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/*

minibz2

libbz2.dll test program.

by Yoshioka Tsuneo (tsuneo@rr.iij4u.or.jp)

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usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]

*/

1.4 docopt 0.6.2

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1.5 concat-map 0.0.1

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1.6 minimist 0.0.8

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1.7 mkdirp 0.5.1

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1.8 underscore 1.8.3

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1.9 has-ansi 2.0.0

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

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

Install

...

\$ npm install --save has-ansi

...

Usage

```js

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



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

```
//=> true
```

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

```
//=> false
```

```
````
```

Related

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

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1.10 supports-color 2.0.0

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

> Detect whether a terminal supports color

Install

```
````
```

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

```
````
```

Usage

```
```js
```

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

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

```
````
```

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

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

Related

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

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1.11 unicodcsv 0.14.1

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Found in path(s):

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

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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

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):

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

1.12 buffer-xor 1.0.3

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1.13 backbone 1.2.3

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1.14 syslinux 6.03

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```

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```

```
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Ty Coon, President of Vice
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 * This file is part of the lwIP TCP/IP stack.
 *
 * Author: Adam Dunkels <adam@sics.se>
 *
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Ty Coon, President of Vice
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src/drivers/net/3c595.h  BSD
src/drivers/net/3c90x.c  Open Source
src/drivers/net/epic100.c  None
src/drivers/net/epic100.h  None
src/drivers/net/ns8390.c  BSD
src/drivers/net/ns8390.h  BSD

```


src/arch/i386/include/bits/string.h None

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Found in path(s):

* /opt/cola/permits/148343421_1695307977.777354/0/cookies-2-2-1-tar-gz/cookies-2.2.1/cookies.py

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

Metadata-Version: 1.1

Name: cookies

Version: 2.2.1

Summary: Friendlier RFC 6265-compliant cookie parser/renderer

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

Author: Sasha Hart

Author-email: s@sashahart.net

License: UNKNOWN

Description: What is this and what is it for?

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

Features

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

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

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

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

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

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

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

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

Things this is not meant to do

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

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

This doesn't compete with the cookielib (<http://cookielib.org>) 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

Classifier: License :: OSI Approved :: MIT License

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

Found in path(s):

* /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

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

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>>> C = SmartCookie()
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```
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```

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

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



```
>>> C["rocky"]["path"] = "/cookie"
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```

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

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

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

Found in path(s):

* /opt/cola/permits/148343421_1695307977.777354/0/cookies-2-2-1-tar-gz/cookies-2.2.1/README
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```
from setuptools import setup, Command
from cookies import __version__
```

```
class Test(Command):
```

```
    user_options = []
```

```
    def initialize_options(self):
        pass
```

```
    def finalize_options(self):
        pass
```

```
    def run(self):
        try:
            import pytest
        except ImportError:
            raise AssertionError("Install py.test to run the tests")
        import sys, subprocess
        errno = subprocess.call([sys.executable, '-m', 'py.test'])
        raise SystemExit(errno)
```

```
setup(
    name="cookies",
    version=__version__,
    author="Sasha Hart",
    author_email="s@sashahart.net",
    url="https://github.com/sashahart/cookies",
    py_modules=['cookies', 'test_cookies'],
    description="Friendlier RFC 6265-compliant cookie parser/renderer",
    long_description=open('README').read(),
    classifiers=[
        "Development Status :: 4 - Beta",
        "Environment :: Other Environment",
```



```

    "Intended
Audience :: Developers",
    "License :: OSI Approved :: MIT License",
    "Programming Language :: Python :: 2.6",
    "Programming Language :: Python :: 2.7",
    "Programming Language :: Python :: 3",
    "Programming Language :: Python :: 3.2",
    "Programming Language :: Python :: 3.3",
    "Programming Language :: Python :: Implementation :: PyPy",
    "Topic :: Software Development :: Libraries :: Python Modules",
],
cmdclass = {'test': Test},
)

```

Found in path(s):

* /opt/cola/permits/148343421_1695307977.777354/0/cookies-2-2-1-tar-gz/cookies-2.2.1/setup.py

1.29 django-bulk-update 1.1.10

1.29.1 Available under license :

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Metadata-Version: 1.1

Name: django-bulk-update

Version: 1.1.10

Summary: Bulk update using one query over Django ORM.

Home-page: <https://github.com/aykut/django-bulk-update>

Author: Aykut Ozat

Author-email: aykutozat@gmail.com

License: UNKNOWN

Description: django-bulk-update

=====
 [![Build Status](https://travis-ci.org/aykut/django-bulk-update.svg?branch=master)](https://travis-ci.org/aykut/django-bulk-update)

[![Coverage Status](https://coveralls.io/repos/aykut/django-bulk-update/badge.svg?branch=master)](https://coveralls.io/r/aykut/django-bulk-update?branch=master)

Simple bulk update over Django ORM or with helper function.

This project aims to bulk update given objects using **one query** over **Django ORM**.

Installation

=====
 pip install django-bulk-update

Usage

=====

With manager:

```
```python
import random
from bulk_update.manager import BulkUpdateManager
from tests.models import Person

class Person(models.Model):
 ...
 objects = BulkUpdateManager()

random_names = ['Walter', 'The Dude', 'Donny', 'Jesus']
people = Person.objects.all()
for person in people:
 person.name = random.choice(random_names)

Person.objects.bulk_update(people, update_fields=['name']) # updates only name column
Person.objects.bulk_update(people, exclude_fields=['username']) # updates all columns except username
Person.objects.bulk_update(people) # updates all columns
Person.objects.bulk_update(people, batch_size=50000) # updates all columns by 50000 sized chunks
```
```

With helper:

```
```python

import random
from bulk_update.helper import bulk_update
from tests.models import Person

random_names = ['Walter', 'The Dude', 'Donny', 'Jesus']
people = Person.objects.all()
for person in people:
 person.name = random.choice(random_names)

bulk_update(people, update_fields=['name']) # updates only name column
bulk_update(people, exclude_fields=['username']) # updates all columns except username
bulk_update(people, using='someotherdb') # updates all columns using the given db
bulk_update(people) # updates all columns using the default db
bulk_update(people, batch_size=50000) # updates all columns by 50000 sized chunks using the default db
```
```

Note: You can consider to use `.only('name')` when you only want to update `name`, so that Django will only retrieve name data from db.

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

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

These optimization can improve the performance even more.

Performance Tests:

=====

Here we test the performance of the `bulk_update` function vs. simply calling
`.save()` on every object update (`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 dmmmy_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]: dmmmy_perf = min(timeit.Timer('dmmmy_update()', setup=setup).repeat(7, 100))
In [13]: print 'Bulk update performance: %.2f. Dummy update performance: %.2f. Speedup: %.2f.' % (bu_perf,
dmmmy_perf, dmmmy_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

=====

django-bulk-update is released under the MIT License. See the LICENSE file for more details.

Platform: UNKNOWN

Classifier: Environment :: Web Environment

Classifier: Framework :: Django

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License



Classifier: Operating System :: OS Independent  
Classifier: Programming Language :: Python  
Classifier: Programming Language ::  
Python :: 2  
Classifier: Programming Language :: Python :: 2.7  
Classifier: Programming Language :: Python :: 3  
Classifier: Programming Language :: Python :: 3.3  
Classifier: Programming Language :: Python :: 3.4  
Classifier: Topic :: Internet :: WWW/HTTP  
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content

Found in path(s):

\* /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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Found in path(s):

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

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

Found in path(s):

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

# 1.30 incremental 16.10.1

## 1.30.1 Available under license :

Incremental

-----

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Massachusetts Institute of Technology  
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Moshe Zadka  
Paul Swartz  
Pavel Pergamenschik  
Rackspace, US Inc.  
Ralph Meijer  
Richard Wall  
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Tavendo GmbH  
Thijs Triemstra  
Thomas Herve  
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## 1.31 websocket-client 0.40.0

### 1.31.1 Available under license :

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

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

"""

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

"""

```
import io, sys
```

```
from setuptools import setup
```

```
version = "2.5"
```

```
def main():
```

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

```
 if python_version < (2,6):
```

```
 raise SystemExit("Sorry, Python 2.6 or newer required")
```

```
arguments = {
```

```
 'name': 'idna',
```

```
 'packages': ['idna'],
```

```
 'version': version,
```

```
 'description': 'Internationalized Domain Names in Applications (IDNA)',
```

```
 'long_description': io.open("README.rst", encoding="UTF-8").read(),
```

```
 'author': 'Kim Davies',
```

```
 'author_email': 'kim@cynosure.com.au',
```

```
 'license': 'BSD-like',
```

```
 'url': 'https://github.com/kjd/idna',
```

```
 'classifiers': [
```

```
 'Development Status :: 5 - Production/Stable',
```

```
 'Intended Audience :: Developers',
```

```
 'Intended Audience :: System Administrators',
```

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

```
 'Operating System :: OS Independent',
```

```
 'Programming Language :: Python',
```

```
 'Programming Language :: Python :: 2.6',
```

```
 'Programming Language :: Python :: 2.7',
```

```
 'Programming Language :: Python :: 3',
```

```
 'Programming Language :: Python :: 3.3',
```

```
 'Programming Language :: Python :: 3.4',
```



```

'Programming Language :: Python :: 3.5',
'Programming Language :: Python :: 3.6',
'Topic :: Internet :: Name Service (DNS)',
'Topic :: Software Development :: Libraries :: Python Modules',
'Topic :: Utilities',
],
'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
 main()

Found
in path(s):
* /opt/cola/permits/151249258_1695308605.4099643/0/idna-2-5-tar-gz/idna-2.5/setup.py
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Metadata-Version: 1.1
Name: idna
Version: 2.5
Summary: Internationalized Domain Names in Applications (IDNA)
Home-page: https://github.com/kjd/idna
Author: Kim Davies
Author-email: kim@cynosure.com.au
License: BSD-like
Description: Internationalized Domain Names in Applications (IDNA)
=====

Support for the Internationalised Domain Names in Applications
(IDNA) protocol as specified in `RFC 5891 <http://tools.ietf.org/html/rfc5891>`.
This is the latest version of the protocol and is sometimes referred to as
“IDNA 2008”.

This library also provides support for Unicode Technical Standard 46,
`Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`.

This acts as a suitable replacement for the “encodings.idna” module that
comes with the Python standard library,
but only supports the
old, deprecated IDNA specification (`RFC 3490 <http://tools.ietf.org/html/rfc3490>`).

Basic functions are simply executed:

.. code-block:: pycon

Python 3

```



```
>>> import idna
>>> idna.encode('.')
b'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
.
```

```
Python 2
>>> import idna
>>> idna.encode(u'.')
'xn--eckwd4c7c.xn--zckzah'
>>> print idna.decode('xn--eckwd4c7c.xn--zckzah')
.
```

## Packages

-----

The latest tagged release version is published in the PyPI repository:

```
.. image:: https://badge.fury.io/py/idna.svg
:target: http://badge.fury.io/py/idna
```

## Installation

-----

To install this library,  
you can use pip:

```
.. code-block:: bash
```

```
$ pip install idna
```

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

```
.. code-block:: bash
```

```
$ python setup.py install
```

This library works with Python 2.6 or later, and Python 3.3 or later.

## Usage

-----

For typical usage, the ``encode`` and ``decode`` functions will take a domain name argument and perform a conversion to A-labels or U-labels respectively.

```
.. code-block:: pycon
```



```
Python 3
>>> import idna
>>> idna.encode('.')
b'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
.
```

You may use the codec encoding and decoding methods using the `idna.codec` module:

.. code-block:: pycon

```
Python 2
>>> import idna.codec
>>> print u'.'.encode('idna')
xn--80ahd1agd.xn--80akhbyknj4f
>>> print 'xn--80ahd1agd.xn--80akhbyknj4f'.decode('idna')
.
```

Conversions can be applied at a per-label basis using the `ulabel` or `alabel` functions if necessary:

.. code-block:: pycon

```
Python 2
>>> idna.alabel(u'')
'xn--0zwm56d'
```

#### Compatibility Mapping (UTS #46)

+++++

As described in [RFC 5895](http://tools.ietf.org/html/rfc5895) [\[http://tools.ietf.org/html/rfc5895\]](http://tools.ietf.org/html/rfc5895), the IDNA specification no longer normalizes input from different potential ways a user may input a domain name. This functionality, known as a “mapping”, is now considered by the specification to be a local user-interface issue distinct from IDNA conversion functionality.

This library provides one such mapping, that was developed by the Unicode Consortium. Known as [Unicode IDNA Compatibility Processing](http://unicode.org/reports/tr46/) [\[http://unicode.org/reports/tr46/\]](http://unicode.org/reports/tr46/), it provides for both a regular mapping for typical applications, as well as a transitional mapping to help migrate from older IDNA 2003 applications.

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

.. code-block:: pycon



```
Python 3
>>> import idna
>>> idna.encode(u'Königsgäßchen')
...
idna.core.InvalidCodepoint: Codepoint U+004B at position 1 of 'Königsgäßchen' not allowed
>>> idna.encode('Königsgäßchen', uts46=True)
b'xn--knigsgchen-b4a3dun'
>>> print(idna.decode('xn--knigsgchen-b4a3dun'))
königsgäßchen
```

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

.. code-block:: pycon

```
Python 2
>>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
'xn--knigsgsschen-lcb0w'
```

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

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

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

Exceptions  
-----

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

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



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

## Testing

-----

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

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

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

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: Intended Audience :: System Administrators

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming

Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Topic :: Internet :: Name Service (DNS)

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

Classifier: Topic :: Utilities

Found in path(s):

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

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

# 1.40 jsesc 0.5.0

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## 1.41 json5 0.5.1

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## 1.42 xmldict 0.11.0



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## 1.43 appdirs 1.4.3

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# 1.44 pyparsing 2.2.0

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# 1.45 bootstrap-tagsinput 0.7.1

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# 1.46 strict-rfc3339 0.7

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Version 3, 29 June 2007

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# 1.48 python-cryptography 1.7.2

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## 1.61 xlrd 1.1.0

### 1.61.1 Available under license :

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Metadata-Version: 1.1

Name: xlrd

Version: 1.1.0

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

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

Author: John Machin

Author-email: [sjmachin@lexicon.net](mailto:sjmachin@lexicon.net)

License: BSD

Description: Extract data from Excel spreadsheets (.xls and .xlsx, versions 2.0 onwards) on any platform. Pure Python (2.7, 3.4+). Strong support for Excel dates. Unicode-aware.

Keywords: xls,excel,spreadsheet,workbook

Platform: Any platform -- don't need Windows

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language

:: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Operating System :: OS Independent

Classifier: Topic :: Database

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

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* /opt/cola/permits/162035862_1695312424.300582/0/xlrd-1-1-0-tar-gz/xlrd-1.1.0/xlrd/sheet.py
* /opt/cola/permits/162035862_1695312424.300582/0/xlrd-1-1-0-tar-gz/xlrd-1.1.0/xlrd/__init__.py
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/opt/cola/permits/162035862_1695312424.300582/0/xlrd-1-1-0-tar-gz/xlrd-
1.1.0/tests/test_comments_excel_sheet2.xlsx: binary file matches
```

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Author: mozman --<mozman@gmx.at>

Purpose: test\_mini

Created: 03.12.2010



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pyXLWriter also makes reference to the PERL Spreadsheet::WriteExcel as follows::

This module was written/ported from PERL Spreadsheet::WriteExcel module

The author

of the PERL Spreadsheet::WriteExcel module is John McNamara

<jmcnamara@cpan.org>

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# 1.73 balanced-match 1.0.0



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## 1.118 dcron 4.5



# 1.119 docker-compose 1.10.0

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# 1.120 rfc3987 1.3.7

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# 1.121 vcversioner 2.16.0.0

## 1.121.1 Available under license :

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```
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copyright notice and this permission notice appear in all copies.
```

Found in path(s):

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

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

Metadata-Version: 1.1

Name: vcversioner

Version: 2.16.0.0

Summary: Use version control tags to discover version numbers

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

Author: Aaron Gallagher

Author-email: [\\_@habnab.it](mailto:_@habnab.it)

License: ISC

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

```
=====
vcversioner
=====
```

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

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

Basic usage



-----

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

```
from setuptools import setup

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

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

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

if there is no VCS program or the program is unable to find any version information, vcversioner will read version information from the ``version.txt`` file. However, this file needs to be included in a distributed tarball, so the following line should be added to ``MANIFEST.in``::

```
include version.txt
```

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

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

```
from setuptools import setup

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

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

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



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

#### Non-hook usage

-----

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

```
from setuptools import setup
import vcversioner

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

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

#### Version modules

-----

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

```
from setuptools import setup

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

This will generate a `spam/_version.py` file that defines `__version__` and `__revision__`. Then, in `spam/__init__.py`::



```
from spam._version import __version__, __revision__
```

Since this acts like (and *is*) a regular python module, changing

`MANIFEST.in` is not required.

#### Customizing VCS commands

-----

`vcversioner` by default tries to detect which VCS is being used and picks a command to run based on that. For git, that is `git --git-dir %(root)s/.git describe --tags --long`. For hg, that is `hg log -R %(root)s -r . --template '{latesttag}-{latesttagdistance}-hg{node|short}'`.

Any command should output a string that describes the current commit in the format `<version number>-<number of commits between the current commit and the version tagged commit>-<revision>`. The revision should have a VCS-specific prefix, e.g. `g` for git and `hg` for hg.

However, sometimes this isn't sufficient. If someone wanted to only use annotated tags, the git command could be amended like so::

```
from setuptools
import setup

setup(
 # [...]
 setup_requires=['vcversioner'],
 vcversioner={
 'vcs_args': ['git', 'describe', '--long'],
 },
)
```

The `vcs_args` parameter must always be a list of strings, which will not be interpreted by the shell. This is the same as what `subprocess.Popen` expects.

