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#### **pycrypto**

A collection of both secure hash functions (such as SHA256 and RIPEMD160), and various encryption algorithms (AES, DES, RSA, ElGamal, etc.).

#### **openssl**

The OpenSSL Project is a collaborative effort to develop a robust, commercial-grade, full-featured, and Open Source toolkit implementing the Transport Layer Security (TLS) and Secure Sockets Layer (SSL) protocols as well as a full-strength general purpose cryptography library.

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## Astor – AST observer/rewrite

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/README.rst:

=====

astor -- AST observe/rewrite

=====

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## backports.weakref

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=====

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

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

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

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

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

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

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http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=
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Home-page: <https://github.com/tomxtobin/dis3>

Author: Tom X. Tobin

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The backported `super()` and `range()` functions are derived from Ryan Kelly's `magicsuper` module and Dan Crosta's `xrange` module.

The `futurize` and `pasteurize` scripts use `lib2to3`, `lib3to2`, and parts of Armin Ronacher's `python-modernize` code.

The `python_2_unicode_compatible` decorator is from Django. The `implements_iterator` and `with_metaclass` decorators are from Jinja2.

The `exec_` function and some others in `future.utils` are from the `six` module by Benjamin Peterson.

The `raise_` and `raise_with_traceback` functions were contributed by Jeff Tratner.

A working version of `raise_from` was contributed by Varriount (GitHub).

Documentation is generated with Sphinx using the `sphinx-bootstrap` theme.

`past.translation` is inspired by and borrows some code from Sanjay Vinip's `uprefix` module.

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Chris Colbert began the Kiwi project in December 2013 in an effort to create a blisteringly fast UI constraint solver. Chris is still the project lead.

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ddt

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```
:: From https://github.com/ogrisel/python-appveyor-demo
::
:: To build extensions for 64 bit Python 3, we need to configure environment
:: variables to use the MSVC 2010 C++ compilers from GRMSDKX_EN_DVD.iso of:
:: MS Windows SDK for Windows 7 and .NET Framework 4 (SDK v7.1)
::
:: To build extensions for 64 bit Python 2, we need to configure environment
:: variables to use the MSVC 2008 C++ compilers from GRMSDKX_EN_DVD.iso of:
:: MS Windows SDK for Windows 7 and .NET Framework 3.5 (SDK v7.0)
::
:: 32 bit builds, and 64-bit builds for 3.5 and beyond, do not require specific
:: environment configurations.
::
:: Note: this script needs to be run with the /E:ON and /V:ON flags for the
:: cmd interpreter, at least for (SDK v7.0)
::
:: More details at:
:: https://github.com/cython/cython/wiki/64BitCythonExtensionsOnWindows
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```
The Versioneer
=====
```

```
* like a rocketeer, but for versions!
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* Brian Warner
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```

```
[...]
```

```
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To make Versioneer easier to embed, all its code is hereby released into the public domain. The `_version.py` that it creates is also in the public domain.
```

#### **/numba/\_hashtable.c:**

```
/* The implementation of the hash table (_Numba_hashtable_t) is based on the cfuhash project:
```

```
http://sourceforge.net/projects/libcfu/
```

```
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```

```
-----
```

Creation date: 2005-06-24 21:22:40

Authors: Don

Change log:

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```

/apps/speed.c:

/crypto/bn/bn.h:

/crypto/bn/bntest.c:

```
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 */
```

/apps/vms\_term\_sock.h:

/crypto/aes/asm/aes-586.pl:

```
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 */
```

/crypto/aes/asm/aesarmv4.pl:

/crypto/aes/asm/aes-mips.pl:

/crypto/aes/asm/aesni-mb-x86\_64.pl:

/crypto/aes/asm/aesni-sha1-x86\_64.pl

/crypto/aes/asm/aesni-sha256-x86\_64.pl

/crypto/aes/asm/aesni-x86\_64.pl

/crypto/aes/asm/aesni-x86.pl

/crypto/aes/asm/aesp8-ppc.pl

/crypto/aes/asm/aes-parisc.pl

/crypto/aes/asm/aes-ppc.pl

/crypto/aes/asm/aes-s390x.pl

/crypto/aes/asm/aesv8-armx.pl

/crypto/aes/asm/aes-x86\_64.pl  
/crypto/bn/asm/alpha-mont.pl  
/crypto/bn/asm/armv4-gf2m.pl  
/crypto/bn/asm/armv4-mont.pl  
/crypto/bn/asm/ia64-mont.pl  
/crypto/bn/asm/mips3-mont.pl  
/crypto/bn/asm/mips-mont.pl  
/crypto/bn/asm/parisc-mont.pl  
/crypto/bn/asm/ppc64-mont.pl  
/crypto/bn/asm/ppc-mont.pl  
/crypto/bn/asm/ppc-mont.pl  
/crypto/bn/asm/s390x-gf2m.pl  
/crypto/bn/asm/s390x-mont.pl  
/crypto/bn/asm/sparcv9a-mont.pl  
/crypto/bn/asm/sparcv9-gf2m.pl  
/crypto/bn/asm/sparcv9-mont.pl  
/crypto/bn/asm/via-mont.pl  
/crypto/bn/asm/vis3-mont.pl  
/crypto/bn/asm/x86\_64-gf2m.pl  
/crypto/bn/asm/x86\_64-mont5.pl  
/crypto/bn/asm/x86\_64-mont.pl  
/crypto/bn/asm/x86-gf2m.pl  
/crypto/bn/asm/x86-mont.pl:  
/crypto/modes/asm/aesni-gcm-x86\_64.pl  
/crypto/modes/asm/ghash-alpha.pl  
/crypto/modes/asm/ghash-armv4.pl  
/crypto/modes/asm/ghash-ia64.pl  
/crypto/modes/asm/ghashp8-ppc.pl  
/crypto/modes/asm/ghash-parisc.pl  
/crypto/modes/asm/ghash-s390x.pl  
/crypto/modes/asm/ghash-sparcv9.pl  
/crypto/modes/asm/ghashv8-armx.pl  
/crypto/modes/asm/ghash-x86\_64.pl  
/crypto/modes/asm/ghash-x86.pl  
/crypto/rc4/asm/rc4-586.pl  
/crypto/rc4/asm/rc4-md5-x86\_64.pl  
/crypto/rc4/asm/rc4-parisc.pl  
/crypto/rc4/asm/rc4-s390x.pl  
/crypto/rc4/asm/rc4-x86\_64.pl  
/crypto/sha/asm/sha1-586.pl

```
/crypto/sha/asm/sha1-alpha.pl
/crypto/sha/asm/sha1-armv4-large.pl
/crypto/sha/asm/sha1-armv8.pl:
/crypto/sha/asm/sha1-ia64.pl:
/crypto/sha/asm/sha1-mb-x86_64.pl:
/crypto/sha/asm/sha1-mips.pl:
/crypto/sha/asm/sha1-parisc.pl:
/crypto/sha/asm/sha1-ppc.pl:
/crypto/sha/asm/sha1-s390x.pl:
/crypto/sha/asm/sha1-sparcv9a.pl:
/crypto/sha/asm/sha1-thumb.pl
/crypto/sha/asm/sha1-x86_64.pl
/crypto/sha/asm/sha256-586.pl:
crypto/sha/asm/sha256-mb-x86_64.pl
/crypto/sha/asm/sha512-586.pl
/crypto/sha/asm/sha512-armv4.pl
/crypto/sha/asm/sha512-armv8.pl
/crypto/sha/asm/sha512-ia64.pl
/crypto/sha/asm/sha512-mips.pl
/crypto/sha/asm/sha512p8-ppc.pl
/crypto/sha/asm/sha512-parisc.pl
/crypto/sha/asm/sha512-ppc.pl
/crypto/sha/asm/sha512-s390x.pl
```

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```

