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History

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.

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

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1.2 blinker 1.3

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The Boost Graph Library "Artistic License"

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]

The following people hereby grant permission to replace all existing licenses on their contributions to Boost with the Boost Software License, Version 1.0. (boostinspect:nolicense boostinspect:nocopyright)

Aleksey Gurtovoy (agurtovoy@meta-comm.com)

Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM EST)

Andrew Lumsdaine ()

Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)

Beman Dawes (bdawes@acm.org)

Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)

Brian Osman (osman -at- vvisions.com) (See CVS log)

Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)

Bruno da Silva de Oliveira (bruno - at - esss.com.br)

Christain Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49 +0200)

Cromwell D Enage (sponage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)

Dan Gohman (djg -at- cray.com) (See Boost list message of Sat, 21 Aug 2004 10:54:59 +0100)

Dan Nuffer (dan -at- nuffer.name)

Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)

Daniel Nuffer (dan -at- nuffer.name)

Darin Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change log)

Daryle Walker (darylew - at - hotmail.com)

Dave Abrahams (dave@boost-consulting.com)

Dave Moore (dmoore -at- viefinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)

David Abrahams (dave@boost-consulting.com)

Dietmar Kuehl (dietmar_kuehl -at- yahoo.com) (Email to Andreas Huber, see change log)

Douglas Gregor (gregod -at- cs.rpi.edu, dgregor -at- cs.indiana.edu, doug.gregor -at- gmail.com)

Dr John Maddock (john - at - johnmaddock.co.uk)

Edward D. Brey (brey -at- ductape.net) (Email to Andreas Huber, see change log)

Eric Ford (un5o6n902 -at- sneakemail.com) (See Boost list message of Sun, 15 Aug 2004 10:29:13 +0100)

Eric Friedman (ebf@users.sourceforge.net)

Eric Niebler (eric@boost-consulting.com)

Fernando Cacciola (fernando_cacciola@ciudad.com.ar)

Fernando Luis Cacciola Carballal (fernando_cacciola@ciudad.com.ar)

Francois Faure (Francois.Faure -at- imag.fr) (See CVS log)

Gary Powell (powellg - at - amazon.com) (See Boost list message of 10 Feb 2004 14:22:46 -0800)

Gennadiy Rozental (rogeeff -at- mail.com) (Email to Andreas Huber, see change log)

Gottfried Ganssaue (Gottfried.Ganssaue -at- HAUF.DE) (See Boost List message of Mon, 16 Aug 2004 10:09:19 +0200)

Gottfried Ganaue (Gottfried.Ganssaue -at- HAUF.DE) (Alternative spelling of Gottfried Ganssaue)

Greg Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)

Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)

Gunter Winkler (gunter.winkler -at- unibw-muenchen.de) (See Boost List message of Mon, 16 Aug 2004 10:24:17 +0200)

Hartmut Kaiser (hartmut.kaiser -at- gmail.com)

Herve Bronnimann (hbr -at- poly.edu)

Herv Brnnimann (hbr -at- poly.edu)

Housemarque Oy (Ilari Kuittinen ilari.kuittinen -at- housemarque.fi)

Howard Hinnant (hinnant -at- twcnv.rr.com) (See Boost list message of July 25, 2004 3:44:49 PM EST)

Hubert Holin (hubert_holin -at- users.sourceforge.net)

Indiana University ()

Itay Maman (imaman -at- users.sourceforge.net)

Jaakko Jrv (jajarvi -at- osl.iu.edu)

Jaap Suter (j.suter -at- student.utwente.nl) (See Boost list message of Thu, 16 Sep 2004 09:32:43 -0700)

Jeff Garland (jeff - at - crystalclearsoftware.com) (see Boost list post of July 25, 2004 19:31:09 -0700)

Jens Maurer (Jens.Maurer@gmx.net)

Jeremy G Siek (jsiek@osl.iu.edu)

Jeremy Siek (jsiek@osl.iu.edu)

Joel de Guzman (joel -at- boost-consulting.com) (See Boost list message of July 25, 2004 8:32:00 PM EST)

