \"@\" + domain;\n\t\t}\n\n\tcomponents.path = to.join(\",\");\n\t}\n\n\tconst headers = mailtoComponents.headers
= mailtoComponents.headers || {};\n\n\tif (mailtoComponents.subject) headers[\"subject\"] = mailtoComponents.subject;\n\tif (mailtoComponents.body) headers[\"body\"] = mailtoComponents.body;\n\n\tconst fields = [];\n\tfor (const name in headers) {\n\t\tif (headers[name] !== O[name]) {\n\t\t\tfields.push(\n\t\t\t\ttname.replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_HFNAME, pctEncChar) +\n\t\t\t\t\"=\" +\n\t\t\t\theaders[name].replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_HFVALUE, pctEncChar)\n\t\t\t);\n\t\t}\n\t}\n\tif (fields.length) {\n\t\tcomponents.query = fields.join(\"&\");\n\t}\n\n\treturn components;\n}\n\nexport default handler;","import { URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\nimport http from \"./http\";\n\nconst handler:URISchemeHandler = {\n\tscheme : \"https\",\n\tdomainHost : http.domainHost,\n\tparse : http.parse,\n\tserialize
: http.serialize\n}\n\nexport default handler;","import { URISchemeHandler, URIComponents, URIOptions } from \"../uri\";\n\nconst handler:URISchemeHandler = {\n\tscheme : \"http\",\n\n\tdomainHost : true,\n\n\tparse : function (components:URIComponents, options:URIOptions):URIComponents {\n\t\t//report missing host\n\t\tif (!components.host) {\n\t\t\tcomponents.error = components.error || \"HTTP URIs must have a host.\";\n\t\t}\n\n\treturn components;\n\t},\n\n\tserialize : function (components:URIComponents, options:URIOptions):URIComponents {\n\t\t//normalize the default port\n\t\tif (components.port === (String(components.scheme).toLowerCase() !== \"https\" ? 80 : 443) || components.port === \"\") {\n\t\t\tcomponents.port = undefined;\n\t\t}\n\t\t//normalize the empty path\n\t\tif (!components.path) {\n\t\t\tcomponents.path = \"/\";\n\t\t}\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\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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 ANY EXPRESS OR IMPLIED\n * WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND\n * FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL GARY COURT OR\n * CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR\n * CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR\n * SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON\n * ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING\n * NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF\n * ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.\n *\n * The views and conclusions contained in the software and documentation are those of the\n * authors and should not be interpreted as representing official policies, either expressed\n * or implied, of Gary Court.\n */\n\nimport URI_PROTOCOL from \"./regexps-uri\";\nimport IRI_PROTOCOL from \"./regexps-iri\";\nimport
 punycode from \"punycode\";\nimport { toUpperCase, typeOf, assign } from \"./util\";\n\nexport interface URIComponents
{\n\tscheme?:string;\n\tuserinfo?:string;\n\thost?:string;\n\tport?:number|string;\n\tpath?:string;\n\tquery?:string;\n\tfragment?:string;\n\treference?:string;\n\terror?:string;\n}\n\nexport interface URIOptions
{\n\tscheme?:string;\n\treference?:string;\n\ttolerant?:boolean;\n\tabsolutePath?:boolean;\n\tiri?:boolean;\n\tunicodeSupport?:boolean;\n\tdomainHost?:boolean;\n}\n\nexport interface URISchemeHandler<Components extends URIComponents = URIComponents, Options extends URIOptions = URIOptions, ParentComponents extends URIComponents = URIComponents> {\n\tscheme:string;\n\tparse(components:ParentComponents, options:Options):Components;\n\tserialize(components:Components, options:Options):ParentComponents;\n\tunicodeSupport?:boolean;\n\tdomainHost?:boolean;\n\tabsolutePath?:boolean;\n}\n\nexport interface URIRegExps {\n\tNOT_SCHEME : RegExp,\n\tNOT_USERINFO
 : RegExp,\n\tNOT_HOST : RegExp,\n\tNOT_PATH : RegExp,\n\tNOT_PATH_NOSCHEME : RegExp,\n\tNOT_QUERY : RegExp,\n\tNOT_FRAGMENT : RegExp,\n\tESCAPE : RegExp,\n\tUNRESERVED : RegExp,\n\tOTHER_CHARS : RegExp,\n\tPCT_ENCODED : RegExp,\n\tIPV4ADDRESS : RegExp,\n\tIPV6ADDRESS : RegExp,\n}\n\nexport const SCHEMES:{[scheme:string]:URISchemeHandler} = {};\n\nexport function pctEncChar(chr:string):string {\n\tconst c = chr.charCodeAt(0);\n\tlet e:string;\n\n\tif (c < 16) e = \"%0\" + c.toString(16).toUpperCase();\n\telse if (c < 128) e = \"%\" + c.toString(16).toUpperCase();\n\telse if (c < 2048) e = \"%\" + ((c >> 6) | 192).toString(16).toUpperCase() + \"%\" + ((c & 63) | 128).toString(16).toUpperCase();\n\telse e = \"%\" + ((c >> 12) | 224).toString(16).toUpperCase() + \"%\" + (((c >> 6) & 63) | 128).toString(16).toUpperCase() + \"%\" + ((c & 63) | 128).toString(16).toUpperCase();\n\n\treturn e;\n}\n\nexport function pctDecChars(str:string):string {\n\tlet newStr = \"\";\n\tlet i
 = 0;\n\tconst il = str.length;\n\n\twhile (i < il) {\n\t\tconst c = parseInt(str.substr(i + 1, 2), 16);\n\n\t\tif (c < 128) {\n\t\t\tnewStr += String.fromCharCode(c);\n\t\t\ti += 3;\n\t\t}\n\t\telse if (c >= 194 && c < 224) {\n\t\t\tif ((il - i) >= 6) {\n\t\t\t\tconst c2 = parseInt(str.substr(i + 4, 2), 16);\n\t\t\t\tnewStr += String.fromCharCode(((c & 31) << 6) | (c2 & 63));\n\t\t\t} else {\n\t\t\t\tnewStr += str.substr(i, 6);\n\t\t\t}\n\t\t\ti += 6;\n\t\t}\n\telse if (c >= 224) {\n\t\tif ((il - i) >= 9) {\n\t\t\tconst c2 = parseInt(str.substr(i + 4, 2), 16);\n\t\t\tconst c3 = parseInt(str.substr(i + 7, 2), 16);\n\t\t\tnewStr += String.fromCharCode(((c & 15) << 12) | ((c2 & 63) << 6) | (c3 & 63));\n\t\t} else {\n\t\t\tnewStr += str.substr(i, 9);\n\t\t}\n\t\ti += 9;\n\t}\n\telse {\n\t\tnewStr += str.substr(i, 3);\n\t\ti += 3;\n\t}\n\t}\n\n\treturn newStr;\n}\n\nfunction _normalizeComponentEncoding(components:URIComponents, protocol:URIRegExps) {\n\tfunction

