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 - 1.473.1 Available under license
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- 1.475 linux-headers 4.9.107**
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1.2 lua 5.1.5

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1.3 concat-map 0.0.1

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1.4 **minimist 0.0.8**

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1.5 **mkdirp 0.5.1**

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1.6 underscore 1.8.3

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1.7 has-ansi 2.0.0

1.7.1 Available under license :

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

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

```
## Install
```

```
---
```

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

```
---
```

```
## Usage
```

```
```js
```

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

```
hasAnsi('\u001b[4mcake\u001b[0m');
```

```
//=> true
```

```
hasAnsi('cake');
```

```
//=> false
```

```

```

```
Related
```

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

```
License
```

```
MIT Â© [Sindre Sorhus](http://sindresorhus.com)
```

# 1.8 supports-color 2.0.0



## 1.8.1 Available under license :

```
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
```

```
License
```

```
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```

## 1.9 unicodecsv 0.14.1

### 1.9.1 Available under license :

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```
license='BSD License',
```

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

Found in path(s):

\* /opt/cola/permits/113619482\_1695287522.204296/0/unicodcsv-0-14-1-3-tar-gz/unicodcsv-0.14.1/setup.py

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

Metadata-Version: 1.1

Name: unicodcsv

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-unicodcsv>

Author: Jeremy Dunck

Author-email: [jdunck@gmail.com](mailto:jdunck@gmail.com)

License: BSD License

Description: unicodcsv

=====

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

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

Platform: UNKNOWN  
Classifier: Development Status :: 5 - Production/Stable  
Classifier: Intended Audience :: Developers  
Classifier: License :: OSI Approved :: BSD License  
Classifier: Natural Language :: English  
Classifier: Programming Language :: Python :: 2.6  
Classifier: Programming Language  
:: Python :: 2.7  
Classifier: Programming Language :: Python :: 3.3  
Classifier: Programming Language :: Python :: 3.4  
Classifier: Programming Language :: Python :: 3.5  
Classifier: Programming Language :: Python :: Implementation :: PyPy  
Classifier: Programming Language :: Python :: Implementation :: CPython

Found in path(s):

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

## 1.10 buffer-xor 1.0.3

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# 1.11 backbone 1.2.3

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# 1.12 syslinux 6.03

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```

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Ty Coon, President of Vice

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

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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](mailto:s@sashahart.net)

License: UNKNOWN

Description: What is this and what is it for?

-----

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

Features

-----

- \* Rendering according to the excellent new RFC 6265 (rather than using a unique ad hoc format inconsistently relating to unrealistic, very old RFCs which everyone ignored). Uses URL encoding to represent

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

- \* Liberal parsing, incorporating many complaints about Cookie.py barfing on common cookie formats which can be reliably parsed (e.g. search 'cookie' on the Python issue tracker)



- \* Well-documented code, with chapter and verse from RFCs (rather than arbitrary, undocumented decisions and huge tables of magic values, as you see in Cookie.py).
- \* Test coverage at 100%, with a much more comprehensive test suite than Cookie.py
- \* Single-source compatible with the following Python versions: 2.6, 2.7, 3.2, 3.3 and PyPy (2.7).
- \* Cleaner, less surprising API:

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

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

- \* Friendly to customization, extension, and reuse of its parts. Unlike Cookie.py, it doesn't lock all implementation inside its own classes (forcing you to write ugly wrappers as Django, Trac, Werkzeug/Flask, web.py

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

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

Things this is not meant to do

-----  
While this is intended to be a good module for handling cookies, it does not

even try to do any of the following:

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

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

- \* Write to or read from browsers' cookie stores  
or other proprietary  
formats for storing cookie data in files
- \* Handle the browser/client logic like deciding which cookies to send or discard, etc.

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

Platform: UNKNOWN

Classifier: Development Status :: 4 - Beta

Classifier: Environment :: Other Environment

Classifier: Intended Audience :: Developers

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Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

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

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\* /opt/cola/permits/148343421\_1695307977.777354/0/cookies-2-2-1-tar-gz/cookies-2.2.1/cookies.egg-info/PKG-INFO

\*

/opt/cola/permits/148343421\_1695307977.777354/0/cookies-2-2-1-tar-gz/cookies-2.2.1/PKG-INFO

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What is this and what is it for?

-----

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

## Features

-----

- \* Rendering according to the excellent new RFC 6265 (rather than using a unique ad hoc format inconsistently relating to unrealistic, very old RFCs which everyone ignored). Uses URL encoding to represent non-ASCII by default, like many other languages' libraries
- \* Liberal parsing, incorporating many complaints about Cookie.py barfing on common cookie formats which can be reliably parsed (e.g. search 'cookie' on the Python issue tracker)
- \* Well-documented code, with chapter and verse from RFCs (rather than arbitrary, undocumented decisions and huge tables of magic values, as you see in Cookie.py).
- \* Test coverage at 100%, with a much more comprehensive test suite than Cookie.py
- \* Single-source compatible with the following Python versions: 2.6, 2.7, 3.2, 3.3 and PyPy (2.7).
- \* Cleaner, less surprising API::

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

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

- \* Friendly to customization, extension, and reuse of its parts. Unlike Cookie.py, it doesn't lock all implementation inside its own classes

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

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

Things this is not meant to do

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

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

This doesn't compete with the cookielib (<http://cookielib>) 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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\* /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](mailto: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 (`dummy_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 dummy_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]: dummy_perf = min(timeit.Timer('dummy_update()', setup=setup).repeat(7, 100))
```

```
In [13]: print 'Bulk update performance: %.2f. Dummy update performance: %.2f. Speedup: %.2f.' % (bu_perf,  
dummy_perf, dummy_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

License

=====
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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

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* /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 :

MIT

1.25 browserify-sign 4.0.4

1.25.1 Available under license :

ISC

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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 xmldict 0.11.0

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1.29 appdirs 1.4.3

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1.30 strict-rfc3339 0.7

1.30.1 Available under license :

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Version 3, 29 June 2007

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1.47 strip-ansi 3.0.1

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1.48 brace 1.8.5

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1.49 chalk 1.1.3

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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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1.57 core-util-is 1.0.2

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1.58 readdirp 2.1.0

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1.59 randomatic 1.1.7

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1.60 punycode 1.4.1

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1.62 debug 2.6.9

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1.63 escape-string-regexp 1.0.5

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1.64 path-is-absolute 1.0.1

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1.66 expand-range 1.8.2

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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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1.72 micromatch 2.3.11

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1.80 graceful-fs 4.1.11

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1.88 webcolors 1.7

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1.89 ifupdown 0.8.16

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Upstream-Name: ifupdown

Source: <https://anonscm.debian.org/cgit/collab-maint/ifupdown.git>

Files: *

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1.93 glob 7.1.2

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1.162 moment 2.19.1

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Version 2.1, February 1999

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1.165 brace-expansion 1.1.11

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1.168 source-map 0.5.7

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1.169 coverage 4.3.4

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1.170 ipython-genutils 0.2.0

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1.173 wsaccel 0.6.2

1.173.1 Available under license :

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

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 Iunr 0.7.2

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1.178 pkijs 2.1.10

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1.179 js-cookie 2.1.4

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1.180 commander 2.15.1

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1.182 readable-stream 2.3.6

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Found in path(s):

```
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/src/uncompressed/TimelineMax.js
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-
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
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/CSSPlugin.js
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/TimelineLite.js
*
/opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/TweenLite.js
* /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
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/src/uncompressed/TimelineLite.js
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-
tgz/package/src/minified/plugins/CSSPlugin.min.js
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/src/uncompressed/TweenLite.js
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```

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* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-
tgz/package/src/minified/plugins/PixiPlugin.min.js
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/PixiPlugin.js
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-
tgz/package/src/uncompressed/plugins/PixiPlugin.js
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Found in path(s):

* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/src/uncompressed/plugins/ColorPropsPlugin.js
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/ColorPropsPlugin.js
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/src/minified/plugins/ColorPropsPlugin.min.js
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* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/src/uncompressed/plugins/EndArrayPlugin.js
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/src/minified/plugins/EndArrayPlugin.min.js
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/EndArrayPlugin.js
3b6db5483fda1df1d0ff00fbc41a47d7
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* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/DirectionalRotationPlugin.js
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/src/uncompressed/plugins/DirectionalRotationPlugin.js
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/src/minified/plugins/DirectionalRotationPlugin.min.js
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/*!
* VERSION: 0.16.0
* DATE: 2017-10-02
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*
* Requires TweenLite and CSSPlugin version 1.17.0 or later (TweenMax contains both TweenLite and CSSPlugin).
ThrowPropsPlugin is required for momentum-based continuation of movement after the mouse/touch is released
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* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/Draggable.js
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/src/minified/utils/Draggable.min.js
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/src/uncompressed/utils/Draggable.js
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```
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-  
tgz/package/src/uncompressed/easing/EasePack.js  
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/EasePack.js  
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-  
tgz/package/src/minified/easing/EasePack.min.js
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```
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-  
tgz/package/src/minified/plugins/RoundPropsPlugin.min.js  
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/RoundPropsPlugin.js  
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-  
tgz/package/src/uncompressed/plugins/RoundPropsPlugin.js
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* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-  
tgz/package/src/minified/plugins/RaphaelPlugin.min.js  
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-  
tgz/package/src/uncompressed/plugins/RaphaelPlugin.js  
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/RaphaelPlugin.js
```

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Found in path(s):

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* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/ScrollToPlugin.js  
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-  
tgz/package/src/uncompressed/plugins/ScrollToPlugin.js  
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-  
tgz/package/src/minified/plugins/ScrollToPlugin.min.js  
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```
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-  
tgz/package/src/minified/plugins/TextPlugin.min.js  
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/TextPlugin.js  
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-  
tgz/package/src/uncompressed/plugins/TextPlugin.js  
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```

```
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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
* of TweenLite won't work with this.
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```
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/TEMPLATE_Plugin.js
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-
tgz/package/src/uncompressed/plugins/TEMPLATE_Plugin.js
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```
/*!
* VERSION: 0.1.12
* DATE: 2017-01-17
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*
* Requires TweenLite version 1.8.0 or higher and CSSPlugin.
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Found in path(s):

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* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/jquery.gsap.js
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/src/minified/jquery.gsap.min.js
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/src/uncompressed/jquery.gsap.js
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```


Found in path(s):

```
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/EaselPlugin.js
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-
tgz/package/src/minified/plugins/EaselPlugin.min.js
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-
tgz/package/src/uncompressed/plugins/EaselPlugin.js
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```
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-
tgz/package/src/uncompressed/plugins/AttrPlugin.js
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/AttrPlugin.js
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-
tgz/package/src/minified/plugins/AttrPlugin.min.js
```

1.187 netns

2c9454e4fc6e2edc1a1c84e64ed3d6e662fb699

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1.188 netlink

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1.190 gojsonschema

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1.196 decorator 4.3.0

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1.200 create-ecdh 4.0.3

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1.202 create-hmac 1.1.7

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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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1.211 moment-duration-format 2.2.2

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1.212 ptyprocess 0.6.0

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1.213 backcall 0.1.0

1.214 jdcal 1.4

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1.219 txaio 18.8.1

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1.221 odfpy 1.3.6

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1.222 elliptic 6.4.1

1.223 supports-color 5.5.0

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1.224 punycode 2.1.1

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1.225 zlib 1.2.3

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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1.226 pynacl 1.3.0

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1.228 flatpickr 4.5.2

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1.229 babel-helper-regex 6.24.1

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1.230 responses 0.10.5

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1.231 colorama 0.4.1

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1.232 jquery-ui 1.12.1

1.233 webpack-jquery-ui 2.0.1

1.234 bzip2 1.0.8

1.235 iptables 1.8.3

1.236 open-ldap 2.4.48

1.237 select2 4.0.8

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1.238 sqlite 3.30.1

1.239 zlib 1.2.8

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1.240 zlib 1.2.5

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/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.11, January 15th, 2017
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1.241 json-c 0.99.8

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1.242 lua-cjson 2.1.0

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1.243 gmp 6.1.2

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```
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```

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1.244 net-tools 2.10

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1.245 ncurses 6.1

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```
-- vile:txtmode fc=72
-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
```

1.246 libvmtools 10.3.5.7752

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base64.c -- routines to encode/decode base64 data

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1.248 pyparsing 2.4.2

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1.249 packaging 19.1

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1.250 jsonref 0.2

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1.251 cryptography 2.8

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1.252 xz 5.2.4

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1.253 python-dockerpty 0.4.1

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1.254 core-js 2.5.5

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1.266 libyaml 0.2.2

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1.267 simplegeneric 0.8.1

1.267.1 Available under license :

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Operating System :: OS Independent
Topic :: Software Development :: Libraries :: Python Modules

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* /opt/ws_local/PERMITS_SQL/1026829156_1591848863.04/0/simplegeneric-0-8-1-zip/simplegeneric-0.8.1/classifiers.txt

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1.268 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 from 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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1.269 fs.realpath 1.0.0

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1.270 evp_bytestokey 1.0.3

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1.271 backbone.radio 2.0.0

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1.272 randombytes 2.0.6

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1.273 bn.js 4.11.8

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1.274 hash.js 1.1.5

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1.275 string_decoder 1.1.1

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1.276 asn1.js 4.10.1

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1.277 object.assign 4.1.1

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1.278 des.js 1.0.0

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1.279 Idap-filters 2.2.2

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1.281 sha.js 2.4.11

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1.282 backbone.marionette 3.4.4

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1.286 pyasn 0.1.9

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1.287 soundex 0.2.1

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1.288 start-stop-daemon 1.18.10

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1.290 service-identity 18.1.0

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1.291 docker-pycreds 0.4.0

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1.292 libevent 2.1.11

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1.293 fdisk 2.35.1

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1.295 python 3.8.2

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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, 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		
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1.297 log-rotate 3.15.1

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1.298 stunnel 5.56

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

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

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<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="$rest"/>  
      </xsl:call-template>  
    </xsl:if>  
  </xsl:template>
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<xsl:variable name="isc.copyright.text">
  <xsl:text>
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<xsl:variable name="isc.copyright">
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    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$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, Vtislav
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
Nieuwsma, 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
Sarar, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio

r, Balzs
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer

1.301 libnettle6 3.5.1

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1.302 jquery 3.5.1

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*

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* /opt/ws_local/PERMITS_SQL/1063016395_1592949447.38/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
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* /opt/ws_local/PERMITS_SQL/1063016395_1592949447.38/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
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* /opt/ws_local/PERMITS_SQL/1063016395_1592949447.38/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
0.4.4/tests/codec/cer/test_encoder.py
* /opt/ws_local/PERMITS_SQL/1063016395_1592949447.38/0/pyasn1-0-4-4-1-tar-gz/pyasn1-

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0.4.4/pyasn1/type/univ.py
* /opt/ws_local/PERMITS_SQL/1063016395_1592949447.38/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
0.4.4/tests/codec/native/test_encoder.py
* /opt/ws_local/PERMITS_SQL/1063016395_1592949447.38/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
0.4.4/tests/compat/test_integer.py
* /opt/ws_local/PERMITS_SQL/1063016395_1592949447.38/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
0.4.4/pyasn1/codec/der/decoder.py
* /opt/ws_local/PERMITS_SQL/1063016395_1592949447.38/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/setup.py
* /opt/ws_local/PERMITS_SQL/1063016395_1592949447.38/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
0.4.4/pyasn1/codec/ber/encoder.py
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/opt/ws_local/PERMITS_SQL/1063016395_1592949447.38/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
0.4.4/tests/type/test_opentype.py
* /opt/ws_local/PERMITS_SQL/1063016395_1592949447.38/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
0.4.4/pyasn1/type/namedtype.py
* /opt/ws_local/PERMITS_SQL/1063016395_1592949447.38/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
0.4.4/pyasn1/compat/integer.py
* /opt/ws_local/PERMITS_SQL/1063016395_1592949447.38/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
0.4.4/pyasn1/type/useful.py
* /opt/ws_local/PERMITS_SQL/1063016395_1592949447.38/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
0.4.4/pyasn1/codec/native/encoder.py
* /opt/ws_local/PERMITS_SQL/1063016395_1592949447.38/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
0.4.4/pyasn1/error.py
* /opt/ws_local/PERMITS_SQL/1063016395_1592949447.38/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
0.4.4/pyasn1/codec/ber/eoo.py

```

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ASN.1 library for Python

=====

```
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   :maxdepth: 1
```

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 it 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) <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.

