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# **1.1 argparse 1.2.1**

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History

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Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.

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## A. HISTORY OF THE SOFTWARE

=====

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (see <http://www.digicool.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. Digital Creations 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 from	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	no
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes



2.2	2.1.1	2001	PSF	yes
2.2.1	2.2	2002	PSF	yes

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Blinker was originally written by Jason Kirtland.

Contributors are:

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Blinker includes code from Louie, by Patrick K. O'Brien, Mike C. Fletcher, and Matthew R. Scott.

## 1.3 Boost 1.35.0

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Metadata-Version: 1.0

Name: coverage

Version: 3.5.1

Summary: Code coverage measurement for Python

Home-page: <http://nedbatchelder.com/code/coverage>

Author: Ned Batchelder and others

Author-email: [ned@nedbatchelder.com](mailto:ned@nedbatchelder.com)

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Description: Coverage.py measures code coverage, typically during test execution. It uses the code analysis tools and tracing hooks provided in the Python standard

library to determine which lines are executable, and which have been executed.

Coverage.py runs on Pythons 2.3 through 3.2.

Documentation is at `nedbatchelder.com` <<http://nedbatchelder.com/code/coverage>>`. Code repository and issue

tracker are at `bitbucket.org` <<http://bitbucket.org/ned/coveragepy>>`.

New in 3.5: Branch coverage exclusions, keyboard shortcuts in HTML report.

New in 3.4: Better control over source to measure, and unexecuted files can be reported.

New in 3.3: `.coveragerc` files.

New in 3.2: Branch coverage!

Keywords: code coverage testing

Platform: UNKNOWN

Classifier: Environment :: Console

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 3

Classifier: Topic :: Software Development :: Quality Assurance

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Classifier: Development Status :: 5 - Production/Stable

## 1.8 cssmin 0.1.4

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## 1.9 cyrus-sasl 2.1.26

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```

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## 1.25 gcc\_libgcc 4.4.7

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## 1.26 Geometry Engine 3.3.8

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util/unlink.py

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backport from python3 Lib/test/support.py

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Fernando Perez began IPython in 2001 based on code from Janko Hauser <jhauser-AT-zscout.de> and Nathaniel Gray <n8gray-AT-caltech.edu>. Fernando is still the project lead.

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- \* Evan Patterson
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/\*

\* hash.c: chained hash tables

\*

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\*/

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\* list.c: lists handling implementation

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## 1.46 metis 5.1.0

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## 1.47 mongodb 2.6.9

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# 1.49 networkx 1.8.1

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```



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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object

file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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# 1.58 paraproxy 1.2

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## 1.59 parseUri 1.2.2

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THE BASIC LIBRARY FUNCTIONS

-----

Written by: Philip Hazel  
Email local part: ph10  
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Cambridge, England.

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## 1.62 pql 0.4.3

### 1.62.1 Available under license :

Metadata-Version: 1.1

Name: pql

Version: 0.4.3

Summary: A python expression to MongoDB query translator

Home-page: <https://github.com/alonho/pql>

Author: Alon Horev

Author-email: [alon@horev.net](mailto:alon@horev.net)

License: BSD

Description: UNKNOWN

Platform: UNKNOWN

Classifier: Development Status :: 3 - Alpha

Classifier: Intended Audience :: Developers

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3.3

Classifier: Operating System :: POSIX :: Linux

Classifier: Operating System :: MacOS :: MacOS X

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## 1.63 psutil 2.1.1

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## 1.64 PxLoader 0.1

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PxLoader is a Javascript library that helps you download images, sound files or anything else you need before you take a specific action on your site (like showing a user interface or starting a game). You can use it to create a preloader for HTML5 games and websites.

Details and examples:

<http://thinkpixellab.com/pxloader/>

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## 1.65 pyasn1 0.1.6

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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.

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|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | no                  |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
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## 1.67 pygments 1.5

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- \* Ali Afshar -- image formatter
- \* Andreas Amann -- AppleScript lexer
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- \* Artem Egorkine -- terminal256 formatter
- \* James H. Fisher -- PostScript lexer
- \* Carlos Galdino -- Elixir and Elixir Console lexers