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 decodeUnreserved(str:string):string {\n\t\tconst decStr = pctDecChars(str);\n\t\treturn
(!decStr.match(protocol.UNRESERVED) ? str : decStr);\n\t}\n\n\tif (components.scheme) components.scheme =
String(components.scheme).replace(protocol.PCT_ENCODED,
decodeUnreserved).toLowerCase().replace(protocol.NOT_SCHEME, \"\");\n\tif (components.userinfo !==
undefined) components.userinfo = String(components.userinfo).replace(protocol.PCT_ENCODED,
decodeUnreserved).replace(protocol.NOT_USERINFO, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\tif (components.host !== undefined) components.host =
String(components.host).replace(protocol.PCT_ENCODED,
decodeUnreserved).toLowerCase().replace(protocol.NOT_HOST, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\tif (components.path !== undefined) components.path =
String(components.path).replace(protocol.PCT_ENCODED, decodeUnreserved).replace((components.scheme ?
protocol.NOT_PATH : protocol.NOT_PATH_NOSCHEME), pctEncChar).replace(protocol.PCT_ENCODED,
 toUpperCase);\n\tif (components.query !== undefined) components.query =
String(components.query).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_QUERY,
pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);\n\tif (components.fragment !== undefined)
components.fragment = String(components.fragment).replace(protocol.PCT_ENCODED,
decodeUnreserved).replace(protocol.NOT_FRAGMENT, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\n\treturn components;\n};\n\nfunction _stripLeadingZeros(str:string):string {\n\treturn
str.replace(/^0*(.*)/, \"$1\") || \"0\";\n}\n\nfunction _normalizeIPv4(host:string, protocol:URIRegExps):string
{\n\tconst matches = host.match(protocol.IPV4ADDRESS) || [];\n\tconst [, address] = matches;\n\t\n\tif (address)
{\n\t\treturn address.split(\".\").map(_stripLeadingZeros).join(\".\");\n\t} else {\n\t\treturn host;\n\t}\n}\n\nfunction
_normalizeIPv6(host:string, protocol:URIRegExps):string {\n\tconst matches =
host.match(protocol.IPV6ADDRESS)
 || [];\n\tconst [, address, zone] = matches;\n\n\tif (address) {\n\t\tconst [last, first] =
address.toLowerCase().split('::').reverse();\n\t\tconst firstFields = first ? first.split(\":\").map(_stripLeadingZeros) :
[];\n\t\tconst lastFields = last.split(\":\").map(_stripLeadingZeros);\n\t\tconst isLastFieldIPv4Address =
protocol.IPV4ADDRESS.test(lastFields[lastFields.length - 1]);\n\t\tconst fieldCount = isLastFieldIPv4Address ? 7 :
8;\n\t\tconst lastFieldsStart = lastFields.length - fieldCount;\n\t\tconst fields = Array<string>(fieldCount);\n\n\t\tfor
(let x = 0; x < fieldCount; ++x) {\n\t\t\tfields[x] = firstFields[x] || lastFields[lastFieldsStart + x] || '';\n\t\t}\n\n\tif
(isLastFieldIPv4Address) {\n\t\t\tfields[fieldCount - 1] = _normalizeIPv4(fields[fieldCount - 1],
protocol);\n\t\t}\n\n\tconst allZeroFields = fields.reduce<Array<{index:number,length:number}>>((acc, field,
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)
{\n\t\t\t\tlastLongest.length++;\n\t\t\t} else {\n\t\t\tacc.push({ index, length : 1 });\n\t\t}\n\t\t}\n\t\treturn
acc;\n\t}, []);\n\n\tconst longestZeroFields = allZeroFields.sort((a, b) => b.length - a.length)[0];\n\n\tlet
newHost:string;\n\tif (longestZeroFields && longestZeroFields.length > 1) {\n\t\tconst newFirst = fields.slice(0,
longestZeroFields.index) ;\n\t\tconst newLast = fields.slice(longestZeroFields.index +
longestZeroFields.length);\n\t\tnewHost = newFirst.join(\":\") + \"::\" + newLast.join(\":\");\n\t} else
{\n\t\tnewHost = fields.join(\":\");\n\t}\n\n\tif (zone) {\n\t\tnewHost += \"%\" + zone;\n\t}\n\n\treturn
newHost;\n} else {\n\treturn host;\n}\n}\n\nconst URI_PARSE =
/^(?:([^:\/?#]+):)?(?:\/\/((?:([^\/?#@]*)@)?(\[[^\/?#\]]+\]|[^\/?#:]*)(?:\:(\d*))?))?([^?#]*)(?:\?([^#]*))?(?:#((?:
.|\n|\r)*))?/i;\nconst NO_MATCH_IS_UNDEFINED
 = (<RegExpMatchArray>(\"\").match(/()\{0\}/))[1] === undefined;\n\nexport function parse(uriString:string,
options:URIOptions = {}):URIComponents {\n\tconst components:URIComponents = {};\n\tconst protocol =
(options.iri !== false ? IRI_PROTOCOL : URI_PROTOCOL);\n\n\tif (options.reference === \"suffix\") uriString =
(options.scheme ? options.scheme + \":\" : \"\") + \"//\" + uriString;\n\n\tconst matches =
uriString.match(URI_PARSE);\n\n\tif (matches) {\n\t\tif (NO_MATCH_IS_UNDEFINED) {\n\t\t\t//store each
component\n\t\t\tcomponents.scheme = matches[1];\n\t\t\tcomponents.userinfo = matches[3];\n\t\t\tcomponents.host
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= matches[4];\n\t\t\tcomponents.port = parseInt(matches[5], 10);\n\t\t\tcomponents.path = matches[6] || \"\";\n\t\t\tcomponents.query = matches[7];\n\t\t\tcomponents.fragment = matches[8];\n\n\t\t\t//fix port number\n\t\t\tif (isNaN(components.port)) {\n\t\t\t\tcomponents.port = matches[5];\n\t\t\t}\n\t\t} else { //IE FIX for improper RegExp matching\n\t\t\t//store
 each component\n\t\t\tcomponents.scheme = matches[1] || undefined;\n\t\t\tcomponents.userinfo = (uriString.indexOf(\"@\") !== -1 ? matches[3] : undefined);\n\t\t\tcomponents.host = (uriString.indexOf(\"//\") !== -1 ? matches[4] : undefined);\n\t\t\tcomponents.port = parseInt(matches[5], 10);\n\t\t\tcomponents.path = matches[6] || \"\";\n\t\t\tcomponents.query = (uriString.indexOf(\"?\") !== -1 ? matches[7] : undefined);\n\t\t\tcomponents.fragment = (uriString.indexOf(\"#\") !== -1 ? matches[8] : undefined);\n\n\t\t\t//fix port number\n\t\t\tif (isNaN(components.port)) {\n\t\t\t\tcomponents.port = (uriString.match(/\\/\\/(?:.|\\n)*\\:(?:\\/|\\?|\\#|$)/) ? matches[4] : undefined);\n\t\t\t}\n\t\t}\n\n\tif (components.host) {\n\t\t//normalize IP hosts\n\t\tcomponents.host = _normalizeIPv6(_normalizeIPv4(components.host, protocol), protocol);\n\t}\n\n\t//determine reference type\n\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} else if (components.scheme === undefined) {\n\t\tcomponents.reference = \"relative\";\n\t} else if (components.fragment === undefined) {\n\t\tcomponents.reference = \"absolute\";\n\t} else {\n\t\tcomponents.reference = \"uri\";\n\t}\n\n\t//check for reference errors\n\tif (options.reference && options.reference !== \"suffix\" && options.reference !== components.reference) {\n\t\tcomponents.error = components.error || \"URI is not a \" + options.reference + \" reference.\";\n\t}\n\n\t//find scheme handler\n\tconst schemeHandler = SCHEMES[(options.scheme || components.scheme || \"\").toLowerCase()];\n\n\t//check if scheme can't handle IRIs\n\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//convert Unicode IDN -> ASCII IDN\n\t\t\ttry {\n\t\t\t\tcomponents.host = punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase());\n\t\t\t} catch (e) {\n\t\t\t\tcomponents.error = components.error || \"Host's domain name can not be converted to ASCII via punycode: \" + e;\n\t\t\t}\n\t\t}\n\t\t//convert IRI -> URI\n\t\t_normalizeComponentEncoding(components, URI_PROTOCOL);\n\t} else {\n\t\t//normalize encodings\n\t\t_normalizeComponentEncoding(components, protocol);\n\t}\n\n\t//perform scheme specific parsing\n\tif (schemeHandler && schemeHandler.parse) {\n\t\tschemeHandler.parse(components, options);\n\t}\n} else {\n\tcomponents.error = components.error || \"URI can not be parsed.\";\n}\n\nreturn components;\n};\n\nfunction _recomposeAuthority(components:URIComponents, options:URIOptions):string|undefined {\n\tconst protocol = (options.iri
 !== false ? IRI_PROTOCOL : URI_PROTOCOL);\n\tconst uriTokens:Array<string> = [];\n\n\tif (components.userinfo !== undefined) {\n\t\turiTokens.push(components.userinfo);\n\t\turiTokens.push(\"@\");\n\t}\n\n\tif (components.host !== undefined) {\n\t\t//normalize IP hosts, add brackets and escape zone separator for IPv6\n\t\turiTokens.push(_normalizeIPv6(_normalizeIPv4(String(components.host), protocol), protocol).replace(protocol.IPV6ADDRESS, (_, $1, $2) => \"[\" + $1 + ($2 ? \"%25\" + $2 : \"\") + \"]\"));\n\t}\n\n\tif (typeof components.port === \"number\") {\n\t\turiTokens.push(\":\");\n\t\turiTokens.push(components.port.toString(10));\n\t}\n\n\treturn uriTokens.length ? uriTokens.join(\"\") : undefined;\n};\n\nconst RDS1 = /^\\.\\.?\\//;\nconst RDS2 = /^\\/\\.(\\/|$)/;\nconst RDS3 = /^\\/\\.\\.(\\/|$)/;\nconst RDS4 = /^\\.\\.?$/;\nconst RDS5 = /^\\/?(?:.|\\n)*?(?=\\/|$)/;\n\nexport function removeDotSegments(input:string):string {\n\tconst output:Array<string> = [];\n\n\twhile (input.length) {\n\t\tif (input.match(RDS1)) {\n\t\t\tinput = input.replace(RDS1, \"\");\n\t\t} else if (input.match(RDS2)) {\n\t\t\tinput = input.replace(RDS2, \"/\");\n\t\t} else if (input.match(RDS3)) {\n\t\t\tinput =