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1063016395_1592949447.38/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/docs/source/contents.rst

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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>)

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Status](<https://img.shields.io/codecov/c/github/etingof/pyasn1.svg>)](<https://codecov.io/github/etingof/pyasn1>)

[![GitHub license](<https://img.shields.io/badge/license-BSD-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)
0000: 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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1.305 jsonschema 2.5.1

1.305.1 Available under license :

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1.306 pycparser 2.19

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pycparser -- A C parser in Python

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1.307 pyasn1 0.1.9

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1.308 ntp 4.2.8p15

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13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
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28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig

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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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44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50]Wilfredo Snchez <wsanchez@apple.com> added support for NetInfo
47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
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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
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58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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1.311 is-number 3.0.0

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1.315 lvm2 2.02.185

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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```
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```

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1.316 paramiko 2.7.2

1.316.1 Available under license :

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Version 2.1, February 1999

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,

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

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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.

6. 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.

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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 executable.

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1.319 cached-property 1.5.1

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1.320 channels 2.3.1

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(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.)

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4. 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.

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5. 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.

6. 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.

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- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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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

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1.327 libseccomp 2.4.1

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(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.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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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.

5. 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.

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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.)

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- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate 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.
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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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- * Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
- *
- * M. Welsh, 6 July 1996
- *
- *
- */

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1.331 prompt-toolkit 3.0.2

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1.332 psycopg 2.8.4

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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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1.335 text-table 1.6.2

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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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1.339 docker-proxy

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Protocol Buffers for Go with Gadgets

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<http://github.com/gogo/protobuf>

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

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1.341 libatomic-ops 7.6.10

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1.344 setuptools-scm 3.3.3

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1.345 fast-deep-equal 2.0.1

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1.346 isarray 1.0.0

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Found in path(s):

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

1.347 source-map 0.6.1

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1.348 postcss-modules-extract-imports 1.2.1

1.348.1 Available under license :

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1.349 has-flag 3.0.0

1.349.1 Available under license :

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1.350 uri-js 4.2.2

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URI.js

URI.js is an [RFC 3986](http://www.ietf.org/rfc/rfc3986.txt) compliant, scheme extendable URI parsing/validating/resolving library for all JavaScript environments (browsers, Node.js, etc).

It is also compliant with the IRI ([RFC 3987](http://www.ietf.org/rfc/rfc3987.txt)), IDNA ([RFC 5890](http://www.ietf.org/rfc/rfc5890.txt)), IPv6 Address ([RFC 5952](http://www.ietf.org/rfc/rfc5952.txt)), IPv6 Zone Identifier ([RFC 6874](http://www.ietf.org/rfc/rfc6874.txt)) specifications.

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

API

Parsing

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

Serializing

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

Resolving

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

Normalizing

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

Comparison

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

IP Support

```
//IPv4 normalization
```

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

```
//IPv6 normalization
```

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

```
//IPv6 zone identifier support
```

```
URI.parse("//[2001:db8::7%25en1]");
```

```
//returns:
```

```
//{
```

```
// host : "2001:db8::7%en1"
```

```
//}
```

IRI Support

```
//convert IRI to URI
```

```
URI.serialize(URI.parse("http://exampl.org/ros")) === "http://xn--exampl-gva.org/ros%C3%A9"
```

```
//convert URI to IRI
```

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

Options

All of

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

* ``scheme`` (string)

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

* ``reference`` (string)

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

* ``tolerant`` (boolean, false)

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

* ``absolutePath`` (boolean, false)

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

* ``iri`` (boolean, false)

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

* `unicodeSupport` (boolean, false)

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

* `domainHost`
(boolean, false)

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

Scheme Extendable

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

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

HTTP Support

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

Mailto Support

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

```
URI.serialize({  
  scheme : "mailto",  
  to : ["alpha@example.com"],  
  subject : "REMOVE",  
  body : "Please remove me",  
  headers : {
```

```
    cc : "charlie@example.com"
  }
}) ===
"mailto:alpha@example.com?cc=charlie@example.com&subject=REMOVE&body=Please%20remove%20me"
```

URN Support

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

URN UUID Support

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

Usage

To load in a browser, use the following tag:

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

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

```
npm install uri-js
```

Then, in your code, load it using:

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

If you are

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

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

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

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

Breaking changes

Breaking changes from 3.x

URN parsing has been completely changed to better align with the specification. Scheme is now always `urn`, but has two new properties: `nid` which contains the Namespace 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 vulnerability, 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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* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/README.md