- \* Naveen Garg -- Autohotkey lexer
- \* Laurent Gautier -- R/S lexer
- \* Alex Gaynor -- PyPy log lexer
- \* Bertrand Goetzmann -- Groovy lexer
- \* Krzysiek Goj -- Scala lexer
- \* Matt Good -- Genshi, Cheetah lexers
- \* Patrick Gotthardt -- PHP namespaces support
- \* Olivier Guibe -- Asymptote lexer
- \* Martin Harriman -- SNOBOL lexer
- \* Matthew Harrison -- SVG formatter
- \* Steven Hazel -- Tcl lexer
- \* Aslak Hellesøy -- Gherkin lexer
- \* Jordi Gutiérrez Hermoso -- Octave lexer
- \* David Hess, Fish Software, Inc. -- Objective-J lexer
- \* Varun Hiremath -- Debian control lexer
- \* Ben Hollis -- Mason lexer
- \* Tim Howard -- BlitzMax lexer
- \* Ivan Inozemtsev -- Fantom lexer
- \* Brian R. Jackson -- Tea lexer
- \* Dennis Kaarsemaker -- sources.list lexer
- \* Igor Kalnitsky -- vhdl lexer
- \* Adam Koprowski -- Opa lexer
- \* Benjamin Kowarsch -- Modula-2 lexer
- \* Marek Kubica -- Scheme lexer
- \* Jochen Kupperschmidt -- Markdown processor
- \* Gerd Kurzbach -- Modelica lexer
- \* Olov Lassus -- Dart lexer
- \* Sylvestre Ledru -- Scilab lexer
- \* Mark Lee -- Vala lexer
- \* Ben Mabey -- Gherkin lexer
- \* Simone Margaritelli -- Hybris lexer
- \* Kirk McDonald -- D lexer
- \* Gordon McGregor -- SystemVerilog lexer
- \* Stephen McKamey -- Duel/JBST lexer
- \* Brian McKenna -- F# lexer
- \* Lukas Meuser -- BBCode formatter, Lua lexer
- \* Hong Minhee -- HTTP lexer
- \* Michael Mior -- Awk lexer
- \* Paulo Moura -- Logtalk lexer
- \* Mher Movsisyan -- DTD lexer
- \* Ana Nelson -- Ragel, ANTLR, R console lexers
- \* Nam T. Nguyen -- Monokai style
- \* Jesper Noehr -- HTML formatter "anchorlinenos"
- \* Jonas Obrist -- BBCode lexer
- \* David Oliva -- Rebol lexer
- \* Jon Parise -- Protocol buffers lexer
- \* Ronny Pfannschmidt -- BBCode lexer
- \* Benjamin Peterson -- Test suite refactoring

- \* Dominik Picheta -- Nimrod lexer
- \* Clément Prévost -- UrbiScript lexer
- \* Justin Reidy -- MXML lexer
- \* Norman Richards -- JSON lexer
- \* Lubomir Rintel -- GoodData MAQL and CL lexers
- \* Andre Roberge -- Tango style
- \* Konrad Rudolph -- LaTeX formatter enhancements
- \* Mario Ruggier -- Evoque lexers
- \* Stou Sandalski -- NumPy, FORTRAN, tcsh and XSLT lexers
- \* Matteo Sasso -- Common Lisp lexer
- \* Joe Schafer -- Ada lexer
- \* Ken Schutte -- Matlab lexers
- \* Tassilo Schweyer -- Io, MOOCode lexers
- \* Joerg Sieker -- ABAP lexer
- \* Robert Simmons -- Standard ML lexer
- \* Kirill Simonov -- YAML lexer
- \* Steve Spigarelli -- XQuery lexer
- \* Jerome St-Louis -- eC lexer
- \* James Strachan -- Kotlin lexer
- \* Tiberius Teng -- default style overhaul
- \* Jeremy Thurgood -- Erlang, Squid config lexers
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- \* Alex Zimin -- Nemerle lexer

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## 1.70 pyproj 1.9.2

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## 1.72 python-dateutil 2.1

### 1.72.1 Available under license :

dateutil - Extensions to the standard Python datetime module.

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## 1.73 python-ldap 2.4.18

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\$Id: LICENCE,v 1.1 2002/09/18 18:51:22 stroeder Exp \$

Metadata-Version: 1.1

Name: python-ldap

Version: 2.4.18

Summary: Python modules for implementing LDAP clients

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

Author: python-ldap project

Author-email: [python-ldap@python.org](mailto:python-ldap@python.org)

License: Python style

Download-URL: <http://pypi.python.org/pypi/python-ldap/>

Description: python-ldap:

python-ldap provides an object-oriented API to access LDAP directory servers from Python programs. Mainly it wraps the OpenLDAP 2.x libs for that purpose. Additionally the package contains modules for other LDAP-related stuff (e.g. processing LDIF, LDAPURLs, LDAPv3 schema, LDAPv3 extended operations and controls, etc.).