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

#### Development versions

-----

`vcversioner` can also automatically make a version that corresponds to a commit that isn't itself tagged. Following `PEP 386`, this is done by adding a



```.post``` suffix to the version specified by a tag on an earlier commit. For example, if the current commit is three revisions past the ```1.0``` tag, the computed version will be ```1.0.post3```.

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

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

Project roots

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

This can be changed by specifying the

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

```
from setuptools import setup
import os

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

To get the same behavior in the 0.x version series, ```vcs_args``` can be set to include the ```--git-dir``` flag:

```
from setuptools import setup

setup(
 # [...]
 setup_requires=['vcversioner'],
 vcversioner={
 vcs_args=['git', '--git-dir', '%(root)s/.git', 'describe',
```



```

 '--tags', '--long'],
 },
)

```

By default, ``version.txt`` is also read from the project root.

## Substitutions

~~~~~

As seen above, `*root*`, `*version_file*`, and `*vcs_args*` each support some substitutions:

```%(root)s```

The value provided for `*root*`. This is not available for the `*root*` parameter itself.

```%(pwd)s```

The current working directory.

```/^``` will automatically be translated into the correct path separator for the current platform, such as ```:``` or ```\```.

Sphinx documentation

`Sphinx`_ documentation is yet another place where version numbers get duplicated. Fortunately, since sphinx configuration is python code, `vcversioner` can be used there too. Assuming `vcversioner` is installed system-wide, this is quite easy. Since Sphinx is typically run with the current working directory as

```<your project root>/docs```, it's necessary to tell `vcversioner` where the project root is. Simply change your ```conf.py``` to include::

```

import vcversioner
version = release = vcversioner.find_version(root='.').version

```

This assumes that your project root is the parent directory of the current working directory. A slightly longer version which is a little more robust would be::

```

import vcversioner, os
version = release = vcversioner.find_version(
 root=os.path.dirname(os.path.abspath(__file__))).version

```

This version is more robust because it finds the project root not relative to



the current working directory but instead relative to the ``conf.py`` file.

If `vcversioner` is bundled with your project instead of relying on it being installed, you might have to add the following to your ``conf.py`` before

```
``import vcversioner``::
```

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

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

## Read the Docs

~~~~~

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

If your project is already set up to install dependencies with a ``requirements.txt`` file, add ``vcversioner`` to it. Otherwise, create a ``requirements.txt`` file. Assuming your documentation is in a ``docs`` subdirectory of the main project directory, create ``docs/requirements.txt`` containing a ``vcversioner`` line.

Then, make the following changes to your project's configuration: (Project configuration is edited at e.g. <https://readthedocs.org/dashboard/vcversioner/edit/>)

- Check the checkbox under **Use virtualenv**.
- If there was no ``requirements.txt`` previously, set the **Requirements file** to the newly-created one, e.g. ``docs/requirements.txt``.

```
.. _Elevator pitch: http://en.wikipedia.org/wiki/Elevator_pitch
.. _pip: https://pypi.python.org/pypi/pip
.. _PEP 386: http://www.python.org/dev/peps/pep-0386/
.. _Sphinx: http://sphinx-doc.org
.. _Read the Docs: https://readthedocs.org/
.. _semantic versioning: http://semver.org/

.. |find_version| replace:: ``find_version``
```



Platform: UNKNOWN  
Classifier: Development Status :: 3 - Alpha  
Classifier:  
Intended Audience :: Developers  
Classifier: License :: OSI Approved :: ISC License (ISCL)  
Classifier: Operating System :: OS Independent  
Classifier: Programming Language :: Python :: 2  
Classifier: Programming Language :: Python :: 2.6  
Classifier: Programming Language :: Python :: 2.7  
Classifier: Programming Language :: Python :: 3  
Classifier: Programming Language :: Python :: 3.3  
Classifier: Programming Language :: Python :: 3.4  
Classifier: Programming Language :: Python :: 3.5  
Classifier: Topic :: Software Development :: Version Control

Found in path(s):

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

# 1.122 webcolors 1.7

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## 1.123 open-vm-tools

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>>> freebsd-base64-4.8

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

\$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp \$ /

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>>> icu4c-4.4.1

ICU License - ICU 1.8.1 and later

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## 1.124 rsyslog 8.22.0

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Version 3, 29 June 2007

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## 1.128 python-cached-property 1.3.0

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@c Local Variables:

@c ispell-local-pdict: "ispell-dict"

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Version 3, 29 June 2007

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 <title>Copyright</title><link rel="stylesheet" href="reference.css" type="text/css"><meta name="generator"
 content="DocBook XSL Stylesheets V1.37"></head><body bgcolor="white" text="black" link="#0000FF"
```

```
 vlink="#840084" alink="#0000FF"><div class="legalnotice"><p class="legalnotice-
```

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# 1.146 python-certifi 2018.1.18

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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 \$

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 \$

Metadata-Version: 1.1

Name: certifi

Version: 2018.1.18

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

Home-page: <http://certifi.io/>

Author: Kenneth Reitz

Author-email: [me@kennethreitz.com](mailto:me@kennethreitz.com)

License: MPL-2.0

Description: Certifi: Python SSL Certificates

=====

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

Installation

-----

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



```
$ pip install certifi
```

## Usage

-----

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

```
>>> import certifi

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

Enjoy!

## 1024-bit Root Certificates

~~~~~

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

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

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

```
.. _`Certifi`: http://certifi.io/en/latest/
.. _`Requests`: http://docs.python-requests.org/en/latest/
```

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: Mozilla Public License 2.0 (MPL 2.0)

Classifier: Natural Language :: English

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 :: 3.3



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## 1.212 iptables 1.6.1



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

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

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived 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.

Author: Julio Merino <jmmv84@gmail.com>

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

<!--
- Local variables:
- mode: sgml
- End:
-->
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## 1.214 crypto-browserify 3.12.0

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## 1.216 process-nextick-args 2.0.0

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Coverage.py was originally written by Gareth Rees, and since 2004 has been extended and maintained by Ned Batchelder.

Other contributions, including writing code, updating docs, and submitting useful bug reports, have been made by:

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* /opt/cola/permits/178631363_1695329442.7059288/0/isodate-0-6-0-tar-gz/isodate-
0.6.0/src/isodate/tests/test_strf.py
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* /opt/cola/permits/178631363_1695329442.7059288/0/isodate-0-6-0-tar-gz/isodate-0.6.0/src/isodate/__init__.py
*
/opt/cola/permits/178631363_1695329442.7059288/0/isodate-0-6-0-tar-gz/isodate-0.6.0/src/isodate/isodates.py
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0.6.0/src/isodate/tests/test_duration.py
* /opt/cola/permits/178631363_1695329442.7059288/0/isodate-0-6-0-tar-gz/isodate-
0.6.0/src/isodate/tests/test_time.py
*
/opt/cola/permits/178631363_1695329442.7059288/0/isodate-0-6-0-tar-gz/isodate-0.6.0/src/isodate/isoduration.py
* /opt/cola/permits/178631363_1695329442.7059288/0/isodate-0-6-0-tar-gz/isodate-
0.6.0/src/isodate/tests/test_date.py
* /opt/cola/permits/178631363_1695329442.7059288/0/isodate-0-6-0-tar-gz/isodate-
0.6.0/src/isodate/tests/test_datetime.py
* /opt/cola/permits/178631363_1695329442.7059288/0/isodate-0-6-0-tar-gz/isodate-
0.6.0/src/isodate/tests/__init__.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](mailto:gerhard.weis@proclos.com)

License: BSD

Description:

ISO 8601 date/time parser

=====

.. image:: <https://travis-ci.org/gweis/isodate.svg?branch=master>

:target: <https://travis-ci.org/gweis/isodate>

:alt: Travis-CI

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```
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```

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

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

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

For instance, dates before 0001-01-01 are not allowed by the Python `*date*` and `*datetime*` classes. Additionally fractional seconds are limited to microseconds. That means if the parser finds for instance nanoseconds it will round it to microseconds.

## Documentation

-----

Currently there are four parsing methods available.

- \* `parse_time`:  
parses an ISO 8601 time string into a `*time*` object
- \* `parse_date`:  
parses an ISO 8601 date string into a `*date*` object
- \* `parse_datetime`:  
parses an ISO 8601 date-time string into a `*datetime*` object
- \* `parse_duration`:  
parses an ISO 8601 duration string into a `*timedelta*` or `*Duration*` object.
- \* `parse_tzinfo`:  
parses the time zone info part of an ISO 8601 string into a `*tzinfo*` object.



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

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

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

#### Installation:

-----

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

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

#### Limitations:

-----

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

1. for date and time together, this parser accepts a mixture of basic and extended format.



e.g. the date could be in basic format, while the time is accepted in extended format.

It also allows short dates and times in date-time strings.

2. For incomplete dates, the first day is chosen. e.g. 19th century results in a date of 1901-01-01.

3. negative `*Duration*` and `*timedelta*` value are not fully supported yet.

Further information:

-----

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

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

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

## CHANGES

=====

0.6.0 (2017-10-13)

-----

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

0.5.4 (2015-08-06)

-----

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

0.5.1 (2014-11-07)

-----

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

0.5.0 (2014-02-23)

-----

- ISO8601Error are subclasses of ValueError now (Michael Hrivnak)
- improve compatibility across various python



#### variants and versions

- raise exceptions when using fractional years and months in date maths with durations
- renamed method todatetime on 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

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

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## 1.226 zeep 2.5.0

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## 1.228 wsaccel 0.6.2



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Metadata-Version: 1.1

Name: wsaccel

Version: 0.6.2

Summary: Accelerator for ws4py and AutobahnPython

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

Author: INADA Naoki

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



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## 1.237 readable-stream 2.3.6

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# 1.240 i18next 7.2.3

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## 2c9454e4fc6e2edc1a1c84e64ed3d6e662fb699

### 1

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## 1.242 netlink

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### 3

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# 1.244 gojsonschema

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# 1.245 safe-buffer 5.1.2

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# 1.249 idna 2.7

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```
"""
```

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

```
"""
```

```
import io, sys
```

```
from setuptools import setup
```

```
def main():
```

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

```
 if python_version < (2,6):
```

```
 raise SystemExit("Sorry, Python 2.6 or newer required")
```

```
 package_data = { }
```

```
 exec(open('idna/package_data.py').read(), package_data)
```

```
 arguments = {
```

```
 'name': 'idna',
```

```
 'packages': ['idna'],
```

```
 'version': package_data['__version__'],
```

```
 'description': 'Internationalized Domain Names in Applications (IDNA)',
```

```
 'long_description': io.open("README.rst", encoding="UTF-8").read(),
```

```
 'author': 'Kim Davies',
```

```
 'author_email': 'kim@cynosure.com.au',
```

```
 'license': 'BSD-like',
```

```
 'url': 'https://github.com/kjd/idna',
```

```
 'classifiers': [
```

```
 'Development Status :: 5 - Production/Stable',
```

```
 'Intended Audience :: Developers',
```

```
 'Intended Audience :: System Administrators',
```

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

```
 'Operating System :: OS Independent',
```

```
 'Programming Language :: Python',
```

```
 'Programming Language :: Python :: 2.6',
```

```
 'Programming Language :: Python :: 2.7',
```

```
 'Programming Language :: Python :: 3',
```

```
 'Programming Language :: Python :: 3.3',
```



```

'Programming Language :: Python :: 3.4',
'Programming Language :: Python :: 3.5',
'Programming Language :: Python :: 3.6',
'Topic :: Internet :: Name Service (DNS)',
'Topic :: Software Development :: Libraries :: Python Modules',
'Topic :: Utilities',
],
'test_suite':
'tests',
}

```

```

setup(**arguments)

```

```

if __name__ == '__main__':
 main()

```

Found in path(s):

\* /opt/cola/permits/179835387\_1695331576.4826837/0/idna-2-7-tar-gz/idna-2.7/setup.py

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Metadata-Version: 1.1

Name: idna

Version: 2.7

Summary: Internationalized Domain Names in Applications (IDNA)

Home-page: <https://github.com/kjd/idna>

Author: Kim Davies

Author-email: [kim@cynosure.com.au](mailto:kim@cynosure.com.au)

License: BSD-like

Description: Internationalized Domain Names in Applications (IDNA)

=====

Support for the Internationalised Domain Names in Applications (IDNA) protocol as specified in `RFC 5891 <<http://tools.ietf.org/html/rfc5891>>`\_. This is the latest version of the protocol and is sometimes referred to as “IDNA 2008”.

This library also provides support for Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <<http://unicode.org/reports/tr46/>>`\_.

This acts as a suitable replacement for the “encodings.idna” module that comes with the Python standard library, but only supports the old, deprecated IDNA specification (`RFC 3490 <<http://tools.ietf.org/html/rfc3490>>`\_).

Basic functions are simply executed:

```

.. code-block:: pycon

```



```
Python 3
>>> import idna
>>> idna.encode('.')
b'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
.
```

```
Python 2
>>> import idna
>>> idna.encode(u'.')
'xn--eckwd4c7c.xn--zckzah'
>>> print idna.decode('xn--eckwd4c7c.xn--zckzah')
.
```

## Packages

-----

The latest tagged release version is published in the PyPI repository:

```
.. image:: https://badge.fury.io/py/idna.svg
:target: http://badge.fury.io/py/idna
```

## Installation

-----

To install this library,  
you can use pip:

```
.. code-block:: bash
```

```
$ pip install idna
```

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

```
.. code-block:: bash
```

```
$ python setup.py install
```

This library works with Python 2.6 or later, and Python 3.3 or later.

## Usage

-----

For typical usage, the ``encode`` and ``decode`` functions will take a domain name argument and perform a conversion to A-labels or U-labels respectively.



```
.. code-block:: pycon
```

```
Python 3
>>> import idna
>>> idna.encode('.')
b'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
.
```

You may use the codec encoding and decoding methods using the `idna.codec` module:

```
.. code-block:: pycon
```

```
Python 2
>>> import idna.codec
>>> print u'.'.encode('idna')
xn--80ahd1agd.xn--80akhbyknj4f
>>> print 'xn--80ahd1agd.xn--80akhbyknj4f'.decode('idna')
.
```

Conversions can be applied at a per-label basis using the `ulabel` or `alabel` functions if necessary:

```
.. code-block:: pycon
```

```
Python 2
>>> idna.alabel(u")
'xn--0zwm56d'
```

#### Compatibility Mapping (UTS #46)

+++++

As described in [RFC 5895](http://tools.ietf.org/html/rfc5895) [\[http://tools.ietf.org/html/rfc5895\]](http://tools.ietf.org/html/rfc5895), the IDNA specification no longer normalizes input from different potential ways a user may input a domain name. This functionality, known as a “mapping”, is now considered by the specification to be a local user-interface issue distinct from IDNA conversion functionality.

This library provides one such mapping, that was developed by the Unicode Consortium. Known as [Unicode IDNA Compatibility Processing](http://unicode.org/reports/tr46/) [\[http://unicode.org/reports/tr46/\]](http://unicode.org/reports/tr46/), it provides for both a regular mapping for typical applications, as well as a transitional mapping to help migrate from older IDNA 2003 applications.

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



.. code-block:: pycon

```
Python 3
>>> import idna
>>> idna.encode(u'Königsgäßchen')
...
idna.core.InvalidCodepoint: Codepoint U+004B at position 1 of 'Königsgäßchen' not allowed
>>> idna.encode('Königsgäßchen', uts46=True)
b'xn--knigsgchen-b4a3dun'
>>> print(idna.decode('xn--knigsgchen-b4a3dun'))
königsgäßchen
```

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

.. code-block:: pycon

```
Python 2
>>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
'xn--knigsgsschen-lcb0w'
```

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

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

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

Exceptions  
-----

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

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



an illegal character in an IDN label (i.e. INVALID); and `idna.InvalidCodepointContext` when the codepoint is illegal based on its positional context (i.e. it is CONTEXTO or CONTEXTJ but the contextual requirements are not satisfied.)

## Building and Diagnostics

-----

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

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

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

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

- \* `idna-data make-table`. Generate a table of the IDNA disposition (e.g. PVALID, CONTEXTJ, CONTEXTO) in the format found in Appendix B.1 of RFC 5892 and the pre-computed tables published by IANA <<http://iana.org/>>.

- \* `idna-data U+0061`. Prints debugging output on the various properties associated with an individual Unicode codepoint (in this case, U+0061), that are used to assess the IDNA and UTS 46 status of a codepoint. This is helpful in debugging or analysis.

The tool accepts a number of arguments, described using `idna-data -h`. Most notably, the `--version` argument allows the specification of the version of Unicode to use in computing the table data. For example, `idna-data --version 9.0.0 make-libdata` will generate library data against Unicode 9.0.0.

Note that this script requires Python 3, but all generated library data will work in Python 2.6+.