input.replace(RDS3, \"/\");\n\t\t\toutput.pop();\n\t\t} else if (input === \".\" || input === \"..\") {\n\t\t\tinput = \"\";\n\t\t} else {\n\t\t\tconst im = input.match(RDS5);\n\t\t\tif (im) {\n\t\t\t\tconst s = im[0];\n\t\t\t\t\tinput = input.slice(s.length);\n\t\t\t\toutput.push(s);\n\t\t\t} else {\n\t\t\t\tthrow new Error(\"Unexpected dot segment condition\");\n\t\t\t}\n\t\t}\n\t}\n\n\treturn output.join(\"\");\n};\n\nexport function serialize(components:URIComponents, options:URIOptions = {}):string {\n\tconst protocol = (options.iri ? IRI_PROTOCOL : URI_PROTOCOL);\n\tconst uriTokens:Array<string> = [];\n\n\t//find scheme handler\n\tconst schemeHandler = SCHEMES[(options.scheme || components.scheme || \"\").toLowerCase()];\n\n\t//perform scheme specific serialization\n\tif (schemeHandler && schemeHandler.serialize) schemeHandler.serialize(components, options);\n\n\tif (components.host) {\n\t\t//if host component is an IPv6 address\n\t\tif (protocol.IPV6ADDRESS.test(components.host)) {\n\t\t\t//TODO: normalize IPv6 address as per RFC 5952\n\t\t}\n\n\t\t//if host component is a domain name\n\t\telse if (options.domainHost || (schemeHandler && schemeHandler.domainHost)) {\n\t\t\t//convert IDN via punycode\n\t\t\ttry {\n\t\t\t\tcomponents.host = (!options.iri ? punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase()) : punycode.toUnicode(components.host));\n\t\t\t} catch (e) {\n\t\t\t\tcomponents.error = components.error || \"Host's domain name can not be converted to \" + (!options.iri ? \"ASCII\" : \"Unicode\") + \" via punycode: \" + e;\n\t\t\t}\n\t}\n\t}\n\n\t//normalize encoding\n\t_normalizeComponentEncoding(components, protocol);\n\n\tif (options.reference !== \"suffix\" && components.scheme) {\n\t\turiTokens.push(components.scheme);\n\t\turiTokens.push(\":\");\n\t}\n\n\tconst authority = _recomposeAuthority(components, options);\n\tif (authority !== undefined) {\n\t\tif (options.reference !== \"suffix\") {\n\t\t\turiTokens.push(\"//\");\n\t\t}\n\t\turiTokens.push(authority);\n\n\t\tif (components.path && components.path.charAt(0) !== \"/\") {\n\t\t\turiTokens.push(\"/\");\n\t\t}\n\t}\n\n\tif (components.path !== undefined) {\n\t\tlet s = components.path;\n\n\t\tif (!options.absolutePath && (!schemeHandler || !schemeHandler.absolutePath)) {\n\t\t\ts = removeDotSegments(s);\n\t\t}\n\n\t\tif (authority === undefined) {\n\t\t\ts = s.replace(/^\\/\\//, \"/%2F\"); //don't allow the path to start with \"//\"\n\t\t}\n\n\t\turiTokens.push(s);\n\t}\n\n\tif (components.query !== undefined) {\n\t\turiTokens.push(\"?\");\n\t\turiTokens.push(components.query);\n\t}\n\n\tif (components.fragment !== undefined) {\n\t\turiTokens.push(\"#\");\n\t\turiTokens.push(components.fragment);\n\t}\n\n\treturn uriTokens.join(\"\"); //merge tokens into a string\n};\n\nexport function resolveComponents(base:URIComponents, relative:URIComponents, options:URIOptions = {}, skipNormalization?:boolean):URIComponents {\n\tconst target:URIComponents = {};\n\n\tif (!skipNormalization) {\n\t\tbase = parse(serialize(base, options), options); //normalize base components\n\t\trelative = parse(serialize(relative, options), options); //normalize relative components\n\t}\n\toptions = options || {};\n\n\tif (!options.tolerant && relative.scheme) {\n\t\ttarget.scheme = relative.scheme;\n\t\t//target.authority = relative.authority;\n\t\ttarget.userinfo = relative.userinfo;\n\t\ttarget.host = relative.host;\n\t\ttarget.port = relative.port;\n\t\ttarget.path = removeDotSegments(relative.path || \"\");\n\t\ttarget.query = relative.query;\n\t} else {\n\t\tif (relative.userinfo !== undefined || relative.host !== undefined || relative.port !== undefined) {\n\t\t\t//target.authority = relative.authority;\n\t\t\ttarget.userinfo = relative.userinfo;\n\t\t\ttarget.host = relative.host;\n\t\t\ttarget.port = relative.port;\n\t\t\ttarget.path = removeDotSegments(relative.path || \"\");\n\t\t\ttarget.query = relative.query;\n\t\t} else {\n\t\t\tif (!relative.path) {\n\t\t\t\ttarget.path = base.path;\n\t\t\t\tif (relative.query !== undefined) {\n\t\t\t\t\ttarget.query = relative.query;\n\t\t\t\t} else {\n\t\t\t\t\ttarget.query = base.query;\n\t\t\t\t}\n\t\t\t} else {\n\t\t\t\tif (relative.path.charAt(0) === \"/\") {\n\t\t\t\t\ttarget.path = removeDotSegments(relative.path);\n\t\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\ttarget.path = \"/\" + relative.path;\n\t\t\t\t\t} else if (!base.path) {\n\t\t\t\t\t\ttarget.path = relative.path;\n\t\t\t\t\t} else {\n\t\t\t\t\t\ttarget.path = base.path.slice(0, base.path.lastIndexOf(\"/\") + 1) + relative.path;\n\t\t\t\t\t}\n\t\t\t\t\ttarget.path = removeDotSegments(target.path);\n\t\t\t\t}\n\t\t\t\ttarget.query = relative.query;\n\t\t\t}\n\t\t\t//target.authority = base.authority;\n\t\t\ttarget.userinfo = base.userinfo;\n\t\t\ttarget.host = base.host;\n\t\t\ttarget.port = base.port;\n\t\t}\n\t\ttarget.scheme =

base.scheme;\n\t}\n\n\ttarget.fragment = relative.fragment;\n\n\treturn target;\n};\n\nexport function resolve(baseURI:string, relativeURI:string, options?:URIOptions):string {\n\tconst schemelessOptions = assign({ scheme : 'null' }, options);\n\treturn serialize(resolveComponents(parse(baseURI, schemelessOptions), parse(relativeURI, schemelessOptions), schemelessOptions, true), schemelessOptions);\n};\n\nexport function normalize(uri:string, options?:URIOptions):string;\nexport function normalize(uri:URIComponents, options?:URIOptions):URIComponents;\nexport function normalize(uri:any, options?:URIOptions):any {\n\tif (typeof uri === \"string\") {\n\t\turi = serialize(parse(uri, options), options);\n\t} else if (typeOf(uri) === \"object\") {\n\t\turi = parse(serialize(<URIComponents>uri, options), options);\n\t}\n\n\treturn uri;\n};\n\nexport function equal(uriA:string, uriB:string, options?: URIOptions):boolean;\nexport function equal(uriA:URIComponents, uriB:URIComponents, options?:URIOptions):boolean;\nexport function equal(uriA:any, uriB:any, options?:URIOptions):boolean {\n\tif (typeof uriA === \"string\") {\n\t\turiA = serialize(parse(uriA, options), options);\n\t} else if (typeOf(uriA) === \"object\") {\n\t\turiA = serialize(<URIComponents>uriA, options);\n\t}\n\n\tif (typeof uriB === \"string\") {\n\t\turiB = serialize(parse(uriB, options), options);\n\t} else if (typeOf(uriB) === \"object\") {\n\t\turiB = serialize(<URIComponents>uriB, options);\n\t}\n\n\treturn uriA === uriB;\n};\n\nexport function escapeComponent(str:string, options?:URIOptions):string {\n\treturn str && str.toString().replace((!options || !options.iri ? URI_PROTOCOL.ESCAPE : IRI_PROTOCOL.ESCAPE), pctEncChar);\n};\n\nexport function unescapeComponent(str:string, options?:URIOptions):string {\n\treturn str && str.toString().replace((!options || !options.iri ? URI_PROTOCOL.PCT_ENCODED : IRI_PROTOCOL.PCT_ENCODED), pctDecChars);\n};\n\n","'use strict';\n\n/** Highest positive signed 32-bit float value */\nconst maxInt = 2147483647; // aka. 0x7FFFFFFF or 2^31-1\n\n/** Bootstring parameters */\nconst base = 36;\nconst tMin = 1;\nconst tMax = 26;\nconst skew = 38;\nconst damp = 700;\nconst initialBias = 72;\nconst initialN = 128; // 0x80\nconst delimiter = '-'; // '\\x2D'\n\n/** Regular expressions */\nconst regexPunycode = /^xn--/;\nconst regexNonASCII = /[^\\0-\\x7E]/; // non-ASCII chars\nconst regexSeparators = /[\\x2E\\u3002\\uFF0E\\uFF61]/g; // RFC 3490 separators\n\n/** Error messages */\nconst errors = {\n\t'overflow': 'Overflow: input needs wider integers to process',\n\t'not-basic': 'Illegal input >= 0x80 (not a basic code point)',\n\t'invalid-input': 'Invalid input'\n};\n\n/** Convenience shortcuts */\nconst baseMinusTMin = base - tMin;\nconst floor = Math.floor;\nconst stringFromCharCode = String.fromCharCode;\n\n/*--*/\n\n/**\n * A generic error utility function.\n * @private\n * @param {String} type The error type.\n * @returns {Error} Throws a `RangeError` with the applicable error message.\n */\nfunction error(type) {\n\tthrow new RangeError(errors[type]);\n}\n\n/**\n * A generic `Array#map` utility function.\n * @private\n * @param {Array} array The array to iterate over.\n * @param {Function} callback The function that gets called for every array\n * item.\n * @returns {Array} A new array of values returned by the callback function.\n */\nfunction map(array, fn) {\n\tconst result = [];\n\tlet length = array.length;\n\twhile (length--) {\n\t\tresult[length] = fn(array[length]);\n\t}\n\treturn result;\n}\n\n/**\n * A simple `Array#map`-like wrapper to work with domain name strings or email\n * addresses.\n * @private\n * @param {String} domain The domain name or email address.\n * @param {Function} callback The function that gets called for every\n * character.\n * @returns {Array} A new string of characters returned by the callback\n * function.\n */\nfunction mapDomain(string, fn) {\n\tconst parts = string.split('@');\n\tlet result = '';\n\tif (parts.length > 1) {\n\t\t// In email addresses, only the domain name should be punycoded. Leave\n\t\t// the local part (i.e. everything up to `@`) intact.\n\t\tresult = parts[0] + '@';\n\t\tstring = parts[1];\n\t}\n\t// Avoid `split(regex)` for IE8 compatibility. See #17.\n\tstring = string.replace(regexSeparators, '\\x2E');\n\tconst labels = string.split('.');\n\tconst encoded = map(labels, fn).join('.');\n\treturn result + encoded;\n}\n\n/**\n * Creates an array containing the numeric code points of each Unicode\n * character in the string. While JavaScript uses UCS-2 internally,\n * this function will convert a pair of surrogate halves (each of which\n * UCS-2 exposes as separate characters) into a single code point,\n * matching UTF-16.\n * @see `punycode.ucs2.encode`\n * @see <https://mathiasbynens.be/notes/javascript-encoding>\n * @memberOf punycode.ucs2\n * @name decode\n * @param {String} string The Unicode input string (UCS-2).\n * @returns {Array} The new array of code points.\n