This is the official license for the Python 2.2.1 release:

#### 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 (see <http://www.digicool.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. Digital Creations 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 from   | 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       | no                  |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |

Footnotes:

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## 1.74 python-oauth2 1.5.170 :1.e16

## 1.74.1 Available under license :

"""

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"""

```
import base64
import urllib
import time
import random
import urlparse
import hmac
import binascii
import httplib2

try:
    from urlparse import parse_qs
    parse_qs # placate pyflakes
except ImportError:
    # fall back for Python 2.5
    from cgi import parse_qs

try:
    from hashlib import sha1
    sha = sha1
except ImportError:
    # hashlib was added in Python 2.5
    import sha
```

```

import _version

__version__ = _version.__version__

OAUTH_VERSION = '1.0' # Hi Blaine!
HTTP_METHOD = 'GET'
SIGNATURE_METHOD = 'PLAINTEXT'

class Error(RuntimeError):
    """Generic exception class."""

    def __init__(self, message='OAuth error occurred.'):
        self._message = message

    @property
    def message(self):
        """A hack to get around the deprecation errors in 2.6."""
        return self._message

    def __str__(self):
        return self._message

class MissingSignature(Error):
    pass

def build_authenticate_header(realm=""):
    """Optional WWW-Authenticate header (401 error)"""
    return {'WWW-Authenticate': 'OAuth realm="%s" % realm}

def build_xoauth_string(url, consumer, token=None):
    """Build an XOAUTH string for use in SMTP/IMPA authentication."""
    request = Request.from_consumer_and_token(consumer, token,
        "GET", url)

    signing_method = SignatureMethod_HMAC_SHA1()
    request.sign_request(signing_method, consumer, token)

    params = []
    for k, v in sorted(request.iteritems()):
        if v is not None:
            params.append('%s="%s"' % (k, escape(v)))

    return "%s %s %s" % ("GET", url, ','.join(params))

```

```

def to_unicode(s):
    """ Convert to unicode, raise exception with instructive error
    message if s is not unicode, ascii, or utf-8. """
    if not isinstance(s, unicode):
        if not isinstance(s, str):
            raise TypeError('You are required to pass either unicode or string here, not: %r (%s)' % (type(s), s))
        try:
            s = s.decode('utf-8')
        except UnicodeDecodeError, le:
            raise TypeError('You are required to pass either a unicode object or a utf-8 string here. You passed a Python
            string object which contained non-utf-8: %r. The UnicodeDecodeError that resulted from attempting to interpret it
            as utf-8 was: %s' % (s, le,))
    return s

def to_utf8(s):
    return to_unicode(s).encode('utf-8')

def to_unicode_if_string(s):
    if isinstance(s, basestring):
        return to_unicode(s)
    else:
        return s

def to_utf8_if_string(s):
    if isinstance(s, basestring):
        return to_utf8(s)
    else:
        return s

def to_unicode_optional_iterator(x):
    """
    Raise TypeError if x is a str containing non-utf8 bytes or if x is
    an iterable which contains such a str.
    """
    if isinstance(x, basestring):
        return to_unicode(x)

    try:
        l = list(x)
    except TypeError, e:
        assert 'is not iterable' in str(e)
        return x
    else:
        return [ to_unicode(e) for e in l ]

def to_utf8_optional_iterator(x):
    """

```

```

Raise TypeError if x is a str or if x is an iterable which
contains a str.
"""
if isinstance(x, basestring):
    return to_utf8(x)

try:
    l = list(x)
except TypeError, e:
    assert 'is not iterable' in str(e)
    return x
else:
    return [ to_utf8_if_string(e) for e in l ]

def escape(s):
    """Escape a URL including any /."""
    return urllib.quote(s.encode('utf-8'), safe='~')

def generate_timestamp():
    """Get seconds since epoch (UTC)."""
    return int(time.time())

def generate_nonce(length=8):
    """Generate pseudorandom number."""
    return ''.join([str(random.randint(0, 9)) for i in range(length)])

def generate_verifier(length=8):
    """Generate pseudorandom number."""
    return ''.join([str(random.randint(0, 9)) for i in range(length)])

class Consumer(object):
    """A consumer of OAuth-protected services.

```

The OAuth consumer is a "third-party" service that wants to access protected resources from an OAuth service provider on behalf of an end user. It's kind of the OAuth client.

Usually a consumer must be registered with the service provider by the developer of the consumer software. As part of that process, the service provider gives the consumer a *key* and a *secret* with which the consumer software can identify itself to the service. The consumer will include its key in each request to identify itself, but will use its secret only when signing requests, to prove that the request is from that particular registered consumer.

Once registered, the consumer can then use its consumer credentials to ask the service provider for a request token, kicking off the OAuth authorization process.

```
"""
```

```
key = None  
secret = None
```

```
def __init__(self, key, secret):
```

```
    self.key = key  
    self.secret = secret
```

```
    if self.key is None or self.secret is None:  
        raise ValueError("Key and secret must be set.")
```

```
def __str__(self):
```

```
    data = {'oauth_consumer_key': self.key,  
           'oauth_consumer_secret': self.secret}
```

```
    return urllib.urlencode(data)
```

```
class Token(object):
```

```
    """An OAuth credential used to request authorization or a protected  
    resource.
```

Tokens in OAuth comprise a *key* and a *secret*. The key is included in requests to identify the token being used, but the secret is used only in the signature, to prove that the requester is who the server gave the token to.