## Testing

-----

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



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

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

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: Intended Audience :: System Administrators

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming

Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Topic :: Internet :: Name Service (DNS)

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

Classifier: Topic :: Utilities

Found in path(s):

\* /opt/cola/permits/179835387\_1695331576.4826837/0/idna-2-7-tar-gz/idna-2.7/PKG-INFO

\* /opt/cola/permits/179835387\_1695331576.4826837/0/idna-2-7-tar-gz/idna-2.7/idna.egg-info/PKG-INFO

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## 1.250 packaging 17.1

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.. index::

single: License

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Version 3, 29 June 2007

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## 1.252 pytz 2018.5



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Romuald Brunet, 2013/03/29



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2014/11/10  
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## 1.270 hash-base 3.0.4

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## 1.271 minimalistic-assert 1.0.1

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## 1.272 parse-asn1 5.1.1

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## 1.274 public-encrypt 4.0.2

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# 1.281 libtasn 4.13

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## 1.283 ntlm-auth 1.2.0

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# 1.285 util-linux 2.31.1

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```

```
<signature of Ty Coon>, 1 April 1989
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7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT  
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24. [25]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or  
[28]<H.Lambermont@chello.nl> ntpsweep
27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
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
30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
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32. [35]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
33. [36]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
34. [37]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
36. [39]Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
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42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47]Rob Neal <neal@ntp.org>  
Bancomm refclock and config/parse code maintenance
44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50]Wilfredo Snchez <wsanchez@apple.com> added support for NetInfo



- 47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
  - 48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
  - 49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
  - 50. [54]Michael Shields <shields@tembel.org> USNO clock driver
  - 51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
  - 52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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  - 57. [61]Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
  - 58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
  - 59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD
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63. mailto:%20Ulrich.Windl@rz.uni-regensburg.de

/\* \*- Mode: Text \*- \*/

```
copyright = {
 date = "1992-2017";
 owner = "The University of Delaware and Network Time Foundation";
 eaddr = "http://bugs.ntp.org, bugs@ntp.org";
 type = ntp;
```



```

};

long-opts;
config-header = config.h;
environrc;
no-misuse-usage;
version-proc = ntpOptionPrintVersion;

version = `
eval VERSION=\`sed -e 's/.*,\\[/\' -e 's\\[.*/\' < ../sntp/m4/version.m4\`
[-z "${VERSION}"] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
echo $VERSION`;

version-value = "; /* Don't use -v as a shortcut for --version */

/*
* HMS: man pages already have this, and texi pages can use the
* values in sntp/include/version.texi .
*/
// doc-sub = {
// sub-name = version;
// sub-text = 's/#VERSION#/<<version>>/g';
// };
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<!-- #BeginDate format:En2m -->2-Jan-2017 11:58<!-- #EndDate -->

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rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.

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- <li><a href="mailto:%20Jean-Francois.Boudreault@viagenie.qc.ca">Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca></a> IPv6 support</li>
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- <li><a href="mailto:%20jagubox.gsfc.nasa.gov">Jim Jagielski <jim@jagubox.gsfc.nasa.gov></a> A/UX port</li>
- <li><a href="mailto:%20jbj@chatham.usdesign.com">Jeff Johnson <jbj@chatham.usdesign.com></a> massive prototyping overhaul</li>
- <li><a href="mailto:%20Hans.Lambermont@nl.origin-it.com">Hans Lambermont <Hans.Lambermont@nl.origin-it.com></a> or <a href="mailto:H.Lambermont@chello.nl"><H.Lambermont@chello.nl></a> ntpswEEP</li>
- <li><a href="mailto:%20phk@FreeBSD.ORG">Poul-Henning Kamp <phk@FreeBSD.ORG></a> Oncore driver (Original author)</li>
- <li><a href="http://www4.informatik.uni-erlangen.de/%7Ekardel">Frank Kardel</a> <a href="mailto:%20kardel%20%28at%29%20ntp%20%28dot%29%20org"><kardel (at) ntp (dot) org></a> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling</li>
- <li><a href="mailto:kuehn@ntp.org">Johannes Maximilian Kuehn <kuehn@ntp.org></a> Rewrote <tt>snpt</tt> to comply with NTPv4 specification, <tt>ntp saveconfig</tt></li>
- <li><a href="mailto:%20jones@hermes.chpc.utexas.edu">William L. Jones <jones@hermes.chpc.utexas.edu></a> RS/6000 AIX modifications, HP/UX modifications</li>
- <li><a href="mailto:%20dkatz@cisco.com">Dave Katz <dkatz@cisco.com></a> RS/6000 AIX port</li>
- <li><a href="mailto:%20leres@ee.lbl.gov">Craig Leres <leres@ee.lbl.gov></a> 4.4BSD port, ppsclock,



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 <li><a href="mailto:%20lindholm@ucs.ubc.ca">George  
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 <li><a href="mailto:%20louie@ni.umd.edu">Louis A. Mamakos <louie@ni.umd.edu></a> MD5-based  
 authentication</li>  
 <li><a href="mailto:%20thorinn@diku.dk">Lars H. Mathiesen <thorinn@diku.dk></a> adaptation of foundation  
 code for Version 3 as specified in RFC-1305</li>  
 <li><a href="mailto:%20mayer@ntp.org">Danny Mayer <mayer@ntp.org></a> Network I/O, Windows Port, Code  
 Maintenance</li>  
 <li><a href="mailto:%20mills@udel.edu">David L. Mills <mills@udel.edu></a> Version 4 foundation, precision  
 kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36</li>  
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 <moeller@gwdgv1.dnet.gwdg.de></a> VMS port</li>  
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 driver</li>  
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 <li><a href="mailto:%20loganaden@gmail.com">Loganaden Velvindron <loganaden@gmail.com></a>



Sandboxing (libseccomp) support</li>

<li><a href="mailto:%20vixie@vix.com">Paul A Vixie <vixie@vix.com></a> TrueTime GPS driver, generic TrueTime clock driver</li>

<li><a href="mailto:%20Ulrich.Windl@rz.uni-regensburg.de">Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de></a> corrected and validated HTML documents according to the HTML DTD</li>

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## 1.291 zlib 1.2.11

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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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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

\*/

## 1.292 pyasn1-modules 0.2.2



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.. \_history-and-license:

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History and License

\*\*\*\*\*

History of the software

=====

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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 <https://www.cnri.reston.va.us/>) in Reston, Virginia where he released several versions of the software.

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

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#### Mersenne Twister

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The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

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

Before using, initialize the state by using `init_genrand(seed)`  
or `init_by_array(init_key, key_length)`.

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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

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Sockets

-----

The `:mod:`socket``

module uses the functions, `:func:`getaddrinfo``, and

`:func:`getnameinfo``, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::

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Cookie management

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Modified by Jack Jansen, CWI, July 1995:

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

XML Remote Procedure Calls

-----

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test\_epoll

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Select kqueue

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SipHash24

-----

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Original location:

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

Solution inspired by code from:

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djb ([supercop/crypto\\_auth/siphash24/little2](https://github.com/supercop/crypto_auth/siphash24/little2))

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strtod and dtoa

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zlib

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|                  |                           |
|------------------|---------------------------|
| Jean-loup Gailly | Mark Adler                |
| jloop@gzip.org   | madler@alumni.caltech.edu |

cfuhash

-----



The  
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libmpdec

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

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

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| 0.9.0 thru 1.2 |           | 1991-1995       | CWI        | yes     |
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charset=UTF-8" /><title>33.12.Notice Processing</title><link rel="stylesheet" type="text/css" href="stylesheet.css"
```



```

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Stylesheets V1.79.1" /><link rel="prev" href="libpq-misc.html" title="33.11.Miscellaneous Functions" /><link
rel="next" href="libpq-events.html" title="33.13.Event System" /></head><body><div
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Functions">Prev</td><td width="10%"
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href="index.html" title="PostgreSQL 10.3 Documentation">Home</td><td width="10%" align="right"><a
accesskey="n" href="libpq-events.html" title="33.13.Event
System">Next</td></tr></table><hr/></div><div class="sect1" id="LIBPQ-NOTICE-
PROCESSING"><div class="titlepage"><div><div><h2 class="title" style="clear: both">33.12.Notice
Processing</h2></div></div></div><p> Notice and warning
messages generated by the server are not returned
by the query execution functions, since they do not imply failure of
the query. Instead they are passed to a notice handling function, and
execution continues normally after the handler returns. The default
notice
handling function prints the message on
<code class="filename">stderr</code>, but the application can override this
behavior by supplying its own handling function.
</p><p> For historical reasons, there are two levels of notice handling, called
the notice receiver and notice processor. The default behavior is for
the notice receiver to format the notice and pass a string to the notice
processor for printing. However, an application that chooses to provide
its own notice receiver will typically ignore the notice processor
layer and just do all the work in the notice receiver.
</p><p> The function <code class="function">PQsetNoticeReceiver</code>

 sets or
examines the current notice receiver for a connection object.
Similarly, <code class="function">PQsetNoticeProcessor</code>

<a id="id-1.7.3.19.5.6"
class="indexterm"> sets or
examines the current notice processor.

```

```

</p><pre class="synopsis">typedef void (*PQnoticeReceiver) (void *arg, const PGresult *res);

```

```

PQnoticeReceiver
PQsetNoticeReceiver(PGconn *conn,
 PQnoticeReceiver proc,
 void *arg);

```

```

typedef void (*PQnoticeProcessor) (void *arg, const char *message);

```



```
PQnoticeProcessor
PQsetNoticeProcessor(PGconn *conn,
 PQnoticeProcessor proc,
 void *arg);
```

Each of these functions returns the previous notice receiver or processor function pointer, and sets the new value. If you supply a null function pointer, no action is taken, but the current pointer is returned.

When a notice or warning message is received from the server, or generated internally by `libpq`, the notice receiver function is called. It is passed the message in the form of a `PGRES_NONFATAL_ERROR` `PGresult`. (This allows the receiver to extract individual fields using `PQresultErrorField`, or obtain a complete preformatted message using `PQresultErrorMessage` or `PQresultVerboseErrorMessage`.) The same void pointer passed to `PQsetNoticeReceiver` is also passed. (This pointer can be used to access application-specific state if needed.)

The default notice receiver simply extracts the message (using `PQresultErrorMessage`) and passes it to the notice processor.

The notice processor is responsible for handling a notice or warning message given in text form. It is passed the string text of the message (including a trailing newline), plus a void pointer that is the same one passed to `PQsetNoticeProcessor`. (This pointer can be used to access application-specific state if needed.)

The default notice processor is simply:

```
static void
defaultNoticeProcessor(void *arg, const char *message)
{
 fprintf(stderr, "%s", message);
}
```

Once you have set a notice receiver or processor, you should expect that that function could be called as long as either the

`PGconn` object or `PGresult` objects made from it exist. At creation of a `PGresult`, the `PGconn`'s current notice handling pointers are copied into the `PGresult` for possible use by functions like `PQgetvalue`.

---

|                                               |                             |                                      |
|-----------------------------------------------|-----------------------------|--------------------------------------|
| <a href="libpq-misc.html">Prev</a>            | <a href="libpq.html">Up</a> | <a href="libpq-events.html">Next</a> |
| <a href="#">33.11.Miscellaneous Functions</a> | <a href="#">33.13.Event</a> |                                      |



```

System</td></tr></table></div></body></html>
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## 1.325 browserify-des 1.0.2

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### 3

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it
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## 1.327 punycode 2.1.1

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## 1.328 urllib3 1.24.1

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# Contributions to the urllib3 project

## Creator & Maintainer

\* Andrey Petrov <[andrey.petrov@shazow.net](mailto:andrey.petrov@shazow.net)>



## ## Contributors

In chronological order:

- \* victor.vde <<http://code.google.com/u/victor.vde/>>
  - \* HTTPS patch (which inspired HTTPSConnectionPool)
- \* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>
  - \* NTLM-authenticated HTTPSConnectionPool
  - \* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)
- \* niphlod <niphlod@gmail.com>
  - \* Client-verified SSL certificates for HTTPSConnectionPool
  - \* Response gzip and deflate encoding support
  - \* Better unicode support for filepost using StringIO buffers
- \* btoconnor <brian@btoconnor.net>
  - \* Non-multipart encoding for POST requests
- \* p.dobrogost <<http://code.google.com/u/@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  
<asmeurer@gmail.com>
- \* 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](mailto:ddriddle@illinois.edu)>
- \* IPv6 bugfixes in testsuite
  
- \* Thea Flowers <[magicalgirl@google.com](mailto: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](mailto: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](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>
- \* 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
- \* [Your name or handle] <[email or website]>
- \* [Brief summary of your changes]

## 1.329 plotly-js-basic-dist 1.44.1

### 1.329.1 Available under license :

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## 1.330 flatpickr 4.5.2

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## 1.331 channels-redis 2.3.3



# 1.332 django 2.1.4

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=====

Advice for new contributors

=====

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

.. admonition:: Basic tools and workflow

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

First steps

=====



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

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

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

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

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

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

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

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

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

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

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

.. note::

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



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

.. \_CLA: <https://www.djangoproject.com/foundation/cla/>

.. \_Contributor License Agreement FAQ: <https://www.djangoproject.com/foundation/cla/faq/>

.. \_unreviewed ticket: <https://code.djangoproject.com/query?status=!closed&stage=Unreviewed>

## Guidelines

=====

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

### \* \*\*Pick a subject

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

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

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

Trac isn't an absolute; the context is just as important as the words.

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

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

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

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

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

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

Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the



project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can't do it without **\*\*you\*\***!

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

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

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

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

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

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

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

.. \_new-contributors-faq:

## FAQ

===

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

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

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

Short answer: No. It's always better to get another set of eyes on a



ticket. If you're having trouble getting that second set of eyes, see question 1, above.

## A. HISTORY OF THE SOFTWARE

=====

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

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

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

Footnotes:



(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

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

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

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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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# 1.334 cryptography 2.6.1

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## 1.335 jquery 3.4.1

## 1.336 lvm2 2.02.173



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scriptversion=2012-03-01.08; # UTC

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

The following list of people, sorted by last name, have contributed  
code or patches to this implementation of sudo since I began  
maintaining it in 1993. This list is known to be incomplete--if  
you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt  
Adler, Mark  
Allbery, Russ  
Anderson, Jamie  
Andrew, Nick  
Andric, Dimitry  
Barron, Danny  
Bates, Tom  
Behan, Zdenk  
Bellis, Ray  
Benali, Elias  
Beverly, Jamie  
Boardman, Spider  
Bostley, P.J.  
Bowes, Keith  
Boyce, Keith Garry  
Brantley, Michael  
Braun, Rob  
Bezina, Pavel  
Brooks, Piete  
Brown, Jerry  
Burr, Michael E  
Burton, Ross  
Bussjaeger, Andreas



Calvin, Gary  
Campbell, Aaron  
Chazelas, Stephane  
ek, 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  
Pele Jorge, Joel  
Juhani, Timo  
KIKUCHI, Ayamura  
Kadow, Kevin  
Kasal, Stepan  
Kienenberger, Mike  
King, Dale  
King, Michael  
Klyachkin, Andrey



Knoble, Jim  
Knox, Tim  
Komarnitsky, Alek O.  
Kondrashov, Nikolai  
Kopeek, Daniel  
Kranenburg, Paul  
Krause, David  
Lakin, Eric  
Larsen, Case  
Levin, Dmitry V.  
Libby, Kendall  
Lobbess, Phillip E.  
McIntyre, Jason  
MacKenzie, David J.  
McLaughlin, Tom  
Makey, Jeff  
Marchionna, Michael D.  
Markham, Paul  
Martinian,  
Emin  
Meskes, Michael  
Michael, David  
Miller, Todd C.  
Minier, Loc  
Moffat, Darren  
Moldung, Jan Thomas  
Morris, Charles  
Mueller, Andreas  
Mller, Dworkin  
Nieusma, Jeff  
Nikitser, Peter A.  
Nussel, Ludwig  
Ouellet, Jean-Philippe  
Paquet, Eric  
Paradis, Chantal  
Percival, Ted  
Perera, Andres  
Peron, Christian S.J.  
Peschel, Aaron  
Peslyak, Alexander  
Peterson, Toby  
Petten, Diego Elio  
Pickett, Joel  
Plotnick, Alex  
de Raadt, Theo  
Rasch, Gudleik  
Reid, Steve  
Richards, Matt



Rossum, Guido van  
Rouillard, John P.  
Rowe, William A., Jr.  
Roy, Alain  
Ruusame, Elan  
Ryabinkin, Eygene  
SATO, Yuichi  
Snchez, Wilfredo  
Saucier, Jean-Francois  
Schoenfeld, Patrick  
Schuring, Arno  
Schwarze, Ingo  
Scott, Dougal  
Sieger, Nick  
Simon, Thor Lancelot  
Slemko, Marc  
Smith, Andy  
Sobrado, Igor  
Soulen, Steven  
Spangler, Aaron  
Spradling, Cloyce D.  
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:

Blttermann, Mario  
Bogusz, Jakub  
Casagrande, Milo  
Castro, Felipe  
Cho, Seong-ho  
Chornoivan, Yuri  
Diguez, Francisco  
Ferreira, Rafael  
Garca-Fontes, Walter  
Gezer, Volkan  
Hamasaki, Takeshi  
Hamming, Peter  
Hansen, Joe  
Hantrais, Frdric  
Hein, Jochen  
Hufthammer, Karl Ove  
Jerovek, Damir  
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Kazik, Duan  
Kelemen,

Gbor

Koir, Klemen  
Kozlov, Yuri  
Kramer, Jakob  
Krznar, Tomislav  
Marchal, Frdric  
Margeviius, Algimantas  
Maryanov, Pavel  
Nikoli, Miroslav  
Nylander, Daniel  
Psa, Petr  
Qun, Trn Ngc  
Regueiro, Leandro  
Sarar, zgr  
Sendn, Abel  
Sikrom, ka  
Spingos, Dimitris  
Taniguchi, Yasuaki  
Tomat, Fbio  
Uranga, Mikel Olasagasti  
Vorotnikov, Artem  
Wang, Wylmer



# 1.346 pcre 8.41

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### THE BASIC LIBRARY FUNCTIONS

-----

Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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Cambridge, England.