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

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

```
} from \"./uri\";\nimport { buildExps } from \"./regexps-uri\";\n\nexport default buildExps(true);\n","import {
URIRegExps } from \"./uri\";\nimport { merge, subexp } from \"./util\";\n\nexport function
buildExps(isIRI:boolean):URIRegExps {\n\tconst\n\t\tALPHA$$ = \"[A-Za-z]\",\n\t\tCR$ =
\"[\\\\x0D]\",\n\t\tDIGIT$$ = \"[0-9]\",\n\t\tDQUOTE$$
 = \"[\\\\x22]\",\n\t\tHEXDIG$$ = merge(DIGIT$$, \"[A-Fa-f]\"),  //case-insensitive\n\t\tLF$$ =
\"[\\\\x0A]\",\n\t\tSP$$ = \"[\\\\x20]\",\n\t\tPCT_ENCODED$ = subexp(subexp(\"%[EFef]\" + HEXDIG$$ + \"%\" +
HEXDIG$$ + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$) + \"|\" + subexp(\"%[89A-Fa-f]\" + HEXDIG$$ +
\"%\" + HEXDIG$$ + HEXDIG$$) + \"|\" + subexp(\"%\" + HEXDIG$$ + HEXDIG$$)),
//expanded\n\t\tGEN_DELIMS$$ = \"[\\\\:\\\\/\\\\?\\\\#\\\\[\\\\]\\\\@]\",\n\t\tSUB_DELIMS$$ =
\"[\\\\!\\\\$\\\\&\\\\'\\\\(\\\\)\\\\*\\\\+\\\\,\\\\;\\\\=]\",\n\t\tRESERVED$$ = merge(GEN_DELIMS$$,
SUB_DELIMS$$),\n\t\tUCSCHAR$$ = isIRI ? \"[\\\\xA0-\\\\u200D\\\\u2010-\\\\u2029\\\\u202F-
\\\\uD7FF\\\\uF900-\\\\uFDCF\\\\uFDF0-\\\\uFFEF]\" : \"[]\",  //subset, excludes bidi control
characters\n\t\tIPRIVATE$$ = isIRI ? \"[\\\\uE000-\\\\uF8FF]\" : \"[]\",  //subset\n\t\tUNRESERVED$$ =
merge(ALPHA$$, DIGIT$$, \"[\\\\-\\\\.\\\\_\\\\~]\", UCSCHAR$$),\n\t\tSCHEME$ = subexp(ALPHA$$ +
merge(ALPHA$$, DIGIT$$, \"[\\\\+\\\\-\\\\.]\")
 + \"*\"),\n\t\tUSERINFO$ = subexp(subexp(PCT_ENCODED$ + \"|\" + merge(UNRESERVED$$,
SUB_DELIMS$$, \"[\\\\:]\")) + \"*\"),\n\t\tDEC_OCTET$ = subexp(subexp(\"25[0-5]\") + \"|\" + subexp(\"2[0-4]\"
+ DIGIT$$) + \"|\" + subexp(\"1\" + DIGIT$$ + DIGIT$$) + \"|\" + subexp(\"[1-9]\" + DIGIT$$) + \"|\" +
DIGIT$$),\n\t\tDEC_OCTET_RELAXED$ = subexp(subexp(\"25[0-5]\") + \"|\" + subexp(\"2[0-4]\" + DIGIT$$) +
\"|\" + subexp(\"1\" + DIGIT$$ + DIGIT$$) + \"|\" + subexp(\"0?[1-9]\" + DIGIT$$) + \"|0?0?\" + DIGIT$$),
//relaxed parsing rules\n\t\tIPV4ADDRESS$ = subexp(DEC_OCTET_RELAXED$ + \"\\\\.\" +
DEC_OCTET_RELAXED$ + \"\\\\.\" + DEC_OCTET_RELAXED$ + \"\\\\.\" +
DEC_OCTET_RELAXED$),\n\t\tH16$ = subexp(HEXDIG$$ + \"{1,4}\"),\n\t\tLS32$ = subexp(subexp(H16$ +
\"\\\\:\" + H16$) + \"|\" + IPV4ADDRESS$),\n\t\tIPV6ADDRESS1$ = subexp(
subexp(H16$ + \"\\\\:\") + \"{6}\" + LS32$), //                    6( h16 \":\" ) ls32\n\t\tIPV6ADDRESS2$
 = subexp(                                \"\\\\:\\\\:\" + subexp(H16$ + \"\\\\:\") + \"{5}\" + LS32$), //
\"::\" 5( h16 \":\" ) ls32\n\t\tIPV6ADDRESS3$ = subexp(subexp(                        H16$) + \"?\\\\:\\\\:\" +
subexp(H16$ + \"\\\\:\") + \"{4}\" + LS32$), //[           h16 ] \"::\" 4( h16 \":\" ) ls32\n\t\tIPV6ADDRESS4$ =
subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,1}\" + H16$) + \"?\\\\:\\\\:\" + subexp(H16$ + \"\\\\:\") + \"{3}\" +
LS32$), //[ *1( h16 \":\" ) h16 ] \"::\" 3( h16 \":\" ) ls32\n\t\tIPV6ADDRESS5$ = subexp(subexp(subexp(H16$ +
\"\\\\:\") + \"{0,2}\" + H16$) + \"?\\\\:\\\\:\" + subexp(H16$ + \"\\\\:\") + \"{2}\" + LS32$), //[ *2( h16 \":\" ) h16 ]
\"::\" 2( h16 \":\" ) ls32\n\t\tIPV6ADDRESS6$ = subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,3}\" + H16$) +
\"?\\\\:\\\\:\" +       H16$ + \"\\\\:\"          + LS32$), //[ *3( h16 \":\" ) h16 ] \"::\"    h16 \":\"
ls32\n\t\tIPV6ADDRESS7$ = subexp(subexp(subexp(H16$
 + \"\\\\:\") + \"{0,4}\" + H16$) + \"?\\\\:\\\\:\"                        + LS32$), //[ *4( h16 \":\" ) h16 ] \"::\"
ls32\n\t\tIPV6ADDRESS8$ = subexp(subexp(subexp(H16$ + \"\\\\:\") + \"{0,5}\" + H16$) + \"?\\\\:\\\\:\"
          + H16$ ), //[ *5( h16 \":\" ) h16 ] \"::\"            h16\n\t\tIPV6ADDRESS9$ = subexp(subexp(subexp(H16$ +
\"\\\\:\") + \"{0,6}\" + H16$) + \"?\\\\:\\\\:\"                                ), //[ *6( h16 \":\" ) h16 ]
\"::\"\n\t\tIPV6ADDRESS$ = subexp([IPV6ADDRESS1$, IPV6ADDRESS2$, IPV6ADDRESS3$,
IPV6ADDRESS4$, IPV6ADDRESS5$, IPV6ADDRESS6$, IPV6ADDRESS7$, IPV6ADDRESS8$,
IPV6ADDRESS9$].join(\"|\")),\n\t\tZONEID$ = subexp(subexp(UNRESERVED$$ + \"|\" + PCT_ENCODED$) +
\"+\"),  //RFC 6874\n\t\tIPV6ADDRZ$ = subexp(IPV6ADDRESS$ + \"\\\\%25\" + ZONEID$),  //RFC
6874\n\t\tIPV6ADDRZ_RELAXED$ = subexp(IPV6ADDRESS$ + subexp(\"\\\\%25|\\\\%(?!\" + HEXDIG$$ +
\"{2})\") + ZONEID$),  //RFC 6874, with relaxed
 parsing rules\n\t\tIPVFUTURE$ = subexp(\"[vV]\" + HEXDIG$$ + \"+\\\\.\" + merge(UNRESERVED$$,
SUB_DELIMS$$, \"[\\\\:]\") + \"+\"),\n\t\tIP_LITERAL$ = subexp(\"\\\\[\" + subexp(IPV6ADDRZ_RELAXED$ +
\"|\" + IPV6ADDRESS$ + \"|\" + IPVFUTURE$) + \"\\\\]\"),  //RFC 6874\n\t\tREG_NAME$ =
subexp(subexp(PCT_ENCODED$ + \"|\" + merge(UNRESERVED$$, SUB_DELIMS$$)) + \"*\"),\n\t\tHOST$ =
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subexp(IP_LITERAL$ + \"|\" + IPV4ADDRESS$ + \"(?!\" + REG_NAME$ + \")\" + \"|\" +
REG_NAME$),\n\t\tPORT$ = subexp(DIGIT$$ + \"*\"),\n\t\tAUTHORITY$ = subexp(subexp(USERINFO$ +
\"@\") + \"?\" + HOST$ + subexp(\"\\\\:\" + PORT$) + \"?\"),\n\t\tPCHAR$ = subexp(PCT_ENCODED$ + \"|\" +
merge(UNRESERVED$$, SUB_DELIMS$$, \"[\\\\:\\\\@]\")),\n\t\tSEGMENT$ = subexp(PCHAR$ +
\"*\"),\n\t\tSEGMENT_NZ$ = subexp(PCHAR$ + \"+\"),\n\t\tSEGMENT_NZ_NC$ =
subexp(subexp(PCT_ENCODED$ + \"|\" + merge(UNRESERVED$$, SUB_DELIMS$$, \"[\\\\@]\")) +
\"+\"),\n\t\tPATH_ABEMPTY$ = subexp(subexp(\"\\\\/\" + SEGMENT$) + \"*\"),\n\t\tPATH_ABSOLUTE$
 = subexp(\"\\\\/\" + subexp(SEGMENT_NZ$ + PATH_ABEMPTY$) + \"?\"),
//simplified\n\t\tPATH_NOSCHEME$ = subexp(SEGMENT_NZ_NC$ + PATH_ABEMPTY$),
//simplified\n\t\tPATH_ROOTLESS$ = subexp(SEGMENT_NZ$ + PATH_ABEMPTY$),
//simplified\n\t\tPATH_EMPTY$ = \"(?!\" + PCHAR$ + \")\",\n\t\tPATH$ = subexp(PATH_ABEMPTY$ + \"|\" +
PATH_ABSOLUTE$ + \"|\" + PATH_NOSCHEME$ + \"|\" + PATH_ROOTLESS$ + \"|\" +
PATH_EMPTY$),\n\t\tQUERY$ = subexp(subexp(PCHAR$ + \"|\" + merge(\"[\\\\/\\\\?]\", IPRIVATE$$)) +
\"*\"),\n\t\tFRAGMENT$ = subexp(subexp(PCHAR$ + \"|[\\\\/\\\\?]\") + \"*\"),\n\t\tHIER_PART$ =
subexp(subexp(\"\\\\/\\\\/\" + AUTHORITY$ + PATH_ABEMPTY$) + \"|\" + PATH_ABSOLUTE$ + \"|\" +
PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$),\n\t\tURI$ = subexp(SCHEME$ + \"\\\\:\" + HIER_PART$ +
subexp(\"\\\\?\" + QUERY$) + \"?\" + subexp(\"\\\\#\" + FRAGMENT$) + \"?\"),\n\t\tRELATIVE_PART$ =
subexp(subexp(\"\\\\/\\\\/\" + AUTHORITY$ + PATH_ABEMPTY$) + \"|\" + PATH_ABSOLUTE$ + \"|\" +
PATH_NOSCHEME$ + \"|\" + PATH_EMPTY$),\n\t\tRELATIVE$
 = subexp(RELATIVE_PART$ + subexp(\"\\\\?\" + QUERY$) + \"?\" + subexp(\"\\\\#\" + FRAGMENT$) +
\"?\"),\n\t\tURI_REFERENCE$ = subexp(URI$ + \"|\" + RELATIVE$),\n\t\tABSOLUTE_URI$ =
subexp(SCHEME$ + \"\\\\:\" + HIER_PART$ + subexp(\"\\\\?\" + QUERY$) + \"?\"),\n\n\t\tGENERIC_REF$ =
\"^(\" + SCHEME$ + \")\\\\:\" + subexp(subexp(\"\\\\/\\\\/(\" + subexp(\"(\" + USERINFO$ + \")@\") + \"?(\" +
HOST$ + \")\" + subexp(\"\\\\:(\" + PORT$ + \")\") + \"?)\") + \"?(\" + PATH_ABEMPTY$ + \"|\" +
PATH_ABSOLUTE$ + \"|\" + PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$ + \")\") + subexp(\"\\\\?(\" +
QUERY$ + \")\") + \"?\" + subexp(\"\\\\#(\" + FRAGMENT$ + \")\") + \"?$\",\n\t\tRELATIVE_REF$ = \"^(){0}\" +
subexp(subexp(\"\\\\/\\\\/(\" + subexp(\"(\" + USERINFO$ + \")@\") + \"?(\" + HOST$ + \")\" + subexp(\"\\\\:(\" +
PORT$ + \")\") + \"?)\") + \"?(\" + PATH_ABEMPTY$ + \"|\" + PATH_ABSOLUTE$ + \"|\" +
PATH_NOSCHEME$ + \"|\" + PATH_EMPTY$ + \")\") + subexp(\"\\\\?(\" + QUERY$ + \")\") + \"?\"
 + subexp(\"\\\\#(\" + FRAGMENT$ + \")\") + \"?$\",\n\t\tABSOLUTE_REF$ = \"^(\" + SCHEME$ + \")\\\\:\" +
subexp(subexp(\"\\\\/\\\\/(\" + subexp(\"(\" + USERINFO$ + \")@\") + \"?(\" + HOST$ + \")\" + subexp(\"\\\\:(\" +
PORT$ + \")\") + \"?)\") + \"?(\" + PATH_ABEMPTY$ + \"|\" + PATH_ABSOLUTE$ + \"|\" +
PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$ + \")\") + subexp(\"\\\\?(\" + QUERY$ + \")\") +
\"?$\",\n\t\tSAMEDOC_REF$ = \"^\" + subexp(\"\\\\#(\" + FRAGMENT$ + \")\") +
\"?$\",\n\t\tAUTHORITY_REF$ = \"^\" + subexp(\"(\" + USERINFO$ + \")@\") + \"?(\" + HOST$ + \")\" +
subexp(\"\\\\:(\" + PORT$ + \")\") + \"?$\"\n\t;\n\n\treturn {\n\t\tNOT_SCHEME : new RegExp(merge(\"[^]\",
ALPHA$$, DIGIT$$, \"[\\\\+\\\\-\\\\.]\"), \"g\"),\n\t\tNOT_USERINFO : new RegExp(merge(\"[^\\\\%\\\\:]\",
UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tNOT_HOST : new RegExp(merge(\"[^\\\\%\\\\[\\\\]\\\\:]\",
UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tNOT_PATH : new RegExp(merge(\"[^\\\\%\\\\/\\\\:\\\\@]\",
UNRESERVED$$, SUB_DELIMS$$),
 \"g\"),\n\t\tNOT_PATH_NOSCHEME : new RegExp(merge(\"[^\\\\%\\\\/\\\\@]\", UNRESERVED$$,
SUB_DELIMS$$), \"g\"),\n\t\tNOT_QUERY : new RegExp(merge(\"[^\\\\%]\", UNRESERVED$$,
SUB_DELIMS$$, \"[\\\\:\\\\@\\\\/\\\\?]\", IPRIVATE$$), \"g\"),\n\t\tNOT_FRAGMENT : new
RegExp(merge(\"[^\\\\%]\", UNRESERVED$$, SUB_DELIMS$$, \"[\\\\:\\\\@\\\\/\\\\?]\"), \"g\"),\n\t\tESCAPE :
new RegExp(merge(\"[^]\", UNRESERVED$$, SUB_DELIMS$$), \"g\"),\n\t\tUNRESERVED : new
RegExp(UNRESERVED$$, \"g\"),\n\t\tOTHER_CHARS : new RegExp(merge(\"[^\\\\%]\", UNRESERVED$$,
RESERVED$$), \"g\"),\n\t\tPCT_ENCODED : new RegExp(PCT_ENCODED$, \"g\"),\n\t\tIPV4ADDRESS : new
RegExp(\"^(\" + IPV4ADDRESS$ + \")$\"),\n\t\tIPV6ADDRESS : new RegExp(\"^\\\\[?(\" + IPV6ADDRESS$ +
```