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/*

* QUnit - A JavaScript Unit Testing Framework

*

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

*

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* 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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* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/dist/esnext/uri.js
* /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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```
{ "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-  
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p", "array", "fn", "result", "mapDomain", "string", "parts", "replace", "regexSeparators", "ucs2decode", "output", "counter",  
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ConsumableArray", "basicToDigit", "codePoint", "digitToBasic", "digit", "flag", "adapt", "delta", "numPoints", "firstTim
```


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MAAM,GAAl,YAExBC,GAAMP,EAAKO,GAAID,MAAM,GACnBN,EAAKS,KAAK,UAEVT,GAACK,GAId,QA
AAU,GAAuBC,SACf,MAAQA,EAAM,IAGtB,QAAAC,GAAuBC,SACfA,KAAAMC,UAAAY,YAAqB,OAAND,EA
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gBA,YAAeXB,OAAQwB,EAA6B,gBAaFA,GAAIpB,QAAuBoB,EAAlN,OAASM,EAAIC,aAAeD,EAAIP,MAA
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AUkD,SAC/C+B,GAAUK,EAABtC,EAAM6C,EAASE,GAAoB/C,EAAM8C,EAAaC,GAAoBA,GAAmB,GAAO
A,GAKxI,QAAAC,GAA0BC,EAAS/C,SACf,gBAAR+C,KACJhB,EAUUjC,EAAMiD,EAAC/C,GAAUA,GACX,

WAAhBtI,EAAOqL,OACXjD,EAAMiC,EAAYBgB,EAAK/C,GAAUA,IAG9C+C,EAKR,QAAAC,GAAsBC,EAAUC,EAAUID,SACrB,gBAATiD,KACHIB,EAAUjC,EAAMmD,EAAMjD,GAAUA,GACZ,WAAjBtI,EAAOuL,OACVIB,EAAYBkB,EAAMjD,IAGnB,gBAATkD,KACHnB,EAAUjC,EAAMoD,EAAMID,GAAUA,GACZ,WAAjBtI,EAAOwL,OACVnB,EAAYBmB,EAAMID,IAGhCiD,IAASC,EAGjB,QAAAC,GAAgC1L,EAAYuI,SACpCvI,IAAOA,EAAIM,WAAWkD,QAAU+E,GAAYA,EAAQC,IAA4BC,EAAakD,OAAnCjD,EAAaiD,OAA+B1H,GAG9G,QAAA2H,GAakC5L,EAAYuI,SACtCvI,IAAOA,EAAIM,WAAWkD,QAAU+E,GAAYA,EAAQC,IAAiCC,EAAanD,YAAxCoD,EAAapD,YAAyCIB,GC1exH,QAGAA,GAA0BjF,MACnBkF,GAASd,EAAYpE,SACIBkF,GAOC,MAAMC,IAAoBF,EAANIF,EHmBrC,GAAA0I,GAAetH,GAAU,GlrfzBqH,EA AerH,GAAU,2iBHAnByK,EAAS,WAA TC,EAAGB,QACHBC,EAAGB,aACHbtI,EAakB,4BAGIBT,YACO,8DACC,iEACI,iBAKZgJ,EAAQC,KAakD,MACbE,EAaqBxH,OAOC,aAsG5BwH,EAAa,SAAAJJ,SAASwB,QAAO0H,cAAPC,MAAA3H,OAA4H,EAawBpJ,KAW9CqJ,EA Ae,SAASC,SACzBA,GAAY,GAAO,GACfA,EAAY,GAehBA,EAAY,GAAO,GACfA,EAAY,GAehBA,EAAY,GAAO,GACfA,EAAY,GAjJR,IAiKPC,EA Ae,SAASC,EAAOC,SAG7BD,GAAQ,GA AK,IAAMA,EAAQ,MAAgB,GAARC,IAAc,IAQnDC,EAAQ,SAASC,EAAOC,EAAWC,MACpCC,GAAI,QACAD,EAAYf,EAAMa,EA1Kd,KA0K8BA,GAAS,KAC1Cb,EAAMa,EAAQC,GACOD,EAAQI,IAA2BD,GAhLrD,KAiLHhB,EAAMa,EA3JMjC,UA6JdoB,GAAMgB,EA AI,GAAsBH,GAASA,EAhLpC,MA0LPK,EAAS,SAASpD,MAEjBnG,MACAwJ,EAACrD,EAAMpK,OACtB4E,EA AI,EACJ8I,EA5LY,IA6LZC,EA9Le,GAoMfC,EAAQxD,EAAMkB,YAIMD,IAMmbsC,GAAQ,MACH,OAGJ,GAAIC,GAAI,EAAGA,EAAID,IAASC,EAExBzD,EAAMhG,WAAWYJ,IAAM,OACpB,eAEAvJ,KAAK8F,EAAMhG,WAAWYJ,QAMzB,GAAI3F,GAAQ0F,EAAQ,EA AIA,EAAQ,EA AI,EAAG1F,EA AQuf,GAAwC,KAQtf,GADDK,GAAOIJ,EACFmJ,EA AI,EAAGT,EAjOL,IAiOmCA,GAjOnC,GAiO8C,CAEpDpF,GAASuF,KACN,oBAGDT,GAAQH,EAAazC,EAAMhG,WAAW8D,OAExC8E,GAzOM,IAyOWA,EAAQV,GAAOH,EAASvH,GA AKmJ,OAC3C,eAGff,EAAQe,KACPC,GAAIV,GA AKK,EA7OL,EA6OoBL,GA AKK,EA5OzB,GAAA,GA4O8CL,EAAIK,KAExDX,EAAQgB,WAINC,GAPPI,GAoPgBD,CActBD,GAAIzB,EAAMH,EAAS8B,MACHb,eAGFA,KAIAC,GAAMjK,EAAOjE,OAAS,IACrBkN,EAAMtI,EA AIkJ,EAAMI,EAAa,GAARJ,GAixBxB,EAAM1H,EA AISJ,GAAO/B,EAASuB,KACvB,eAGFpB,EAAM1H,EA AISJ,MACVA,IAGEC,OAAOvJ,IAAK,EAAG8I,SAIhB1I,QAAO0H,cAAPC,MAAA3H,OAAwBf,IAU1BmK,EAAS,SAAShE,MACjBnG,QAGED,EA AWoG,MAGfqD,GAACrD,EAAMpK,OAGpB0N,EA5RY,IA6RZP,EAAQ,EACRQ,EA/Re,oCAkSnBU,KAA2BjE,EAA3BkE,OAAAC,cAAAC,GAAAH,EA AAI,EA AAC,QAAAC,MAAAH,GAAA,EA AKC,IAAvBI,GA AU BP,EA AAIK,KAC7ByK,GA Ae,OACXtK,KA AKkI,EA AmBoC,2FAI7BC,GAAc5K,EA AOjE,OACrB8O,EA AiBD,MAMjBA,KACivK,KA9SS,KakTVwK,EA AiBrB,GAAa,IAIhCsB,GAAI5C,mCACR6C,KA A2B5E,EAA3BkE,OAAAC,cAAAU,GAAAD,EAAAE,EAAAR,QAAAC,MAAAM,GAAA,EA AKC,IAAvBL,GA AuBI,EA AA7K,KAC7ByK,IAAgBIB,GA AKkB,EA AeG,MACnCH,0FAMAO,GAAwBL,EA AiB,CAC3CC,GAAI rB,EA AIpB,GAAOH,EA ASgB,GA ASgC,MAC9B,gBAGGJ,EA AIrB,GA AKyB,IACfJ,uCAEJK,KAA2BhF,EA A3BkE,OAAAC,cAAAc,GAAAD,EAAAE,EAAAZ,QAAAC,MAAAU,GAAA,EA AKC,IAAvBT,GA AuBQ,EA AAjL,SAC7ByK,EA AeIb,KAAOP,EA AQhB,KAC3B,YAEHyC,GA AgBIB,EA AG,KAGjB,GADD6B,GAAIpC,EACCG,EA rVA,IAqV8BA,GA rV9B,GAqVyC,IAC3CU,GAAIV,GA AKK,EA rVP,EAqVsBL,GA AKK,EA pV3B,GAAA,GAoVgDL,EA AIK,KACxD4B,EA AIvB,WAGFwB,GAAUD,EA AIvB,EACdC,EA3VE,GA2VkBd,IACnB1J,KACNki,EA AmBO,EA AiB,EA IwB,EA AUvB,EAAY,OA EvD3B,EAAMkD,EA AUvB,KAGd3J,KA AKkI,EA AmBO,EA AwC,EAAG,OACxCrC,EAAMC,EA AOgC,EA AuBL,GA AKBD,KACrD,IACNC,yFAIF3B,IACAO,QAGIzJ,GAAO7D,KA AK,KACdyK,EAAY,SAAST,SACnBzG,GAAUyG,EA AO,SAASxG,SACzBwI,GA Ac1E,KA AK9D,GACvB4J,EA AO5J,EA AO3D,MAAM,GAAGgB,eACvB2C,KA AcGg,EAAU,SAASQ,SACjBzG,GAAUyG,EA AO,SAASxG,SACzByI,GA Ac3E,KA AK9D,GACvB,OAASwK,EA AOxK,GACHBA,KAOC+F,WAMM,qBASA3F,SACaYI,UAEDE,SACAY,UACCxE,YACEiB,GC5VDrB,KA2IPN,EAAY,kiACZC,EAA4C,GAAI1D,MAAM,SAAU,KAAOhF,UAOHvE4J,EA AO,WACPC,EA AO,cACPC,GAAO,gBAEPE,GAAO,yBG1VPgF,WACI,mBAEI,QAEL,SAAU pK,EA AO0BwD,SAEtCxD,GA AWW,SACJ7C,MAAQkC,EA AWIC,OAAS,+BAGjCkC,aAGI,SA AU A,EA AO0BwD,SAE3CxD,GA AW+D,QAAsD,UAA5CpE,OAAOK,EA AWM,QAAQ1E,cAA4B,GA AK,MAA4B,KA ApBoE,EA AW+D,SAC3FA,KAAO3I,WAI d4E,EA AWa,SACJA,KAAO,KAOZb,IC5BHok,WACI,mBACIC,GA AKhG,iBACVgG,GA AK/G,gBACD+G,GA AK9E,WHSZ+E,MAIA5M,GA Ae,mGACfnB,GA AW,cACXC,GAAexB,EA AO,EA AO,sBAA6BuB,GA AWA,GA AW,IAAMA,GA AWA,IAAY,IAAMvB,EA AO,0BAAiCuB,GA AWA,IAAY,

IAAMvB,EAAO,IAAMuB,GAAWA,KAehNgO,GAAUIQ,EADA,6DACe,aAqBzBgG,GAAa,GAAlIC,QAAOD,GAAc,KACtC6C,GAAC,GAAl5C,QAAOnB,GAAC,KACvCgO,GAAiB,GAAl7M,QAAOtD,EAAM,MAzBxB,wDAyBwC,QAAS,QAAskQ,IAAU,KAe9EE,GAAa,GAAl9M,QAAOtD,EAAM,MAAOqD,GAjBrB,uCAiBmD,KACnEgN,GAACd,GASdL,WACI,eAED,SAAUpK,EAA0BwD,MACrCmH,GAAMb3K,EACnB4K,EAAKD,EAAiBC,GAAMD,EAAiB9J,KAA08J,EAAiB9J,KAAPf,MAAM,aACrEoF,KAAOzF,UAEPBuP,EAAiB3J,MAAO,KAKtB,GAJD6J,IAAiB,EACfC,KACAC,EAAUJ,EAAiB3J,MAAMvF,MAAM,KAEPcX,EAAI,EAAGD,EAAKkQ,EAAPqQ,OAAQG,EAAID,IAAMC,EAAG,IAC3CkQ,GAASD,EAAQjQ,GAAGW,MAAM,YAExBuP,EAAO,QACT,SAEC,GADCC,GAAUD,EAAO,GAAGvP,MAAM,KACvBX,EAAI,EAAGD,EAAKoQ,EAAQtQ,OAAQG,EAAID,IAAMC,IAC3CmE,KAAGkM,EAAQnQ,cAGb,YACaoQ,QAAUrE,EAAkBM,EAAO,GAAlxH,aAEPD,SACa2H,KAAOE,EAAkBM,EAAO,GAAlxH,oBAGpC,IACtQD,EAAkBM,EAAO,GAAlxH,IAAYqD,EAAkBM,EAAO,GAAlxH,IAK7EqH,IAAGBF,EAAiBG,QAAUA,KAG/B9J,MAAQ5F,cAEPB,GAAlN,GAAl,EAAGD,EAAK+P,EAAGjQ,OAAQG,EAAID,IAAMC,EAAG,IACtCsQ,GAAOR,EAAG9P,GAAGW,MAAM,UAEPB,GAAKoL,EAAkBuE,EAAK,IAE5B5H,EAAQY,iBAQP,GAAYc,EAAkBuE,EAAK,GAAl5H,GAAS5H,yBALxC,GAAK0I,EAASC,QAAQsC,EAAkBuE,EAAK,GAAl5H,GAAS5H,eAC9D,MAAO4I,KACS1G,MAAQ6M,EAAiB7M,OAAAS,2EAA6E0G,IAM/H1J,GAAKsQ,EAAKrQ,KAAG,WAGZ4P,cAGI,SAAUA,EAAmCnH,MACIDxD,GAAa2K,EACbC,EAAK9O,EAAQ6O,EAAiBC,OACHCA,EAAI,KACF,GAAl9P,GAAl,EAAGD,EAAK+P,EAAGjQ,OAAQG,EAAID,IAAMC,EAAG,IACtCuQ,GAAS1L,OAAOiL,EAAG9P,IACnBwQ,EAAQD,EAAOpF,YAAAY,KAC3BsF,EAAaF,EAAOzQ,MAAM,EAAG0Q,GAAQ7M,QAAQ8B,GAAaL,GAAKBzB,QAAQ8B,GAAa1E,GAAa4C,QAQAQ+L,GAAGbTL,GACxIsM,EAASH,EAAOzQ,MAAM0Q,EAAQ,SAItB9H,EAAQC,IAA2Ea,EAASKB,UAAUGG,GAAXFIH,EAASC,QAAQsC,EAAKB2E,EAAQHl,GAAS5H,eAC5E,MAAO4I,KACG1G,MAAQkC,EAAWIC,OAAAS,wDAA2D0F,EAAQC,IAAGB,UAAV,SAAuB,kBAAoBe,IAGzJ1J,GAAYQ,EAAY,IAAMC,IAGhB3K,KA AO+J,EAAG7P,KAAG,QAgrB+P,GAAUH,EAAiBG,QAAUH,EAAiBG,WAExDH,GAAlBO,UAAJS,EAAA,QA AqBH,EAAiBO,SACHep,EAAiBQ,OAAML,EAAA,KAAGkBH,EAAiBQ,SAExD3I,UACD,GAAMiJ,KAAQX,GA CdA,EAAQW,KAAUnB,GAAGEmB,MAChBxM,KACNwM,EAAKhN,QAAQ8B,GAAaL,GAAKBzB,QAAQ8B,G AAa1E,GAAa4C,QAAGmM,GAAYvL,GACIG,IACA4L,EAAQW,GAAMhN,QAAQ8B,GAAaL,GAAKBzB,QA AQ8B,GAAa1E,GAAa4C,QAAGiM,GAAaxL,UAI3GsD,GAAO7H,WACCqG,MAAQwB,EAAOzH,KAAG,MA GzBiF,II/JH0L,GAAY,kBAIZtB,WACI,YAED,SAAUpK,EAA0BwD,MACrCIC,GAAUtB,EAAWa,MAAQb,EA AWa,KAAGT,MAAMsL,IACrDC,EAAgB3L,KAAGhBsB,EAAS,IACNhB,GAASKD,EAAQID,QAAUqL,EAAcR,QA AU,MACnDsL,EAAMtK,EAAQ,GAAG1F,cACjBiQ,EAAMvK,EAAQ,GACdwK,EAAexL,EAAf,KAAYbKD,EA AQoI,KAAOA,GACxC1H,EAAgBC,EAAQ2H,KAAGhBF,IAAMA,IACNC,IAAMA,IACNhL,KAAOzF,UAejB8I,MA CAA,EAACZ,MAAMqI,EAAenI,WAGtC1F,MAAQ6N,EAAC7N,OAAS,+BAGvC6N,cAGI,SAAUA,EAA6BnI,MAC5CID,GAASKD,EAAQID,QAAUqL,EAAcR,QAAU,MACnDsL,EAAMD,EAAC,IACpBE,EAAexL,EAAf, KAAYbKD,EAAQoI,KAAOA,GACxC1H,EAAgBC,EAAQ2H,EAE1B5H,OACaA,EAACqB,UAAUoG,EAAenI,O AGIDuI,GAAGBJ,EACHBE,EAAMF,EAACe,aACZhL,MAAU+K,GAAGOpI,EAAQoI,KAAvC,IAA8CC,EAEvCE,ICx DHC,GAAO,2DAIP5B,WACI,iBAED,SAAUuB,EAA6BnI,MACxCyI,GAAlBN,WACRO,KAAOD,EAAeJ,MA CtBA,IAAMzQ,UAEhBoI,EAAQwC,UAAciG,EAAC,MAASD,EAAC,KAAG9L,MAAM4L,QAC7DIO,MAAQ mO,EAAenO,OAAS,sBAGzCmO,aAGI,SAAUA,EAA+BzI,MAC9CmI,GAAGBM,WAERJ,KAAOI,EAAC,MAAQ,IAAItQ,cACzC+P,GC5BTxH,GAAGkG,GAAG/J,QAAU+J,GAEvBIG,EACQgI,GAAM7L,QAAU6L,GAExBH, EACQiI,GAAO9L,QAAU8L,GAEBjI,EACQkI,GAAlL,QAAU+L,GAETbII,EACQ+H,GAAG5L,QAAU4L", "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\tsets[xl] = sets[xl].slice(1);\n\t\t\treturn sets.join("");\n\t\t} else {\n\t\t\treturn sets[0];\n\t\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>


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+ subexp(IPV6ADDRZ_RELAXED$ + "|" + IPV6ADDRESS$ + "|" + IPV6FUTURES) + "\\|", //RFC
6874\n\t\tREG_NAME$ = subexp(subexp(PCT_ENCODED$ + "|" + merge(UNRESERVED$$,
SUB_DELIMSS$)) +
\|*\|),\n\t\tHOST$ = subexp(IP_LITERAL$ + "|" + IPV4ADDRESS$ + "|" + REG_NAMES$ + "|" + "\|" +
REG_NAME$),\n\t\tPORT$ = subexp(DIGIT$$ + \|*\|),\n\t\tAUTHORITY$ = subexp(subexp(USERINFO$ +
"@|" + \|?" + HOST$ + subexp("\\|:|" + PORT$) + \|?"|),\n\t\tPCHAR$ = subexp(PCT_ENCODED$ + "\|" +
merge(UNRESERVED$$, SUB_DELIMSS$, "\[\\|:|\\|@|]")), \n\t\tSEGMENT$ = subexp(PCHAR$ +
\|*\|),\n\t\tSEGMENT_NZ$ = subexp(PCHAR$ + "+"|),\n\t\tSEGMENT_NZ_NC$ =
subexp(subexp(PCT_ENCODED$ + "\|" + merge(UNRESERVED$$, SUB_DELIMSS$, "\[\\|@|]")) +
"+"|),\n\t\tPATH_ABEMPTY$ = subexp(subexp("\\|/" + SEGMENTS$) + \|*\|),\n\t\tPATH_ABSOLUTE$ =
subexp("\\|/" + subexp(SEGMENT_NZ$ + PATH_ABEMPTY$) + \|?"|), //simplified\n\t\tPATH_NOSCHEMES
= subexp(SEGMENT_NZ_NC$ + 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_NOSCHEMES
+ "\|" + 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(SCHEMES$ +
"\\|:" + HIER_PART$ + subexp("\\|/" + QUERY$) + \|?" + subexp("\\|/" + FRAGMENT$) +
"|?"|),\n\t\tRELATIVE_PART$ = subexp(subexp("\\|/" + AUTHORITY$ + PATH_ABEMPTY$) + "\|" +
PATH_ABSOLUTE$ + "\|" + PATH_NOSCHEMES$ + "\|" + PATH_EMPTY$),\n\t\tRELATIVES$ =
subexp(RELATIVE_PART$ + subexp("\\|/" + QUERY$) + \|?" + subexp("\\|/" + FRAGMENT$) +
"|?"|),\n\t\tURI_REFERENCE$ = subexp(URI$ + "\|" + RELATIVES$),\n\t\tABSOLUTE_URI$ =
subexp(SCHEMES$ + "\\|:" + HIER_PART$ + subexp("\\|/" + QUERY$) + \|?"|),\n\t\tGENERIC_REF$ =
"^(|" + SCHEMES$ + "\\|:" + 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_NOSCHEMES$ + "\|" + PATH_EMPTY$ + "|)" + subexp("\\|/" +
QUERY$ + "|)" + \|?" + subexp("\\|/" + FRAGMENT$ + "|)" + \|?"$|",\n\t\tABSOLUTE_REF$ = "^(|" +
SCHEMES$ + "\\|:" + 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\treturn { \n\t\tNOT_SCHEME : new RegExp(merge("\[^\]"
, ALPHA$$, DIGIT$, "\[\\|+|\\|_|\\|.|]", "g"),\n\t\tNOT_USERINFO : new RegExp(merge("\[^\|%\|\\|:|]"
, UNRESERVED$$, SUB_DELIMSS$, "g"),\n\t\tNOT_HOST : new RegExp(merge("\[^\|%\|\\|/|\\|:|\\|@|]"
, UNRESERVED$$, SUB_DELIMSS$, "g"),\n\t\tNOT_PATH : new RegExp(merge("\[^\|%\|\\|/|\\|:|\\|@|]"
, UNRESERVED$$, SUB_DELIMSS$, "g"),\n\t\tNOT_PATH_NOScheme : new
RegExp(merge("\[^\|%\|\\|/|\\|@|]" , UNRESERVED$$, SUB_DELIMSS$, "g"),\n\t\tNOT_QUERY : new
RegExp(merge("\[^\|%\|]" , UNRESERVED$$, SUB_DELIMSS$, "\[\\|:|\\|/|\\|?|]" , IPRIVATE$$),
"g"),\n\t\tNOT_FRAGMENT : new RegExp(merge("\[^\|%\|]" , UNRESERVED$$, SUB_DELIMSS$,
"\[\\|:|\\|/|\\|?|]" , "g"),\n\t\tESCAPE
: new RegExp(merge("\[^\]" , UNRESERVED$$, SUB_DELIMSS$, "g"),\n\t\tUNRESERVED : new
RegExp(UNRESERVED$$, "g"),\n\t\tOTHER_CHARS : new RegExp(merge("\[^\|%\|]" , UNRESERVED$$,

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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
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\tthe 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\n
*\nconst ucs2encode = array => String.fromCharCode(...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
*\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\tlet delta = firstTime ? floor(delta / damp) : delta >> 1;\n\tlet delta += floor(delta /
numPoints);\n\tfor (/* no initialization */; delta > baseMinusTMin * tMax >> 1; k += base) {\n\t\tlet delta = floor(delta /
baseMinusTMin);\n\t\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\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\tthrow('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\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\n\t\tlet oldi = i;\n\t\tfor (let w = 1, k = base; /* no condition */; k +=
base) {\n\t\t\tif (index >= inputLength) {\n\t\t\t\tthrow('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\tthrow('overflow');\n\t\t\t}\n\n\t\t\ti += digit * w;\n\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\t\tconst baseMinusT = base - t;\n\n\t\t\tif (w > floor(maxInt /
baseMinusT)) {\n\t\t\t\tthrow('overflow');\n\t\t\t}\n\n\t\t\ti += baseMinusT;\n\n\t\t\tconst out = output.length +
1;\n\n\t\t\tbias = adapt(i - oldi, out, oldi == 0);\n\n\t\t\t// `i` was supposed to wrap around from `out` to `0`,\n\t\t\t//
incrementing `n` each time, so we'll fix that now:\n\n\t\t\tif (floor(i / out) > maxInt - n) {\n\t\t\t\tthrow('overflow');\n\t\t\t}\n\n\t\t\ti += floor(i / out);\n\n\t\t\ti %= out;\n\n\t\t\t// Insert `n`
at position `i` of the output.\n\n\t\t\toutput.splice(i++, 0, n);\n\t\t}\n\n\t\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\n\tinput = ucs2decode(input);\n\n\t// Cache the length.\n\n\tlet inputLength = input.length;\n\n\t// Initialize the
state.\n\n\tlet n = initialN;\n\tlet delta = 0;\n\tlet bias = initialBias;\n\n\t// Handle the basic code points.\n\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 handledCPCCount = basicLength;\n\n\t// `handledCPCCount` 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\n\tif (basicLength) {\n\t\toutput.push(delimiter);\n\t}\n\n\t// Main encoding
loop:\n\n\twhile (handledCPCCount < inputLength) {\n\t\t// All non-basic code points < n have been handled already.
Find the next\n\t\t// larger one:\n\n\t\tlet m = maxInt;\n\t\tfor (const currentValue of input) {\n\t\t\tif (currentValue >=