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## 1.347 gmp 6.1.2

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with the Library, with the complete machine-readable ``work that  
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executable containing the modified Library. (It is understood  
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and (2) will operate  
properly with a modified version of the library, if the user installs  
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@subheading END OF TERMS AND CONDITIONS

@page

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Ty Coon, President of Vice  
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This is free software, and you are welcome to redistribute
it
under certain conditions; type `show c' for details.
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```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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```
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```

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```
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```

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Mathematisch Centrum (CWI, see <https://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 <https://www.cnri.reston.va.us/>) in Reston,  
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In May 2000, Guido and the Python core development team moved to BeOpen.com to



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#### Mersenne Twister

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

Before using, initialize the state by using `init_genrand(seed)`  
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Sockets

-----

The `:mod:`socket``

module uses the functions, `:func:`getaddrinfo``, and

`:func:`getnameinfo``, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::

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Asynchronous socket services  
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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

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

XML Remote Procedure Calls

-----

The :mod:`xmlrpc.client` module contains the following notice::

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Select kqueue

-----

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SipHash24

-----

The file `:file:`Python/pyhash.c`` contains Marek Majkowski's implementation of Dan Bernstein's SipHash24 algorithm. It contains the following note::

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Original location:

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

Solution inspired by code from:

Samuel Neves (supercop/crypto\_auth/siphhash24/little)

djb (supercop/crypto\_auth/siphhash24/little2)

Jean-Philippe Aumasson

(<https://131002.net/siphhash/siphhash24.c>)

strtod and dtoa

-----

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expat

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libffi

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zlib  
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The

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|                  |                           |
|------------------|---------------------------|
| Jean-loup Gailly | Mark Adler                |
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cfuhash



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

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

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

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## 1.363 nginx 1.15.0

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## 1.370 ncurses 6.1-20191019



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## 1.380 bn.js 4.11.8

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# 1.384 asn1.js 4.10.1

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## 1.387 Idap-filters 2.2.2

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

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

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

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

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.



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Gocheck - A rich testing framework for Go

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jclouds docker API

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## 1.395 libglib 2.54.2

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# 1.398 pyasn 0.1.9

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* /opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/type/test_char.py
* /opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/codec/ber/decoder.py
* /opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/codec/native/__main__.py
* /opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/type/constraint.py
* /opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/type/test_namedtype.py
* /opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/debug.py
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/opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/compat/test_binary.py
* /opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/type/test_namedval.py
* /opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/type/error.py
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* /opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/codec/cer/encoder.py
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* /opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/type/test_univ.py
* /opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/codec/der/test_encoder.py
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* /opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/pyasn1/type/base.py
```



```

* /opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
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* /opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
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* /opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/tests/base.py
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0.4.4/tests/codec/ber/test_decoder.py
* /opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
0.4.4/pyasn1/codec/ber/eoo.py
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/opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
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* /opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
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0.4.4/pyasn1/type/useful.py
* /opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
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0.4.4/tests/codec/der/___main___py

```



```

* /opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
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* /opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
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* /opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
0.4.4/tests/test_debug.py
* /opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
0.4.4/tests/compat/__main__.py

```

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.. \_license:

License

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.. include:: ../../LICENSE.rst

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* /opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-
0.4.4/docs/source/license.rst

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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).

## 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/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/README.md
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ASN.1 library for Python

=====

.. toctree::

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Abstract Syntax Notation One (ASN.1

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

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

What is ASN.1

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

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and became 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::
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```

/example-use-case

Download & Install

```
.. toctree::
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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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```

/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/1063244945_1592966586.95/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/docs/source/contents.rst

1.405 djangoestframework 3.8.2

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1.408 pycparser 2.17

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Constant-time SSSE3 AES core implementation.

version 0.1

##

By Mike Hamburg (Stanford University), 2009

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```
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## Constant-time SSSE3 AES core implementation.  
## version 0.1  
##  
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1.427 postcss-modules-scope 1.1.0

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1.428 color-convert 1.9.1

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1.430 supports-color 5.3.0

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1.431 schema-utils 0.4.7

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1.432 gojsonpointer

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1.435 icss-utils 2.1.0

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1.436 fsevents 1.1.3

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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

1.438 ajv-keywords 3.4.0

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

1.451 pendulum 2.0.4

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1.453 isobject 2.1.0

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1.454 json5 1.0.1

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1.455 source-list-map 2.0.1

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1.456 big.js 5.2.2

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1.457 icss-replace-symbols 1.1.0

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1.458 emojis-list 2.1.0

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1.459 Iodash 4.17.11

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1.460 cssesc 0.1.0

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1.461 mpdecimal 2.4.1-1

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1.462 loader-utils 1.2.3

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1.463 uri-js 4.2.2

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


[illegible]

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```
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<Components> extends URISchemeHandler {
  components: Components;
  options: Options;
  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, 3);
      i += 3;
    }
  }
  return newStr;
}

function _normalizeComponentEncoding(components: URISchemeHandler, protocol: URIRegExps) {
  function
```



```

decodeUnreserved(str:string):string { \n\tconst decStr = pctDecChars(str);\n\treturn
(!decStr.match(protocol.UNRESERVED) ? str : decStr);\n\t}\n\ttif (components.scheme) components.scheme =
String(components.scheme).replace(protocol.PCT_ENCODED,
decodeUnreserved).toLowerCase().replace(protocol.NOT_SCHEME, "\\");\n\ttif (components.userinfo !==
undefined) components.userinfo = String(components.userinfo).replace(protocol.PCT_ENCODED,
decodeUnreserved).replace(protocol.NOT_USERINFO, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\ttif (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\ttif (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\ttif (components.query !== undefined) components.query =
String(components.query).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_QUERY,
pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);\n\ttif (components.fragment !== undefined)
components.fragment = String(components.fragment).replace(protocol.PCT_ENCODED,
decodeUnreserved).replace(protocol.NOT_FRAGMENT, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\t\n\treturn components;\n\t};\n\t\n\tfunction _stripLeadingZeros(str:string):string { \n\treturn
str.replace(/^0*(.*)/, "$1") || "0";\n\t}\n\t\n\tfunction _normalizeIPv4(host:string, protocol:URIRegExps):string
{ \n\tconst matches = host.match(protocol.IPV4ADDRESS) || [];\n\tconst [, address] = matches;\n\t\n\ttif (address)
{ \n\t\treturn address.split(".").map(_stripLeadingZeros).join(".");\n\t} else { \n\t\treturn host;\n\t}\n\t}\n\t\n\tfunction
_normalizeIPv6(host:string, protocol:URIRegExps):string { \n\tconst matches =
host.match(protocol.IPV6ADDRESS)
|| [];\n\tconst [, address, zone] = matches;\n\t\n\ttif (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\t\n\t\tfor
(let x = 0; x < fieldCount; ++x) { \n\t\t\tfields[x] = firstFields[x] || lastFields[lastFieldsStart + x] || ""; \n\t\t}\n\t\t\n\t\ttif
(isLastFieldIPv4Address) { \n\t\t\tfields[fieldCount - 1] = _normalizeIPv4(fields[fieldCount - 1],
protocol);\n\t\t}\n\t\t\n\t\tconst allZeroFields = fields.reduce<Array<{ index:number,length:number}>>((acc, field,
index) => { \n\t\t\ttif (!field || field === "0") { \n\t\t\t\tconst lastLongest = acc[acc.length
- 1];\n\t\t\t\ttif (lastLongest && lastLongest.index + lastLongest.length === index)
{ \n\t\t\t\t\tlastLongest.length++; \n\t\t\t\t} else { \n\t\t\t\t\tacc.push({ index, length : 1 }); \n\t\t\t\t}\n\t\t\t}\n\t\t\t\n\t\t\tconst longestZeroFields = allZeroFields.sort((a, b) => b.length - a.length)[0];\n\t\t\tlet
newHost:string;\n\t\t\ttif (longestZeroFields && longestZeroFields.length > 1) { \n\t\t\t\tconst newFirst = fields.slice(0,
longestZeroFields.index) ;\n\t\t\t\tconst newLast = fields.slice(longestZeroFields.index +
longestZeroFields.length);\n\t\t\t\tnewHost = newFirst.join(":") + "::" + newLast.join(":"); \n\t\t\t} else
{ \n\t\t\t\tnewHost = fields.join(":"); \n\t\t\t}\n\t\t\t\n\t\t\ttif (zone) { \n\t\t\t\tnewHost += "%" + zone; \n\t\t\t}\n\t\t\t\n\t\t\treturn
newHost;\n\t\t} else { \n\t\t\treturn host;\n\t\t}\n\t}\n\t\n\tconst URI_PARSE =
/^((?:(?:[\^:\\/#\+]?)|(?::(?:[\^\/?#@]*))@)?(?:[[^\v?#\\]]+|\\[^\v?#:]*)?(?:\\.(\d*)?)?)([^\?#]*(?:\[([^\]]*)\])?)?(?:#(?:\\(?:[^\r]*)?)?/i;\n\tconst NO_MATCH_IS_UNDEFINED
= (<RegExpMatchArray>("\\").match(/{})/))[1] === undefined;\n\t\n\texport function parse(uriString:string,
options:URIOptions = {}):URIComponents { \n\tconst components:URIComponents = { }; \n\tconst protocol =
(options.iri !== false ? IRI_PROTOCOL : URI_PROTOCOL);\n\t\n\ttif (options.reference === "suffix") uriString =
(options.scheme ? options.scheme + ":" : "") + "/" + uriString;\n\t\n\tconst matches =
uriString.match(URI_PARSE);\n\t\n\ttif (matches) { \n\t\ttif (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

```


[illegible]

[illegible]


```
base.scheme;\n\t}\n\n\t\ttarget.fragment = relative.fragment;\n\n\t\treturn target;\n};\n\n\nexport function  
resolve(baseURI:string, relativeURI:string, options?:URIOptions):string {\n\tconst schemelessOptions = assign({  
scheme : 'null' }, options);\n\n\treturn serialize(resolveComponents(parse(baseURI, schemelessOptions),  
parse(relativeURI, schemelessOptions), schemelessOptions, true), schemelessOptions);\n};\n\n\nexport function  
normalize(uri:string, options?:URIOptions):string;\nexport function normalize(uri:URISchemelessOptions,  
options?:URIOptions):URISchemelessOptions;\nexport function normalize(uri:any, options?:URIOptions):any {\n\tif  
(typeof uri === \"string\") {\n\t\turi = serialize(parse(uri, options), options);\n\t} else if (typeof(uri) === \"object\")  
{\n\t\turi = parse(serialize(<URISchemelessOptions>uri, options), options);\n\t}\n\n\treturn uri;\n};\n\n\nexport function  
equal(uriA:string, uriB:string, options?: URIOptions):boolean;\nexport function equal(uriA:URISchemelessOptions,  
uriB:URISchemelessOptions, options?:URIOptions):boolean;\nexport function equal(uriA:any, uriB:any,  
options?:URIOptions):boolean {\n\tif (typeof uriA === \"string\") {\n\t\turiA = serialize(parse(uriA, options),  
options);\n\t} else if (typeof(uriA) === \"object\") {\n\t\turiA = serialize(<URISchemelessOptions>uriA,  
options);\n\t}\n\n\tif (typeof uriB === \"string\") {\n\t\turiB = serialize(parse(uriB, options), options);\n\t} else if  
(typeof(uriB) === \"object\") {\n\t\turiB = serialize(<URISchemelessOptions>uriB, options);\n\t}\n\n\treturn uriA ===  
uriB;\n};\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\n\nexport function unescapeComponent(str:string,  
options?:URIOptions):string {\n\treturn str && str.toString().replace((!options || !options.iri ?  
URI_PROTOCOL.PCT_ENCODED : IRI_PROTOCOL.PCT_ENCODED), pctDecChars);\n};\n\n\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 = /[^\x00-\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/* A generic error utility function.\n * @private\n *\n * @param {String} type The error type.\n * @returns {Error} Throws a `RangeError` with the applicable error  
message.\n */\nfunction error(type) {\n\tthrow new RangeError(errors[type]);\n}\n\n/* A generic `Array#map`  
utility function.\n * @private\n *\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)  
\t\tresult[length] = fn(array[length]);\n\n\treturn result;\n}\n\n/* A simple `Array#map`-like wrapper to  
work with domain name strings or email\n * addresses.\n * @private\n *\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)  
\t\t// In email addresses, only the domain name should be punycoded. Leave\n\t\t// the local part (i.e. everything  
up to `@`) intact.\n\t\tresult = parts[0] + '@';\n\t\tstring = parts[1];\n\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\n\treturn result + encoded;\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 *\n * @param {String} string The Unicode input string (UCS-2).\n * @returns {Array} The new array of code points.\n */
```



```

*function ucs2decode(string) {
  const output = [];
  let counter = 0;
  const length = string.length;
  while (counter < length) {
    const value = string.charCodeAt(counter++);
    if (value >= 0xD800 && value <= 0xDBFF && counter < length) {
      // It's a high surrogate, and there is a next character.
      const extra = string.charCodeAt(counter++);
      if ((extra & 0xFC00) == 0xDC00) { // Low surrogate.
        output.push(((value & 0x3FF) << 10) + (extra & 0x3FF) + 0x10000);
      } else {
        // It's an unmatched surrogate; only append this code unit, in case the next code unit is the high surrogate of a surrogate pair.
        output.push(value);
        counter--;
      }
    } else {
      output.push(value);
    }
  }
  return output;
}

// Creates a string based on an array of numeric code points.
@see `punycode.ucs2.decode`
@memberOf punycode.ucs2
@name encode
@param {Array} codePoints The array of numeric code points.
@returns {String} The new Unicode string (UCS-2).
const ucs2encode = array => String.fromCodePoint(...array);

// Converts a basic code point into a digit/integer.
@see `digitToBasic()`
@private
@param {Number} codePoint The basic numeric code point value.
@returns {Number} The numeric value of a basic code point (for use in representing integers) in the range `0` to `base - 1`, or `base` if the code point does not represent a value.
const basicToDigit = function(codePoint) {
  if (codePoint - 0x30 < 0x0A) {
    return codePoint - 0x16;
  }
  if (codePoint - 0x41 < 0x1A) {
    return codePoint - 0x41;
  }
  if (codePoint - 0x61 < 0x1A) {
    return codePoint - 0x61;
  }
  return base;
};

// Converts a digit/integer into a basic code point.
@see `basicToDigit()`
@private
@param {Number} digit The numeric value of a basic code point.
@returns {Number} The basic code point whose value (when used for representing integers) is `digit`, which needs to be in the range `0` to `base - 1`. If `flag` is non-zero, the uppercase form is used; else, the lowercase form is used. The behavior is undefined if `flag` is non-zero and `digit` has no uppercase form.
const digitToBasic = function(digit, flag) {
  // 0..25 map to ASCII a..z or A..Z
  // 26..35 map to ASCII 0..9
  return digit + 22 + 75 * (digit < 26) - ((flag != 0) << 5);
};

// Bias adaptation function as per section 3.4 of RFC 3492.
https://tools.ietf.org/html/rfc3492#section-3.4
@private
const adapt = function(delta, numPoints, firstTime) {
  let k = 0;
  let delta = firstTime ? floor(delta / damp) : delta >> 1;
  delta += floor(delta / numPoints);
  for (/* no initialization */; delta > baseMinusTMin * tMax >> 1; k += base) {
    delta = floor(delta / baseMinusTMin);
  }
  return floor(k + (baseMinusTMin + 1) * delta / (delta + skew));
};

// Converts a Punycode string of ASCII-only symbols to a string of Unicode symbols.
@memberOf punycode
@param {String} input The Punycode string of ASCII-only symbols.
@returns {String} The resulting string of Unicode symbols.
const decode = function(input) {
  // Don't use UCS-2.
  const output = [];
  const inputLength = input.length;
  let i = 0;
  let n = initialN;
  let bias = initialBias;
  // Handle the basic code points: let `basic` be the number of input code points before the last delimiter, or `0` if there is none, then copy the first basic code points to the output.
  let basic = input.lastIndexOf(delimiter);
  if (basic < 0) {
    basic = 0;
  }
  for (let j = 0; j < basic; ++j) {
    // if it's not a basic code point
    if (input.charCodeAt(j) >= 0x80) {
      throw new Error('not-basic');
    }
    output.push(input.charCodeAt(j));
  }
  // Main decoding loop: start just after the last delimiter if any basic code points were copied; start at the beginning otherwise.
  for (let index = basic > 0 ? basic + 1 : 0; index < inputLength; /* no final expression */) {
    // `index` is the index of the next character to be consumed.
    // Decode a generalized variable-length integer into `delta`, which gets added to `i`. The overflow checking is easier if we increase `i` as we go, then subtract off its starting value at the end to obtain `delta`.
    let oldi = i;
    for (let w = 1, k = base; /* no condition */; k += base) {
      if (index >= inputLength) {
        throw new Error('invalid-input');
      }
      const digit = basicToDigit(input.charCodeAt(index++));
      if (digit >= base || digit > floor((maxInt - i) / w)) {
        throw new Error('overflow');
      }
      i += digit * w;
      const t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);
      if (digit < t) {
        break;
      }
      const baseMinusT = base - t;
      if (w > floor(maxInt / baseMinusT)) {
        throw new Error('overflow');
      }
      i += baseMinusT * w;
    }
    const out = output.length + 1;
    bias = adapt(i - oldi, out, oldi == 0);
    // `i` was supposed to wrap around from `out` to `0`, incrementing `n` each time, so we'll fix that now:
    if (floor(i /

```


[illegible]