\")\" + subexp(subexp(\"\\\\%25|\\\\%(?!\" + HEXDIG$$ + \"{2})\") + \"(\" + ZONEID$ + \")\") + \"?\\\\]?$\")
//RFC 6874, with relaxed parsing rules\n\t};\n}\n\nexport default buildExps(false);\n","export function
merge(...sets:Array<string>):string
{\n\tif (sets.length > 1) {\n\t\tsets[0] = sets[0].slice(0, -1);\n\t\tconst xl = sets.length - 1;\n\t\tfor (let x = 1; x < xl;
++x) {\n\t\t\tsets[x] = sets[x].slice(1, -1);\n\t\t}\n\t\tsets[xl] = sets[xl].slice(1);\n\t\treturn sets.join('');\n\t} else
{\n\t\treturn sets[0];\n\t}\n}\n\nexport function subexp(str:string):string {\n\treturn \"(?:\" + str + \")\";\n}\n\nexport
function typeOf(o:any):string {\n\treturn o === undefined ? \"undefined\" : (o === null ? \"null\" :
Object.prototype.toString.call(o).split(\" \").pop().split(\"]\").shift().toLowerCase());\n}\n\nexport function
toUpperCase(str:string):string {\n\treturn str.toUpperCase();\n}\n\nexport function toArray(obj:any):Array<any>
{\n\treturn obj !== undefined && obj !== null ? (obj instanceof Array ? obj : (typeof obj.length !== \"number\" ||
obj.split || obj.setInterval || obj.call ? [obj] : Array.prototype.slice.call(obj))) : [];\n}\n\n\nexport function
assign(target: object, source: any): any {\n\tconst obj = target as
any;\n\tif (source) {\n\t\tfor (const key in source) {\n\t\t\tobj[key] = source[key];\n\t\t}\n\t}\n\treturn
obj;\n}"],"names":["SCHEMES","uuid","scheme","urn","mailto","https","http","urnComponents","nss","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","xl","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$$","isIRI","domainHost","
port","host","toString","URI_PROTOCOL","IRI_PROTOCOL","ESCAPE","escapeComponent","uriA","uriB","typ
eOf","equal","uri","normalize","resolveComponents","baseURI","schemelessOptions","relativeURI","assign","resol
ve","target","fragment","relative","base","userinfo","removeDotSegments","charAt","skipNormalization","uriToken
s","s","authority","absolutePath","reference","_recomposeAuthority","protocol","IPV6ADDRESS","test","output","
Error","input","im","RDS5","pop","RDS3","RDS2","RDS1","$1","$2","_normalizeIPv6","_normalizeIPv4","_","uri
String","isNaN","indexOf","parseInt","NO_MATCH_IS_UNDEFINED","URI_PARSE","newHost","zone","newFi
rst","newLast","longestZeroFields","index","b","a","allZeroFields","sort","acc","lastLongest","field","reduce","field
Count","isLastFieldIPv4Address","firstFields","lastFields","lastFieldsStart","Array","IPV4ADDRESS","last","map"
,"_stripLeadingZeros","first","address","reverse","NOT_FRAGMENT","NOT_QUERY","NOT_PATH","NOT_PA
TH_NOSCHEME","NOT_HOST","NOT_USERINFO","NOT_SCHEME","_normalizeComponentEncoding","new
Str","substr","i","fromCharCode","c","c2","c3","il","chr","charCodeAt","encode","decode","ucs2encode","ucs2deco
de","regexNonASCII","string","mapDomain","regexPunycode","n","delta","handledCPCount","adapt","handledCP
CountPlusOne","basicLength","stringFromCharCode","digitToBasic","q","floor","qMinusT","baseMinusT","t","k",
"bias","tMin","tMax","currentValue","maxInt","m","inputLength","delimiter","initialBias","initialN","fromCodePoi
nt","splice","out","oldi","w","digit","basicToDigit","basic","j","baseMinusTMin","skew","numPoints","firstTime","
damp","flag","codePoint","array","value","extra","counter","result","encoded","labels","fn","regexSeparators","part
s","RangeError","errors","type","Math","buildExps","IPV6ADDRESS$","ZONEID$","IPV4ADDRESS$","RESER
VED$$","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$","IPV6ADDRESS4$","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,IAAAz
B;YAAA;;;QACKA,KAAK/R,MAAAL,GAAAc,CAAAlB,EAAAqB;aACf,CAAAL,IAAAU+R,KAAAK,CAAAL,EAAAQrQ,KA
AR,CAAAc,CAAAd,EAAAiB,CAAAC,CAAAlB,CAAAV;YACMK,KAAAKgQ,KAAAK/R,MAAAL,GAAAc,CAAAzB;aACK,IAA
IgB,IAAAI,CAAAb,EAAAgBA,IAAAIe,EAAApB,EAAAwB,EAAAEf,CAA1B,EAA6B;iBACvBA,CAAAL,IAAAU+Q,KAAAK/Q
,CAAAL,EAAAQU,KAAAR,CAAAc,CAAAd,EAAAiB,CAAAC,CAAAlB,CAAAV;;aAEIK,EAAAL,IAAAWgQ,KAAAKhQ,EAAAL,E
AASL,KAAAT,CAAAe,CAAAf,CAAAX;eACOqB,KAAAKhS,IAAAL,CAAAU,EAAAV;KAPD,MAAQO;eACCgS,KAAA
K,CAAAL,CAAAP;;;AAIF,AAAAA,SAAAA3O,MAAAA,CAAAuBV,GAAAvB,EAAAA;WACQ,QAAAQA,GAAAR,GAAAc,GA
ArB;;AAGD,AAAAA,SAAAAuB,MAAAA,CAAAuB2N,CAAAvB,EAAAA;WACQA,MAAAM3S,SAAAN,GAAAkB,WAAAlB,G
AAiC2S,MAAAM,IAAAN,GAAAa,MAAAb,GAAAsBC,OAAAOF,SAAAP,CAAAiBjO,QAAAjB,CAAA0BgO,IAA1B1B,CAA+BE,
CAA/B,EAAAkCzP,KAAAlC,CAAAwC,GAAAxC,EAA6C8D,GAA7C,GAAAmD9D,KAAAnD,CAAAyD,GAAAzD,EAA8D2
P,KAA9D,GAAAsEnT,WAAAtE,EAA9D;;AAGD,AAAAA,SAAAA2B,WAAAA,CAAA4BoC,GAAA5B,EAAAA;WACQA,MAAAM,IA
AIpC,WAAAJ,EAAAP;;AAGD,AAAAA,SAAA0B,WAAAA,CAAAwBsP,GAAAxB,EAAAA;WACQA,QAAAQrS,SAAAR,IAAA
qBqS,QAAAQ,IAA7B,GAAAqCA,eAAAenJ,KAAAf,GAAAuBmJ,GAAAvB,GAA8B,OAAAOA,IAAAItR,MAAAX,KAAAsB,QA
AtB,IAAAkCsR,IAAAInP,KAAAtC,IAA+CmP,IAAAIG,WAAAnD,IAAAkEH,IAAAII,IAAAtE,GAA6E,CAACJ,GAAAD,CAA7
E,GAAAqFnJ,MAAAMwJ,SAAAN,CAAAgBjQ,KAAAhB,CAAAsBgQ,IAAAtB,CAA2BJ,GAA3B,CAAAxJ,GAA4L,EAAAnM;;
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CI6M,MAAAJ,EAAAY;aACN,IAAAMD,GAAAX,IAAAkBC,MAAAlB,EAA0B;gBACrBD,GAAAJ,IAAAWC,GAAAP,CAAAV,EAAAP,
,CAAAX;;;WAGKD,GAAAP;;;ADnCD,SAAA3D,SAAA,CAA1BrK,KAA1B,EAAAA;QAAEE4K,UAAAU,OAAAX,CAAAW,
mD,MAAAM,SAAFP;QAGClD,UAAAU,OAAAX,CAAAW,OAAAX,CAAAiCiD,WAAAW,SAAJZ;QAKC/N,N/WAAWR,SAAAR,
,UAAAf,CALZ;;WAMQ,SANR;QAOCgD,OAAAO,SAAAP;QAQCjO,eAAAeE,OAAAO,OAAAO,YAAAC,QAAAZ,GAAAuu
B,GAAAvB,GAA6BA,GAA7BA,BA,QAA7B,GAAAwCA,QAAAxC,GAAAmD,GAAAnD,GAAAyDA,QAAAzD,GAAAoEA,QAA3E,IAAAuF
,GAAAvF,GAA6BA,FD,OAAO,gBAAAgBC,QAAAhB,GAA2BA,B,GAA3BA,CAAAiCA,QAAAjC,GAA4CA,CA,QAAAnD,CAA7F,GA
A4J,GAA5J,GAAAkKD,OAAO,MAAAMC,QAAAN,GAAAiBA,QAAAxB,CAAAzK,CARhB;;mBASgB,yBAThB;QAUC2
K,eAAAe,qCAAVhB;QAWCD,aAAAalL,MAAAMqO,YAAAN,EAAAoBlD,YAAApB,CAAXd;QAYCiD,YAAAY3N,QAAAQ,6E
AAR,GAAAwF,IAAZrG;;iBAAAacA,QAAAQ,mBAAAR,GAAA8B,IAAAb5C;;mBAAAgBT,MAAAqL,OAAAN,EAAAeC,OAAAf,EA
AwB,gBAAAxB,EAA0C8C,SAA1C,CAAhB;QAeCtC,UAAAUvL,OAAAO8K,UAAAUrL,MAAAMqL,OAAAN,EAAAeC,O
AAf,EAAwB,aAAAxB,CAAV,GAAAmD,GAA1D,CAAfX;QAgBCgB,YAAAjL,OAAAO,OAAAO,eAAAe,QAAAZ,GAAAuBL,
L,MAAMC,YAAAN,EAAAoBkL,YAAApB,EAAAkC,OAAAlC,CAA5B,EAA+B,IAA0E,GAAAjF,CAAhBb;QAiBCgD,OAAAO
A0BA,OAAO,WAAW+K,OAAAlB,CAA1B,EAAGA,GAAAuD,GAAAvD,GAAAwD/K,QAAAxD,GAAAmE,GAAAnE,GAAAyE,QAAAzE,
AvB,CAA7D,GAA+BA,F,GAA/BA,CAAAqCA,QAAArC,GAAAmEA,QAAAnE,GAAAyEA,QAAAzE,GAAAoEA,QAAAnE,GAAAyE,I
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L;yCACkBiC,IAAjB,GAAwBU,kBAAkBc,OAAO,CAAP,CAAlB,EAA6BzD,OAA7B,CAAxB;;;yCAGiB,IAAjB;g
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Ab;iBAEK,CAAL,IAAUZ,kBAAkBU,KAAK,CAAL,CAAlB,CAAV;gBAEI,CAACrD,QAAQsD,cAAb,EAA6B;;o
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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