```


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```

import URI_PROTOCOL from \"/regexprs-uri\";
import IRI_PROTOCOL from \"/regexprs-iri\";
import punycode from \"punycode\";
import { toUpperCase, typeOf, assign } from \"/util\";
export interface URISchemeHandler {
  scheme?: string;
  userinfo?: string;
  host?: string;
  port?: number | string;
  path?: string;
  query?: string;
  fragment?: string;
  reference?: string;
  error?: string;
}
export interface URIOptions {
  scheme?: string;
  reference?: string;
  tolerant?: boolean;
  absolutePath?: boolean;
  iri?: boolean;
  unicodeSupport?: boolean;
  domainHost?: boolean;
}
export interface URISchemeHandler<Components extends URISchemeHandler, Options extends URIOptions = URIOptions, ParentComponents extends URISchemeHandler = URISchemeHandler> {
  scheme: string;
  parse(components: ParentComponents, options: Options): Components;
  serialize(components: Components, options: Options): ParentComponents;
  unicodeSupport?: boolean;
  domainHost?: boolean;
  absolutePath?: boolean;
}
export interface URIRegExps {
  NOT_SCHEME : RegExp;
  NOT_HOST : RegExp;
  NOT_PATH : RegExp;
  NOT_PATH_NOSCHEME : RegExp;
  NOT_QUERY : RegExp;
  NOT_FRAGMENT : RegExp;
  ESCAPE : RegExp;
  UNRESERVED : RegExp;
  OTHER_CHARS : RegExp;
  PCT_ENCODED : RegExp;
  IPV4ADDRESS : RegExp;
  IPV6ADDRESS : RegExp;
}
export const SCHEMES: {[scheme: string]: URISchemeHandler} = {};
export function pctEncChar(chr: string): string {
  const c = chr.charCodeAt(0);
  let e: string;
  if (c < 16) e = \"%0\" + c.toString(16).toUpperCase();
  else if (c < 128) e = \"%\" + c.toString(16).toUpperCase();
  else if (c < 2048) e = \"%\" + ((c >> 6) | 192).toString(16).toUpperCase() + \"%\" + ((c & 63) | 128).toString(16).toUpperCase();
  else e = \"%\" + ((c >> 12) | 224).toString(16).toUpperCase() + \"%\" + (((c >> 6) & 63) | 128).toString(16).toUpperCase() + \"%\" + ((c & 63) | 128).toString(16).toUpperCase();
  return e;
}
export function pctDecChars(str: string): string {
  let newStr = \"\";
  let i = 0;
  const il = str.length;
  while (i < il) {
    const c = parseInt(str.substr(i + 1, 2), 16);
    if (c < 128) {
      newStr += String.fromCharCode(c);
      i += 3;
    } else if (c >= 194 && c < 224) {
      const c2 = parseInt(str.substr(i + 4, 2), 16);
      newStr += String.fromCharCode(((c & 31) << 6) | (c2 & 63));
      i += 6;
    } else if (c >= 224) {
      const c2 = parseInt(str.substr(i + 4, 2), 16);
      const c3 = parseInt(str.substr(i + 7, 2), 16);
      newStr += String.fromCharCode(((c & 15) << 12) | ((c2 & 63) << 6) | (c3 & 63));
      i += 9;
    } else {
      newStr += str.substr(i, 9);
      i += 9;
    }
  }
  return newStr;
}
function _normalizeComponentEncoding(components: URISchemeHandler, protocol: URIRegExps) {
  function decodeUnreserved(str: string): string {
    const decStr = pctDecChars(str);
    return (!decStr.match(protocol.UNRESERVED) ? str : decStr).replace(protocol.PCT_ENCODED, decodeUnreserved).toLowerCase().replace(protocol.NOT_SCHEME, \"\");
  }
  if (components.userinfo !== undefined) components.userinfo = String(components.userinfo).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_USERINFO, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);
  if (components.host !== undefined) components.host = String(components.host).replace(protocol.PCT_ENCODED, decodeUnreserved).toLowerCase().replace(protocol.NOT_HOST, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);
  if (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,

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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\");\n}\n\nfunction _normalizeIPv4(host:string, protocol:URIRegExps):string
{\n\tconst matches = host.match(protocol.IPV4ADDRESS) || [];\n\tconst [, address] = matches;\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\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\t\tfor
(let x = 0; x < fieldCount; ++x) {\n\t\t\tfields[x] = firstFields[x] || lastFields[lastFieldsStart + x] || "\n\t\t\tif
(isLastFieldIPv4Address) {\n\t\t\t\tfields[fieldCount - 1] = _normalizeIPv4(fields[fieldCount - 1],
protocol);\n\t\t\t}\n\t\t\tconst allZeroFields = fields.reduce<Array<{index:number,length:number}>>((acc, field,
index) => {\n\t\t\t\tif (!field || field === \"0\") {\n\t\t\t\t\tconst lastLongest = acc[acc.length - 1];\n\t\t\t\t\tif (lastLongest
&& lastLongest.index + lastLongest.length === index) {\n\t\t\t\t\t\tlastLongest.length++;\n\t\t\t\t\t} else
{\n\t\t\t\t\t\tacc.push({ index, length : 1 });\n\t\t\t\t\t}\n\t\t\t\t\tconst longestZeroFields =
allZeroFields.sort((a, b) => b.length - a.length)[0];\n\t\t\t\t\tlet newHost:string;\n\t\t\t\t\tif (longestZeroFields &&
longestZeroFields.length > 1) {\n\t\t\t\t\t\tconst newFirst = fields.slice(0, longestZeroFields.index) ;\n\t\t\t\t\t\tconst newLast
= fields.slice(longestZeroFields.index + longestZeroFields.length);\n\t\t\t\t\t\tnewHost = newFirst.join(\":\") + \":\" +
newLast.join(\":\");\n\t\t\t\t\t} else {\n\t\t\t\t\t\tnewHost = fields.join(\":\");\n\t\t\t\t\t}\n\t\t\t\t\tif (zone) {\n\t\t\t\t\t\tnewHost += \"%\" +
zone;\n\t\t\t\t\t}\n\t\t\t\t\treturn newHost;\n\t\t\t} else {\n\t\t\treturn host;\n\t\t}\n}\n\nconst URI_PARSE =
/^(?:([^\v?#]+):)?(?:\\v\\v(?:([^\v?#]*)@)?\\v\\v(?:[^\v?#\\v\\v]+\\v\\v|\\v\\v?#(?:?:\\d*))?)?([^\v?#]*)?(?:\\v?([^\v?#]*)?)?(?:#(?:
\\.\\|\\r)*)?)?/i;\nconst NO_MATCH_IS_UNDEFINED = (<RegExpMatchArray>(\"\").match(/{})) [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\tif (options.reference === \"suffix\") uriString = (options.scheme ? options.scheme + \":\" :
\"\") + \"/\" + uriString;\n\tconst matches = uriString.match(URI_PARSE);\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\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\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\t\t\t//fix
port number\n\t\t\tif (isNaN(components.port)) {\n\t\t\t\tcomponents.port =
(uriString.match(/\\v\\v(?:\\.\\|\\n)*\\:(?:\\v\\v?|\\#|$)/) ? matches[4] : undefined);\n\t\t\t}\n\t\t\t}\n\t\t\tif (components.host)
{\n\t\t\t\t//normalize IP hosts\n\t\t\t\tcomponents.host = _normalizeIPv6(_normalizeIPv4(components.host, protocol),

```

```

protocol);
//determine reference type
if (components.scheme === undefined &&
components.userinfo === undefined && components.host === undefined && components.port ===
undefined && !components.path && components.query === undefined) {components.reference = "same-
document";}
else if (components.scheme === undefined) {components.reference = "relative";}
else if (components.fragment === undefined) {components.reference = "absolute";}
else {components.reference = "uri";}
//check for reference errors
if (options.reference &&
options.reference !== "suffix" && options.reference !== components.reference) {components.error =
components.error || "URI is not a " + options.reference + " reference.";}
//find scheme
handler
const schemeHandler = SCHEMES[(options.scheme || components.scheme ||
"").toLowerCase()];
//check if scheme can't handle IRIs
(!options.unicodeSupport &&
(!schemeHandler || !schemeHandler.unicodeSupport)) {
//if host component is a domain name
(components.host && (options.domainHost || (schemeHandler &&
schemeHandler.domainHost))) {
//convert Unicode IDN -> ASCII IDN
try {components.host =
punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase());}
catch (e) {components.error = components.error || "Host's domain name can not be converted to ASCII via
punycode: " + e;}
//convert IRI -> URI
_normalizeComponentEncoding(components,
URI_PROTOCOL);}
else {
//normalize encodings
_normalizeComponentEncoding(components,
protocol);}
//perform scheme specific parsing
(schemeHandler && schemeHandler.parse)
{schemeHandler.parse(components, options);}
else {components.error = components.error ||
"URI can not be parsed.";}
return components;}
function
_recomposeAuthority(components:URIComponents, options:URIOptions):string|undefined {
const protocol =
(options.iri !== false ? IRI_PROTOCOL : URI_PROTOCOL);
const
uriTokens:Array<string> = [];
if (components.userinfo !== undefined)
{uriTokens.push(components.userinfo);}
if (components.host !==
undefined) {
//normalize IP hosts, add brackets and escape zone separator for
IPv6
uriTokens.push(_normalizeIPv6(_normalizeIPv4(String(components.host), protocol),
protocol).replace(protocol.IPV6ADDRESS, (_, $1, $2) => "[" + $1 + ($2 ? "%25" + $2 : "") + "]"));}
if (typeof components.port === "number")
{uriTokens.push(":");}
uriTokens.push(components.port.toString(10));}
return uriTokens.length ?
uriTokens.join("") : undefined;}
const RDS1 = /^\\.\\.?.?\\/;
const RDS2 = /^\\|\\.|\\|$/;
const RDS3 =
/^\\|\\.|\\.|\\|$/;
const RDS4 = /^\\.\\.?.?$/;
const RDS5 = /^\\|/?|\\|$/;
export function
removeDotSegments(input:string):string {
const output:Array<string> = [];
while (input.length) {
if (input.match(RDS1))
{input = input.replace(RDS1, "");}
else if (input.match(RDS2)) {input = input.replace(RDS2,
"^");}
else if (input.match(RDS3)) {input = input.replace(RDS3, "^");}
else if (input === "." || input === "..") {input = "";}
else {const im = input.match(RDS5);}
if (im) {const s = im[0];}
input = input.slice(s.length);}
output.push(s);}
else {throw new
Error("Unexpected dot segment condition");}
return output.join("");}
export function
serialize(components:URIComponents, options:URIOptions = {}):string {
const protocol = (options.iri ?
IRI_PROTOCOL : URI_PROTOCOL);
const uriTokens:Array<string> = [];
//find scheme handler
const
schemeHandler = SCHEMES[(options.scheme || components.scheme || "").toLowerCase()];
//perform scheme
specific serialization
if (schemeHandler && schemeHandler.serialize)
schemeHandler.serialize(components, options);}
if (components.host) {
//if host component is an IPv6
address
if (protocol.IPV6ADDRESS.test(components.host)) {
//TODO: normalize IPv6 address as per
RFC 5952
//if host component is a domain name
else if (options.domainHost || (schemeHandler &&
schemeHandler.domainHost)) {
//convert IDN via punycode
try {components.host = (!options.iri ?
punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase()) :
punycode.toUnicode(components.host));}
catch (e) {components.error = components.error || "Host's

```