```

{ from \".uri\";nimport { buildExps } from \".regexps-uri\";\n\nexport default buildExps(true);\n\", \"import {
URIRegExps } from \".uri\";\n\nimport { merge, subexp } from \".util\";\n\nexport function
buildExps(isIRI:boolean):URIRegExps { \n\tconst \n\t\tALPHA$$ = \"[A-Za-z]\", \n\t\tCR$ =
\"[\\x0D]\", \n\t\tDIGIT$$ = \"[0-9]\", \n\t\tDQUOTE$$
= \"[\\x22]\", \n\t\tHEXDIG$$ = merge(DIGIT$, \"[A-Fa-f]\"), //case-insensitive\n\t\tLF$$ =
\"[\\x0A]\", \n\t\tSP$$ = \"[\\x20]\", \n\t\tPCT_ENCODED$ = subexp(subexp(\"%[EFef]\" +
HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$) + \"%\" + subexp(
\"%[89A-Fa-f]\" + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$) + \"%\" + subexp(
\"%\" + HEXDIG$$ + HEXDIG$$)),
//expanded\n\t\tGEN_DELIMS$ = \"[\\:\\/\\?\\#\\[\\]\\@\\]\", \n\t\tSUB_DELIMS$ =
\"[\\!\\\"\\$\\%\\&\\'\\(\\)\\*\\+\\,\\.\\/\\:|=]\", \n\t\tRESERVED$ = merge(GEN_DELIMS$,
SUB_DELIMS$), \n\t\tUCSCHAR$ = isIRI ? \"[\\xA0-\\u200D\\u2010-\\u2029\\u202F-
\\uD7FF\\uF900-\\uFDCF\\uFDF0-\\uFFEF]\" : \"[]\", //subset, excludes bidi control
characters\n\t\tPRIVATE$ = isIRI ? \"[\\uE000-\\uF8FF]\" : \"[]\", //subset\n\t\tUNRESERVED$ =
merge(ALPHA$, DIGIT$, \"[\\-\\.\\_\\~]\", UCSCHAR$), \n\t\tSCHEME$ = subexp(ALPHA$ +
merge(ALPHA$, DIGIT$, \"[\\+\\-\\.\\_\\.]\"))
+ \"%\"), \n\t\tUSERINFO$ = subexp(subexp(PCT_ENCODED$ + \"%\" + merge(UNRESERVED$,
SUB_DELIMS$, \"[\\:\\/\\:]\")) + \"%\"), \n\t\tDEC_OCTET$ = subexp(subexp(\"25[0-5]\" + \"%\" +
subexp(\"2[0-4]\" + DIGIT$) + \"%\" + subexp(\"1\" + DIGIT$ + DIGIT$) + \"%\" + subexp(
\"[1-9]\" + DIGIT$) + \"%\" + DIGIT$), \n\t\tDEC_OCTET_RELAXED$ = subexp(subexp(
\"25[0-5]\" + \"%\" + subexp(\"2[0-4]\" + DIGIT$) + \"%\" + subexp(
\"1\" + DIGIT$ + DIGIT$) + \"%\" + subexp(
\"0?[1-9]\" + DIGIT$) + \"%0?0?\" + DIGIT$),
//relaxed parsing rules\n\t\tIPV4ADDRESS$ = subexp(DEC_OCTET_RELAXED$ + \"\\\\.\\\\\" +
DEC_OCTET_RELAXED$ + \"\\\\.\\\\\" + DEC_OCTET_RELAXED$ + \"\\\\.\\\\\" +
DEC_OCTET_RELAXED$), \n\t\tH16$ = subexp(HEXDIG$ + \"%{1,4}\"), \n\t\tLS32$ = subexp(
subexp(H16$ + \"\\\\.\\\\\" + H16$) + \"%\" + IPV4ADDRESS$), \n\t\tIPV6ADDRESS1$ = subexp(
subexp(H16$ + \"\\\\.\\\\\" + \"%{6}\" + LS32$), // 6( h16 \":\" ) ls32\n\t\tIPV6ADDRESS2$
= subexp(
\"\\\\.\\\\.\\\\.\\\\.\\\\\" + subexp(H16$ + \"\\\\.\\\\.\\\\.\\\\.\" + \"%{5}\" + LS32$), //
\":\" 5( h16 \":\" ) ls32\n\t\tIPV6ADDRESS3$ = subexp(
subexp(H16$ + \"\\\\.\\\\.\\\\.\\\\.\" + \"%{4}\" + LS32$), // h16 \":\" 4( h16 \":\" ) ls32\n\t\tIPV6ADDRESS4$ =
subexp(
subexp(subexp(subexp(H16$ + \"\\\\.\\\\.\\\\.\" + \"%{0,1}\" + H16$) + \"%?\\\\.\\\\.\\\\.\\\\.\" +
subexp(H16$ + \"\\\\.\\\\.\\\\.\" + \"%{3}\" + LS32$), // *1( h16 \":\" ) h16 \":\" 3( h16 \":\" ) ls32\n\t\tIPV6ADDRESS5$ = subexp(
subexp(subexp(subexp(H16$ + \"\\\\.\\\\.\\\\.\" + \"%{0,2}\" + H16$) + \"%?\\\\.\\\\.\\\\.\\\\.\" +
subexp(H16$ + \"\\\\.\\\\.\" + \"%{2}\" + LS32$), // *2( h16 \":\" ) h16 \":\" 2( h16 \":\" ) ls32\n\t\tIPV6ADDRESS6$ = subexp(
subexp(subexp(subexp(H16$ + \"\\\\.\\\\.\\\\.\" + \"%{0,3}\" + H16$) + \"%?\\\\.\\\\.\\\\.\\\\.\" +
H16$ + \"\\\\.\\\\.\" + LS32$), // *3( h16 \":\" ) h16 \":\" h16 \":\"
ls32\n\t\tIPV6ADDRESS7$ = subexp(
subexp(subexp(subexp(H16$ + \"\\\\.\\\\.\\\\.\" + \"%{0,4}\" + H16$) + \"%?\\\\.\\\\.\\\\.\\\\.\" +
LS32$), // *4( h16 \":\" ) h16 \":\" h16 \":\"
ls32\n\t\tIPV6ADDRESS8$ = subexp(
subexp(subexp(subexp(H16$ + \"\\\\.\\\\.\\\\.\" + \"%{0,5}\" + H16$) + \"%?\\\\.\\\\.\\\\.\\\\.\" +
H16$ ), // *5( h16 \":\" ) h16 \":\" h16\n\t\tIPV6ADDRESS9$ = subexp(
subexp(subexp(subexp(H16$ + \"\\\\.\\\\.\\\\.\" + \"%{0,6}\" + H16$) + \"%?\\\\.\\\\.\\\\.\\\\.\" +
), // *6( h16 \":\" ) h16 \":\"
\":\":\n\t\tIPV6ADDRESS$ = subexp([IPV6ADDRESS1$, IPV6ADDRESS2$, IPV6ADDRESS3$,
IPV6ADDRESS4$, IPV6ADDRESS5$, IPV6ADDRESS6$, IPV6ADDRESS7$, IPV6ADDRESS8$,
IPV6ADDRESS9$].join(\"|\")), \n\t\tZONEID$ = subexp(subexp(UNRESERVED$ + \"%\" + PCT_ENCODED$) +
\"+\"), //RFC 6874\n\t\tIPV6ADDRZ$ = subexp(IPV6ADDRESS$ + \"\\\\\\\\\\\\\\\\%25\" + ZONEID$), //RFC
6874\n\t\tIPV6ADDRZ_RELAXED$ = subexp(IPV6ADDRESS$ + subexp(
\"\\\\\\\\\\\\\\\\%25\\\\\\\\\\\\\\\\%(?!\" + HEXDIG$ + \"%{2})\")) + ZONEID$), //RFC 6874, with relaxed
parsing rules\n\t\tIPV6FUTURE$ = subexp(
\"[vV]\" + HEXDIG$ + \"%\" + \"\\\\.\\\\.\" + merge(UNRESERVED$, SUB_DELIMS$,
\"[\\:\\/\\:]\")) + \"%\"), \n\t\tIP_LITERAL$ = subexp(
\"[\\:\\/\\:]\" + subexp(IPV6ADDRZ_RELAXED$ + \"%\" + IPV6ADDRESS$ + \"%\" + IPV6FUTURE$) +
\"\\\\\\\\\\\\\\\\\"), //RFC 6874\n\t\tREG_NAME$ = subexp(
subexp(subexp(PCT_ENCODED$ + \"%\" + merge(UNRESERVED$, SUB_DELIMS$)) + \"%\"), \n\t\tHOST$ =

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subexp(IP_LITERAL$ + \"|\" + IPV4ADDRESS$ + \"(?:\" + REG_NAME$ + \")\" + \"|\" +
REG_NAME$),\n\t\tPORT$ = subexp(DIGIT$$ + \"*\") ,\n\t\tAUTHORITY$ = subexp(subexp(USERINFO$ +
\"@\") + \"?\" + HOST$ + subexp(\"\\\\:|\" + PORT$) + \"?\") ,\n\t\tPCHAR$ = subexp(PCT_ENCODED$ + \"|\" +
merge(UNRESERVED$$, SUB_DELIMSS$, \"[\\\\:|\\\\@]\")) ,\n\t\tSEGMENT$ = subexp(PCHAR$ +
\"*\") ,\n\t\tSEGMENT_NZ$ = subexp(PCHAR$ + \"+\") ,\n\t\tSEGMENT_NZ_NC$ =
subexp(subexp(PCT_ENCODED$ + \"|\" + merge(UNRESERVED$$, SUB_DELIMSS$, \"[\\\\:|\\\\@]\")) +
\"+\") ,\n\t\tPATH_ABEMPTY$ = subexp(subexp(\"\\\\|\" + SEGMENT$) + \"*\") ,\n\t\tPATH_ABSOLUTE$
= subexp(\"\\\\|\" + subexp(SEGMENT_NZ$ + PATH_ABEMPTY$) + \"?\") ,
//simplified\n\t\tPATH_NOScheme$ = subexp(SEGMENT_NZ_NC$ + PATH_ABEMPTY$),
//simplified\n\t\tPATH_ROOTLESS$ = subexp(SEGMENT_NZ$ + PATH_ABEMPTY$),
//simplified\n\t\tPATH_EMPTY$ = \"(?:\" + PCHAR$ + \")\" ,\n\t\tPATH$ = subexp(PATH_ABEMPTY$ + \"|\" +
PATH_ABSOLUTE$ + \"|\" + PATH_NOScheme$ + \"|\" + PATH_ROOTLESS$ + \"|\" +
PATH_EMPTY$),\n\t\tQUERY$ = subexp(subexp(PCHAR$ + \"|\" + merge(\"[\\\\|\\\\|\\\\?|]\", IPRIVATE$$)) +
\"*\") ,\n\t\tFRAGMENT$ = subexp(subexp(PCHAR$ + \"|\"[\\\\|\\\\|\\\\?|]\")) + \"*\") ,\n\t\tHIER_PART$ =
subexp(subexp(\"\\\\|\\\\|\\\\|\" + AUTHORITY$ + PATH_ABEMPTY$) + \"|\" + PATH_ABSOLUTE$ + \"|\" +
PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$),\n\t\tURI$ = subexp(SCHEME$ + \"\\\\:|\" + HIER_PART$ +
subexp(\"\\\\|\\\\?\" + QUERY$) + \"?\" + subexp(\"\\\\|#\" + FRAGMENT$) + \"?\") ,\n\t\tRELATIVE_PART$ =
subexp(subexp(\"\\\\|\\\\|\\\\|\" + AUTHORITY$ + PATH_ABEMPTY$) + \"|\" + PATH_ABSOLUTE$ + \"|\" +
PATH_NOScheme$ + \"|\" + PATH_EMPTY$),\n\t\tRELATIVE$
= subexp(RELATIVE_PART$ + subexp(\"\\\\|\\\\?\" + QUERY$) + \"?\" + subexp(\"\\\\|#\" + FRAGMENT$) +
\"?\") ,\n\t\tURI_REFERENCE$ = subexp(URI$ + \"|\" + RELATIVE$),\n\t\tABSOLUTE_URI$ =
subexp(SCHEME$ + \"\\\\:|\" + HIER_PART$ + subexp(\"\\\\|\\\\?\" + QUERY$) + \"?\") ,\n\t\tGENERIC_REF$ =
\"^(\" + SCHEME$ + \")\\\\:|\" + subexp(subexp(\"\\\\|\\\\|\\\\|\" + subexp(\"(\" + USERINFO$ + \")@\") + \"?\" +
HOST$ + \")\" + subexp(\"\\\\:|\" + PORT$ + \")\" + \"?\") + \"?\" + PATH_ABEMPTY$ + \"|\" +
PATH_ABSOLUTE$ + \"|\" + PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$ + \")\")) + subexp(\"\\\\|\\\\?\" +
QUERY$ + \")\" + \"?\" + subexp(\"\\\\|#\" + FRAGMENT$ + \")\" + \"?$\"),\n\t\tRELATIVE_REF$ = \"^(){0}\" +
subexp(subexp(\"\\\\|\\\\|\\\\|\" + subexp(\"(\" + USERINFO$ + \")@\") + \"?\" + HOST$ + \")\" + subexp(\"\\\\:|\" +
PORT$ + \")\" + \"?\") + \"?\" + PATH_ABEMPTY$ + \"|\" + PATH_ABSOLUTE$ + \"|\" +
PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$ + \")\")) + subexp(\"\\\\|\\\\?\" + QUERY$ + \")\" + \"?\"
+ subexp(\"\\\\|#\" + FRAGMENT$ + \")\" + \"?$\"),\n\t\tABSOLUTE_REF$ = \"^(\" + SCHEME$ + \")\\\\:|\" +
subexp(subexp(\"\\\\|\\\\|\\\\|\" + subexp(\"(\" + USERINFO$ + \")@\") + \"?\" + HOST$ + \")\" + subexp(\"\\\\:|\" +
PORT$ + \")\" + \"?\") + \"?\" + PATH_ABEMPTY$ + \"|\" + PATH_ABSOLUTE$ + \"|\" +
PATH_ROOTLESS$ + \"|\" + PATH_EMPTY$ + \")\")) + subexp(\"\\\\|\\\\?\" + QUERY$ + \")\" +
\"?$\"),\n\t\tSAMEDOC_REF$ = \"^\" + subexp(\"\\\\|#\" + FRAGMENT$ + \")\" +
\"?$\"),\n\t\tAUTHORITY_REF$ = \"^\" + subexp(\"(\" + USERINFO$ + \")@\") + \"?\" + HOST$ + \")\" +
subexp(\"\\\\:|\" + PORT$ + \")\" + \"?$\"),\n\t\treturn { \n\t\t\tNOT_SCHEME : new RegExp(merge(\"^[^]\",
ALPHA$, DIGIT$, \"[\\\\+|\\\\-|\\\\.|\"]\", \"g\")) ,\n\t\t\tNOT_USERINFO : new RegExp(merge(\"^[\\\\|\\\\%|\\\\:|\"]\",
UNRESERVED$, SUB_DELIMSS$), \"g\")) ,\n\t\t\tNOT_HOST : new RegExp(merge(\"^[\\\\|\\\\%|\\\\:|\\\\|\\\\|\\\\:|\"]\",
UNRESERVED$, SUB_DELIMSS$), \"g\")) ,\n\t\t\tNOT_PATH : new RegExp(merge(\"^[\\\\|\\\\%|\\\\|\\\\|\\\\:|\\\\|\\\\@|\"]\",
UNRESERVED$, SUB_DELIMSS$),
\"g\")) ,\n\t\t\tNOT_PATH_NOScheme : new RegExp(merge(\"^[\\\\|\\\\%|\\\\|\\\\|\\\\|\\\\@|\"]\", UNRESERVED$,
SUB_DELIMSS$), \"g\")) ,\n\t\t\tNOT_QUERY : new RegExp(merge(\"^[\\\\|\\\\%|\"]\", UNRESERVED$,
SUB_DELIMSS$, \"[\\\\:|\\\\|\\\\|\\\\|\\\\|\\\\?|\"]\", \"g\")) ,\n\t\t\tNOT_FRAGMENT : new
RegExp(merge(\"^[\\\\|\\\\%|\"]\", UNRESERVED$, SUB_DELIMSS$, \"[\\\\:|\\\\|\\\\|\\\\|\\\\|\\\\?|\"]\", \"g\")) ,\n\t\t\tESCAPE :
new RegExp(merge(\"^[^]\", UNRESERVED$, SUB_DELIMSS$), \"g\")) ,\n\t\t\tUNRESERVED : new
RegExp(UNRESERVED$, \"g\")) ,\n\t\t\tOTHER_CHARS : new RegExp(merge(\"^[\\\\|\\\\%|\"]\", UNRESERVED$,
RESERVED$), \"g\")) ,\n\t\t\tPCT_ENCODED : new RegExp(PCT_ENCODED$, \"g\")) ,\n\t\t\tIPV4ADDRESS : new
RegExp(\"^(\" + IPV4ADDRESS$ + \")$\")) ,\n\t\t\tIPV6ADDRESS : new RegExp(\"^[\\\\|\\\\?\" + IPV6ADDRESS$ +