1.352 postcss 6.0.23

1.352.1 Available under license :

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1.353 css-selector-tokenizer 0.7.1

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1.354 json-schema-traverse 0.4.1

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1.355 fast-json-stable-stringify 2.0.0

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1.356 postcss-modules-values 1.3.0

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1.357 regexpu-core 1.0.0

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1.358 postcss-modules-local-by-default 1.2.0

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1.359 postcss-modules-scope 1.1.0

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1.360 ansi-styles 3.2.1

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1.361 color-name 1.1.3

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1.362 color-convert 1.9.1

1.362.1 Available under license :

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1.363 isodate 0.6.0

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* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/src/isodate/__init__.py
* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/src/isodate/tests/test_datetime.py
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* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/src/isodate/isodatetime.py
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*
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* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/src/isodate/tests/test_time.py
* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/src/isodate/tests/test_duration.py
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Metadata-Version: 1.1
Name: isodate
Version: 0.6.0
Summary: An ISO 8601 date/time/duration parser and formatter
Home-page: https://github.com/gweis/isodate/
Author: Gerhard Weis
Author-email: gerhard.weis@proclos.com
License: BSD
Description:
ISO 8601 date/time parser
==========

.. image:: https://travis-ci.org/gweis/isodate.svg?branch=master
:target: https://travis-ci.org/gweis/isodate
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This module implements ISO 8601 date, time and duration parsing.
The implementation follows ISO8601:2004 standard, and implements only
date/time representations mentioned in the standard. If something is not
mentioned there, then it is treated as non existent, and not as an allowed
option.

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

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

Documentation

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

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

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

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

Installation:

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

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

Limitations:
---

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

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

Further information:

The doc strings and unit tests should provide rather detailed information about

the methods and their limitations.