When first negotiating the authorization, the consumer asks for a *request token* that the live user authorizes with the service provider. The consumer then exchanges the request token for an *access token* that can be used to access protected resources.

```
"""
```

```
key = None  
secret = None  
callback = None  
callback_confirmed = None  
verifier = None
```

```
def __init__(self, key, secret):
```

```
    self.key = key  
    self.secret = secret
```

```
    if self.key is None or self.secret is None:
```

```

    raise ValueError("Key and secret must be set.")

def set_callback(self, callback):
    self.callback = callback
    self.callback_confirmed = 'true'

def set_verifier(self, verifier=None):
    if verifier is not None:
        self.verifier = verifier
    else:
        self.verifier = generate_verifier()

def get_callback_url(self):
    if self.callback and self.verifier:
        # Append the oauth_verifier.
        parts = urlparse.urlparse(self.callback)
        scheme, netloc, path, params, query, fragment = parts[:6]
        if query:
            query = '%s&oauth_verifier=%s' % (query, self.verifier)
        else:
            query = 'oauth_verifier=%s' % self.verifier
        return urlparse.urlunparse((scheme, netloc, path, params,
            query, fragment))
    return self.callback

def to_string(self):
    """Returns this token as a plain string, suitable for storage.

    The resulting string includes the token's secret, so you should never
    send or store this string where a third party can read it.
    """

    data = {
        'oauth_token': self.key,
        'oauth_token_secret': self.secret,
    }

    if self.callback_confirmed is not None:
        data['oauth_callback_confirmed'] = self.callback_confirmed
    return urllib.urlencode(data)

@staticmethod
def from_string(s):
    """Deserializes a token from a string like one returned by
    'to_string()'."""

    if not len(s):
        raise ValueError("Invalid parameter string.")

```



```

params = parse_qs(s, keep_blank_values=False)
if not len(params):
    raise ValueError("Invalid parameter string.")

try:
    key = params['oauth_token'][0]
except Exception:
    raise ValueError("'oauth_token' not found in OAuth request.")

try:
    secret = params['oauth_token_secret'][0]
except Exception:
    raise ValueError("'oauth_token_secret' not found in "
        "OAuth request.")

token = Token(key, secret)
try:
    token.callback_confirmed = params['oauth_callback_confirmed'][0]
except KeyError:
    pass # 1.0, no callback confirmed.
return token

def __str__(self):
    return self.to_string()

def setter(attr):
    name = attr.__name__

def getter(self):
    try:
        return self.__dict__[name]
    except KeyError:
        raise AttributeError(name)

def deleter(self):
    del self.__dict__[name]

return property(getter, attr, deleter)

class Request(dict):

    """The parameters and information for an HTTP request, suitable for
    authorizing with OAuth credentials.

    When a consumer wants to access a service's protected resources, it does