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"\\" + subexp(subexp("\\\\%25\\\\%(?:\\" + HEXDIG$$ + "\\{2}\\)" + "\\(" + ZONEID$ + "\\)" + "\\?\\\\\\)?$\\)")
//RFC 6874, with relaxed parsing rules\n\t;\n}\n\n\nexport default buildExps(false);\n","export function
merge(...sets:Array<string>):string
{
\tif (sets.length > 1) {\n\t\tsets[0] = sets[0].slice(0, -1);\n\t\tconst xl = sets.length - 1;\n\t\tfor (let x = 1; x < xl;
++x) {\n\t\t\tsets[x] = sets[x].slice(1, -1);\n\t\t}\n\t\tsets[xl] = sets[xl].slice(1);\n\t\treturn sets.join("");\n\t} else
{\n\t\treturn sets[0];\n\t}\n}\n\n\nexport function subexp(str:string):string {\n\treturn \"(?:\" + str + \")\";\n}\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\n\nexport function
toUpperCase(str:string):string {\n\treturn str.toUpperCase();\n}\n\n\nexport function toArray(obj:any):Array<any>
{\n\treturn obj !== undefined && obj !== null ? (obj instanceof Array ? obj : (typeof obj.length !== \"number\" ||
obj.split || obj.setInterval || obj.call ? [obj] : Array.prototype.slice.call(obj))) : [];\n}\n\n\n\nexport function
assign(target: object, source: any): any {\n\tconst obj = target as
any;\n\tif (source) {\n\t\tfor (const key in source) {\n\t\t\tobj[key] = source[key];\n\t\t}\n\t}\n\treturn
obj;\n}
,\"names\":[\"SCHEMES\",\"uuid\",\"scheme\",\"urn\",\"mailto\",\"https\",\"http\",\"urnComponents\",\"nss\",\"uuidComp
onents\",\"toLowerCase\",\"options\",\"error\",\"tolerant\",\"match\",\"UUID\",\"undefined\",\"handler\",\"uriComponents\",\"path\"
,\"nid\",\"schemeHandler\",\"serialize\",\"urnScheme\",\"parse\",\"matches\",\"components\",\"URN_PARSE\",\"query\",\"fields\"
,\"join\",\"length\",\"push\",\"name\",\"replace\",\"PCT_ENCODED\",\"decodeUnreserved\",\"toUpperCase\",\"NOT_HFNAME
\",\"pctEncChar\",\"headers\",\"NOT_HFVALUE\",\"O\",\"mailtoComponents\",\"body\",\"subject\",\"to\",\"x\",\"localPart\",\"dom
ain\",\"iri\",\"e\",\"punycode\",\"toASCII\",\"unescapeComponent\",\"toUnicode\",\"toAddr\",\"slice\",\"atIdx\",\"NOT_LOCAL_P
ART\",\"lastIndexOf\",\"String\",\"xl\",\"toArray\",\"addr\",\"unicodeSupport\",\"split\",\"unknownHeaders\",\"hfield\",\"toAddrs\"
,\"hfields\",\"decStr\",\"UNRESERVED\",\"str\",\"pctDecChars\",\"RegExp\",\"merge\",\"UNRESERVED$$\",\"SOME_DELIM
$$$\",\"ATEXT$$\",\"VCHAR$$\",\"PCT_ENCODED$\",\"QTEXT$$\",\"subexp\",\"HEXDIG$$\",\"isIRI\",\"domainHost\",\"
port\",\"host\",\"toString\",\"URI_PROTOCOL\",\"IRI_PROTOCOL\",\"ESCAPE\",\"escapeComponent\",\"uriA\",\"uriB\",\"typ
eOf\",\"equal\",\"uri\",\"normalize\",\"resolveComponents\",\"baseURI\",\"schemelessOptions\",\"relativeURI\",\"assign\",\"resol
ve\",\"target\",\"fragment\",\"relative\",\"base\",\"userinfo\",\"removeDotSegments\",\"charAt\",\"skipNormalization\",\"uriToken
s\",\"s\",\"authority\",\"absolutePath\",\"reference\",\"_recomposeAuthority\",\"protocol\",\"IPV6ADDRESS\",\"test\",\"output\"
,\"Error\",\"input\",\"im\",\"RDS5\",\"pop\",\"RDS3\",\"RDS2\",\"RDS1\",\"$1\",\"$2\",\"_normalizeIPv6\",\"_normalizeIPv4\",\"_
\",\"uri
String\",\"isNaN\",\"indexOf\",\"parseInt\",\"NO_MATCH_IS_UNDEFINED\",\"URI_PARSE\",\"newHost\",\"zone\",\"newFi
rst\",\"newLast\",\"longestZeroFields\",\"index\",\"b\",\"a\",\"allZeroFields\",\"sort\",\"acc\",\"lastLongest\",\"field\",\"reduce\",\"field
Count\",\"isLastFieldIPv4Address\",\"firstFields\",\"lastFields\",\"lastFieldsStart\",\"Array\",\"IPV4ADDRESS\",\"last\",\"map\"
\",\"_stripLeadingZeros\",\"first\",\"address\",\"reverse\",\"NOT_FRAGMENT\",\"NOT_QUERY\",\"NOT_PATH\",\"NOT_PA
TH_NOScheme\",\"NOT_HOST\",\"NOT_USERINFO\",\"NOT_SCHEME\",\"_normalizeComponentEncoding\",\"new
Str\",\"substr\",\"i\",\"fromCharCode\",\"c\",\"c2\",\"c3\",\"il\",\"chr\",\"charCodeAt\",\"encode\",\"decode\",\"ucs2encode\",\"ucs2deco
de\",\"regexNonASCII\",\"string\",\"mapDomain\",\"regexPunycode\",\"n\",\"delta\",\"handledCPCount\",\"adapt\",\"handledCP
CountPlusOne\",\"basicLength\",\"stringFromCharCode\",\"digitToBasic\",\"q\",\"floor\",\"qMinusT\",\"baseMinusT\",\"t\",\"k\"
,\"bias\",\"tMin\",\"tMax\",\"currentValue\",\"maxInt\",\"m\",\"inputLength\",\"delimiter\",\"initialBias\",\"initialN\",\"fromCodePoi
nt\",\"splice\",\"out\",\"oldi\",\"w\",\"digit\",\"basicToDigit\",\"basic\",\"j\",\"baseMinusTMin\",\"skew\",\"numPoints\",\"firstTime\"
,\"damp\",\"flag\",\"codePoint\",\"array\",\"value\",\"extra\",\"counter\",\"result\",\"encoded\",\"labels\",\"fn\",\"regexSeparators\"
,\"parts\",\"RangeError\",\"errors\",\"type\",\"Math\",\"buildExps\",\"IPV6ADDRESS$\",\"ZONEID$\",\"IPV4ADDRESS$\",\"RESER
VED$$\",\"SUB_DELIM$$$\",\"IPRIVATE$$\",\"ALPHA$$\",\"DIGIT$$\",\"AUTHORITY_REF$\",\"USERINFO$\",\"HO
ST$\",\"PORT$\",\"SAMEDOC_REF$\",\"FRAGMENT$\",\"ABSOLUTE_REF$\",\"SCHEMES$\",\"PATH_ABEMPTY$\",
\"PATH_ABSOLUTE$\",\"PATH_ROOTLESS$\",\"PATH_EMPTY$\",\"QUERY$\",\"RELATIVE_REF$\",\"PATH_NO
SCHEMES$\",\"GENERIC_REF$\",\"ABSOLUTE_URI$\",\"HIER_PART$\",\"URI_REFERENCES$\",\"URI$\",\"RELATI
VES$\",\"RELATIVE_PART$\",\"AUTHORITY$\",\"PCHAR$\",\"PATH$\",\"SEGMENT_NZ$\",\"SEGMENT_NZ_NC$\",
\"SEGMENTS$\",\"IP_LITERAL$\",\"REG_NAMES$\",\"IPV6ADDRZ_RELAXED$\",\"IPV6FUTURE$\",\"IPV6ADDRES
S1$\",\"IPV6ADDRESS2$\",\"IPV6ADDRESS3$\",\"IPV6ADDRESS4$\",\"IPV6ADDRESS5$\",\"IPV6ADDRESS6$\",\"I
PV6ADDRESS7$\",\"IPV6ADDRESS8$\",\"IPV6ADDRESS9$\",\"H16$\",\"LS32$\",\"DEC_OCTET_RELAXED$\",\"DE
C_OCTET$\",\"UCSCHAR$$\",\"GEN_DELIM$$$\",\"SP$$\",\"QUOTE$$\",\"CR$\",\"obj\",\"key\",\"source\",\"setInterval\",

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"call","prototype","o","Object","shift","sets"],"mappings":";,;,,;AUA,A,SA,AA4E,KAAA,GAAA;sCAAYBkP,IAAz
B;YAAA;;QACKA,KAAK/R,MAAL,GAAC,CAAI,BA,EA,AAQ,BA;aACf,CAAL,IAAU+R,KAAK,CAAL,EA,AAQ,QR,K
AR,CAAC,CAAd,EA,AAiB,CAAC,CAAI,BA,CAAV;YACMK,KAAK,gQ,KAAK/R,MAAL,GAAC,CAAzB;aACK,IAA
IgB,IAAI,CAAb,EA,AAgBA,IAAIe,EA,APB,EA,AWB,EA,AEf,CAAI,BA,EA,AA6B;iBACvBA,CAAL,IAAU+Q,KAAK/Q
,CAAL,EA,AAQU,KAAAR,CAAC,CAAd,EA,AAiB,CAAC,CAAI,BA,CAAV;;aAEIK,EAAL,IAAW,gQ,KAAKhQ,EAAL,E
AASL,KAAAT,CAAe,CAAf,CAAX;eACQqQ,KAAKhS,IAAL,CAAU,EA,AAV,CAAP;KAPD,MAQO;eACCgS,KAA
K,CAAL,CAAP;;AAIF,AAAA,SA,AA3O,MAAA,CAAuBV,GAAvB,EAAA;WACQ,QAAQA,GAAR,GAAC,GA
ArB;;AAGD,AAAA,SA,AAuB,MAAA,CAAuB2N,CAAvB,EAAA;WACQA,MAAM3S,SAAN,GAAB,K,WAAIB,G
AAiC2S,MAAM,IAAN,GAAa,MAAb,GAAsBC,OAAOF,SAAP,CAAiBjO,QAAjB,CAA0BgO,IAA1B,CAA+BE,
CAA/B,EA,AAkCzP,KAAIC,CAAwC,GAAxC,EA,AA6C8D,GAA7C,GAAMd9D,KAAAnD,CAAyD,GAAzD,EA,AA8D2
P,KAA9D,GAAsEnT,WAAtE,EA,AA9D;;AAGD,AAAA,SA,AA2B,WAAA,CAA4BoC,GAA5B,EAAA;WACQA,IA
AIpC,WAAJ,EAAP;;AAGD,AAAA,SA,AA0B,OAAA,CAAwBsP,GAAxB,EAAA;WACQA,QAAQrS,SAAR,IAA
qBqS,QAAQ,IAA7B,GAAqCA,eAAenJ,KAAf,GAAuBmJ,GAAvB,GAA8B,OAAOA,IAAItr,MAAX,KAAsB,QA
AtB,IAAkCsR,IAAIInP,KAAtC,IAA+CmP,IAAIG,WAAAnD,IAAkeH,IAAII,IAAtE,GAA6E,CAACJ,GAAD,CAA7
E,GAAqFnJ,MAAMwJ,SAAN,CAAgBjQ,KAAhB,CAAsBgQ,IAAtB,CAA2BJ,GAA3B,CAAxJ,GAA4L,EAAnM;;
AAID,AAAA,SA,AA7M,MAAA,CAAuBE,MAAvB,EA,AAuC6M,MAAvC,EAAA;QACOF,MAAM3M,MAAZ;QA
CI6M,MAAJ,EAAY;aACN,IAAMD,GAAX,IAAkBC,MAAI,BA,EA,AA0B;gBACrBD,GAAJ,IAAWC,OAAOD,GAAP
,CAAX;;WAGKD,GAAP;;ADnCD,SA,AA3D,SA,AA,CAA0BrK,KAA1B,EAAA;QAE4K,UAAU,UADX;QAE
mD,MAAM,SAFP;QAGCID,UAAU,OAHX;QAICiD,WAAW,SAJZ;QAKC/N,WAAWR,MAAMsL,OAAN,EA,AAe
,UAAf,CALZ;;WAMQ,SANR;QAOCgD,OAAO,SAPR;QAQCjO,eAAeE,OAAOA,OAAO,YAAYC,QAAZ,GAAu
B,GAAvB,GAA6BA,QAA7B,GAAwCA,QAAxC,GAAMd,GAAAnD,GAAyDA,QAAzD,GAAoEA,QAA3E,IAAuF
,GAAvF,GAA6FD,OAAO,gBAAGBC,QAAhB,GAA2B,GAA3B,GAAiCA,QAAjC,GAA4CA,QAAAnD,CAA7F,GA
A4J,GAA5J,GAACKD,OAAO,MAAMC,QAAN,GAAiBA,QAAxB,CAAzK,CARhB;;mBASgB,yBATHB;QAUC2
K,eAAe,qCAVhB;QAWCD,aAAaIL,MAAMqO,YAAN,EA,AAoBID,YAAPB,CAXd;QAYCiD,YAAY3N,QAAQ,6E
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AwB,gBAAXB,EA,AA0C8C,SA,AA1C,CAdhB;QAeCtC,UAAUvL,OAAO8K,UAAUtrL,MAAMqL,OAAN,EA,AAeC,O
AAf,EA,AAwB,aAAxB,CAAV,GAAMd,GAA1D,CAfX;QAgBCE,YAAYjL,OAAOA,OAAOF,eAAe,GAAf,GAAqB
L,MAAMC,YAAN,EA,AAoBkL,YAAPB,EA,AAkC,OAAIC,CAA5B,IAA0E,GAAjF,CaHbB;QAiBCgD,aAAa5N,OA
AOA,OAAO,SAAP,IAAoB,GAAPB,GAA0BA,OAAO,WAAW+K,OAAIB,CAA1B,GAAuD,GAAvD,GAA6D/K,
OAAO,MAAM+K,OAAN,GAAGBA,OAAvB,CAA7D,GAA+F,GAA/F,GAAqG/K,OAAO,UAAU+K,OAAjB,CA
ArG,GAAiI,GAAjI,GAAuIA,OAA9I,CAjBd;QAKBC4C,qBAAGB3N,OAAOA,OAAO,SAAP,IAAoB,GAAPB,GA
A0BA,OAAO,WAAW+K,OAAIB,CAA1B,GAAuD,GAAvD,GAA6D/K,OAAO,MAAM+K,OAAN,GAAGBA,OA
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BSD-2-Clause

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

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AAc,KACtC6C,GAAc,GAAI5C,QAAOnB,GAAc,KACvCgO,GAAiB,GAAI7M,QAAOtD,EAAM,MAzBxB,wDA
yBwC,QAAS,QAASkQ,IAAU,KAe9EE,GAAa,GAAI9M,QAAOtD,EAAM,MAAOqD,GAjBrB,uCAiBmD,KACn