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

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

CHANGES
=======

0.6.0 (2017-10-13)

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

0.5.4 (2015-08-06)

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

0.5.1 (2014-11-07)

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

0.5.0 (2014-02-23)

- ISO8601Error are subclasses of ValueError now (Michael Hrivnak)
- improve compatibility across various python
variants and versions
- raise exceptions when using fractional years and months in date
  maths with durations
- renamed method todatetime on Duraction objects to totimedelta

0.4.9 (2012-10-30)

- support pickling FixedOffset instances

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

0.4.8 (2012-05-04)

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

0.4.7 (2012-01-26)

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

0.4.6 (2012-01-06)

- added Python 3 compatibility via 2to3

0.4.5 (2012-01-06)

- made setuptools dependency optional

0.4.4 (2011-04-16)

- Fixed formatting of microseconds for datetime objects

0.4.3 (2010-10-29)

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

0.4.2 (2010-10-28)

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

0.4.1 (2010-10-13)

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

0.4.0 (2009-02-09)

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

0.3.0 (2009-1-05)

- Initial release

TODOs
=====

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

Missing features:
----

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

Documentation:
----

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

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

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

* Duration:
  - support fractional years and month in calculations
  - implement w3c order relation? (`<http://www.w3.org/TR/xmlschema-2/#duration-order>`_)

- refactor to have duration mathematics only at one place.
- localize __str__ method (does timedelta do this?)
- when is a Duration negative?
- normalize Durations. months [00-12] and years]-inf,+inf[

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
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Classifier:
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Classifier: Programming Language :: Python :: 2.6
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Classifier: Programming Language :: Python :: 3.4
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* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/PKG-INFO

1.364 bcrypt 3.1.7

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375dc46/LICENSE.rst
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"""
A library to support the Internationalised Domain Names in Applications
(IDNA) protocol as specified in RFC 5890 et.al. This new methodology,
known as IDNA 2008, can generate materially different results to the
previous standard. The library can act as a drop-in replacement for
the "encodings.idna" module.
"""

import io, sys
from setuptools import setup


def main():

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

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

  arguments = {
     'name': 'idna',
     'packages': ['idna'],
     'version': package_data['__version__'],
     'description': 'Internationalized Domain Names in Applications (IDNA)',
     'long_description': io.open("README.rst", encoding="UTF-8").read(),
     'author': 'Kim Davies',
     'author_email': 'kim@cynosure.com.au',
      'license': 'BSD-like',
     'url': 'https://github.com/kjd/idna',
     'classifiers': [
        'Development Status :: 5 - Production/Stable',
        'Intended Audience :: Developers',
        'Intended Audience :: System Administrators',
        'License :: OSI Approved :: BSD License',
```

```
        'Operating System :: OS Independent',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Topic :: Internet :: Name Service (DNS)',
        'Topic :: Software Development :: Libraries :: Python Modules',
        'Topic :: Utilities',
    ],
    'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
     'test_suite': 'tests',
  }

  setup(**arguments)

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

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* /opt/cola/permits/1110810307_1606855956.29/0/kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/setup.py

1.366 ajv 6.10.0

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1.368 pyhamcrest 1.9.0

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1.377 gojsonpointer e0fe6f68307607d540ed8eac07a342c33fa1b54a

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1.378 postcss-value-parser 3.3.0

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1.379 jsonschema 3.0.1

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1.380 icss-utils 2.1.0

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1.381 fastparse 1.1.1

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1.382 ajv-keywords 3.4.0

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1.383 chalk 2.3.2

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1.384 pyrsistent 0.15.6

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1.385 style-loader 0.21.0

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1.386 css-loader 1.0.1

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1.387 css-selector-tokenizer 0.7.0

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1.388 coreutils 8.31

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1.393 mpdecimal 2.4.2

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1.395 rsyslog 8.2006.0

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1.396 asn1.js 2.0.19

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1.397 python-dateutil 2.7.3-1.ph3

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1.398 pexpect 4.6.0-3.ph3

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1.399 openssl 1.1.1j

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

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a patent
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

```
  Gnomovision version 69, Copyright (C) 19yy name of author
  Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
  This is free software, and you are welcome to redistribute it
  under certain conditions; type `show c'
for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

```
 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into
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library. If this is what you want to do, use the GNU Library General
Public
 License instead of this License.

The "Artistic License"

Preamble

The intent of this document is to state the conditions under which a
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the Package in a more-or-less customary fashion, plus the right to make
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b) use the modified Package only within your corporation or organization.

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d) make other distribution arrangements with the Copyright Holder.

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form, provided that you do at least ONE of the following:

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b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

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5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided
that you do not advertise this Package as a
product of your own. You may embed this Package's interpreter within an executable of yours (by linking); this shall be construed as a mere form of aggregation, provided that the complete Standard Version of the interpreter is so embedded.

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7. C subroutines
(or comparably compiled subroutines in other
languages) supplied by you and linked into this Package in order to
emulate subroutines and variables of the language defined by this
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The End

1.400 glibc 2.33

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@subheading Preamble

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

system.

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library'' and a ``work that uses the library''. The former
contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A ``library'' means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The ``Library'', below, refers to any such software library or work which has been distributed under these terms. A ``work based on the Library'' means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it,
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``Source code'' for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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and what the program that uses the Library does.

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@enumerate a
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The modified work must itself be a software library.

@item
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cause the whole of the work to be licensed at no
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@item
If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any

application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)
@end enumerate

These requirements apply to the modified work as a whole. If
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subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

@item
You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form

under the terms of Sections 1 and
2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

@item
A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a ``work that uses the Library''. Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

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
library''. The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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
Library will still fall under Section 6.)

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.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

@item
As an exception to the Sections above, you may also combine or

link a ``work that uses the Library'' with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

@enumerate a
@item
Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library'', as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

@item
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 properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

@item
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 than the cost of performing this distribution.

@item
If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above

specified materials from the same place.

@item
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

For an executable, the required form of the ``work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that
is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
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It may happen that this requirement contradicts the license
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accompany the operating system. Such a contradiction means you cannot
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distribute.

@item
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library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

@enumerate a
@item
Accompany the combined library with a copy of the same work
based on the Library,
uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

@item
Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.
@end enumerate

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1.402 pcre 8.44

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1.403 libxml 2.9.10

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1.404 cryptography 3.3.2

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1.407 python-certifi 2019.11.28

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

1.408 msgpack 0.6.2

1.408.1 Available under license :

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1.409 python-certifi 2019.9.11

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This packge contains a modified version of ca-bundle.crt:

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

1.410 python3-asn1crypto 0.24.0-1.ph3

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1.411 pem 21.1.0

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1.412 python-requests 2.22.0

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1.413 urllib3 1.25.6

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SOFTWARE.
Contributions to the urllib3 project

Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

Contributors

In chronological order:

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

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

* niphlod <niphlod@gmail.com>
 * Client-verified SSL certificates for HTTPSConnectionPool
 * Response gzip and deflate encoding support

 * Better unicode support for filepost using StringIO buffers

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

requests like GET.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

1.414 python-pip 19.3.1

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team.
In October of the same
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Release	Derived from	Year	Owner	GPL-compatible? (1)
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
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A. HISTORY OF THE SOFTWARE
==========

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

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
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All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes

2.7	2.6	2010	PSF	yes

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

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1.6.1	1.6	2001	CNRI	yes (2)
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2.1.1	2.1+2.0.1	2001	PSF	yes
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2.1.2	2.1.1	2002	PSF	yes
2.1.3				

2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
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2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
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2.4.4	2.4.3	2006	PSF	yes
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2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
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3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
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http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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

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

2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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

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

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

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes

2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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

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1.417 attrs 19.3.0

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1.418 python-requests 2.21.0

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1.419 pyopenssl 19.1.0

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/opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/test_debug.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/codec/cer/encoder.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/codec/ber/test_encoder.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/compat/test_integer.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/codec/native/test_decoder.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/setup.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/compat/octets.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/codec/cer/decoder.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/type/test_useful.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/compat/binary.py
*
/opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/type/__main__.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/type/univ.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/type/base.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/codec/der/encoder.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/codec/cer/__main__.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/type/tagmap.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/compat/calling.py
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* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/type/error.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/type/constraint.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/codec/__main__.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/compat/string.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/debug.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/codec/der/decoder.py
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* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/__main__.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/type/test_namedtype.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/type/test_char.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/codec/der/test_encoder.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/type/test_namedval.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/codec/ber/decoder.py
* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/compat/integer.py

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

[![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/)
[![Build status](https://travis-ci.org/etingof/pyasn1.svg?branch=master)](https://secure.travis-ci.org/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
network or read from a file, into a Python object which you can
introspect, modify,
 encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