```

{\n\t\turiB = serialize(parse(uriB, options), options);\n\t} else if (typeof(uriB) === \"object\") {\n\t\turiB =
serialize(<URISchemeHandler>uriB, options);\n\t}\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\nimport { URISchemeHandler, URISchemeHandler, URISchemeHandler, URISchemeHandler,
URISchemeHandler } 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[fname:string]:string\n}\n\nexport interface MailtoComponents extends URISchemeHandler
{\n\tto:Array<string>,\n\theaders?:MailtoHeaders,\n\tsubject?:string,\n\tbody?:string\n}\n\nconst O:MailtoHeaders
= {};\n\nconst isIRI = true;\n\nconst RFC_3986_UNRESERVED = \"[A-Za-z0-9\\-\\.\\_\\~]\" + (isIRI ?
\"[\\x00-\\x200D\\x2010-\\x2029\\x202F-\\x0D7FF\\x00-\\x00FD\\x00-\\x00FE]\" : \"\");\n\nconst HEXDIG = \"[0-9A-Fa-f]\"; //case-insensitive\n\nconst PCT_ENCODED =
subexp(subexp(\"%[EFef]\" + HEXDIG + \"%\" + HEXDIG + HEXDIG) +
\"%\" + HEXDIG + HEXDIG) + \"%\" + subexp(\"%[89A-Fa-f]\" + HEXDIG + \"%\" + HEXDIG +
HEXDIG) + \"%\" + subexp(\"%\" + HEXDIG + HEXDIG); //expanded\n\nconst RFC_5322_symbols = \"@ : / ? # [ ] & ; = \";\n\nconst ATEXT = \"[A-Za-z0-9\\-\\.\\_\\~]\";\n\nconst WSP = \"[\\x20\\x09]\";\n\nconst OBS_QTEXT =
\"[\\x01-\\x08\\x0B-\\x0C\\x0E-\\x1F\\x7F]\"; //(%d1-8 / %d11-12 / %d14-31 / %d127)\n\nconst QTEXT =
merge(\"[\\x21\\x23-\\x5B\\x5D-\\x7E]\", OBS_QTEXT); //%d33 / %d35-91 / %d93-126 / obs-
qtext\n\nconst VCHAR = \"[\\x21-\\x7E]\";\n\nconst WSP_Q = \"[\\x20\\x09]\";\n\nconst OBS_QP =
subexp(\"[\\\\\\\\]\" + merge(\"[\\x00\\x0D\\x0A]\", OBS_QTEXT)); //%d0 / CR / LF / obs-qtext\n\nconst
FWS = subexp(subexp(WSP + \"*\" + \"[\\x0D\\x0A]\" + \"?\" + WSP + \"+\");\n\nconst QUOTED_PAIR =
subexp(subexp(\"\\\\\\\\\" +
subexp(VCHAR + \"%\" + WSP)) + \"%\" + OBS_QP);\n\nconst QUOTED_STRING = subexp(\"\\\\\\\\\" +
subexp(FWS + \"?\" + QCONTENT) + \"%\" + FWS + \"?\" + \"\\\\\\\\\");\n\nconst ATEXT_Q = \"[A-Za-z0-9\\-\\.\\_\\~]\";\n\nconst QTEXT_Q =
\"[\\x21-\\x7E]\";\n\nconst DOT_ATOM_TEXT = subexp(ATEXT_Q + \"%\" + subexp(\"\\\\\\\\\" +
ATEXT_Q + \"%\" + \"*\");\n\nconst QUOTED_PAIR_Q = subexp(\"\\\\\\\\\" + VCHAR);\n\nconst QCONTENT =
subexp(QTEXT_Q + \"%\" + QUOTED_PAIR);\n\nconst QUOTED_STRING_Q = subexp(\"\\\\\\\\\" + QCONTENT +
\"*\");\n\nconst RFC_6068_DTEXT_NO_OBS = \"[\\x21-\\x5A\\x5E-\\x7E]\"; //%d33-90 /
%d94-126\n\nconst SOME_DELIMS = \"[\\-\\.\\_\\~]\";\n\nconst QCHAR =
subexp(UNRESERVED + \"%\" + PCT_ENCODED + \"%\" + SOME_DELIMS);\n\nconst
DOMAIN = subexp(DOT_ATOM_TEXT + \"%\" + \"[\\\\\\\\]\" + DTEXT_NO_OBS + \"%\" + \"[\\\\\\\\]\");\n\nconst
LOCAL_PART = subexp(DOT_ATOM_TEXT + \"%\" + QUOTED_STRING);\n\nconst ADDR_SPEC =
subexp(LOCAL_PART + \"%\" + \"@\" + DOMAIN);\n\nconst TO = subexp(ADDR_SPEC + subexp(\"\\\\\\\\\",
ADDR_SPEC) + \"%\");\n\nconst HFNAME = subexp(QCHAR + \"%\");\n\nconst HFVALUE =
HFNAME;\n\nconst HFIELDS = subexp(HFNAME + \"%\" + HFVALUE);\n\nconst HFIELDS2 =
subexp(HFIELDS + subexp(\"\\\\\\\\&\" + HFIELDS) + \"%\");\n\nconst HFIELDS_Q = subexp(\"\\\\\\\\?\" +
HFIELDS2);\n\nconst MAILTO_URI = new RegExp(\"^mailto:\\\\:\" + TO + \"%\" + HFIELDS + \"%$\");\n\nconst
UNRESERVED = new RegExp(UNRESERVED, \"g\");\n\nconst PCT_ENCODED = new
RegExp(PCT_ENCODED, \"g\");\n\nconst NOT_LOCAL_PART = new RegExp(merge(\"^[^]\", ATEXT_Q,
\"[\\\\\\\\]\", VCHAR_Q), \"g\");\n\nconst NOT_DOMAIN = new RegExp(merge(\"^[^]\", ATEXT_Q, \"[\\\\\\\\]\",
\"[\\\\\\\\]\", DTEXT_NO_OBS_Q), \"g\");\n\nconst NOT_HFNAME = new RegExp(merge(\"^[^]\",
UNRESERVED_Q, SOME_DELIMS_Q), \"g\");\n\nconst NOT_HFVALUE = NOT_HFNAME;\n\nconst TO = new
RegExp(\"^\" + TO + \"%$\");\n\nconst HFIELDS = new RegExp(\"^\" + HFIELDS2 + \"%$\");\n\nfunction

```



```

handler";"import { URISchemeHandler, URISchemeHandler, URIOptions } from \".uri\";
import http from \".http\";
const handler:URISchemeHandler = {scheme : \"https\",domainHost : http.domainHost,
parse : http.parse,serialize
: http.serialize}
export default handler";"import { URISchemeHandler, URISchemeHandler, URIOptions } from \".uri\";
const handler:URISchemeHandler = {scheme : \"http\",domainHost : true,parse : function
(components:URISchemeHandler, options:URIOptions):URISchemeHandler {
report missing host(
!components.host) {components.error = components.error || \"HTTP URIs must have a
host.\";
return components;
},serialize : function (components:URISchemeHandler,
options:URIOptions):URISchemeHandler {
normalize the default port(
components.port ===
(String(components.scheme).toLowerCase() !== \"https\" ? 80 : 443) || components.port === \"\")
{components.port = undefined;
normalize the empty path(
!components.path)
{components.path = \"^\";
NOTE: We do not parse query strings for HTTP URIs/as WWW
Form Url Encoded query strings are part of the HTML4+ spec/and
not the HTTP spec.
return components;
};
export default handler;"}
URI.js
@fileoverview An RFC 3986 compliant, scheme extendable URI parsing/validating/resolving library for
JavaScript.
@author <a href=\"mailto:gary.court@gmail.com\">Gary Court</a>
@see
http://github.com/garycourt/uri-js
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policies, either expressed or implied, of Gary Court.
import URI_PROTOCOL from \".regexp-uri\";
import IRI_PROTOCOL from \".regexp-iri\";
import
punycode from \".punycode\";
import { toUpperCase, typeOf, assign } from \".util\";
export interface
URISchemeHandler {
scheme?:string;
userinfo?:string;
host?:string;
port?:number|string;
path?:string;
query?:string;
fragment?:string;
reference?:string;
error?:string;
}
export interface URIOptions {
scheme?:string;
reference?:string;
tolerant?:boolean;
absolutePath?:boolean;
iri?:boolean;
unicode
Support?:boolean;
domainHost?:boolean;
}
export interface URISchemeHandler<Components> extends
URISchemeHandler, Options extends URIOptions = URIOptions, ParentComponents extends
URISchemeHandler = URISchemeHandler> {
scheme:string;
parse(components:ParentComponents,
options:Options):Components;
serialize(components:Components,
options:Options):ParentComponents;
unicodeSupport?:boolean;
domainHost?:boolean;
absolutePath?:boolean;
}
export interface URIRegExps {
NOT_SCHEME : RegExp,
NOT_USERINFO
: RegExp,
NOT_HOST : RegExp,
NOT_PATH : RegExp,
NOT_PATH_NOSCHEME :
RegExp,
NOT_QUERY : RegExp,
NOT_FRAGMENT : RegExp,
ESCAPE : RegExp,
UNRESERVED :

```

```

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\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\treturn
e;\n}\n\nexport function pctDecChars(str:string):string {\n\tlet newStr = \"\";\n\tlet i
= 0;\n\tconst il = str.length;\n\twhile (i < il) {\n\t\tconst c = parseInt(str.substr(i + 1, 2), 16);\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\t} else {\n\t\t\t\t\tnewStr += str.substr(i, 6);\n\t\t\t\t\ti += 6;\n\t\t\t\t}\n\t\t\telse if (c >= 224) {\n\t\t\t\t\tif
((il - i) >= 9) {\n\t\t\t\t\t\tconst c2 = parseInt(str.substr(i + 4, 2), 16);\n\t\t\t\t\t\tconst c3 = parseInt(str.substr(i + 7, 2),
16);\n\t\t\t\t\t\tnewStr += String.fromCharCode(((c & 15) << 12) | ((c2 & 63) << 6) | (c3 & 63));\n\t\t\t\t\t\t} else
{\n\t\t\t\t\t\t\tnewStr += str.substr(i, 9);\n\t\t\t\t\t\t\ti += 9;\n\t\t\t\t\t\t}\n\t\t\t\t\t\telse {\n\t\t\t\t\t\t\tnewStr += str.substr(i, 3);\n\t\t\t\t\t\t\ti +=
3;\n\t\t\t\t\t\t}\n\t\t\t\t}\n\t\t}\n\t\treturn newStr;\n}\n\nfunction _normalizeComponentEncoding(components:URISComponents,
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\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\treturn components;\n}\n\nfunction _stripLeadingZeros(str:string):string {\n\treturn
str.replace(/^*(.*)/, \"$1\") || \"0\";\n}\n\nfunction _normalizeIPv4(host:string, protocol:URIRegExps):string
{\n\tconst matches = host.match(protocol.IPV4ADDRESS) || [];\n\tconst [, address] = matches;\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\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\t\tfor
(let x = 0; x < fieldCount; ++x) {\n\t\t\tfields[x] = firstFields[x] || lastFields[lastFieldsStart + x] || \"\";\n\t\t}\n\t\tif
(isLastFieldIPv4Address) {\n\t\t\tfields[fieldCount - 1] = _normalizeIPv4(fields[fieldCount - 1],
protocol);\n\t\t}\n\t\tconst allZeroFields = fields.reduce<Array<{index:number,length:number}>>((acc, field,

```



```

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--> 0) {\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 punycode. 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 & 0x3FFF) << 10) + (extra & 0x3FFF) + 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}\n\t\telse {\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.encode`\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 *
@param {Number} delta\n * @private\n */\nconst adapt = function(delta, numPoints, firstTime) {\n\tlet k = 0;\n\tconst
delta = firstTime ? floor(delta / damp) : delta >> 1;\n\tconst delta += floor(delta / numPoints);\n\tfor (/* no initialization */;
delta > baseMinusTMin * tMax >> 1; k += base) {\n\t\tconst delta = floor(delta / baseMinusTMin);\n\t\treturn floor(k
+ (baseMinusTMin + 1) * delta / (delta + skew));\n\t}\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\tlet basic = input.lastIndexOf(delimiter);\n\tif (basic < 0) {\n\t\tbasic = 0;\n\t}\n\tfor (let j = 0; j < basic; ++j) {\n\t\tif it's not a basic code point\n\t\tif (input.charCodeAt(j) >= 0x80) {\n\t\t\t(terror('not-basic'));\n\t\t}\n\t\t// Main decoding loop: start just after the last delimiter if any basic code\n\t\t// points were copied; start at the beginning otherwise.\n\t\tfor (let index = basic > 0 ? basic + 1 : 0; index < inputLength; /* no final expression */) {\n\t\t\t`index` is the index of the next character to be consumed.\n\t\t\t// Decode a generalized variable-length integer into `delta`,\n\t\t\t// which gets added to `i`. The overflow checking is easier\n\t\t\t// if we increase `i` as we go, then subtract off its starting\n\t\t\t// value at the end to obtain `delta`.\n\t\t\tlet oldi = i;\n\t\t\tfor (let w = 1, k = base; /* no condition */; k += base) {\n\t\t\t\tif (index >= inputLength) {\n\t\t\t\t\t(terror('invalid-input'));\n\t\t\t\t}\n\t\t\t\tconst digit = basicToDigit(input.charCodeAt(index++));\n\t\t\t\tif (digit >= base || digit > floor((maxInt - i) / w)) {\n\t\t\t\t\t(terror('overflow'));\n\t\t\t\t}\n\t\t\t\ti += digit * w;\n\t\t\t\tconst t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);\n\t\t\t\tif (digit < t) {\n\t\t\t\t\t\tbreak;\n\t\t\t\t}\n\t\t\t\tconst baseMinusT = base - t;\n\t\t\t\tif (w > floor(maxInt / baseMinusT)) {\n\t\t\t\t\t(terror('overflow'));\n\t\t\t\t}\n\t\t\t\tw *= baseMinusT;\n\t\t\t\tconst out = output.length + 1;\n\t\t\t\tbias = adapt(i - oldi, out, oldi == 0);\n\t\t\t\t// `i` was supposed to wrap around from `out` to `0`,\n\t\t\t\t// incrementing `n` each time, so we'll fix that now:\n\t\t\t\tif (floor(i / out) > maxInt - n) {\n\t\t\t\t\t(terror('overflow'));\n\t\t\t\t}\n\t\t\t\ti += floor(i / out);\n\t\t\t\ti %= out;\n\t\t\t\t// Insert `n` at position `i` of the output.\n\t\t\t\toutput.splice(i++, 0, n);\n\t\t\t}\n\t\t}\n\t}\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\t// Convert the input in UCS-2 to an array of Unicode code points.\n\tinput = ucs2decode(input);\n\t// Cache the length.\n\tlet inputLength = input.length;\n\t// Initialize the state.\n\tlet n = initialN;\n\tlet delta = 0;\n\tlet bias = initialBias;\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\tlet basicLength = output.length;\n\tlet handledCPCCount = basicLength;\n\t// `handledCPCCount` is the number of code points that have been handled;\n\t// `basicLength` is the number of basic code points.\n\t// Finish the basic string with a delimiter unless it's empty.\n\tif (basicLength) {\n\t\toutput.push(delimiter);\n\t}\n\t// Main encoding loop:\n\twhile (handledCPCCount < inputLength) {\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\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 handledCPCCountPlusOne = handledCPCCount + 1;\n\t\tif (m - n > floor((maxInt - delta) / handledCPCCountPlusOne)) {\n\t\t\t(terror('overflow'));\n\t\t}\n\t\tdelta += (m - n) * handledCPCCountPlusOne;\n\t\tm = n;\n\t\tfor (const currentValue of input) {\n\t\t\tif (currentValue < n && ++delta > maxInt) {\n\t\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\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(stringFromCharCode(digitToBasic(t + qMinusT % baseMinusT, 0)));\n\t\t\t\t\tq = floor(qMinusT / baseMinusT);\n\t\t\t\t}\n\t\t\t}\n\t\t\tbias = adapt(delta, handledCPCCountPlusOne, handledCPCCount == basicLength);\n\t\t\tdelta = 0;\n\t\t\t++handledCPCCount;\n\t\t\t++n;\n\t\t\t++delta;\n\t\t\t++n;\n\t\t}\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 Punycode 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 Punycode domain name or