```

so using a signed HTTP request identifying itself (the consumer) with its key, and providing an access token authorized by the end user to access those resources.

```
"""
```

```
version = OAUTH_VERSION
```

```
def __init__(self, method=HTTP_METHOD, url=None, parameters=None,
             body="", is_form_encoded=False):
    if url is not None:
        self.url = to_unicode(url)
    self.method = method
    if parameters is not None:
        for k, v in parameters.iteritems():
            k = to_unicode(k)
            v = to_unicode_optional_iterator(v)
            self[k] = v
    self.body = body
    self.is_form_encoded = is_form_encoded
```

```
@setter
```

```
def url(self, value):
    self.__dict__['url'] = value
    if value is not None:
        scheme, netloc, path, params, query, fragment = urlparse.urlparse(value)

        # Exclude default port numbers.
        if scheme == 'http' and netloc[-3:] == ':80':
            netloc = netloc[:-3]
        elif scheme == 'https' and netloc[-4:] == ':443':
            netloc = netloc[:-4]
        if scheme not in ('http', 'https'):
            raise ValueError("Unsupported URL %s (%s)." % (value, scheme))

        # Normalized URL excludes params, query, and fragment.
        self.normalized_url = urlparse.urlunparse((scheme, netloc, path, None, None, None))
    else:
        self.normalized_url = None
        self.__dict__['url'] = None
```

```
@setter
```

```
def method(self, value):
    self.__dict__['method'] = value.upper()

def _get_timestamp_nonce(self):
    return self['oauth_timestamp'], self['oauth_nonce']
```

```

def get_nonoauth_parameters(self):
    """Get any non-OAuth parameters."""
    return dict([(k, v) for k, v in self.iteritems()
                 if not k.startswith('oauth_')])

def to_header(self, realm=""):
    """Serialize as a header for an HTTPAuth request."""
    oauth_params = ((k, v) for k, v in self.items()
                   if k.startswith('oauth_'))
    stringy_params = ((k, escape(str(v))) for k, v in oauth_params)
    header_params = ("%s=\"%s\"" % (k, v) for k, v in stringy_params)
    params_header = ', '.join(header_params)

    auth_header = 'OAuth realm=\"%s\" % realm
    if params_header:
        auth_header = "%s, %s" % (auth_header, params_header)

    return {'Authorization': auth_header}

def to_postdata(self):
    """Serialize as post data for a POST request."""
    d = {}
    for k, v in self.iteritems():
        d[k.encode('utf-8')] = to_utf8_optional_iterator(v)

    # tell urlencode to deal with sequence values and map them correctly
    # to resulting querystring. for example self["k"] = ["v1", "v2"] will
    # result in 'k=v1&k=v2' and not k=%5B%27v1%27%2C+%27v2%27%5D
    return urllib.urlencode(d, True).replace('+', '%20')

def to_url(self):
    """Serialize as a URL for a GET request."""
    base_url = urlparse.urlparse(self.url)
    try:
        query = base_url.query
    except AttributeError:
        # must be python <2.5
        query = base_url[4]
    query = parse_qs(query)
    for k, v in self.items():
        query.setdefault(k, []).append(v)

    try:
        scheme = base_url.scheme
        netloc = base_url.netloc
        path = base_url.path
        params = base_url.params

```

```

        fragment = base_url.fragment
    except AttributeError:
        # must be python <2.5
        scheme = base_url[0]
        netloc = base_url[1]
        path = base_url[2]
        params = base_url[3]
        fragment = base_url[5]

    url = (scheme, netloc, path, params,
          urllib.urlencode(query, True), fragment)
    return urlparse.urlunparse(url)

def get_parameter(self, parameter):
    ret = self.get(parameter)
    if ret is None:
        raise Error('Parameter not found: %s' % parameter)

    return ret

def get_normalized_parameters(self):
    """Return a string that contains the parameters that must be signed."""
    items = []
    for key, value in self.iteritems():
        if key == 'oauth_signature':
            continue
        # 1.0a/9.1.1 states that kvp must be sorted by key, then by value,
        # so we unpack sequence values into multiple items for sorting.
        if isinstance(value, basestring):
            items.append((to_utf8_if_string(key), to_utf8(value)))
        else:
            try:
                value = list(value)
            except TypeError, e:
                assert 'is not iterable' in str(e)
                items.append((to_utf8_if_string(key), to_utf8_if_string(value)))
            else:
                items.extend((to_utf8_if_string(key), to_utf8_if_string(item)) for item in value)

    # Include any query string parameters from the provided URL
    query = urlparse.urlparse(self.url)[4]

    url_items = self._split_url_string(query).items()
    url_items = [(to_utf8(k), to_utf8(v)) for k, v in url_items if k != 'oauth_signature']
    items.extend(url_items)

    items.sort()
    encoded_str = urllib.urlencode(items)

```

```

# Encode signature parameters per OAuth Core 1.0 protocol
# spec draft 7, section 3.6
# (http://tools.ietf.org/html/draft-hammer-oauth-07#section-3.6)
# Spaces must be encoded with "%20" instead of "+"
return encoded_str.replace('+', '%20').replace('%7E', '~')

def sign_request(self, signature_method, consumer, token):
    """Set the signature parameter to the result of sign."""

    if not self.is_form_encoded:
        # according to
        # http://oauth.googlecode.com/svn/spec/ext/body_hash/1.0/oauth-bodyhash.html
        # section 4.1.1 "OAuth Consumers MUST NOT include an
        # oauth_body_hash parameter on requests with form-encoded
        # request bodies."
        self['oauth_body_hash'] = base64.b64encode(sha(self.body).digest())

    if 'oauth_consumer_key' not in self:
        self['oauth_consumer_key'] = consumer.key

    if token and 'oauth_token' not in self:
        self['oauth_token'] = token.key

    self['oauth_signature_method'] = signature_method.name
    self['oauth_signature'] = signature_method.sign(self, consumer, token)

    @classmethod
    def make_timestamp(cls):
        """Get seconds since epoch (UTC)."""
        return str(int(time.time()))

    @classmethod
    def make_nonce(cls):
        """Generate pseudorandom number."""
        return str(random.randint(0, 100000000))

    @classmethod
    def from_request(cls, http_method, http_url, headers=None, parameters=None,
                    query_string=None):
        """Combines multiple parameter sources."""
        if parameters is None:
            parameters = {}

        # Headers
        if headers and 'Authorization' in headers:
            auth_header = headers['Authorization']
            # Check that the authorization header is OAuth.
            if auth_header[:6] == 'OAuth ':

