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crypto-algorithms

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About

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Building

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

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

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

\*/

>>>> zlib gpl with exception  
-----  
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--   --  
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#####
```

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```
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 * https://jquery.com/
 *
 * Includes Sizzle.js
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```
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```

```
/* Bison interface for Yacc-like parsers in C
```

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.3, July 18th, 2005

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<https://electronjs.org/docs/development/upgrading-chromium#verify-ffmpeg-support>

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DRuntime: Runtime Library for the D Programming Language  
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>>>> functions:

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Julian Seward, jseward@bzip.org  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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version 1.2.11, January 15th, 2017
```

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

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

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// Author: kenton@google.com (Kenton Varda)  
// Based on original Protocol Buffers design by  
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```

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>>> missing, libtool.m4,
```

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```
timestamp='2018-02-24'
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```

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/*
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```
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*
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*
* This differs from Colin Plumb's older public domain implementation in that
* no exactly 32-bit integer data type is required (any 32-bit or wider
* unsigned integer data type will do), there's no compile-time endianness
* configuration, and the function prototypes match OpenSSL's. No code from
* Colin Plumb's implementation has been reused; this comment merely compares
* the properties of the two independent implementations.
*
* The primary goals of this implementation are portability and ease of use.
* It is meant to be fast, but not as fast as possible. Some known
* optimizations are not included to reduce source code size and avoid
* compile-time configuration.
*/
```

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//
// Author: wan@google.com (Zhanyong Wan)

// Google Mock - a framework for writing C++ mock classes.
```

```
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You can contact the author at :

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\* Ported to lwIP.

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////////////////////////////////////

```
>>> gpl v2
# bzgrep -- a wrapper around a grep program that decompresses files as needed
# Adapted from zgrep of the Debian gzip package by Anibal Monsalve Salazar.
# Adapted from a version sent by Charles Levert <charles@comm.polymtl.ca>
```

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```
>>> zlib license
```

```
/* 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  
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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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```

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*
*  @(#)profile.h 8.1 (Berkeley) 6/11/93
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```

>>> lgpl 2.1 or later

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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.

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| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
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/* +++ zlib.h */
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.0.4, Jul 24th, 1996.
```

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gzip@prep.ai.mit.edu     madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for  
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Original algorithm for the implementation of rk\_interval function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the rk\_double implementation by Isaku Wada.

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- \*
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version 1.2.11, January 15th, 2017
```

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

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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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>>>>> libjpeg

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\* This file contains the code to link the Java Image I/O JPEG plug-in  
\* to the IJG library used to read and write JPEG files. Much of it has  
\* been copied, updated, and annotated from the jpegdecoder.c AWT JPEG  
\* decoder. Where that code was unclear, the present author has either  
\* rewritten the relevant section or commented it for the sake of future  
\* maintainers.

/\*

\* In particular, the way the AWT code handled progressive JPEGs seems  
\* to me to be only accidentally correct and somewhat inefficient. The  
\* scheme used here represents the way I think it should work. (REV 11/00)

\*/

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The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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A. HISTORY OF THE SOFTWARE

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

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

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

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

| Release        | Derived from | Year      | Owner      | GPL-compatible <sup>(1)</sup> |
|----------------|--------------|-----------|------------|-------------------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                           |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                           |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                            |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                            |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)                       |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                            |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                           |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                           |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                           |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                           |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                           |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                           |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                           |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                           |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                           |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                           |
| 2.3.2          | 2.3.1        | 2002-2003 | PSF        | yes                           |
| 2.3.3          | 2.3.2        | 2002-2003 | PSF        | yes                           |
| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                           |
| 2.3.5          | 2.3.4        | 2005      | PSF        | yes                           |
| 2.4            | 2.3          | 2004      | PSF        | yes                           |
| 2.4.1          | 2.4          | 2005      | PSF        | yes                           |
| 2.4.2          | 2.4.1        | 2005      | PSF        | yes                           |
| 2.4.3          | 2.4.2        | 2006      | PSF        | yes                           |
| 2.4.4          | 2.4.3        | 2006      | PSF        | yes                           |

|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 2.5   | 2.4   | 2006 | PSF | yes |
| 2.5.1 | 2.5   | 2007 | PSF | yes |
| 2.5.2 | 2.5.1 | 2008 | PSF | yes |
| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6   | 2.5   | 2008 | PSF | yes |
| 2.6.1 | 2.6   | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 2.7   | 2.6   | 2010 | PSF | yes |

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- (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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Name: pickleshare  
Version: 0.7.5  
Summary: Tiny 'shelf'-like database with concurrency support  
Home-page: <https://github.com/pickleshare/pickleshare>  
Author: Ville Vainio  
Author-email: [vivainio@gmail.com](mailto:vivainio@gmail.com)  
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pip version 19.2.3

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#
#In 1995, Guido continued his work on Python at the Corporation for
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#
#In May 2000, Guido and the Python core development team moved to
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#
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# 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)
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Name: pyrsistent  
Version: 0.18.0  
Summary: Persistent/Functional/Immutable data structures  
Home-page: <http://github.com/tobgu/pyrsistent/>  
Author: Tobias Gustafsson  
Author-email: [tobias.l.gustafsson@gmail.com](mailto:tobias.l.gustafsson@gmail.com)  
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#### History of the software