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\":" 2( h16 \:" ) ls32\n\tIPV6ADDRESS6$ = subexp(subexp(subexp(H16$ + "\\\\:)" + "{0,3}" + H16$) +
\":"\:\:\:" + H16$ + "\\\\:)" + LS32$), /[ *3( h16 \:" ) h16 ] \:" h16 \:"
ls32\n\tIPV6ADDRESS7$ = subexp(subexp(subexp(H16$
+ "\\\\:)" + "{0,4}" + H16$) + \:"\:\:\:\:"
+ LS32$), /[ *4( h16 \:" ) h16 ] \:"
ls32\n\tIPV6ADDRESS8$ = subexp(subexp(subexp(H16$ + "\\\\:)" + "{0,5}" + H16$) + \:"\:\:\:\:\:"
+ H16$), /[ *5( h16 \:" ) h16 ] \:"
h16\n\tIPV6ADDRESS9$ = subexp(subexp(subexp(H16$ +
\":"\:\:\:" + "{0,6}" + H16$) + \:"\:\:\:\:\:"
), /[ *6( h16 \:" ) h16 ]
\:"\n\tIPV6ADDRESS$ = subexp([IPV6ADDRESS1$, IPV6ADDRESS2$, IPV6ADDRESS3$,
IPV6ADDRESS4$, IPV6ADDRESS5$, IPV6ADDRESS6$, IPV6ADDRESS7$, IPV6ADDRESS8$,
IPV6ADDRESS9$].join("\|"),\n\tZONEID$ = subexp(subexp(UNRESERVED$$ + "|" + PCT_ENCODED$) +
\+"), //RFC 6874\n\tIPV6ADDRZ$ = subexp(IPV6ADDRESS$ + "\\\%25\| + ZONEID$), //RFC
6874\n\tIPV6ADDRZ_RELAXED$ = subexp(IPV6ADDRESS$ + subexp("\\\%25\\\%{?!}" + HEXDIG$$ +
\{2\}) + ZONEID$), //RFC 6874, with relaxed
parsing rules\n\tIPV6FUTURE$ = subexp("[vV]" + HEXDIG$$ + "+\\\:" + merge(UNRESERVED$$,
SUB_DELIMSS$, "\[\:\:]") + \+"),\n\tIP_LITERAL$ = subexp("\[\:\[" + subexp(IPV6ADDRZ_RELAXED$ +
\| + IPV6ADDRESS$ + \| + IPV6FUTURE$) + "\]\]"), //RFC 6874\n\tREG_NAME$ =
subexp(subexp(PCT_ENCODED$ + \| + merge(UNRESERVED$$, SUB_DELIMSS$)) + \*"),\n\tHOST$ =
subexp(IP_LITERAL$ + \| + IPV4ADDRESS$ + \{?! + REG_NAME$ + \| + \| +
REG_NAME$),\n\tPORT$ = subexp(DIGIT$$ + \*"),\n\tAUTHORITY$ = subexp(subexp(USERINFO$ +
\@") + \?" + HOST$ + subexp("\\:\:" + PORT$) + \?"),\n\tPCHAR$ = subexp(PCT_ENCODED$ + \| +
merge(UNRESERVED$$, SUB_DELIMSS$, "\[\:\:\@]"),\n\tSEGMENT$ = subexp(PCHAR$ +
\*"),\n\tSEGMENT_NZ$ = subexp(PCHAR$ + \+"),\n\tSEGMENT_NZ_NC$ =
subexp(subexp(PCT_ENCODED$ + \| + merge(UNRESERVED$$, SUB_DELIMSS$, "\[\:\@\]")) +
\+"),\n\tPATH_ABEMPTY$ = subexp(subexp("\[\:\[" + SEGMENT$) + \*"),\n\tPATH_ABSOLUTE$
= subexp("\[\:\[" + subexp(SEGMENT_NZ$ + PATH_ABEMPTY$) + \?"),
//simplified\n\tPATH_NOSCHEMES$ = subexp(SEGMENT_NZ_NC$ + PATH_ABEMPTY$),
//simplified\n\tPATH_ROOTLESS$ = subexp(SEGMENT_NZ$ + PATH_ABEMPTY$),
//simplified\n\tPATH_EMPTY$ = \{?! + PCHAR$ + \|"),\n\tPATH$ = subexp(PATH_ABEMPTY$ + \| +
PATH_ABSOLUTE$ + \| + PATH_NOSCHEMES$ + \| + PATH_ROOTLESS$ + \| +
PATH_EMPTY$),\n\tQUERY$ = subexp(subexp(PCHAR$ + \| + merge("\[\:\:\?]", IPRIVATE$)) +
\*"),\n\tFRAGMENT$ = subexp(subexp(PCHAR$ + \|[\:\:\?]) + \*"),\n\tHIER_PART$ =
subexp(subexp("\[\:\[\:\[" + AUTHORITY$ + PATH_ABEMPTY$) + \| + PATH_ABSOLUTE$ + \| +
PATH_ROOTLESS$ + \| + PATH_EMPTY$),\n\tURI$ = subexp(SCHEMES$ + "\\:\:" + HIER_PART$ +
subexp("\\:\?" + QUERY$) + \?" + subexp("\\#\:" + FRAGMENT$) + \?"),\n\tRELATIVE_PART$ =
subexp(subexp("\[\:\[\:\[" + AUTHORITY$ + PATH_ABEMPTY$) + \| + PATH_ABSOLUTE$ + \| +
PATH_NOSCHEMES$ + \| + PATH_EMPTY$),\n\tRELATIVE$
= subexp(RELATIVE_PART$ + subexp("\\:\?" + QUERY$) + \?" + subexp("\\#\:" + FRAGMENT$) +
\?"),\n\tURI_REFERENCE$ = subexp(URI$ + \| + RELATIVE$),\n\tABSOLUTE_URI$ =
subexp(SCHEMES$ + "\\:\:" + HIER_PART$ + subexp("\\:\?" + QUERY$) + \?"),\n\tGENERIC_REF$ =
\^(" + SCHEMES$ + \)\:\:\:" + subexp(subexp("\[\:\[\:\[" + subexp("\(" + USERINFO$ + \)@") + \?{" +
HOST$ + \)" + subexp("\\:\:\:" + PORT$ + \)" + \?") + \?{" + PATH_ABEMPTY$ + \| +
PATH_ABSOLUTE$ + \| + PATH_ROOTLESS$ + \| + PATH_EMPTY$ + \)" + subexp("\\:\:\?{" +
QUERY$ + \)" + \?") + subexp("\\#\:" + FRAGMENT$ + \)" + \?{" + \n\tRELATIVE_REF$ = \^({0}" +
subexp(subexp("\[\:\[\:\[" + subexp("\(" + USERINFO$ + \)@") + \?{" + HOST$ + \)" + subexp("\\:\:\:" +
PORT$ + \)" + \?") + \?{" + PATH_ABEMPTY$ + \| + PATH_ABSOLUTE$ + \| +
PATH_NOSCHEMES$ + \| + PATH_EMPTY$ + \)" + subexp("\\:\:\?{" + QUERY$ + \)" + \?")
+ subexp("\\#\:" + FRAGMENT$ + \)" + \?{" + \n\tABSOLUTE_REF$ = \^(" + SCHEMES$ + \)\:\:\:" +
subexp(subexp("\[\:\[\:\[" + subexp("\(" + USERINFO$ + \)@") + \?{" + HOST$ + \)" + subexp("\\:\:\:" +

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TH_NOScheme", "NOT_HOST", "NOT_USERINFO", "NOT_SCHEME", "_normalizeComponentEncoding", "new Str", "substr", "i", "fromCharCode", "c", "c2", "c3", "il", "chr", "charCodeAt", "encode", "decode", "ucs2encode", "ucs2decode", "regexNonASCII", "string", "mapDomain", "regexPunycode", "n", "delta", "handledCPCount", "adapt", "handledCPCountPlusOne", "basicLength", "stringFromCharCode", "digitToBasic", "q", "floor", "qMinusT", "baseMinusT", "t", "k", "bias", "tMin", "tMax", "currentValue", "maxInt", "m", "inputLength", "delimiter", "initialBias", "initialN", "fromCodePoint", "splice", "out", "oldi", "w", "digit", "basicToDigit", "basic", "j", "baseMinusTMin", "skew", "numPoints", "firstTime", "damp", "flag", "codePoint", "array", "value", "extra", "counter", "result", "encoded", "labels", "fn", "regexSeparators", "parts", "RangeError", "errors", "type", "Math", "buildExps", "IPV6ADDRESS\$", "ZONEID\$", "IPV4ADDRESS\$", "RESERVED\$", "SUB_DELIMS\$", "IPPRIVATE\$", "ALPHA\$", "DIGIT\$", "AUTHORITY_REF\$", "USERINFO\$", "HOST\$", "PORT\$", "SAMEDOC_REF\$", "FRAGMENTS\$", "ABSOLUTE_REF\$", "SCHEMES", "PATH_ABEMPTY\$", "PATH_ABSOLUTE\$", "PATH_ROOTLESS\$", "PATH_EMPTY\$", "QUERY\$", "RELATIVE_REF\$", "PATH_NO SCHEMES\$", "GENERIC_REF\$", "ABSOLUTE_URI\$", "HIER_PARTS", "URI_REFERENCES", "URI\$", "RELATIVES", "RELATIVE_PART\$", "AUTHORITY", "PCHAR", "PATH", "SEGMENT_NZ", "SEGMENT_NZ_NC", "SEGMENTS", "IP_LITERAL", "REG_NAMES", "IPV6ADDRZ_RELAXED", "IPVFUTURE", "IPV6ADDRESS1", "IPV6ADDRESS2", "IPV6ADDRESS3", "IPV6ADDRESS4", "IPV6ADDRESS5", "IPV6ADDRESS6", "IPV6ADDRESS7", "IPV6ADDRESS8", "IPV6ADDRESS9", "H16", "LS32", "DEC_OCTET_RELAXED", "DEC_OCTETS", "UCSCHAR", "GEN_DELIMS", "SP", "DQUOTE", "CR", "obj", "key", "source", "setInterval", "call", "prototype", "o", "Object", "shift", "sets", "mappings": "AUA, SAAA4E, KAAA, GAAA; sCAAyBkP, IAAzB; YAAA; QACKA, KAAK/R, MAAL, GAAC, CAAIB, EAAqB; aACf, CAAL, IAAU+R, KAAK, CAAL, EAAQrQ, KAAR, CAAC, CAAd, EAAiB, CAAC, CAAIB, CAAV; YACMK, KAAKqG, KAAK/R, MAAL, GAAC, CAAzB; aACK, IAAIgb, IAAI, CAAb, EAAgBA, IAAIe, EAApB, EAAwB, EAAef, CAA1B, EAA6B; iBACvBA, CAAL, IAAU+Q, KAAK/Q, CAAL, EAAQU, KAAR, CAAC, CAAd, EAAiB, CAAC, CAAIB, CAAV; aAEIK, EAAL, IAAWgQ, KAAKhQ, EAAL, EAASL, KAAT, CA Ae, CA Af, CAAX; eACOqQ, KAAKhS, IAAL, CAAU, EAAV, CAAP; KAPD, MAQO; eACCgS, KAAK, CAAL, CAAP; AAIF, AAAA, SAAA3O, MAAA, CAAuBV, GAAvB, EAAA; WACQ, QAAQA, GAAR, GAAC, GAARb; AAGD, AAAA, SAAAUb, MAAA, CAAuB2N, CAAvB, EAAA; WACQA, MAAM3S, SAAN, GAAkB, WAAIB, GAAiC2S, MAAM, IAAN, GAAa, MAAb, GAAaBC, OAAOF, SAAP, CAAiBjO, QAAjB, CAA0BgO, IAA1B, CAA+BE, CAA/B, EAAkCzP, KAAIC, CAAwC, GAAxC, EAA6C8D, GAA7C, GAAMd9D, KAAnd, CAAyD, GAAzD, EAA8D2P, KAA9D, GAAaEnT, WAAAtE, EAA9D; AAGD, AAAA, SAAA2B, WAAA, CAA4BoC, GAA5B, EAAA; WACQA, IAAlpC, WAAJ, EAAP; AAGD, AAAA, SAAA0B, OAAA, CAAwBsP, GAAxB, EAAA; WACQA, QAAQrS, SAAR, IAAlqBqS, QAAQ, IAA7B, GAAqCA, eAAenJ, KA Af, GAAuBmJ, GAAvB, GAA8B, OAAOA, IAAItR, MAAX, KAAaSB, QAAtB, IAAkCsR, IAAInP, KAAtC, IAA+CmP, IAAIG, WAAAnD, IAAkEH, IAAII, IAAtE, GAA6E, CAACJ, GAAD, CAA7E, GAAqFnJ, MAAMwJ, SAAN, CAAgBjQ, KAAhB, CAAaSBgQ, IAAtB, CAA2BJ, GAA3B, CAAxJ, GAA4L, EAAmM; AAID, AAAA, SAAA7M, MAAA, CAAuBE, MAAvB, EAAuC6M, MAAvC, EAAA; QACOF, MAAM3M, MAAZ; QACI6M, MAAJ, EAAY; aACN, IAAMD, GAAX, IAakBC, MAAlB, EAA0B; gBACrBD, GAAJ, IAAWC, OAAOD, GAAP, CAAX; WAGKD, GAAP; ADnCD, SAAA3D, SAAA, CAA0BrK, KAA1B, EAAA; QAEE4K, UAAU, UADX; QAECmD, MAAM, SAFP; QAGCID, UAAU, OAHX; QAICiD, WAAW, SAJZ; QAKC/N, WAAWR, MAAMsL, OAAAN, EA Ae, UA Af, CALZ; WAMQ, SANR; QAOCgD, OAAO, SAPR; QAQCjO, eAAeE, OAAOA, OAAO, YAAYC, QAAZ, GAAuB, GAAvB, GAA6BA, QAA7B, GAAwCA, QAAxC, GAAMd, GAAnD, GAAyDA, QAAzD, GAAoEA, QAA3E, IAAuF, GAAvF, GAA6FD, OAAO, gBAAgBC, QAAhB, GAA2B, GAA3B, GAAiCA, QAAjC, GAA4CA, QAAAnD, CAA7F, GAA4J, GAA5J, GAAkKD, OAAO, MAAMC, QAAN, GAAiBA, QAAxB, CAAzK, CARhB; mBASgB, yBATHb; QAUC2K, eAAe, qCAVhB; QAWCD, aAAaL, MAAMqO, YAAN, EAAoBID, YAAPb, CAXd; QAYCiD, YAAY3N, QAAQ, 6EAAR, GAAwF, IAZrG; iBAacA, QAAQ, mBAAR, GAA8B, IAb5C; mBAcgbT, MAAMqL, OAAAN, EAAeC, OAAf, EA AwB, gBAAxB, EAA0C8C, SAA1C, CadhB; QAeCtC, UAAUvL, OAAO8K, UAAUrL, MAAMqL, OAAAN, EAAeC, OAAf, EAAwB, aAAxB, CAAV, GAAMd, GAA1D, CAfX; QAgBCE, YAAYjL, OAAOA, OAAOF, eAAe, GAAf, GAAqBL, MAAMC, YAAN, EAAoBkL, YAAPb, EAakC, OAAIC, CAA5B, IAA0E, GAAjF, CAhBb; QAiBCgD, aAAa5N, OAAOA, OAAO, SAAP, IAAoB, GAAPb, GAA0BA, OAAO, WAAW+K, OAAIB, CAA1B, GAAuD, GAAvD, GAA6D/K, OAAO, MAAM+K, OAAAN, GAAgBA, OAAvB, CAA7D, GAA+F, GAA/F, GAAqG/K, OAAO, UAAU+K, OAAjB, CAARg, GAAiI, GAAjI, GAAuIA, OAA9I, CAjBd; QAkBC4C, qBAaqB3N, OAAOA, OAAO, SAAP, IAAoB, GAAPb, GA