EgN,GAACD,GASdL,WACI,eAED,SAAUpK,EAA0BwD,MACrCmH,GAAMb3K,EACnB4K,EAAKD,EAAiBC,GAAMD,EAAiB9J,KAAO8J,EAAiB9J,KAAKpF,MAAM,aACrEoF,KAAOzF,UAEPBuP,EAAiB3J,MAAO,KAKtB,GAJD6J,IAAiB,EACfC,KACAC,EAAUJ,EAAiB3J,MAAMvF,MAAM,KAEPcX,EAAI,EAAGD,EAAKkQ,EAQpQ,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,KAAKgm,EAAQnQ,cAGb,YACaoQ,QAAUrE,EAakBmE,EAAO,GAAIxH,aAEPd,SACa2H,KAAOtE,EAakBmE,EAAO,GAAIxH,oBAGpC,IACtQd,EAakBmE,EAAO,GAAIxH,IAAYqD,EAakBmE,EA AO,GAAIxH,IAK7EqH,IAAgBF,EAAiBG,QAAUA,KAG/B9J,MAAQ5F,cAEPB,GAAIN,GAAI,EAAGD,EAAK+P,EAAGjQ,OAAQG,EAAID,IAAMC,EAAG,IACtCsQ,GAAOR,EAAG9P,GAAGW,MAAM,UAEPB,GAAKoL,EA AakBuE,EAAK,IAE5B5H,EAAQY,iBAQP,GAAKyC,EAakBuE,EAAK,GAAI5H,GAAS5H,yBALxC,GAAK0I, EAASC,QAAQsC,EAakBuE,EAAK,GAAI5H,GAAS5H,eAC9D,MAAO4I,KACS1G,MAAQ6M,EAAiB7M,OAA S,2EAA6E0G,IAM/H1J,GAAKsQ,EAAKrQ,KAAK,WAGZ4P,cAGI,SAAUA,EAAMCnH,MACIDxD,GAAa2K,E ACbC,EAAK9O,EAAQ6O,EAAiBC,OACbCA,EAAI,KACF,GAAI9P,GAAI,EAAGD,EAAK+P,EAAGjQ,OAAQ G,EAAID,IAAMC,EAAG,IACtCuQ,GAAS1L,OAAOiL,EAAG9P,IACnBwQ,EAAQD,EAAOpF,YAAAY,KAC3Bs F,EAAaF,EAAOzQ,MAAM,EAAG0Q,GAAQ7M,QAAQ8B,GAAaL,GAakBzB,QAAQ8B,GAAa1E,GAAa4C,QA AQ+L,GAAGbIL,GACxIsM,EAASH,EAAOzQ,MAAM0Q,EAAQ,SAItB9H,EAAQC,IAA2Ea,EAASKb,UAAUG G,GAAxFIH,EAASC,QAAQsC,EAakB2E,EAAQhI,GAAS5H,eAC5E,MAAO4I,KACG1G,MAAQkC,EAAWIC,O AAS,wDAA2D0F,EAAQC,IAAgB,UAAV,SAAuB,kBAAoBe,IAGzJ1J,GAAKyQ,EAAAY,IAAMC,IAGhB3K,KA AO+J,EAAG7P,KAAK,QAGrB+P,GAAUH,EAAiBG,QAAUH,EAAiBG,WAExDH,GAAiBO,UAAJS,EAAA,QA AqBH,EAAiBO,SACHep,EAAiBQ,OAAML,EAAA,KAAKBH,EAAiBQ,SAExD3I,UACD,GAAMiJ,KAAQX,GA CdA,EAAQW,KAAUnB,GAAEmB,MACHbXm,KACNwM,EAakhN,QAAQ8B,GAAaL,GAakBzB,QAAQ8B,G AAa1E,GAAa4C,QAAQgM,GAAYvL,GACIG,IACA4L,EAAQW,GAAMhN,QAAQ8B,GAAaL,GAakBzB,QAA Q8B,GAAa1E,GAAa4C,QAAQiM,GAAaxL,UAI3GsD,GAAO7H,WACCqG,MAAQwB,EAAOZH,KAAK,MAGz BiF,II/JH0L,GAAY,kBAIZtB,WACI,YAED,SAAUpK,EAA0BwD,MACrCIC,GAAUtB,EAAWa,MAAQb,EA AWa,KAAKT,MAAMsL,IACrDC,EAAgB3L,KAehBsB,EAAS,IACNhB,GAASKD,EAAQID,QAAUqL,EAAcrL,QAA U,MACnDsL,EAAMtK,EAAQ,GAAG1F,cACjBiQ,EAAMvK,EAAQ,GACdWk,EAaexL,EAAf,KAAyBkD,EAA QoI,KAAOA,GACxC1H,EAAgBC,EAAQ2H,KAehBF,IAAMA,IACNC,IAAMA,IACNhL,KAAOzF,UAejB8I,M ACaA,EAACZ,MAAMqI,EAAenI,WAGtC1F,MAAQ6N,EAAc7N,OAAS,+BAGvC6N,cAGI,SAAUA,EAA6BnI, MAC5CID,GAASKD,EAAQID,QAAUqL,EAAcrL,QAAU,MACnDsL,EAAMD,EAACc,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,I CxDHC,GAAO,2DAIP5B,WACI,iBAED,SAAUuB,EAA6BnI,MACxCyI,GAAiBN,WACRO,KAAOD,EAAeJ,MA CtBA,IAAMzQ,UAehBoI,EAAQwC,UAAciG,EAACc,MAASD,EAACc,KAAK9L,MAAM4L,QAC7DIO,MAAQ mO,EAAenO,OAAS,sBAGzCmO,aAGI,SAAUA,EAA+BzL,MAC9CmI,GAAGBM,WAERJ,KAAOI,EAACc,MAA Q,IAAItQ,cACzC+P,GC5BTxH,GAAQkG,GAAK/J,QAAU+J,GAevBIG,EACQgI,GAAM7L,QAAU6L,GAExBhI, EACQiI,GAAO9L,QAAU8L,GAEBjI,EACQkI,GAAL/QAAU+L,GAETbII,EACQ+H,GAAK5L,QAAU4L","file ":"dist/es5/uri.all.min.js","sourcesContent":["export function merge(...sets:Array<string>):string {\n\tif (sets.length > 1) {\n\t\t\tsets[0] = sets[0].slice(0, -1);\n\t\t\tconst xl = sets.length - 1;\n\t\t\tfor (let x = 1; x < xl; ++x) {\n\t\t\t\t\tsets[x] = sets[x].slice(1, -1);\n\t\t\t\t\tsets[x] = sets[x].slice(1);\n\t\t\t\t\treturn sets.join("");\n\t\t\t}\n\t\t}\n\t\treturn sets[0];\n\t}\n}\n\nexport function subexp(str:string):string {\n\treturn \"(?:\" + str + \")\";\n}\n\nexport function typeOf(o:any):string {\n\treturn o === undefined ? \"undefined\" : (o === null ? \"null\" : Object.prototype.toString.call(o).split(\" \").pop().split(\"/\").shift().toLowerCase());\n}\n\nexport function toUpperCase(str:string):string {\n\treturn str.toUpperCase();\n}\n\nexport function toArray(obj:any):Array<any> {\n\treturn obj !== undefined && obj !== null ? (obj instanceof Array ? obj : (typeof obj.length !== \"number\" || obj.split || obj.setInterval || obj.call ? [obj] : Array.prototype.slice.call(obj))) : [];\n}\n\nexport function assign(target: object, source: any): any {\n\tconst obj = target as any;\n\tif (source) {\n\t\t\tfor (const key in source) {\n\t\t\t\t\tobj[key] = source[key];\n\t\t\t\t}\n\t\t}\n\t\treturn obj;\n\t}\n\nimport { URIRegExps } from \"./uri\";\nimport {


```
merge, subexp } from \"./util\";\\n\\nexport function buildExps(isIRI:boolean):URIRegExps {\\n    const\\n\\tALPHA$$ = \\\"[A-Za-z]\\\",\\n\\tCR$ = \\\"\\\\\\\\x0D\\\",\\n\\tDIGIT$$ = \\\"[0-9]\\\",\\n\\tDQUOTE$$ = \\\"\\\\\\\\\\\\\\\\x22\\\",\\n\\tHEXDIG$$ = merge(DIGIT$, \\\"[A-Fa-f]\\\"), //case-insensitive\\n\\tLF$$ = \\\"\\\\\\\\\\\\\\\\x0A\\\",\\n\\tTSP$$ = \\\"\\\\\\\\\\\\\\\\x20\\\",\\n\\tPCT_ENCODED$ = subexp(subexp(\\\"%[EFef]\\\" + HEXDIG$$ + \\\"%\\\" + HEXDIG$$ + HEXDIG$$ + \\\"%\\\" + HEXDIG$$ + HEXDIG$$) + \\\"|\\\" + subexp(\\\"%[89A-Fa-f]\\\" + HEXDIG$$ + \\\"%\\\" + HEXDIG$$ + HEXDIG$$) + \\\"|\\\" + subexp(\\\"%\\\" + HEXDIG$$ + HEXDIG$$)), //expanded\\n\\tGEN_DELIMS$ = \\\"\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\?\\\\\\\\\\\\\\\\#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\@\\\",\\n\\tSUB_DELIMS$ = \\\"\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\!\\\\\\\\\\\\\\\\$\\\\\\\\\\\\\\\\&\\\\\\\\\\\\\\\\'\\\\\\\\\\\\\\\\(\\\\\\\\\\\\\\\\)\\\\\\\\\\\\\\\\*\\\\\\\\\\\\\\\\+\\\\\\\\\\\\\\\\,\\\\\\\\\\\\\\\\:\\\\\\\\\\\\\\\\=\\\\\\\\\\\\\\\\]\\\\\",\\n\\tRESERVED$ = merge(GEN_DELIMS$, SUB_DELIMS$),\\n\\tUCSCHAR$ = isIRI ? \\\"\\\\\\\\\\\\\\\\xAO-\\\\\\\\\\\\\\\\u200D\\\\\\\\\\\\\\\\u2010-\\\\\\\\\\\\\\\\u2029\\\\\\\\\\\\\\\\u202F-\\\\\\\\\\\\\\\\uD7FF\\\\\\\\\\\\\\\\uF900-\\\\\\\\\\\\\\\\uFDCF\\\\\\\\\\\\\\\\uFDF0-\\\\\\\\\\\\\\\\uFFFE\\\": \\\"[]\\\", //subset, excludes bidi control characters\\n\\tPRIVATE$ = isIRI ? \\\"\\\\\\\\\\\\\\\\uE000-\\\\\\\\\\\\\\\\uF8FF\\\": \\\"[]\\\", //subset\\n\\tUNRESERVED$ = merge(ALPHA$, DIGIT$, \\\"\\\\\\\\\\\\\\\\-\\\\\\\\\\\\\\\\.\\\\\\\\\\\\\\\\_\\\\\\\\\\\\\\\\~\\\\\\\\\\\\\\\\~\\\", UCSCHAR$),\\n\\tSCHEME$ = subexp(ALPHA$ + merge(ALPHA$, DIGIT$, \\\"\\\\\\\\\\\\\\\\+\\\\\\\\\\\\\\\\-\\\\\\\\\\\\\\\\.\\\\\\\\\\\\\\\\J\\\\\") + \\\"*\\\"),\\n\\tUSERINFO$ = subexp(subexp(PCT_ENCODED$ + \\\"|\\\" + merge(UNRESERVED$, SUB_DELIMS$, \\\"\\\\\\\\\\\\\\\\:\\\") ) + \\\"*\\\"),\\n\\tDEC_OCTET$ = subexp(subexp(\\\"25[0-5]\\\") + \\\"|\\\" + subexp(\\\"2[0-4]\\\" + DIGIT$) + \\\"|\\\" + subexp(\\\"1\\\" + DIGIT$ + DIGIT$) + \\\"|\\\" + subexp(\\\"[1-9]\\\" + DIGIT$) + \\\"|\\\" + DIGIT$),\\n\\tDEC_OCTET_RELAXED$ = subexp(subexp(\\\"25[0-5]\\\") + \\\"|\\\" + subexp(\\\"2[0-4]\\\" + DIGIT$) + \\\"|\\\" + subexp(\\\"1\\\" + DIGIT$ + DIGIT$) + \\\"|\\\" + subexp(\\\"0?[1-9]\\\" + DIGIT$) + \\\"|0?0?\\\" + DIGIT$), //relaxed parsing rules\\n\\tIPV4ADDRESS$ = subexp(DEC_OCTET_RELAXED$ + \\\"\\\\\\\\\\\\\\\\\\.\\\" + DEC_OCTET_RELAXED$ + \\\"\\\\\\\\\\\\\\\\\\.\\\" + DEC_OCTET_RELAXED$ + \\\"\\\\\\\\\\\\\\\\\\.\\\" + DEC_OCTET_RELAXED$),\\n\\tH16$ = subexp(HEXDIG$ + \\\"{1,4}\\\"),\\n\\tLS32$ = subexp(subexp(H16$ + \\\"\\\\\\\\\\\\\\\\:\\\" + H16$) + \\\"|\\\" + IPV4ADDRESS$),\\n\\tIPV6ADDRESS1$ = subexp(subexp(H16$ + \\\"\\\\\\\\\\\\\\\\:\\\" + \\\"{6}\\\" + LS32$), //6(h16 \":\" ) ls32\\n\\tIPV6ADDRESS2$ = subexp(\\\"\\\\\\\\\\\\\\\\:\\\\\\\\\\\\\\\\:\\\" + subexp(H16$ + \\\"\\\\\\\\\\\\\\\\:\\\" + \\\"{5}\\\" + LS32$), // \":\" 5( h16 \":\" ) ls32\\n\\tIPV6ADDRESS3$ = subexp(subexp(H16$ + \\\"?\\\\\\\\\\\\\\\\:\\\\\\\\\\\\\\\\:\\\" + subexp(H16$ + \\\"\\\\\\\\\\\\\\\\:\\\" + \\\"{4}\\\" + LS32$), //[ h16 ] \":\" 4( h16 \":\" ) ls32\\n\\tIPV6ADDRESS4$ = subexp(subexp(subexp(H16$ + \\\"\\\\\\\\\\\\\\\\:\\\" + \\\"{0,1}\\\" + H16$) + \\\"?\\\\\\\\\\\\\\\\:\\\\\\\\\\\\\\\\:\\\" + subexp(H16$ + \\\"\\\\\\\\\\\\\\\\:\\\" + \\\"{3}\\\" + LS32$), //[ *1( h16 \":\" ) h16 ] \":\" 3( h16 \":\" ) ls32\\n\\tIPV6ADDRESS5$ = subexp(subexp(subexp(H16$ + \\\"\\\\\\\\\\\\\\\\:\\\" + \\\"{0,2}\\\" + H16$) + \\\"?\\\\\\\\\\\\\\\\:\\\\\\\\\\\\\\\\:\\\" + subexp(H16$ + \\\"\\\\\\\\\\\\\\\\:\\\" + \\\"{2}\\\" + LS32$), //[ *2( h16 \":\" ) h16 ] \":\" 2( h16 \":\" ) ls32\\n\\tIPV6ADDRESS6$ = 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$), //RFC 6874, with relaxed parsing rules\\n\\tIPVFUTURE$ = subexp(\\\"[vV]\\\" + HEXDIG$ + \\\"+\\\\\\\\\\\\\\\\\\.\\\" + merge(UNRESERVED$, SUB_DELIMS$, \\\"\\\\\\\\\\\\\\\\:\\\") + \\\"+\\\"),\\n\\tIP_LITERAL$ = subexp(\\\"\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\" + subexp(IPV6ADDRZ_RELAXED$ + \\\"|\\\" + IPV6ADDRESS$ + \\\"|\\\" + IPVFUTURE$) + \\\"\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\"), //RFC 6874\\n\\tREG_NAME$ = subexp(subexp(PCT_ENCODED$ + \\\"|\\\" + merge(UNRESERVED$, SUB_DELIMS$))) +
```



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"*",\n\ttHOST$ = subexp(IP_LITERAL$ + "|" + IPV4ADDRESS$ + "(?!)" + REG_NAME$ + ")\" + "|\"" +  
REG_NAME$),\n\ttPORT$ = subexp(DIGIT$$ + "*""),\n\ttAUTHORITY$ = subexp(subexp(USERINFO$ +  
"@") + "?" + HOST$ + subexp("|||:" + PORT$) + "?""),\n\ttPCHAR$ = subexp(PCT_ENCODED$ + "|" +  
merge(UNRESERVED$, SUB_DELIMSS$, "[|\\:\\\\@]")), \n\ttSEGMENT$ = subexp(PCHAR$ +  
"*"), \n\ttSEGMENT_NZ$ = subexp(PCHAR$ + "+" + "), \n\ttSEGMENT_NZ_NC$ =  
subexp(subexp(PCT_ENCODED$ + "|" + merge(UNRESERVED$, SUB_DELIMSS$, "[|\\:\\\\@]")) +  
"+" + "), \n\ttPATH_ABEMPTY$ = subexp(subexp("|||/" + SEGMENT$) + "*""), \n\ttPATH_ABSOLUTE$ =  
subexp("|||/" + subexp(SEGMENT_NZ$ + PATH_ABEMPTY$) + "?"), //simplified\n\ttPATH_NOSCHEMES  
= subexp(SEGMENT_NZ_NC$ + PATH_ABEMPTY$), //simplified\n\ttPATH_ROOTLESS$ =  
subexp(SEGMENT_NZ$ + PATH_ABEMPTY$), //simplified\n\ttPATH_EMPTY$ = "(?!)" + PCHAR$ +  
"|)", \n\ttPATH$ = subexp(PATH_ABEMPTY$ + "|" + PATH_ABSOLUTE$ + "|" + PATH_NOSCHEMES  
+ "|" + PATH_ROOTLESS$ + "|" + PATH_EMPTY$), \n\ttQUERY$ = subexp(subexp(PCHAR$ + "|" +  
merge("[|\\:\\\\?]", IPRIVATE$)) + "*"), \n\ttFRAGMENT$ = subexp(subexp(PCHAR$ + "[|\\:\\\\/?]") +  
"*"), \n\ttHIER_PART$ = subexp(subexp("|||/" + AUTHORITY$ + PATH_ABEMPTY$) + "|" +  
PATH_ABSOLUTE$ + "|" + PATH_ROOTLESS$ + "|" + PATH_EMPTY$), \n\ttURI$ = subexp(SCHEME$ +  
"|||:" + HIER_PART$ + subexp("|||?" + QUERY$) + "?" + subexp("|||#(" + FRAGMENT$) +  
"?") , \n\ttRELATIVE_PART$ = subexp(subexp("|||/" + AUTHORITY$ + PATH_ABEMPTY$) + "|" +  
PATH_ABSOLUTE$ + "|" + PATH_NOSCHEMES$ + "|" + PATH_EMPTY$), \n\ttRELATIVES$ =  
subexp(RELATIVE_PART$ + subexp("|||?" + QUERY$) + "?" + subexp("|||#(" + FRAGMENT$) +  
"?") , \n\ttURI_REFERENCE$ = subexp(URI$ + "|" + RELATIVE$), \n\ttABSOLUTE_URI$ =  
subexp(SCHEME$ + "|||:" + HIER_PART$ + subexp("|||?" + QUERY$) + "?" ), \n\ttGENERIC_REF$ =  
"^(" + SCHEME$ + ")|||:" + subexp(subexp("|||/" +  
+ subexp("(" + USERINFO$ + ")@" ) + "?" + "(" + HOST$ + ")" + subexp("|||:" + PORT$ + ")" ) + "?" ) +  
"?(" + PATH_ABEMPTY$ + "|" + PATH_ABSOLUTE$ + "|" + PATH_ROOTLESS$ + "|" +  
PATH_EMPTY$ + ")" ) + subexp("|||?(" + QUERY$ + ")" ) + "?" + subexp("|||#(" + FRAGMENT$ + ")") )  
+ "$", \n\ttRELATIVE_REF$ = "^{}|" + subexp(subexp("|||/" + subexp("(" + USERINFO$ + ")@" )  
+ "?" + "(" + HOST$ + ")" + subexp("|||:" + PORT$ + ")" ) + "?" ) + "?" + PATH_ABEMPTY$ + "|" +  
PATH_ABSOLUTE$ + "|" + PATH_NOSCHEMES$ + "|" + PATH_EMPTY$ + ")" ) + subexp("|||?(" +  
QUERY$ + ")") + "?" + subexp("|||#(" + FRAGMENT$ + ")") + "$", \n\ttABSOLUTE_REF$ = "^(" +  
SCHEME$ + ")|||:" + subexp(subexp("|||/" + subexp("(" + USERINFO$ + ")@" ) + "?" + "(" + HOST$ +  
")" + subexp("|||:" + PORT$ + ")" ) + "?" ) + "?" + PATH_ABEMPTY$ + "|" + PATH_ABSOLUTE$ +  
|" + PATH_ROOTLESS$ + "|" + PATH_EMPTY$ + ")" ) + subexp("|||?(" +  
+ QUERY$ + ")") + "?" $", \n\ttSAMEDOC_REF$ = "^" + subexp("|||#(" + FRAGMENT$ + ")") +  
"?$", \n\ttAUTHORITY_REF$ = "^" + 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$), "g"), \n\t\tNOT_PATH_NOSCHHEME : new  
RegExp(merge("[^\\\\\\%\\\\\\|\\\\\\\\|\\\\\\\\:@]", UNRESERVED$, 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$, "g"), \n\t\tOTHER_CHARS : new RegExp(merge("[^\\\\\\%]", UNRESERVED$,  
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\t// the local part (i.e. everything up to `@`) intact.\n\t\tresult = parts[0] + '@';\n\t\tstring =
parts[1];\n\t}\n\t// Avoid `split(regex)` for IE8 compatibility. See #17.\n\tstring
= string.replace(regexSeparators, '\x2E');\n\tconst labels = string.split('.');\n\tconst encoded = map(labels,
fn).join('.');\n\treturn result + encoded;\n}\n\n/**\n * Creates an array containing the numeric code points of each
Unicode\n * character in the string. While JavaScript uses UCS-2 internally,\n * this function will convert a pair of
surrogate halves (each of which\n * UCS-2 exposes as separate characters) into a single code point,\n * matching
UTF-16.\n * @see `punycode.ucs2.encode`\n * @see <https://mathiasbynens.be/notes/javascript-encoding>\n *
@memberOf punycode.ucs2\n * @name decode\n * @param {String} string The Unicode input string (UCS-2).\n *
@returns {Array} The new array of code points.\n */\nfunction ucs2decode(string) {\n\tconst output = [];\n\tlet
counter = 0;\n\tconst length = string.length;\n\twhile (counter < length) {\n\t\tconst value =
string.charCodeAt(counter++);\n\t\tif (value >= 0xD800 && value <= 0xDBFF && counter < length) {\n\t\t\t// It's a
high
surrogate, and there is a next character.\n\t\t\tconst extra = string.charCodeAt(counter++);\n\t\t\tif ((extra &
0xFC00) == 0xDC00) { // Low surrogate.\n\t\t\t\toutput.push(((value & 0x3FF) << 10) + (extra & 0x3FF) +
0x10000);\n\t\t\t\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\t// next
code unit is the high surrogate of a surrogate pair.\n\t\t\t\t\toutput.push(value);\n\t\t\t\t\tcounter--;\n\t\t\t\t}\n\t\t\t} else
{\n\t\t\t\toutput.push(value);\n\t\t\t}\n\t\t}\n\t\treturn output;\n}\n\n/**\n * Creates a string based on an array of numeric
code points.\n * @see `punycode.ucs2.decode`\n * @memberOf punycode.ucs2\n * @name encode\n * @param
{Array} codePoints The array of numeric code points.\n * @returns {String} The new Unicode string (UCS-2).\n */\nconst
ucs2encode = array => String.fromCodePoint(...array);\n\n/**\n * Converts a basic code point into a
digit/integer.\n * @see `digitToBasic()`\n * @private\n * @param {Number} codePoint The basic numeric
code point value.\n * @returns {Number} The numeric value of a basic code point (for use in\n * representing
integers) in the range `0` to `base - 1`, or `base` if\n * the code point does not represent a value.\n */\nconst
basicToDigit = function(codePoint) {\n\tif (codePoint - 0x30 < 0x0A) {\n\t\treturn codePoint - 0x16;\n\t}\n\tif
(codePoint - 0x41 < 0x1A) {\n\t\treturn codePoint - 0x41;\n\t}\n\tif (codePoint - 0x61 < 0x1A) {\n\t\treturn
codePoint - 0x61;\n\t}\n\treturn base;\n};\n\n/**\n * Converts a digit/integer into a basic code point.\n * @see
`basicToDigit()`\n * @private\n * @param {Number} digit The numeric value of a basic code point.\n * @returns
```


[illegible]