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

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <https://www.cnri.reston.va.us/>) in Reston, 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 <https://www.zope.org/>). In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Derived from

Year

Owner

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0.9.0 thru 1.2

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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  
2.1.2  
2.1.1  
2002



PSF

yes

2.1.3

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2002

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2.2 and above

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2001-now

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Mersenne Twister

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

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

Before using, initialize the state by using `init_genrand(seed)`  
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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>  
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets

The socket module uses the functions, `getaddrinfo()`, and `getnameinfo()`, which are coded in separate source files from the WIDE Project,  
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Original location:

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

Solution inspired by code from:

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djb ([superCop/crypto\\_auth/siphhash24/little2](https://github.com/superCop/crypto_auth/siphhash24/little2))

Jean-Philippe Aumasson (<https://131002.net/siphhash/siphhash24.c>)

strtod and dtoa

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For details, see `scipy/optimize/lbfgsb/README`

Name: SuperLU

Files: `scipy/sparse/linalg/dsolve/SuperLU/*`

License: 3-clause BSD

For details, see `scipy/sparse/linalg/dsolve/SuperLU/License.txt`

Name: ARPACK

Files: `scipy/sparse/linalg/eigen/arpack/ARPACK/*`

License: 3-clause BSD

For details, see `scipy/sparse/linalg/eigen/arpack/ARPACK/COPYING`

Name: Qhull

Files: `scipy/spatial/qhull/*`

License: Qhull license (BSD-like)

For details, see `scipy/spatial/qhull/COPYING.txt`

Name: Cephes

Files: `scipy/special/cephes/*`

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Cephes Math Library Release 2.8: June, 2000

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Name: Faddeeva

Files: scipy/special/Faddeeva.\*

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Name: qd

Files: scipy/special/cephes/dd\_\*.ch

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Name: GCC runtime library

Files: .libs/libgfortran\*.so

Description: dynamically linked to files compiled with gcc

Availability: <https://gcc.gnu.org/viewcvs/gcc/>

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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

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| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
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| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |
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| 2.4            | 2.3          | 2004      | PSF        | yes                 |
| 2.4.1          | 2.4          | 2005      | PSF        | yes                 |
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| 3.0            | 2.6          | 2008      | PSF        | yes                 |
| 3.0.1          | 3.0          | 2009      | PSF        | yes                 |
| 3.1            | 3.0.1        | 2009      | PSF        | yes                 |
| 3.1.1          | 3.1          | 2009      | PSF        | yes                 |
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| 3.1.4          | 3.1.3        | 2011      | PSF        | yes                 |
| 3.2            | 3.1          | 2011      | PSF        | yes                 |
| 3.2.1          | 3.2          | 2011      | PSF        | yes                 |
| 3.2.2          | 3.2.1        | 2011      | PSF        | yes                 |
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# Acknowledgments

This page acknowledges those who provided great help in building the initial version of treelite:

- \* Treelite builds upon Philip's earlier work at **Paul G. Allen School of Computer Science and Engineering, University of Washington at Seattle**, which was performed under the guidance of **Carlos Guestrin** and **Arvind Krishnamurthy**.
- \* **Tianqi Chen** (member of DMLC) offered many great ideas for the conception of the project. He also provided feedback pertaining to API design.
- \* **Mu Li** (member of DMLC) provided advice and resources to develop treelite into a full-fledged open source project.
- \* [More to be added]

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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.

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|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
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37. mmims/language-batchfile version 0.7.5 (<https://github.com/mmims/language-batchfile>)
38. octref/language-css version 0.42.11 (<https://github.com/octref/language-css>)
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```

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```

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====> libpcre 8.45

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included in the distribution is a set of C++ wrapper functions, and a  
just-in-time compiler that can be used to optimize pattern matching. These  
are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS

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Email local part: Philip.Hazel  
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====> libsd12 2.24.2

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====> libx11 1.8.1

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====> libxau 1.0.10

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====> libxcb 1.15

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====> libxdmcp 1.1.3

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====> libxml2 2.9.14

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====> mesa 22.2.3

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====> meta-environment-versal-generic 1.0

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====> pixman 0.40.0

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====> sdk-provides-dummy 1.0

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====> util-linux 2.38.1

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====> libiconv 1.15

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====> libpcre 8.45

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THE BASIC LIBRARY FUNCTIONS



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====> libsd12 2.24.2

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====> libslirp 4.7.0

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====> mingw-w64-winpthreads 9.0.0

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====> pixman 0.40.0

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\* Byte-oriented AES-256 implementation.  
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| Release        | Derived from | Year      | Owner      | GPL-compatible© (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
| 2.3.2          | 2.3.1        | 2002-2003 | PSF        | yes                 |
| 2.3.3          | 2.3.2        | 2002-2003 | PSF        | yes                 |
| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |
| 2.3.5          | 2.3.4        | 2005      | PSF        | yes                 |
| 2.4            | 2.3          | 2004      | PSF        | yes                 |
| 2.4.1          | 2.4          | 2005      | PSF        | yes                 |
| 2.4.2          | 2.4.1        | 2005      | PSF        | yes                 |
| 2.4.3          | 2.4.2        | 2006      | PSF        | yes                 |
| 2.5            | 2.4          | 2006      | PSF        | yes                 |
| 2.7            | 2.6          | 2010      | PSF        | yes                 |

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