```

```

    auth_header = auth_header[6:]
    try:
        # Get the parameters from the header.
        header_params = cls._split_header(auth_header)
        parameters.update(header_params)
    except:
        raise Error('Unable to parse OAuth parameters from '
                    'Authorization header.')

# GET or POST query string.
if query_string:
    query_params = cls._split_url_string(query_string)
    parameters.update(query_params)

# URL parameters.
param_str = urlparse.urlparse(http_url)[4] # query
url_params = cls._split_url_string(param_str)
parameters.update(url_params)

if parameters:
    return cls(http_method, http_url, parameters)

return None

@classmethod
def from_consumer_and_token(cls, consumer, token=None,
    http_method=HTTP_METHOD, http_url=None, parameters=None,
    body="", is_form_encoded=False):
    if not parameters:
        parameters = {}

    defaults = {
        'oauth_consumer_key': consumer.key,
        'oauth_timestamp': cls.make_timestamp(),
        'oauth_nonce': cls.make_nonce(),
        'oauth_version': cls.version,
    }

    defaults.update(parameters)
    parameters = defaults

    if token:
        parameters['oauth_token'] = token.key
        if token.verifier:
            parameters['oauth_verifier'] = token.verifier

    return Request(http_method, http_url, parameters, body=body,
        is_form_encoded=is_form_encoded)

```

```

@classmethod
def from_token_and_callback(cls, token, callback=None,
    http_method=HTTP_METHOD, http_url=None, parameters=None):

    if not parameters:
        parameters = {}

    parameters['oauth_token'] = token.key

    if callback:
        parameters['oauth_callback'] = callback

    return cls(http_method, http_url, parameters)

@staticmethod
def _split_header(header):
    """Turn Authorization: header into parameters."""
    params = {}
    parts = header.split(',')
    for param in parts:
        # Ignore realm parameter.
        if param.find('realm') > -1:
            continue
        # Remove whitespace.
        param = param.strip()
        # Split key-value.
        param_parts = param.split('=', 1)
        # Remove quotes and unescape the value.
        params[param_parts[0]] = urllib.unquote(param_parts[1].strip("\\"))
    return params

@staticmethod
def _split_url_string(param_str):
    """Turn URL string into parameters."""
    parameters = parse_qs(param_str.encode('utf-8'), keep_blank_values=True)
    for k, v in parameters.iteritems():
        parameters[k] = urllib.unquote(v[0])
    return parameters

class Client(httplib2.Http):
    """OAuthClient is a worker to attempt to execute a request."""

    def __init__(self, consumer, token=None, cache=None, timeout=None,
        proxy_info=None):

        if consumer is not None and not isinstance(consumer, Consumer):

```

```

        raise ValueError("Invalid consumer.")

    if token is not None and not isinstance(token, Token):
        raise ValueError("Invalid token.")

    self.consumer = consumer
    self.token = token
    self.method = SignatureMethod_HMAC_SHA1()

    httplib2.Http.__init__(self, cache=cache, timeout=timeout, proxy_info=proxy_info)

    def set_signature_method(self, method):
        if not isinstance(method, SignatureMethod):
            raise ValueError("Invalid signature method.")

        self.method = method

    def request(self, uri, method="GET", body="", headers=None,
                redirections=httplib2.DEFAULT_MAX_REDIRECTS, connection_type=None):
        DEFAULT_POST_CONTENT_TYPE = 'application/x-www-form-urlencoded'

        if not isinstance(headers, dict):
            headers = {}

        if method == "POST":
            headers['Content-Type'] = headers.get('Content-Type',
                DEFAULT_POST_CONTENT_TYPE)

        is_form_encoded = \
            headers.get('Content-Type') == 'application/x-www-form-urlencoded'

        if is_form_encoded and body:
            parameters = parse_qs(body)
        else:
            parameters = None

        req = Request.from_consumer_and_token(self.consumer,
            token=self.token, http_method=method, http_url=uri,
            parameters=parameters, body=body, is_form_encoded=is_form_encoded)

        req.sign_request(self.method, self.consumer, self.token)

        schema, rest = urllib.splittypemethod(uri)
        if rest.startswith('//'):
            hierpart = '/'
        else:
            hierpart = ""
        host, rest = urllib.splithost(rest)

```



```

realm = schema + ':' + hierpart + host

if is_form_encoded:
    body = req.to_postdata()
elif method == "GET":
    uri = req.to_url()
else:
    headers.update(req.to_header(realm=realm))

return httplib2.Http.request(self, uri, method=method, body=body,
                             headers=headers, redirections=redirections,
                             connection_type=connection_type)