A0BA,OAAO,WAAW+K,OAAIB,CAA1B,GAAuD,GAAvD,GAA6D/K,OAAO,MAAM+K,OAAN,GAAgBA,OA
AvB,CAA7D,GAA+F,GAA/F,GAAqG/K,OAAO,YAAY+K,OAANB,CAArG,GAAmI,OAAnI,GAA6IA,OAAPJ,C
AlBtB;;mBAmbgB/K,OAAO2N,qBAAqB,KAArB,GAA6BA,kBAA7B,GAakD,KAAID,GAA0DA,kBAA1D,GA
A+E,KAA/E,GAAuFA,kBAA9F,CAnBhB;QAoBCF,OAAOzN,OAAOC,WAAW,OAAIB,CAPBR;QAqBCyN,QA
AQ1N,OAAOA,OAAOyN,OAAO,KAAP,GAAeA,IAAtB,IAA8B,GAA9B,GAAoC/C,YAA3C,CARBT;QAsBCsC,
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A,OAAwCyN,IAAxC,IAAgD,SAAhD,GAA4DzN,OAAOyN,OAAO,KAAAd,CAA5D,GAAMF,KAAANF,GAA2FC,K
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D,SAAhD,GAA4DzN,OAAOyN,OAAO,KAAAd,CAA5D,GAAMF,KAAANF,GAA2FC,KAAIG,CazBjB;;oBA0BiB1
N,OAAOA,OAAOA,OAAOyN,OAAO,KAAAd,IAAuB,OAAvB,GAAiCA,IAAxC,IAAgD,SAAhD,GAA4DzN,OA
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OyN,OAAO,KAAAd,IAAuB,OAAvB,GAAiCA,IAAxC,IAAgD,SAAhD,GAAMeA,IAANe,GAA0E,KAA1E,GAA2
FC,KAAIG,CA3BjB;;oBA4BiB1N,OAAOA,OAAOA,OAAOyN,OAAO,KAAAd,IAAuB,OAAvB,GAAiCA,IAAxC,
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AvB,GAAiCA,IAAxC,IAAgD,SAAhD,GAA2FA,IAAIG,CA7BjB;;oBA8BiBzN,OAAOA,OAAOA,OAAOyN,OA
AO,KAAAd,IAAuB,OAAvB,GAAiCA,IAAxC,IAAgD,SAAvD,CA9BjB;;mBA+BgBzN,OAAO,CAACgN,aAAD,E
AAgBC,aAAhB,EAA+BC,aAA/B,EAA8CC,aAA9C,EAA6DC,aAA7D,EAA4EC,aAA5E,EAA2FC,aAA3F,EAA0
GC,aAA1G,EAAyHC,aAAzH,EAAwI7Q,IAAxI,CAA6I,GAA7I,CAAP,CA/BhB;QAqCC8N,UAAUzK,OAAOA,O
AAON,eAAe,GAaf,GAAqBI,YAA5B,IAA4C,GAAND,CAhCX;;iBAiCcE,OAAOWK,eAAe,OAaf,GAAYBC,OA
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AnE,CAICtB;;iBAmCczK,OAAO,SAASC,QAAT,GAAoB,MAApB,GAA6BR,MAAMC,YAAN,EAAoBkL,YAap
B,EAakC,OAAIC,CAA7B,GAA0E,GAAjF,CANcd;QAoCCgC,cAAc5M,OAAO,QAAQA,OAA08M,qBAAqB,G
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C,EAAGfEF,OAAGhE,CAAGwEC,WAAxE,EAAGfFE,WAArF,EAAGhGH,OAAGI,CAA0GyB,cAA1G,EAA0HpB,UA
AIH,CAAIB;oBACIU,SAASO,OAAOC,KAAP,CAAaC,QAAGQ,CAAGrB,CAAGb;;oBAGI;6BACO,CAAGC/C,QAAGQu

C,GAAT,GAAeE,SAASC,OAAT,CAAIbc,kBAakBL,MAAIb,EAA0BtC,OAA1B,EAAmCD,WAAnc,EAAjB,C Aaf,GAAoF0C,SAASg,SAAT,CAAmBN,MAAnB,CAA9F;iBADD,CAEE,OAAOE,CAAP,EAAU;+BACAvC,K AAX,GAAmBc,WAAWd,KAAx,IAAoB,0DAA0D,CAACD,QAAQuC,GAAT,GAAe,OAaf,GAAyB,SAAnF,IAA gG,iBAAhG,GAAoHC,CAA3J;;mBAGEJ,CAAH,IAAQc,YAAy,GAAZ,GAAkBC,MAA1B;;uBAGU9B,IAAX,G AAkB2B,GAAGhB,IAAH,CAAQ,GAAR,CAAIB;;YAGKU,UAAUG,iBAaiBH,OAajB,GAA2BG,iBAaiBH,OA AjB,IAA4B,EAAvE;YAEIG,iBAaiBE,OAARb,EAA8BL,QAAQ,SAAR,IAAQBG,iBAaiBE,OAATc;YAC1BF,iB AaiBC,IAARb,EAA2BJ,QAAQ,MAAR,IAAkBG,iBAaiBC,IAAnC;YAErBf,SAAS,EAAf;aACK,IAAMI,IAAX,I AAmBO,OAAnB,EAA4B;gBACvBA,QAAQP,IAAR,MAAkBS,EAAET,IAAF,CAAtB,EAA+B;uBACvBD,IAAP, CACCC,KAAKC,OAAL,CAAaC,WAAb,EAA0BC,gBAA1B,EAA4CF,OAA5C,CAAoDC,WAApD,EAAiEE,WA AjE,EAA8EH,OAA9E,CAAsFI,UAAtF,EAAkGC,UAAIG,IACA,GADA,GAEAC,QAAQP,IAAR,EAAcC,OAAd, CAAsBC,WAAtB,EAAmCC,gBAAnc,EAAqDF,OAARd,CAA6DC,WAA7D,EAA0EE,WAA1E,EAAuFH,OAAv F,CAA+FO,WAA/F,EAA4GF,UAA5G,CAHD;;YAOEV,OAAOE,MAAX,EAAmB;uBACPH,KAAx,GAAmBC, OAAOC,IAAP,CAAY,GAAZ,CAAnB;;eAGMJ,UAAP;;CAzGF,CA6GA;;ADnKA,IAAMC,YAAy,iBAaiB;AAC A,AAEA;ACA,IAAMV,YAAqD;YACjD,KADiD;WAGID,kBAAUS,UAAV,EAAoCf,OAAPc,EAAT;YACQc,U AAUC,WAAWP,IAAX,IAAmBO,WAAWP,IAAX,CAAgBL,KAAhB,CAAsBa,SAAtB,CAAnC;YACIpB,gBAAg BmB,UAApB;YAEID,OAAJ,EAAa;gBACNvB,SAASS,QAAQT,MAAR,IAAkBK,cAAcL,MAAhC,IAA0C,KAAz D;gBACMkB,MAAMK,QAAQ,CAAR,EAAwf,WAAx,EAAZ;gBACMF,MAAMiB,QAAQ,CAAR,CAAZ;gBAC MF,YAAerB,MAAf,UAAyBS,QAAQS,GAAR,IAAeA,GAAxC,CAAN;gBACMC,gBAAgBrB,QAAQuB,SAAR,C AAtB;0BAEcH,GAAd,GAAoBA,GAAPb;0BACcZ,GAAd,GAAoBA,GAAPb;0BACcW,IAAd,GAAqBH,SAARb; gBAEIK,aAAJ,EAAmB;gCACFA,cAAcG,KAAAd,CAAoBjB,aAAPb,EAAmCI,OAAnC,CAAhB;;SAZF,MAcO;0B ACQC,KAAAd,GAAsBL,cAAcK,KAAAd,IAAuB,wBAA7C;;eAGML,aAAP;KAZByD;eA4B9C,sBAAUa,aAAV,EA AuCI,OAAvC,EAAb;YACQT,SAASS,QAAQT,MAAR,IAAkBK,cAAcL,MAAhC,IAA0C,KAAzD;YACMkB,MA AMb,cAAca,GAA1B;YACMG,YAAerB,MAAf,UAAyBS,QAAQS,GAAR,IAAeA,GAAxC,CAAN;YACMC,gBA AgBrB,QAAQuB,SAAR,CAAtB;YAEIF,aAAJ,EAAmB;4BACFA,cAAcC,SAAd,CAAwBf,aAAxB,EAAuCI,OAA vC,CAAhB;;YAGKO,gBAAgBX,aAAtB;YACMC,MAAMD,cAAcG,GAA1B;sBACcW,IAAd,IAAwBC,OAAT, QAAQS,GAAvC,UAA8CZ,GAA9C;eAEou,aAAP;;CA1CF,CA8CA;;AD5DA,IAAMH,OAAO,0DAAAb;ACA,A AEA;ACA,IAAME,YAASe;YACIE,UADkE;WAGnE,eAAUV,aAAV,EAAuCI,OAAvC,EAAT;YACQF,iBAaiB F,aAAvB;uBACeN,IAAf,GAAsBQ,eAAeD,GAARc;uBACeA,GAAf,GAAqBQ,SAARb;YAEI,CAACL,QAAQE,Q AAT,KAAAsB,CAACJ,eAAeR,IAAhB,IAAwB,CAACQ,eAAeR,IAAf,CAAoBa,KAApB,CAA0BC,IAA1B,CAA/C, CAAJ,EAAqF;2BACrEH,KAAf,GAAuBH,eAAeG,KAAf,IAAwB,oBAA/C;;eAGMH,cAAP;KAZ0E;eAe/D,mBA AUA,cAAV,EAAyCE,OAAzC,EAAb;YACQJ,gBAAgBE,cAAtB;;sBAEcD,GAAd,GAAoB,CAACC,eAAeR,IAAf ,IAAuB,EAAxB,EAA4BS,WAA5B,EAApB;eACOH,aAAP;;CAnBF,CAuBA;;ADhCAP,QAAQM,QAACKJ,MAAb, IAAuBI,OAAvB;AAEA,AACAN,QAAQK,UAMMH,MAAd,IAAwBG,SAAxB;AAEA,AACAL,QAAQI,UAAOF, MAAf,IAAyBE,SAAZB;AAEA,AACAJ,QAAQG,UAAID,MAAZ,IAAsBC,SAAtB;AAEA,AACAH,QAAQC,UA AKC,MAAb,IAAuBD,SAAvB,CAEA;;;;;;;;;;" }

Found

in path(s):

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

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```
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
```

1.351 postcss 6.0.23

1.351.1 Available under license :

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1.352 css-selector-tokenizer 0.7.1

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1.353 json-schema-traverse 0.4.1

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1.354 fast-json-stable-stringify 2.0.0

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1.355 postcss-modules-values 1.3.0

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1.356 regexpu-core 1.0.0

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1.357 postcss-modules-local-by-default 1.2.0

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1.358 postcss-modules-scope 1.1.0

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1.359 ansi-styles 3.2.1

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1.360 color-name 1.1.3

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1.361 color-convert 1.9.1

1.361.1 Available under license :

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1.362 docopt 0.6.2

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1.363 python-dateutil 2.8.1

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dateutil - Extensions to the standard Python datetime module.

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1.364 python3-asn1crypto 0.24.0

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1.365 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
* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/src/isodate/tests/test_strf.py
*
/opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/setup.py
* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/src/isodate/tests/__init__.py
* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/src/isodate/duration.py
* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/src/isodate/isoduration.py
* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/src/isodate/isostrf.py
* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/src/isodate/isotime.py
* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/src/isodate/tests/test_date.py
* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/src/isodate/isodates.py
* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/src/isodate/isodatetime.py
* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/src/isodate/isotzinfo.py
```

*

```
/opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/src/isodate/isoerror.py
* /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
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   :alt: Travis-CI
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   :target: https://coveralls.io/r/gweis/isodate?branch=master
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   :alt: Latest Version
.. image:: https://img.shields.io/pypi/l/isodate.svg
   :target: https://pypi.python.org/pypi/isodate/

   :alt: License
```

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

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

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

all possible ISO 8601 dates/times.