```
/crypto/aes/asm/aes-ia64.S:
/crypto/aes/asm/aes-sparcv9.pl
```

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```
/crypto/aes/asm/aest4-sparcv9.pl
```

```

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/crypto/aes/asm/bsaes-armv7.pl:
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# =====

/crypto/bn/asm/ia64.S
/crypto/bn/asm/mips3.s
/crypto/bn/asm/mips.pl
/crypto/bn/asm/s390x.S
/crypto/bn/asm/sparcv8plus.S
/crypto/bn/asm/sparcv8.S
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/crypto/bn/asm/sparct4-mont.pl
/crypto/camellia/asm/cmllt4-sparcv9.pl
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```

/crypto/des/asm/dest4-sparcv9.pl

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```

/crypto/ec/asm/ecp\_nistz256-avx2.pl:

/crypto/ec/asm/ecp\_nistz256-x86\_64.pl:

/crypto/ec/ecp\_nistz256.c:

```
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/crypto/md5/asm/md5-sparcv9.pl:

/crypto/sha/asm/sha1-sparcv9.pl:

/crypto/sha/asm/sha512-sparcv9.pl:

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/crypto/sha/asm/sha256-armv4.pl

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/crypto/sha/asm/sha512-x86\_64.pl:

/crypto/whrlpool/asm/wp-mmx.pl:

/crypto/whrlpool/asm/wp-x86\_64.pl:

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```
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/crypto/camellia/cml\_lcl.h

```
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/engines/ccgost/gost2001_keyx.c
/engines/ccgost/gost89.c
/engines/ccgost/gost89.h
/engines/ccgost/gost94_keyx.c
/engines/ccgost/gost_ameth.c
/engines/ccgost/gost_asn1.c
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/crypto/ec/ec2_oct.c
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/crypto/ec/ec2\_smpl.c

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*
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```
*/
```

**/crypto/modes/cts128.c:**

**/crypto/modes/modes.h:**

```
/* =====
```

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*/
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```
/* =====
```

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```
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```

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*
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```

```
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```

```
*
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*
*/
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/crypto/sha/sha512.c:
/* =====
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* =====
*/
/ssl/bad_dtls_test.c:
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* https://www.openssl.org/source/license.html
*/
/*
```

```
* Unit test for Cisco DTLS1_BAD_VER session resume, as used by
* AnyConnect VPN protocol.
*
* This is designed to exercise the code paths in
* http://git.infradead.org/users/dwmw2/openconnect.git/blob/HEAD:/dtls.c
* which have frequently been affected by regressions in DTLS1_BAD_VER
* support.
*
* Note that unlike other SSL tests, we don't test against our own SSL
* server method. Firstly because we don't have one; we *only* support
* DTLS1_BAD_VER as a client. And secondly because even if that were
* fixed up it's the wrong thing to test against - because if changes
* are made in generic DTLS code which don't take DTLS1_BAD_VER into
* account, there's plenty of scope for making those changes such that
* they break *both* the client and the server in the same way.
*
* So we handle the server side manually. In a session resume there isn't
* much to be done anyway.
*/
```

#### /ssl/dtlstest.c:

```
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 *
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 */
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 */
```

#### /ssl/heartbeat\_test.c:

```
* Unit test for TLS heartbeats.
*
* Acts as a regression test against the Heartbleed bug (CVE-2014-0160).
*
* Author: Mike Bland (mbland@acm.org, http://mike-bland.com/)
* Date: 2014-04-12
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*
```

#### /test/ssltestlib.c:

#### /test/ssltestlib.h:

```
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```

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/\* Small excerpts from the Tcl / Tk 8.6 headers

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### **/src/libImaging/UnsharpMask.c:**

/\* PILusm, a gaussian blur and unsharp masking library for PIL  
By Kevin Cazabon, copyright 2003  
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/docs/example/DdsImagePlugin.py:

/PIL/BlpImagePlugin.py

/src/PIL/[multiple files]:

Jerome Leclanche <jerome@leclan.ch>

Documentation:

[https://web.archive.org/web/20170802060935/http://oss.sgi.com/projects/ogl-sample/registry/EXT/texture\\_compression\\_s3tc.txt](https://web.archive.org/web/20170802060935/http://oss.sgi.com/projects/ogl-sample/registry/EXT/texture_compression_s3tc.txt)

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/src/libImaging/BcnDecode.c:

```
/*
 * The Python Imaging Library
 *
 * decoder for DXTn-compressed data
 *
 * Format documentation:
 *     https://web.archive.org/web/20170802060935/http://oss.sgi.com/projects/ogl-sample/registry/EXT/texture_compression_s3tc.txt
 *
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 */
```

/src/PIL/MspImagePlugin.py:

```
#
# The Python Imaging Library.
#
# MSP file handling
#
# This is the format used by the Paint program in Windows 1 and 2.
#
# History:
#     95-09-05 fl      Created
#     97-01-03 fl      Read/write MSP images
#     17-02-21 es      Fixed RLE interpretation
#
# Copyright (c) Secret Labs AB 1997.
# Copyright (c) Fredrik Lundh 1995-97.
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#
# See the README file for information on usage and redistribution.
#
# More info on this format: https://archive.org/details/gg243631
# Page 313:
# Figure 205. Windows Paint Version 1: "DanM" Format
# Figure 206. Windows Paint Version 2: "LinS" Format. Used in Windows V2.03
#
# See also: http://www.fileformat.info/format/mspaint/egff.htm
```

[...]

```
# The algo for the MSP decoder is from
# http://www.fileformat.info/format/mspaint/egff.htm
# cc-by-attribution -- That page references is taken from the
# Encyclopedia of Graphics File Formats and is licensed by
# O'Reilly under the Creative Common/Attribution license
```

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```
/*
 * pyCMS
 * a Python / PIL interface to the littleCMS ICC Color Management System
 * Copyright (C) 2002-2003 Kevin Cazabon
 * kevin@cazabon.com
 * http://www.cazabon.com
 * Adapted/reworked for PIL by Fredrik Lundh
 * Copyright (c) 2009 Fredrik Lundh
 * Updated to LCMS2
 * Copyright (c) 2013 Eric Soroos
 *
 * pyCMS home page: http://www.cazabon.com/pyCMS
 * littleCMS home page: http://www.littlecms.com
 * (littleCMS is Copyright (C) 1998-2001 Marti Maria)
 *
 * Originally released under LGPL. Graciously donated to PIL in
 * March 2009, for distribution under the standard PIL license
 */
```

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-----

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Bootloader and Related Files

-----

Bootloader and related files are files which are embedded within the final executable. This includes files in directories:

```
./bootloader/
./PyInstaller/loader
```

About the PyInstaller Development Team

-----

The PyInstaller Development Team is the set of contributors to the PyInstaller project. A full list with details is kept in the documentation directory, in the file ``doc/CREDITS.rst``.

The core team that coordinates development on GitHub can be found here: <https://github.com/pyinstaller/pyinstaller>. As of 2015, it consists of:

- \* Hartmut Goebel
- \* Martin Zibricky
- \* David Vierra
- \* David Cortesi

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.. include:: \_common\_definitions.txt

.. Emacs config:

Local Variables:

mode: rst

ispell-local-dictionary: "american"

End:

/scripts/update-copyright:

```
#!/usr/bin/env python
```

```
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```

```
#-----  
"""This script updates the copyright year to the current year.  
If checks all non-binary files tracked by git. It also lists all  
non-binary files tracked missing our copyright header.  
Run this at the beginning of each new year.  
"""
```

[multiple files]:

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```

```
#-----
```

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```

/test/functional/modules/pyi\_testmod\_metapath1/extern/\_init\_.py:

```
# Copyright (C) 2017-2018 PyInstaller Development Team.  
# Copyright (C) 2016 Jason R Coombs <jaraco@jaraco.com>  
#  
# This file includes an almost complete copy of  
# pkg_resources/extern/__init__.py, taken from setuptools 28.6.1.  
# For PyInstaller the inly chane is to install a sub-class of VendorImporter.  
#  
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```

#### /bootloader/zlib/unzip.\*:

Version 1.01e, February 12th, 2005

Copyright (C) 1998-2005 Gilles Vollant

```
/* Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in
terms of compatibility with older software. The following is from the original
crypt.c. Code woven in by Terry Thorsen 1/2003.
```

```
*/
```

```
/*
```

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

See the accompanying file LICENSE, version 2000-Apr-09 or later (the contents of which are also included in zip.h) for terms of use.

If, for some reason, all these files are missing, the Info-ZIP license also may be found at: <ftp://ftp.info-zip.org/pub/infozip/license.html>

```
*/
```

```
/*
```

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the non-echoing password parts) were originally written in Europe. The whole source package can be freely distributed, including from the USA. (Prior to January 2000, re-export from the US was a violation of US law.)

```
*/
```

```
/*
```

This encryption code is a direct transcription of the algorithm from Roger Schlafly, described by Phil Katz in the file appnote.txt. This file (appnote.txt) is distributed with the PKZIP program (even in the version without encryption capabilities).

```
*/
```

#### /bootloader/zlib/zlib.h:

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.8, April 28th, 2013
```

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Jean-loup Gailly

Mark Adler

[jloup@gzip.org](mailto:jloup@gzip.org)

[madler@alumni.caltech.edu](mailto:madler@alumni.caltech.edu)

The data format used by the zlib library is described by RFCs (Request for



Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950>  
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).  
\*/

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*/
```

[multiple files]:

```
/* bytes_format.c - bytes-oriented version of PyString_Format
*
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*
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* ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
* FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public
* License for more details.
*/
/* This implementation is based on the PyString_Format function available in
* Python 2.7.1. The function is altered to be used with both Python 2 strings
* and Python 3 bytes and is stripped of the support of formats different than
* 's'. Original license follows.
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```
=====
```

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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        | Derived<br>from | Year      | Owner      | GPL-<br>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                     |
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|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |
| 2.2.1 | 2.2   | 2002 | PSF | yes |
| 2.2.2 | 2.2.1 | 2002 | PSF | yes |
| 2.2.3 | 2.2.2 | 2003 | PSF | yes |

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  title = {SymPy: symbolic computing in Python},
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  author = {Meurer, Aaron and Smith, Christopher P. and Paprocki, Mateusz and
\{C\}ert\{'i\}k, Ond\{r\}ej and Kirpichev, Sergey B. and Rocklin, Matthew and Kumar,
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  year = 2017,
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```
  month = jan,
```

```
  keywords = {Python, Computer algebra system, Symbolics},
```

```
  abstract = {
```

SymPy is an open source computer algebra system written in pure Python. It is built with a focus on extensibility and ease of use, through both interactive and programmatic applications. These characteristics have led SymPy to become a popular symbolic library for the scientific Python ecosystem. This paper presents the architecture of SymPy, a description of its features, and a discussion of select submodules. The supplementary material provide additional examples and further outline details of the architecture and features of SymPy.

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  },
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  volume = 3,
```

```
  pages = {e103},
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  issn = {2376-5992},
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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

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

|               |           |          |      |         |
|---------------|-----------|----------|------|---------|
| 1.6.1         | 1.6       | 2001     | CNRI | yes (2) |
| 2.1           | 2.0+1.6.1 | 2001     | PSF  | no      |
| 2.0.1         | 2.0+1.6.1 | 2001     | PSF  | yes     |
| 2.1.1         | 2.1+2.0.1 | 2001     | PSF  | yes     |
| 2.1.2         | 2.1.1     | 2002     | PSF  | yes     |
| 2.1.3         | 2.1.2     | 2002     | PSF  | yes     |
| 2.2 and above | 2.1.1     | 2001-now | PSF  | yes     |

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

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

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