```

```

class Server(object):
    """A skeletal implementation of a service provider, providing protected
    resources to requests from authorized consumers.

    This class implements the logic to check requests for authorization. You
    can use it with your web server or web framework to protect certain
    resources with OAuth.
    """

    timestamp_threshold = 300 # In seconds, five minutes.
    version = OAUTH_VERSION
    signature_methods = None

    def __init__(self, signature_methods=None):
        self.signature_methods = signature_methods or {}

    def add_signature_method(self, signature_method):
        self.signature_methods[signature_method.name] = signature_method
        return self.signature_methods

    def verify_request(self, request, consumer, token):
        """Verifies an api call and checks all the parameters."""

        self._check_version(request)
        self._check_signature(request, consumer, token)
        parameters = request.get_nonoauth_parameters()
        return parameters

    def build_authenticate_header(self, realm=""):
        """Optional support for the authenticate header."""
        return {'WWW-Authenticate': 'OAuth realm="%s"' % realm}

    def _check_version(self, request):

```

```

        """Verify the correct version of the request for this server."""
        version = self._get_version(request)
        if version and version != self.version:
            raise Error('OAuth version %s not supported.' % str(version))

def _get_version(self, request):
    """Return the version of the request for this server."""
    try:
        version = request.get_parameter('oauth_version')
    except:
        version = OAUTH_VERSION

    return version

def _get_signature_method(self, request):
    """Figure out the signature with some defaults."""
    try:
        signature_method = request.get_parameter('oauth_signature_method')
    except:
        signature_method = SIGNATURE_METHOD

    try:
        # Get the signature method object.
        signature_method = self.signature_methods[signature_method]
    except:
        signature_method_names = ', '.join(self.signature_methods.keys())
        raise Error('Signature method %s not supported try one of the following: %s' % (signature_method,
signature_method_names))

    return signature_method

def _get_verifier(self, request):
    return request.get_parameter('oauth_verifier')

def _check_signature(self, request, consumer, token):
    timestamp, nonce = request._get_timestamp_nonce()
    self._check_timestamp(timestamp)
    signature_method = self._get_signature_method(request)

    try:
        signature = request.get_parameter('oauth_signature')
    except:
        raise MissingSignature('Missing oauth_signature.')

    # Validate the signature.
    valid = signature_method.check(request, consumer, token, signature)

    if not valid:

```

```
key, base = signature_method.signing_base(request, consumer, token)
```

```
raise Error('Invalid signature. Expected signature base '  
            'string: %s' % base)
```

```
def _check_timestamp(self, timestamp):  
    """Verify that timestamp is recentish."""  
    timestamp = int(timestamp)  
    now = int(time.time())  
    lapsed = now - timestamp  
    if lapsed > self.timestamp_threshold:  
        raise Error('Expired timestamp: given %d and now %s has a '  
                    'greater difference than threshold %d' % (timestamp, now,  
                    self.timestamp_threshold))
```

```
class SignatureMethod(object):
```

```
    """A way of signing requests.
```

```
  
    The OAuth protocol lets consumers and service providers pick a way to sign  
    requests. This interface shows the methods expected by the other 'oauth'  
    modules for signing requests. Subclass it and implement its methods to  
    provide a new way to sign requests.  
    """
```

```
def signing_base(self, request, consumer, token):
```

```
    """Calculates the string that needs to be signed.
```

```
  
    This method returns a 2-tuple containing the starting key for the  
    signing and the message to be signed. The latter may be used in error  
    messages to help clients debug their software.  
    """
```

```
    """  
    raise NotImplementedError
```

```
def sign(self, request, consumer, token):
```

```
    """Returns the signature for the given request, based on the consumer  
    and token also provided.
```

```
  
    You should use your implementation of 'signing_base()' to build the  
    message to sign. Otherwise it may be less useful for debugging.  
    """
```

```
    """  
    raise NotImplementedError
```

```
def check(self, request, consumer, token, signature):
```

```
    """Returns whether the given signature is the correct signature for  
    the given consumer and token signing the given request."""
```

```

built = self.sign(request, consumer, token)
return built == signature

```

```

class SignatureMethod_HMAC_SHA1(SignatureMethod):
    name = 'HMAC-SHA1'

    def signing_base(self, request, consumer, token):
        if not hasattr(request, 'normalized_url') or request.normalized_url is None:
            raise ValueError("Base URL for request is not set.")

        sig = (
            escape(request.method),
            escape(request.normalized_url),
            escape(request.get_normalized_parameters()),
        )

        key = '%s&' % escape(consumer.secret)
        if token:
            key += escape(token.secret)
        raw = '&'.join(sig)
        return key, raw

    def sign(self, request, consumer, token):
        """Builds the base signature string."""
        key, raw = self.signing_base(request, consumer, token)

        hashed = hmac.new(key, raw, sha)

        # Calculate the digest base 64.
        return binascii.b2a_base64(hashed.digest())[:-1]