For instance, dates before 0001-01-01 are

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

Documentation

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.

strptime:

A re-implementation mostly compatible with Python's *strptime*, 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 Duration 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 formatting 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 formatting 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 formatting 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

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier:

Programming Language :: Python

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
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1.366 bcrypt 3.1.7

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

```
"""
```

```
import io, sys
```

```
from setuptools import setup
```

```
def main():
```

```
    python_version = sys.version_info[:2]
```

```
    if python_version < (2,7):
```

```
        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()
```

Found in path(s):

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

1.368 python-setuptools 41.4.0

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1.379 schema-utils 0.4.7

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1.380 pytz 2018.5

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1.381 defusedxml 0.6.0

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1.382 packaging 19.2

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1.383 is-primitive 2.0.0

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1.386 python-setuptools 41.2.0

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1.387 file-loader 1.1.11

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1.388 Iodash 4.17.4

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1.389 pyasn1-modules 0.2.2

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1.390 gojsonpointer

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1.391 postcss-value-parser 3.3.0

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1.392 jsonschema 3.0.1

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1.393 icss-utils 2.1.0

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1.394 fastparse 1.1.1

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* /opt/cola/permits/1124672787_1611145753.0/0/webpack-fastparse-v1-1-1-0-g9206e09-tar-gz/webpack-fastparse-d1420f0/lib/Parser.js

1.395 ajv-keywords 3.4.0

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1.396 chalk 2.3.2

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1.397 pyrsistent 0.15.6

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1.398 style-loader 0.21.0

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1.399 css-loader 1.0.1

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1.400 css-selector-tokenizer 0.7.0

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1.401 coreutils 8.31

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1.404 glib 2.62.4-1~ubuntu19.10.2

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1.405 mpdecimal 2.4.2

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1.407 rsyslog 8.2006.0

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Version 3, 29 June 2007

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1.408 asn1.js 2.0.19

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1.409 python-dateutil 2.7.3-1.ph3

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1.410 pexpect 4.6.0-3.ph3

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1.411 glibc 2.33

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@subheading END OF TERMS AND CONDITIONS

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```

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1.413 pcre 8.44

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THE BASIC LIBRARY FUNCTIONS

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1.414 libxml 2.9.10

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1.415 cryptography 3.3.2

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1.416 pyasn1 0.4.7

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ASN.1 library for Python

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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 it 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](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

```
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   :maxdepth: 2
```

/pyasn1/contents

Use case

```
.. toctree::  
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```

/example-use-case

Download & Install

```
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/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.

```
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```

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```

/changelog

License

The PyASN1 software is distributed under 2-clause BSD License.

```
.. toctree::  
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```

/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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ASN.1 library for Python

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[![GitHub license](<https://img.shields.io/badge/license-BSD-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

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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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## 1.417 Ixml 4.6.3

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## 1.418 pystache 0.5.4

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

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## 1.422 python3-asn1crypto 0.24.0-1.ph3

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## 1.424 urllib3 1.25.3

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## Contributors

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\* 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
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- \* btoconnor <brian@btoconnor.net>
- \* Non-multipart encoding for POST requests
  
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- \* 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.
  
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- \* Various bugfixes and test improvements.
  
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  - \* 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](mailto:graffatcolmingov@gmail.com)>
  - \* PEP8 Compliance and Linting
  - \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <[erik.tollerud@gmail.com](mailto:erik.tollerud@gmail.com)>
  - \* Support for standard library io module.
  
- \* Krishna Prasad <[kprasad.iitd@gmail.com](mailto:kprasad.iitd@gmail.com)>
  - \* Google App Engine documentation
  
- \* Aaron Meurer  
<[asmeurer@gmail.com](mailto:asmeurer@gmail.com)>
  - \* Added Url.url, which unparses a Url
  
- \* Evgeny Kapun <[abacabadabacaba@gmail.com](mailto:abacabadabacaba@gmail.com)>
  - \* Bugfixes
  
- \* Benjamin Meyer <[bm\\_witness@yahoo.com](mailto:bm_witness@yahoo.com)>
  - \* Security Warning Documentation update for proper capture
  
- \* Shivan Sornarajah <[github@sornars.com](mailto:github@sornars.com)>
  - \* Support for using ConnectionPool and PoolManager as context managers.
  
- \* Alex Gaynor <[alex.gaynor@gmail.com](mailto:alex.gaynor@gmail.com)>
  - \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <[ttomecek@redhat.com](mailto: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](mailto:ddriddle@illinois.edu)>
  - \* IPv6 bugfixes in testsuite
  
- \* Thea Flowers <[magicalgirl@google.com](mailto:magicalgirl@google.com)>

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- \* Fix pool-default headers not applying for url-encoded requests like GET.
  
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- \* Predrag Gruevski <<https://github.com/obi1kenobi>>
- \* Made cert digest comparison use a constant-time algorithm.
  
- \* Adam Talsma <<https://github.com/a-tal>>
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- \* Evan Meagher <<https://evanmeagher.net>>
- \* Bugfix related to `memoryview` usage in PyOpenSSL adapter
  
- \* John Vandenberg <[jayvdb@gmail.com](mailto:jayvdb@gmail.com)>
- \* Python 2.6 fixes; pyflakes and pep8 compliance
  
- \* Andy Caldwell <[andy.m.caldwell@googlemail.com](mailto:andy.m.caldwell@googlemail.com)>
- \* Bugfix related to reusing connections in indeterminate states.
  
- \* Ville Skytt <[ville.skytta@iki.fi](mailto:ville.skytta@iki.fi)>
- \* Logging efficiency improvements, spelling fixes, Travis config.
  
- \* Shige Takeda <[smtakeda@gmail.com](mailto:smtakeda@gmail.com)>
- \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
- \* Jess Shapiro <[jesse@jesseshapiro.net](mailto: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>
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  - \* 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

\* [Your name or handle] <[email or website]>

\* [Brief summary of your changes]

# 1.425 python-requests 2.22.0

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## 1.426 urllib3 1.25.6

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# Contributions to the urllib3 project

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In chronological order:

\* [victor.vde](http://code.google.com/u/victor.vde/) <<http://code.google.com/u/victor.vde/>>

\* HTTPS patch (which inspired HTTPSConnectionPool)

\* [erikcederstrand](http://code.google.com/u/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/@WBRSRIBZDhBFXQB6/>
- \* Code review, PEP8 compliance, benchmark fix
  
- \* kennethreitz <me@kennethreitz.com>
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- \* 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.
  
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- \* 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
  
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  - \* Disabled TLS compression by default on Python 3.2+
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- \* 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](mailto:graffatcolmingov@gmail.com)>
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  - \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <[erik.tollerud@gmail.com](mailto:erik.tollerud@gmail.com)>
  - \* Support for standard library io module.
  
- \* Krishna Prasad <[kprasad.iitd@gmail.com](mailto:kprasad.iitd@gmail.com)>
  - \* Google App Engine documentation
  
- \* Aaron Meurer  
<[asmeurer@gmail.com](mailto:asmeurer@gmail.com)>
  - \* Added Url.url, which unparses a Url
  
- \* Evgeny Kapun <[abacabadabacaba@gmail.com](mailto:abacabadabacaba@gmail.com)>
  - \* Bugfixes
  
- \* Benjamin Meyer <[bm\\_witness@yahoo.com](mailto:bm_witness@yahoo.com)>
  - \* Security Warning Documentation update for proper capture
  
- \* Shivan Sornarajah <[github@sornars.com](mailto:github@sornars.com)>
  - \* Support for using ConnectionPool and PoolManager as context managers.
  
- \* Alex Gaynor <[alex.gaynor@gmail.com](mailto:alex.gaynor@gmail.com)>
  - \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <[ttomecek@redhat.com](mailto: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](mailto:ddriddle@illinois.edu)>
  - \* IPv6 bugfixes in testsuite
  
- \* Thea Flowers <[magicalgirl@google.com](mailto:magicalgirl@google.com)>
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- \* Clues to debugging problems with `cryptography` dependency in docs
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- \* Fix pool-default headers not applying for url-encoded requests like GET.
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- \* 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
  
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- \* Fix leaking exceptions when system calls are interrupted with zero timeout
  
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- \* Tim Bell <https://github.com/timb07>
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- \* 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]

## 1.427 python-pip 19.3.1

### 1.427.1 Available under license :

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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
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
3.3	3.2			
2012	PSF	yes		

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- Chris McDonough, 2011/02/16

- Wichert Akkerman, 2012/02/02

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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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#### 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
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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.

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#### History

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=====

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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  
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Just configure this file as the SSLCACertificateFile.#

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

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## 1.428 pytz 2018.5-2.ph3

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## 1.429 python-pip 19.2.3

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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 (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.

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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
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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
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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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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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\* /opt/cola/permits/1161616804\_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/codec/native/decoder.py

\* /opt/cola/permits/1161616804\_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/codec/ber/\_\_main\_\_.py

\* /opt/cola/permits/1161616804\_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/codec/ber/test\_decoder.py

\* /opt/cola/permits/1161616804\_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/type/test\_constraint.py

\* /opt/cola/permits/1161616804\_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/type/test\_opentype.py

\* /opt/cola/permits/1161616804\_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/compat/test\_octets.py

\* /opt/cola/permits/1161616804\_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/type/opentype.py

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/opt/cola/permits/1161616804\_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/codec/native/test\_encoder.py

\* /opt/cola/permits/1161616804\_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/codec/native/\_\_main\_\_.py

\* /opt/cola/permits/1161616804\_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/codec/cer/test\_encoder.py

\* /opt/cola/permits/1161616804\_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/type/char.py

\* /opt/cola/permits/1161616804\_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/codec/der/\_\_main\_\_.py

\* /opt/cola/permits/1161616804\_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/codec/ber/eoo.py

\* /opt/cola/permits/1161616804\_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/type/test\_tag.py

\* /opt/cola/permits/1161616804\_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/codec/cer/test\_decoder.py

\* /opt/cola/permits/1161616804\_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/codec/der/test\_decoder.py

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\* /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  
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\* /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  
\* /opt/cola/permits/1161616804\_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/compat/\_\_main\_\_.py  
\* /opt/cola/permits/1161616804\_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/type/namedval.py  
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\* /opt/cola/permits/1161616804\_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/compat/dateandtime.py  
\* /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  
\* /opt/cola/permits/1161616804\_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/type/useful.py  
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\* /opt/cola/permits/1161616804\_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/codec/native/encoder.py  
\* /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  
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\* /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  
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\* /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

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[!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)  
[!Coverage  
Status](https://img.shields.io/codecov/c/github/etingof/pyasn1.svg)](https://codecov.io/github/etingof/pyasn1)  
[!GitHub license](https://img.shields.io/badge/license-BSD-  
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](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::
   :maxdepth: 1
```

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 it 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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* /opt/cola/permits/1161616804_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/docs/source/contents.rst

1.436 urllib3 1.24.2

1.436.1 Available under license :

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Contributions to the urllib3 project

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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/@WBRSRIBZDhBFXQB6/>>
- * 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
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- * Added `Url.url`, which unparses a `Url`

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

- * Benjamin 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 efficiencyimprovements, 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]

1.437 cyrus-sasl 2.1.27

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 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
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* Rob Earhart
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```
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```

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1.440 loader-utils 1.2.3

1.440.1 Available under license :

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1.441 hyperlink 18.0.0-3.ph3

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1.442 celery 4.3.0

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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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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
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* /opt/cola/permits/1170785299_1622700563.86/0/python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/xlrd/timemachine.py

* /opt/cola/permits/1170785299_1622700563.86/0/python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/xlrd/examples/xlrdnameAPIdemo.py

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

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

Found in path(s):

* /opt/cola/permits/1170785299_1622700563.86/0/python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/setup.py

1.444 django 2.1.4

1.444.1 Available under license :

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====

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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](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
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.

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1.445 chardet 3.0.4-2.ph4

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1.446 pyopenssl 19.1.0-2.ph4

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1.451 packaging 16.8-4.ph2

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1.458 websocket-client 0.40.0

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1.461 cffi 1.13.1

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1.463 taglib 0.12.1

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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

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Description: .. image:: <https://coveralls.io/repos/bitbucket/openpyxl/openpyxl/badge.svg?branch=default>

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:alt: coverage status

Introduction

openpyxl is a Python library to read/write Excel 2010 xlsx/xlsm/xltx/xltn 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.*

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* /opt/cola/permits/1180985164_1626381098.37/0/openpyxl-2-5-6-1-tar-gz/openpyxl-2.5.6/PKG-INFO

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1.465 python-ldap 3.1.0

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1.466 djangorestframework 3.8.2

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1.467 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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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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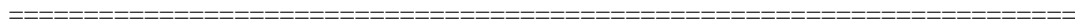
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package engine

```
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))
    }
}

```

1.468 python-dateutil 2.8.1-2.ph4

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dateutil - Extensions to the standard Python datetime module.

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1.469 python-certifi 2019.09.11

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This package 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 \$

1.470 python-certifi 2019.06.16

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1.471 bridgeutils 1.6.0

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1.472 libatomic 7.6.10

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1.473 runc 1.0.0-rc10

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

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<https://github.com/golang/protobuf>

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1.475 linux-headers 4.9.107

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>>> freebd-base64-4.8

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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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1.478 parse-asn1 5.1.1

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1.479 python-certifi 2019.11.28

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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 \$

1.480 supports-color 5.3.0

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1.481 remove-trailing-separator 1.1

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1.482 procps 3.3.15

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small

inline

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1.483 wcmwidth 0.1.7

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1.484 msgpack-python 0.6.2

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1.487 aioredis 1.1.1

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1.489 nginx 1.17.7

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1.491 isobject 2.1.0

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1.492 json5 1.0.1

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1.493 source-list-map 2.0.1

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1.494 big.js 5.2.2

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d) 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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,

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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.

5. 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.

6. 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.

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- a) 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

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

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

d) 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.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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 executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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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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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) 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.)

These requirements apply to the modified work as a whole. If

identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,

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4. 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.

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1.510 html5lib 1.0.1

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