```

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Gary Court.
import URI_PROTOCOL from \"/regexpr-uri\";
import IRI_PROTOCOL from \"/regexprs-iri\";
import punycode from \"/punycode\";
import { toUpperCase, typeOf, assign } from \"/util\";
export interface URIComponents {
  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;
  tiri?: boolean;
  unicodeSupport?: boolean;
  domainHost?: boolean;
}
export interface URISchemeHandler<Components extends URIComponents = URIComponents, Options extends URIOptions = URIOptions, ParentComponents extends URIComponents = URIComponents> {
  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,
  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);
    else if (c >= 194 && c < 224) newStr += String.fromCharCode(((c & 31) << 6) | (c2 & 63));
    else {
      newStr += str.substr(i, 6);
      if (c >= 224) {
        if ((il - i) >= 9) {
          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));
        } else {
          newStr += str.substr(i, 9);
          newStr += str.substr(i, 3);
          newStr += str.substr(i, 3);
        }
      }
      return newStr;
    }
    newStr += str.substr(i, 3);
    i += 3;
  }
  return newStr;
}
export function _normalizeComponentEncoding(components: URIComponents, protocol: URIRegExps) {
  function decodeUnreserved(str: string): string {
    const decStr = pctDecChars(str);
    return (!decStr.match(protocol.UNRESERVED) ? str : decStr);
  }
  components.scheme = String(components.scheme).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, toUpperCase);
  if (components.query !== undefined) components.query = String(components.query).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_QUERY, pctEncChar).replace(protocol.PCT_ENCODED,

```


[illegible]

[illegible]


```

: function (components:URISchemeHandler, options:URISchemeHandlerOptions):MailtoComponents {
  const mailtoComponents = components as MailtoComponents;
  const to = mailtoComponents.to = (mailtoComponents.path ?
    mailtoComponents.path.split("\\", "\\") : []);
  mailtoComponents.path = undefined;
  if (mailtoComponents.query) {
    let unknownHeaders = false;
    const headers:MailtoHeaders = {};
    const hfields = mailtoComponents.query.split("&");
    for (let x = 0, xl = hfields.length; x < xl; ++x) {
      const hfield = hfields[x].split("=");
      switch (hfield[0]) {
        case "to":
          const toAddrs = hfield[1].split("\\", "\\");
          for (let x = 0, xl = toAddrs.length; x < xl; ++x) {
            toAddrs[x].push(toAddrs[x]);
          }
          break;
        case "subject":
          mailtoComponents.subject = unescapeComponent(hfield[1], options);
          break;
        case "body":
          mailtoComponents.body = unescapeComponent(hfield[1], options);
          break;
        default:
          unknownHeaders = true;
          headers[unescapeComponent(hfield[0], options)] = unescapeComponent(hfield[1], options);
          break;
      }
    }
    mailtoComponents.headers = headers;
    mailtoComponents.query = undefined;
    for (let x = 0, xl = to.length; x < xl; ++x) {
      const addr = to[x].split("@");
      taddr[0] = unescapeComponent(addr[0]);
      if (!options.unicodeSupport) {
        //convert Unicode IDN -> ASCII IDN
        ttry {
          taddr[1] = punycode.toASCII(unescapeComponent(addr[1], options).toLowerCase());
        } catch (e) {
          mailtoComponents.error = mailtoComponents.error || "Email address's domain name can not be converted to ASCII via punycode: " + e;
        }
        taddr[1] = unescapeComponent(addr[1], options).toLowerCase();
        tto[x] = addr.join("@");
      }
    }
    return mailtoComponents;
  }
  //serialize : function (mailtoComponents:MailtoComponents, options:URISchemeHandlerOptions):URISchemeHandlerOptions {
    const components = mailtoComponents as URISchemeHandlerOptions;
    const to = toArray(mailtoComponents.to);
    if (to) {
      for (let x = 0, xl = to.length; x < xl; ++x) {
        const toAddr = String(to[x]);
        const atIdx = toAddr.lastIndexOf("@");
        const localPart = (toAddr.slice(0, atIdx)).replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_LOCAL_PART, pctEncChar);
        const domain = toAddr.slice(atIdx + 1);
        //convert IDN via punycode
        ttry {
          tdomain = (!options.iri ? punycode.toASCII(unescapeComponent(domain, options).toLowerCase()) : punycode.toUnicode(domain));
        } catch (e) {
          components.error = components.error || "Email address's domain name can not be converted to " + (!options.iri ? "ASCII" : "Unicode") + " via punycode: " + e;
        }
        tto[x] = localPart + "@" + domain;
      }
      components.path = to.join("\\", "\\");
      const headers = mailtoComponents.headers = mailtoComponents.headers || {};
      if (mailtoComponents.subject) headers["subject"] = mailtoComponents.subject;
      if (mailtoComponents.body) headers["body"] = mailtoComponents.body;
      const fields = [];
      for (const name in headers) {
        if (headers[name] !== O[name]) {
          fields.push(name.replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_HFNAME, pctEncChar) + "=" + headers[name].replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED, toUpperCase).replace(NOT_HFVALUE, pctEncChar));
        }
      }
      if (fields.length) {
        components.query = fields.join("&");
      }
    }
    return components;
  }
  //export default handler;
  "import { URISchemeHandler } from \"/uri/";
  "import { buildExps } from \"/regexprs-uri/";
  "export default buildExps(true);
  "import { URISchemeHandler, URISchemeHandlerOptions, URISchemeHandlerOptions } from \"/uri/";
  const handler:URISchemeHandler = {
    scheme: "http",
    domainHost: true,
    parse: function (components:URISchemeHandlerOptions, options:URISchemeHandlerOptions):URISchemeHandlerOptions {
      //report missing host
      if (!components.host) {
        components.error = components.error || "HTTP URIs must have a host.";
      }
      return components;
    },
    serialize: function (components:URISchemeHandlerOptions, options:URISchemeHandlerOptions):URISchemeHandlerOptions {
      //normalize the

```


[illegible]


```
\"/schemes/mailto\";\nSCHEMES[mailto.scheme] = mailto;\n\nimport urn from\n\"./schemes/urn\";\nSCHEMES[urn.scheme] = urn;\n\nimport uuid from \"./schemes/urn-uuid\";\nSCHEMES[uuid.scheme] = uuid;\n\nexport * from \"./uri\";\n\"}}}
```

Found in path(s):

```
* /opt/cola/permits/1827129311_1697888429.8029048/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/dist/es5/uri.all.min.js.map
```

1.464 ansi-styles 3.2.1

1.464.1 Available under license :

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1.465 has-flag 3.0.0

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1.466 color-name 1.1.3

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1.467 chalk 2.4.2

1.467.1 Available under license :

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1.468 object-assign 4.1.1

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1.469 supports-color 5.5.0

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1.470 jquery-ui 1.12.1

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1.471 simplegeneric 0.8.1-1

1.471.1 Available under license :

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Metadata-Version: 1.1

Name: simplegeneric

Version: 0.8.1

Summary: Simple generic functions (similar to Python's own `len()`, `pickle.dump()`, etc.)

Home-page: <http://cheeseshop.python.org/pypi/simplegeneric>

Author: Phillip J. Eby

Author-email: peak@eby-sarna.com

License: ZPL 2.1

Description: * New in 0.8: Source and tests are compatible with Python 3 (w/o `setup.py`)

* 0.8.1: `setup.py` is now compatible with Python 3 as well

* New in 0.7: `Multiple Types or Objects`_`

* New in 0.6: `Inspection and Extension`_`, and thread-safe method registration

The `simplegeneric`_` module lets you define simple single-dispatch generic functions, akin to Python's built-in generic functions like `len`_`, `iter`_` and so on. However, instead of using specially-named methods, these generic functions use simple lookup tables, akin to those used by e.g. `pickle.dump`_`

and other

generic functions found in the Python standard library.

As you can see from the above examples, generic functions are actually quite common in Python already, but there is no standard way to create simple ones. This library attempts to fill that gap, as generic

functions are an `excellent alternative to the Visitor pattern`, as well as being a great substitute for most common uses of adaptation.

This library tries to be the simplest possible implementation of generic functions, and it therefore eschews the use of multiple or predicate dispatch, as well as avoiding speedup techniques such as C dispatching or code generation. But it has absolutely no dependencies, other than Python 2.4, and the implementation is just a single Python module of less than 100 lines.

Usage

Defining and using a generic function is straightforward::

```
>>> from simplegeneric import generic
>>> @generic
... def move(item, target):
...     """Default implementation goes here"""
...     print("what you say?!")

>>> @move.when_type(int)
... def move_int(item, target):
...     print("In AD %d, %s was beginning." % (item, target))

>>> @move.when_type(str)
... def move_str(item, target):
...     print("How are you %s!!" % item)
...     print("All your %s are belong to us." % (target,))

>>> zig = object()
>>> @move.when_object(zig)
... def move_zig(item, target):
...     print("You know what you %s." % (target,))
...     print("For great justice!")

>>> move(2101, "war")
In AD 2101, war was beginning.

>>> move("gentlemen", "base")
How are you gentlemen!!
All your base are belong to us.

>>> move(zig, "doing")
You know what you doing.
For great justice!
```



```
>>> move(27.0, 56.2)
what you say?!
```

Inheritance and Allowed Types

Defining multiple methods for the same type or object is an error::

```
>>> @move.when_type(str)
... def this_is_wrong(item, target):
...     pass
Traceback (most recent call last):
...
TypeError: <function move...> already has method for type <...'str'>

>>> @move.when_object(zig)
... def this_is_wrong(item, target): pass
Traceback (most recent call last):
...
TypeError: <function move...> already has method for object <object ...>
```

And the ``when_type()`` decorator only accepts classes or types::

```
>>> @move.when_type(23)
... def move_23(item, target):
...     print("You have no chance to survive!")
Traceback (most recent call last):
...
TypeError: 23 is not a type or class
```

Methods defined for supertypes are inherited following MRO order::

```
>>> class MyString(str):
...     """String subclass"""

>>> move(MyString("ladies"), "drinks")
How are you ladies!!
All your drinks are belong to us.
```

Classic class instances are also supported (although the lookup process is slower than for new-style instances)::

```
>>> class X: pass
>>> class Y(X): pass
```



```

>>> @move.when_type(X)
... def move_x(item, target):
...     print("Someone set us up the %s!!!" % (target,))

>>> move(X(), "bomb")
Someone set us up the bomb!!!

>>> move(Y(), "dance")
Someone set us up the dance!!!

```

Multiple Types or Objects

As a convenience, you can now pass more than one type or object to the registration methods::

```

>>> @generic
... def isbuiltin(ob):
...     return False
>>> @isbuiltin.when_type(int, str, float, complex, type)
... @isbuiltin.when_object(None, Ellipsis)
... def yes(ob):
...     return True

>>> isbuiltin(1)
True
>>> isbuiltin(object)
True
>>> isbuiltin(object())
False
>>> isbuiltin(X())
False
>>> isbuiltin(None)
True
>>> isbuiltin(Ellipsis)
True

```

Defaults and Docs

You can obtain a function's default implementation using its ``default`` attribute::

```

>>> @move.when_type(Y)

```



```
... def move_y(item, target):
...     print("Someone set us up the %s!!!" % (target,))
...     move.default(item, target)

>>> move(Y(), "dance")
Someone set us up the dance!!!
what you say?!
```

`__help__` and other documentation tools see generic functions as normal function objects, with the same name, attributes, docstring, and module as the prototype/default function::

```
>>> help(move)
Help on function move:
...
move(*args, **kw)
    Default implementation goes here
...
```

Inspection and Extension

You can find out if a generic function has a method for a type or object using the `__has_object__` and `__has_type__` methods::

```
>>> move.has_object(zig)
True
>>> move.has_object(42)
False

>>> move.has_type(X)
True
>>> move.has_type(float)
False
```

Note that `__has_type__` only queries whether there is a method registered for the *exact* type, not subtypes or supertypes::

```
>>> class Z(X): pass
>>> move.has_type(Z)
False
```

You can create a generic function that "inherits" from an existing generic function by calling `__generic__` on the existing function::


```
>>> move2 = generic(move)
>>> move(2101, "war")
In AD 2101, war was beginning.
```

Any methods added to the new generic function override **all** methods in the "base" function::

```
>>> @move2.when_type(X)
... def move2_X(item, target):
...     print("You have no chance to survive make your %s!" % (target,))

>>> move2(X(), "time")
You have no chance to survive make your time!

>>> move2(Y(), "time")
You have no chance to survive make your time!
```

Notice that even though `move()` has a method for type `Y`, the method defined for `X` in `move2()` takes precedence. This is because the `move` function is used as the `default` method of `move2`, and `move2` has no method for type `Y`::

```
>>> move2.default is move
True
>>> move.has_type(Y)
True
>>> move2.has_type(Y)
False
```

Limitations

* The first argument is always used for dispatching, and it must always be passed **positionally** when the function is called.

* Documentation tools don't see the function's original argument signature, so you have to describe it in the docstring.

* If you have optional arguments, you must duplicate them on every method in order for them to work correctly. (On the plus side, it means you can have different defaults or required arguments for each method, although relying on that quirk probably isn't a good idea.)

These restrictions may be lifted in later releases, if I feel the need. They would require runtime code generation the way I do it in `RuleDispatch`,

however, which is somewhat of a pain. (Alternately I could use the ``BytecodeAssembler`` package to do the code generation, as that's a lot easier to use than string-based code generation, but that would introduce more dependencies, and I'm trying to keep this simple so I can just

toss it into Chandler without a big footprint increase.)

.. _excellent alternative to the Visitor pattern: <http://peak.telecommunity.com/DevCenter/VisitorRevisited>

Platform: UNKNOWN

Classifier: Development Status :: 6 - Mature

Classifier: Development Status :: 7 - Inactive

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: Zope Public License

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.4

Classifier: Programming Language :: Python :: 2.5

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Operating System :: OS Independent

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

Found in path(s):

* /opt/cola/permits/142259662_1695301093.5459273/0/simplegeneric-0.8.1-1-3.src.rpm-cosi-expand-archive-BgyfsaIy/simplegeneric-0.8.1.tar.gz-cosi-expand-archive-NzZuPMGO/simplegeneric-0.8.1/PKG-INFO
*

/opt/cola/permits/142259662_1695301093.5459273/0/simplegeneric-0.8.1-1-3.src.rpm-cosi-expand-archive-BgyfsaIy/simplegeneric-0.8.1.tar.gz-cosi-expand-archive-NzZuPMGO/simplegeneric-0.8.1/simplegeneric.egg-info/PKG-INFO

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Intended Audience :: Developers

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Programming Language :: Python

Programming Language :: Python :: 2

Programming Language :: Python :: 2.4

Programming Language :: Python :: 2.5
Programming Language :: Python :: 2.6
Programming Language :: Python :: 2.7
Programming Language :: Python :: 3
Operating System :: OS Independent
Topic :: Software Development :: Libraries :: Python Modules

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1.472 wcwidth 0.1.7-1

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