```

```

class SignatureMethod_PLAINTEXT(SignatureMethod):

    name = 'PLAINTEXT'

    def signing_base(self, request, consumer, token):
        """Concatenates the consumer key and secret with the token's
        secret."""
        sig = '%s&' % escape(consumer.secret)
        if token:
            sig = sig + escape(token.secret)
        return sig, sig

    def sign(self, request, consumer, token):
        key, raw = self.signing_base(request, consumer, token)
        return raw

```

# 1.75 pytz 2012g

## 1.75.1 Available under license :

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## 1.78 pyzmq 2.2.0.1

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/\*

\* compare.c --- compare whether or not two UUIDs are the same

\*

\* Returns 0 if the two UUIDs are different, and 1 if they are the same.

\*

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\*

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## 1.80 pyzmq\_zmq\_core 2.2.0.1

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files split from toms/big644 on 1 Dec 1987 (already public)

-----m dongarra Fri Jun 21 17:58:49 EDT 1991

Subject: amos

As I install the new dependency resolution mechanism for netlib, I'm recompiling lots of libraries, sometimes for the first time in years.

The amos collection is causing me trouble because it defines a function zabs() which the SGI compiler believes is an intrinsic (with different arguments). For expediency, I'm just dropping the "-l" prefix from amos in /netlib/admin/LIBS.

weave is distributed under the same license as SciPy which uses a BSD Style license. weave includes blitz++ by Todd Veldhuizen who kindly granted us permission to use blitz++ with the regular SciPy license (i.e., the revised BSD license). For more details see the email exchange below:

-----  
Todd Veldhuizen <tveldhui AT gmail DOT com> Tue, Mar 25, 2008 at 11:55 AM  
To: Jarrod Millman <millman AT berkeley DOT edu>  
Cc: Julian Cummings <cummings AT cacr DOT caltech DOT edu>, Todd Veldhuizen <tveldhui AT acm DOT org>

I have no objections to releasing it under a BSD license.

best

Todd

On 21/03/2008, Jarrod Millman <millman AT berkeley DOT edu> wrote:

> Julian and Todd,

>

> I'm writing to see if we can get an exception to the Blitz license so  
> that it can be released with a BSD license within SciPy. Currently,  
> the Fedora project is classifying the entire SciPy package as GPLed  
> because one package, scipy.weave, uses blitz. (the rest of the code is  
> all BSD). We were about to launch into the re-factoring step to make  
> the blitz portion optional, when it occurred to us to just ask you  
> guys first. :-)

>

> Blitz is included in the scipy.weave package which allows you to  
> inline C/C++ within Python. Users have the option of converting NumPy  
> arrays to blitz arrays for use in C++. There is also a function  
> (weave.blitz) that will automatically convert NumPy expressions in  
> Python to Blitz expressions in C++. Often this shows notable speed  
> improvements. Our re-factoring step will require us to split the  
> blitz code into the blitz and non-blitz portions. This is a bit of a  
> pain, and ends up with more installation issues than if we didn't do

> it.  
>  
> Thanks for your consideration,  
>  
> --  
> Jarrod Millman  
> Computational Infrastructure for Research Labs  
> 10 Giannini Hall, UC Berkeley  
> phone: 510.643.4014  
> <http://cirl.berkeley.edu/>

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## 1.88 sec\_wall 1.2

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## 1.94 SquareMap 1.0.1

### 1.94.1 Available under license :

Metadata-Version: 1.0

Name: SquareMap

Version: 1.0.1

Summary: Hierarchic data-visualisation control for wxPython

Home-page: <https://launchpad.net/squaremap>

Author: Mike C. Fletcher

Author-email: [mcfletch@vrplumber.com](mailto:mcfletch@vrplumber.com)

License: BSD

Description: Hierarchic visualization control for wxPython

Hierarchic data visualization control intended for use with structures where "parents" hold collections of weighted children.

Can be used for viewing sizes of directories on file-systems, running-time of functions in profiling, or time spent on tasks in a time-tracking application.

Keywords: wxPython,squaremap

Platform: Any

Classifier: License :: OSI Approved :: BSD License

Classifier: Programming Language :: Python

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

Classifier: Intended Audience :: Developers

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## 1.95 suds 0.4

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Version 3, 29 June 2007

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## 1.96 textable 0.8.1

### 1.96.1 Available under license :

```
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#
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tomb - support for clean goroutine termination in Go.

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## 1.104 zookeeper 3.4.6

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// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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