John Bandela (jbandela-at-ufl.edu)
John Maddock (john - at - johnmaddock.co.uk)
John R Bandela (jbandela-at-ufl.edu)
Jonathan Turkanis (turkanis -at- coderage dot com)
Juergen Hunold (hunold -at- ive.uni-hannover.de) (See Boost List Message of Fri, 13 Aug 2004 19:39:55 +0200)
Kevlin Henney (kevin -at- curbralan.com) (See Boost list message of Wed, 15 Sep 2004 18:15:17 +0200)
Kresimir Fresl (fresl -at- master.grad.hr) (See Boost List message of August 16, 2004 8:23:35 AM EST)
Lars Gullik Bijnnes (larsbj -at- lyx.org) (See Boost list message of Tue, 17 Aug 2004 15:49:02 +0100)
Lie-Quan Lee (liequan - at - slac.stanford.edu, llee - at - cs.indiana.edu)
Maarten Keijzer (mkeijzer -at- cs.vu.nl) (See Boost list message of Wed, 18 Aug 2004 21:43:18 +0100)
Mac Murrett (mmurrett -at- mac.com)
Marc Wintermantel (wintermantel -at- imes.mavt.ethz.ch, wintermantel -at- even-ag.ch) (See CVS log)
Michael Glassford (glassfordm - at - hotmail.com)
Michael Stevens (Michael.Stevens - at - epost.de)
Multi Media Ltd. (pdimov@mmltd.net)
Nicolai M Josuttis (solutions -at- josuttis.com) (See Boost list message of Mon, 30 Aug 2004 10:52:00 +0100)
Nikolay Mladenov (nickm -at- sitius.com) (See Boost list message of Tue, 17 Aug 2004 15:45:33 +0100)
Paul Mensonides (pmenso57 -at- comcast.net) (See Boost list message of July 21, 2004 1:12:21 AM EST)
Pavol Droba (droba -at- topmail.sk)
Peter Dimov (pdimov@mmltd.net)
R W Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Ralf W. Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Rational Discovery LLC (Greg Landrum Landrum -at- RationalDiscovery.com) (See Boost list post of Tue, 17 Aug 2004 10:35:36 +0100)
Rene Rivera (grafik/redshift-software.com, rrivera/acm.org)
Robert Ramey (ramey@www.rrsd.com)
Roland Richter (roland -at- flll.jku.at) (See Boost list post of Mon, 16 Aug 2004 22:16:55 +0200)
Roland Schwarz (roland.schwarz -at- chello.at)
Ronald Garcia (garcia -at- cs.indiana.edu) (Email to Andreas Huber, see change log)
Samuel Krempp (krempp -at- crans.ens-cachan.fr) (See Boost list message of Mon, 27 Sep 2004 13:18:36 +0200)
Stefan Seefeld (seefeld -at- sympatico.ca)
Stephen Cleary (scleary -at- jerviswebb.com) (See Boost list message of Tue, 28 Sep 2004 13:11:46 +0100)
Steve Cleary (Variant of Stephen Cleary)
Sylvain Pion (Sylvain.Pion - at - sophia.inria.fr)
The Trustees of Indiana University ()
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Thorsten Jrgen Ottosen (nesotto - at - cs.auc.dk)
Thorsten Ottosen (nesotto - at - cs.auc.dk)
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1.6 colorlog 0.6.0

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1.7 coverage 3.5.1

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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

License: BSD

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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 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
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 */
# `echo "$ofile" | sed 's%^.*%%` - Provide generalized library-building support services.
# Generated automatically by $PROGRAM (GNU $PACKAGE $VERSION$TIMESTAMP)
```

```
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1.25 gcc_libgcc 4.4.7

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1.27 gevent 0.13.8

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1.30 GreenletProfiler 0.1

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1.31 gunicorn 18.0

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doc/sitemap_gen.py

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backport from python3 Lib/test/support.py

1.32 httplib2 0.7.1

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Largely based on showdown.js by John Fraser (Attacklab).

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1.36 jsmin 2.0.2

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1.37 jsonschema 2.0.0

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1.38 lapack 3.5.0

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1.39 libcpp 4.4.7

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/*

* hash.c: chained hash tables

*

* Reference: Your favorite introductory book on algorithms

*

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* Author: breese@users.sourceforge.net

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/*

* list.c: lists handling implementation

*

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1.44 Ixml 3.0.1

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1.45 lxml/test.py 3.0.1

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1.46 metis 5.1.0

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Written by: Philip Hazel
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A light-weight compression algorithm. It is designed for speed of compression and decompression, rather than for the utmost in space savings.

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

University of Cambridge Computing Service,
Cambridge, England.

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Written by: Zoltan Herczeg
Email local part: hzmester
Email domain: freemail.hu

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THE BASIC LIBRARY FUNCTIONS

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Email local part: ph10
Email domain: cam.ac.uk

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1.48 mongoengine 0.8.4

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The PRIMARY AUTHORS are (and/or have been):

Ross Lawley <ross.lawley@gmail.com>

Harry Marr <harry@hmarr.com>

Matt Dennewitz <mattdennewitz@gmail.com>

Deepak Thukral <iapain@yahoo.com>

Florian Schlachter <flori@n-schlachter.de>

Steve Challis <steve@stevechallis.com>

Wilson Júnior <wilsonpjuniior@gmail.com>

Dan Crosta <https://github.com/dcrosta>

Laine Herron <https://github.com/LaineHerron>

CONTRIBUTORS

Derived from the git logs, inevitably incomplete but all of whom and others have submitted patches, reported bugs and generally helped make MongoEngine that much better:

* blackbrrr

* Florian Schlachter

- * Vincent Driessen
- * Steve Challis
- * flosch
- * Deepak Thukral
- * Colin Howe
- * Wilson Júnior (<https://github.com/wpjunior>)
- * Alistair Roche
- * Dan Crosta
- * Viktor Kerkez
- * Stephan Jaekel
- * Rached Ben Mustapha
- * Greg Turner
- * Daniel Hasselrot
- * Mircea Pasoi
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- * James Puntenev
- * TimothéePeignier
- * Stuart Rackham
- * Serge Matveenko
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- * martin
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- * Zak Johnson
- * Victor Farazdagi
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- * Richard Henry
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- * Nick Vlku Jr
- * Michael Henson
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- * Igor Ivanov
- * Gregg Lind
- * Gareth Lloyd
- * Albert Choi

- * John Arnfield
- * grubberr
- * Paul Aliagas
- * Paul Cunnane
- * Julien Rebetez
- * Marc Tamlyn
- * Karim Allah
- * Adam Parrish
- * jpfarias
- * jonrscott
- * Alice Zoë Bevan-McGregor (<https://github.com/amcgregor/>)
- * Stephen Young
- * tkloc
- * aid
- * yamaneko1212
- * dave mankoff
- * Alexander G. Morano
- * jwilder
- * Joe Shaw
- * Adam Flynn
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- * Jan Schrewe
- * David Koblas
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- * Alvin Liang
- * andrewmlevy
- * Chris Faulkner
- * Ashwin Purohit
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- * Chris Williams
- * Robert Kajic
- * Jacob Peddicord
- * Nils Hasenbanck
- * mostlystatic
- * Greg Banks
- * swashbuckler
- * Adam Reeve
- * Anthony Nemitz
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- * Peter Landry
- * biszkoptwielki
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- * Stefan Wójcik
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- * Garry Polley
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- * Yohan Graterol
- * bool-dev
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- * Paul Swartz
- * Sundar Raman
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- * Marcelo Anton
- * Aleksey Porfirov
- * Nicolas Trippar
- * Manuel Hermann
- * Gustavo Gawryszewski
- * Max Countryman
- * caitifbrito
- * lcy86 刘春洋
- * Martin Alderete (<https://github.com/malderete>)
- * Nick Joyce
- * Jared Forsyth
- * Kenneth Falck
- * Lukasz Balcerzak
- * Nicolas Cortot
- * Alex (<https://github.com/kelsta>)
- * Jin Zhang
- * Daniel Axtens
- * Leo-Naeka
- * Ryan Witt (<https://github.com/ryanwitt>)
- * Jiequan (<https://github.com/Jiequan>)

- * hensom (<https://github.com/hensom>)
- * zhy0216 (<https://github.com/zhy0216>)
- * istinspring (<https://github.com/istinspring>)
- * Massimo Santini (<https://github.com/mapio>)
- * Nigel McNie (<https://github.com/nigelmcnie>)
- * ygbourhis (<https://github.com/ygbourhis>)
- * Bob Dickinson (<https://github.com/BobDickinson>)
- * Michael Barnett (<https://github.com/michaelbartnett>)
- * Alon Horev (<https://github.com/alonho>)
- * Kelvin Hammond (<https://github.com/kelvinhammond>)
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- * Paul Uithol (<https://github.com/PaulUithol>)
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- * Paul (<https://github.com/squamous>)
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Aric Hagberg <hagberg@lanl.gov>

Dan Schult <dschult@colgate.edu>

Pieter Swart <swart@lanl.gov>

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1.53 numpy 1.8.0

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1.55 openldap 2.4.40

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1.56 pandas 0.12.0

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1.60 pcre 8.32

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1.61 plumbum 1.4.2

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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

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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Details and examples:

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1.65 pyasn1 0.1.6

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1.66 pycrypto 2.6

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3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).
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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 (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 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 |
| 2.1.2 | 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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Major developers are Tim Hatch <tim@timhatch.com> and Armin Ronacher <armin.ronacher@active-4.com>.

Other contributors, listed alphabetically, are:

- \* Sam Aaron -- Ioke lexer
- \* Kumar Appaiah -- Debian control lexer
- \* Ali Afshar -- image formatter
- \* Andreas Amann -- AppleScript lexer
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## 1.70 pyproj 1.9.2

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# 1.72 python-dateutil 2.1

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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)

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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.).

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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 (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:

(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.

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

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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(hashlib.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

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# 1.78 pyzmq 2.2.0.1

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## 1.79 pyzmq\_bundled\_zeromq 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

### 1.80.1 Available under license :

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Version 3, 29 June 2007

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## 1.82 redis 2.6 :14

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-----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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C.B. Barber  
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## 1.88 sec\_wall 1.2

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# 1.89 shapely 1.2.17

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## 1.91 SparkMD5 Unspecified

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<https://github.com/satazor/SparkMD5/blob/master/LICENSE>

## 1.92 Spyne 2.12.11

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Version 2.1, February 1999

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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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## 1.96 texttable 0.8.1

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```
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#
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# Copyright (C) 2003-2011 Jerome Fournier <jef(at)foutaise.org>
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```

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-----

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-----

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Anatoly Techtonik  
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## 1.104 xmldict 0.8.3

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