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

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

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

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id':
```

```
 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
```

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

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

How to get pyasn1

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

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

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

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* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/README.md
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ASN.1 library for Python
==========

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

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

What is ASN.1

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

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

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

In the following years, generations of software engineers tackled the serialisation
problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-buffers/>`_
or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example.
Interestingly, many new takes on binary protocol design do not depart
far from ASN.1 from technical perspective. It's more of a matter of striking
a balance between processing overhead, wire format overhead and human
readability.

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

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

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

* Schema language: ASN.1 data structures could be described in terms

of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications

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

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

ASN.1 gotchas

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

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

Documentation

.. toctree::
  :maxdepth: 2

  /pyasn1/contents

Use case

.. toctree::
  :maxdepth: 2

  /example-use-case

Download & Install

.. toctree::
  :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

  /license

Getting help

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

Books on ASN.1

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

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

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

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

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

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

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

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1.423 urllib3 1.24.2

1.423.1 Available under license :

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Contributions to the urllib3 project

Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

Contributors

In chronological order:

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

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

* niphlod <niphlod@gmail.com>
 * Client-verified SSL certificates for HTTPSConnectionPool
 * Response gzip and deflate encoding support
 * Better unicode support for filepost using StringIO buffers

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Peter Waller <p@pwaller.net>

* HTTPResponse.tell() for determining amount received over the wire

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Andy Caldwell <andy.m.caldwell@googlemail.com>

* Bugfix related to reusing connections in indeterminate states.

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

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

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

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

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

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

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

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

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

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

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

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

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

* Erik Rose <erik@mozilla.com>

* Bugfix to pyopenssl vendoring

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

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

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

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

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

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

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

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

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

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

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

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

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

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

1.424 cyrus-sasl 2.1.27

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* Tim Martin
* Rob Earhart
* Rob Siemborski
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1.425 docker-compose 1.24.1

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1.426 rfc3987 1.3.7

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and valid for as
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1.427 loader-utils 1.2.3

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1.429 celery 4.3.0

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Every contribution to Celery is as important to us,
as every coin in the money bin is to Scrooge McDuck.

The first commit to the Celery codebase was made on
Fri Apr 24 13:30:00 2009 +0200, and has since
then been improved by many contributors.

Everyone who have ever contributed to Celery should be in
this list, but in a recent policy change it has been decided
that everyone must add themselves here, and not be added
by others, so it's currently incomplete waiting for everyone
to add their names.

The list of authors added before the policy change can be found in docs/AUTHORS.txt.

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Joe Sanford, 2016/04/11
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Arthur Vuillard, 2016/04/22
Colin McIntosh, 2016/04/26
Jeremy Zafran, 2016/05/17
Anand
Reddy Pandikunta, 2016/06/18
Adriano Martins de Jesus, 2016/06/22
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Xin Li, 2016/08/03
Alli Witheford, 2016/09/29
Alan Justino da Silva, 2016/10/14
Marat Sharafutdinov, 2016/11/04
Viktor Holmqvist, 2016/12/02
Rick Wargo, 2016/12/02
zhengxiaowai, 2016/12/07
Michael Howitz, 2016/12/08
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Mike Chen, 2016/12/20
Alejandro Pernin, 2016/12/23
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A. HISTORY OF THE SOFTWARE
==========

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

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)

2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1	2001-now		PSF	yes

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

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

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1.431 django 2.1.4

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

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

.. admonition:: Basic tools and workflow

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

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

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

* **Sign the Contributor License Agreement**

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

* **Triage tickets**

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

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

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

* **Keep old patches up to date**

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

* **Write some documentation**

  Django's documentation is great but it can always be improved. Did you find

a typo? Do you think that something should be clarified? Go ahead and
suggest a documentation patch! See also the guide on
:doc:`writing-documentation`.

.. note::

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

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

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

Guidelines
==========

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

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

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

* **Analyze tickets' context and history**

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

* **Start small**

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

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

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

* **Be bold! Leave feedback!**

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

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

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

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

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

* **Be rigorous**

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

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

.. _new-contributors-faq:

FAQ
===

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

   First off, it's not personal. Django is entirely developed by volunteers
   (except the Django fellow), and sometimes folks just don't have time. The

best thing to do is to
send a gentle reminder to the |django-developers|
mailing list asking for review on the ticket, or to bring it up in the
`#django-dev` IRC channel.

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

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

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

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

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

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

All Python releases are Open Source (see http://www.opensource.org for
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releases have also been GPL-compatible; the table below summarizes
the various releases.

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

2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1	2001-now		PSF	yes

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

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1.439 python3-asn1crypto 1.2.0

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1.443 blessed 1.17.5

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1.445 autobahn 18.9.1

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1.446 websocket-client 0.40.0

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1.451 taglib 0.12.1

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1.452 openpyxl 2.5.6

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

:target: https://coveralls.io/bitbucket/openpyxl/openpyxl?branch=default
:alt: coverage status

Introduction
---

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

It was born from lack of existing library to read/write natively from Python
the Office Open XML format.

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

Mailing List

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

Sample code::

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

# grab the active worksheet
ws = wb.active

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

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

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

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

Documentation

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

* installation methods
* code examples
* instructions for contributing

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

Platform: UNKNOWN
Classifier:
Development Status :: 5 - Production/Stable
Classifier: Operating System :: MacOS :: MacOS X
Classifier: Operating System :: Microsoft :: Windows
Classifier: Operating System :: POSIX
Classifier: License :: OSI Approved :: MIT License
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*

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

1.453 python-ldap 3.1.0

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1.454 djangorestframework 3.8.2

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1.455 docker 19.03.5

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package licensing

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

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

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

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

 return license, nil
}

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

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

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

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

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

```
 key := keys[0]

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

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

 checkRes := new(model.CheckResponse)

 err = json.Unmarshal(payload, &checkRes)
 if
 err != nil {
  return nil, errors.Wrapf(err, errors.Fields{
   "key_id": keyID,
  }, "license payload unmarshal failed")
 }

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

 return checkRes, nil
}

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

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

```
   "key_id": license.KeyID,
  }, "decoding license authorization
 failed")
 }
 return decoded, nil
}

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

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

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

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

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

 return nil
}

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

 h := hmac.New(sha256.New, key)
 h.Write([]byte(message))
```

```
return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}
```

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procfs provides functions to retrieve system, kernel and process
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```
package model

import "time"

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

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

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

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

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

return true, ""
}
```

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```
package engine

import (
 "time"

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

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

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

```
// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format
 {
 switch source {
 case formatter.TableFormatKey:
  if quiet {
   return defaultSubscriptionsQuietFormat
  }
  return defaultSubscriptionsTableFormat
 case formatter.RawFormatKey:
  if quiet {
   return `license: {{.ID}}`
  }
  return `license: {{.ID}}\nname: {{.Name}}\nowner: {{.Owner}}\ncomponents: {{.ComponentsString}}\n`
 }
 return formatter.Format(source)
}

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

```
}

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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package engine

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

"github.com/docker/cli/cli/command/formatter"
"github.com/docker/cli/internal/licenseutils"

```
 "github.com/docker/licensing/model"
 "gotest.tools/assert"
 is "gotest.tools/assert/cmp"
)

func TestSubscriptionContextWrite(t *testing.T) {
 cases := []struct {
  context  formatter.Context
  expected string
 }{
  // Errors
  {
   formatter.Context{Format: "{{InvalidFunction}}"},
   `Template parsing error: template: :1: function "InvalidFunction" not defined
`,
  },
  {
   formatter.Context{Format: "{{nil}}"},
   `Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command
`,
  },
  // Table format
  {
   formatter.Context{Format: NewSubscriptionsFormat("table", false)},
   `NUM                OWNER               PRODUCT ID          EXPIRES                         PRICING COMPONENTS
1                   owner1              productid1          2020-01-01 10:00:00 +0000 UTC   compstring
2
                    owner2              productid2          2020-01-01 10:00:00 +0000 UTC   compstring
`,
  },
  {
   formatter.Context{Format: NewSubscriptionsFormat("table", true)},
   `1:License Name: name1 Quantity: 10 nodes Expiration date: 2020-01-01
2:License Name: name2 Quantity: 20 nodes Expiration date: 2020-01-01
`,
  },
  {
   formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
   `OWNER
owner1
owner2
`,
  },
  {
   formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)},
   `OWNER
owner1
owner2
```

```
`,
  },
  // Raw Format
  {
   formatter.Context{Format: NewSubscriptionsFormat("raw", false)},
   `license: id1
name: name1
owner: owner1
components: compstring

license: id2
name: name2
owner: owner2
components: compstring

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

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

 for _, testcase := range cases {
  subscriptions := []licenseutils.LicenseDisplay{
   {
    Num:   1,
    Owner: "owner1",
    Subscription: model.Subscription{
     ID:        "id1",
     Name:      "name1",
     ProductID: "productid1",
     Expires:   &expiration,
     PricingComponents: model.PricingComponents{
      &model.SubscriptionPricingComponent{
       Name:  "nodes",
```

```
      Value: 10,
     },
    },
   },
   ComponentsString: "compstring",
  },
  {
   Num:   2,
   Owner: "owner2",
   Subscription: model.Subscription{
    ID:       "id2",
    Name:     "name2",
    ProductID: "productid2",
    Expires:   &expiration,
    PricingComponents: model.PricingComponents{
     &model.SubscriptionPricingComponent{
      Name:  "nodes",
      Value: 20,
     },
    },
   },
   ComponentsString: "compstring",
  },
 }
 out := &bytes.Buffer{}
 testcase.context.Output
= out
 err := SubscriptionsWrite(testcase.context, subscriptions)
 if err != nil {
  assert.Error(t, err, testcase.expected)
 } else {
  assert.Check(t, is.Equal(testcase.expected, out.String()))
 }
 }
}

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

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

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

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

func TestSubscriptionContextWriteJSONField(t *testing.T) {
 subscriptions := []licenseutils.LicenseDisplay{
  {Num: 1, Owner:
 "owner1"},
  {Num: 2, Owner: "owner2"},
 }
 out := &bytes.Buffer{}
```

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

1.456 python-dateutil 2.8.1-2.ph4

1.456.1 Available under license :

```
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--------------------------------------------------------------------------------
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1.457 python-certifi 2019.09.11

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

1.458 bridgeutils 1.6.0

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1.461 browserify-des 1.0.2

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1.462 linux-headers 4.9.107

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>>> freebsd-base64-4.8

>>> unicode-5.0

==========

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base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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1.465 parse-asn1 5.1.1

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1.466 python-certifi 2019.11.28

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This packge contains a modified version of ca-bundle.crt:

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

1.467 supports-color 5.3.0

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1.468 remove-trailing-separator 1.1

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1.469 procps 3.3.15

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# The agreement for individuals can be filled out on the web.

# Names should be added to this file like so:
#     Individual's name <submission email address>
#     Individual's name <submission email address> <email2> <emailN>
#
# An entry with multiple email addresses specifies that the
# first address should be used in the submit logs and
# that the other addresses should be recognized
 as the
# same person when interacting with Gerrit.

# Please keep the list sorted.

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1.479 json5 1.0.1

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1.485 lodash 4.17.11

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1.490 html5lib 1.0.1

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