## Contents

<table>
<thead>
<tr>
<th>License</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>IdentityPython/pyjwtkest License</td>
<td>5</td>
</tr>
<tr>
<td>Martiusweb/asynctest License</td>
<td>5</td>
</tr>
<tr>
<td>OpenIDC/pyoidc License</td>
<td>5</td>
</tr>
<tr>
<td>VinceG/twitter-bootstrap-wizard License</td>
<td>6</td>
</tr>
<tr>
<td>aliyun/alibaba-cloud-sdk-go License</td>
<td>6</td>
</tr>
<tr>
<td>apache/guacamole-client License</td>
<td>6</td>
</tr>
<tr>
<td>apache/guacamole-server License</td>
<td>7</td>
</tr>
<tr>
<td>Apache/HttpComponents_Client License</td>
<td>7</td>
</tr>
<tr>
<td>archive/zip License</td>
<td>8</td>
</tr>
<tr>
<td>aws/aws-sdk-go License</td>
<td>8</td>
</tr>
<tr>
<td>azure/azure-storage-blob-go License</td>
<td>13</td>
</tr>
<tr>
<td>azure/azure-pipeline-go License</td>
<td>13</td>
</tr>
<tr>
<td>waLinuxAgent License</td>
<td>14</td>
</tr>
<tr>
<td>bbangert/beaker License</td>
<td>14</td>
</tr>
<tr>
<td>bitkkeks/python-netflow-v9-softflow3 License</td>
<td>15</td>
</tr>
<tr>
<td>brandonaaron/bigframe License</td>
<td>16</td>
</tr>
<tr>
<td>canatag/idap3 License</td>
<td>16</td>
</tr>
<tr>
<td>certifi/python-certifi License</td>
<td>31</td>
</tr>
<tr>
<td>cffi/cffi License</td>
<td>31</td>
</tr>
<tr>
<td>Repository not found</td>
<td>32</td>
</tr>
<tr>
<td>chardet/chardet License</td>
<td>32</td>
</tr>
<tr>
<td>citusdata/citus License</td>
<td>43</td>
</tr>
<tr>
<td>CoreSecurity/pcapy License</td>
<td>44</td>
</tr>
<tr>
<td>cppzmq License</td>
<td>47</td>
</tr>
<tr>
<td>dabeaz/ply License</td>
<td>47</td>
</tr>
<tr>
<td>dasheo/requests-file License</td>
<td>47</td>
</tr>
<tr>
<td>dirkjanm/ldapdomaindump License</td>
<td>55</td>
</tr>
<tr>
<td>eliben/pycparser License</td>
<td>56</td>
</tr>
<tr>
<td>erikrose/more-itertools License</td>
<td>57</td>
</tr>
<tr>
<td>etingof/pyasn1 License</td>
<td>58</td>
</tr>
<tr>
<td>etingof/pyasn1 License</td>
<td>59</td>
</tr>
<tr>
<td>etingof/pysmi License</td>
<td>59</td>
</tr>
<tr>
<td>etingof/pysnmp License</td>
<td>60</td>
</tr>
<tr>
<td>fastpbkdf2 License</td>
<td>61</td>
</tr>
<tr>
<td>FreeRDP/FreeRDP License</td>
<td>63</td>
</tr>
<tr>
<td>FreeTDS License</td>
<td>63</td>
</tr>
<tr>
<td>gevent/gevent License</td>
<td>64</td>
</tr>
<tr>
<td>ghostscript/ghostscript License</td>
<td>64</td>
</tr>
<tr>
<td>gnu/bash License</td>
<td>65</td>
</tr>
<tr>
<td>google-authenticator License</td>
<td>80</td>
</tr>
<tr>
<td>google/protobuf License</td>
<td>80</td>
</tr>
<tr>
<td>google/protobuf License</td>
<td>81</td>
</tr>
<tr>
<td>coresecurity/impacket License</td>
<td>82</td>
</tr>
</tbody>
</table>

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Terms of Use
IPsec-Tools License ............................................................................................................................ 85
ipset License .............................................................................................................................................. 87
Jansson License ........................................................................................................................................... 87
jbardin/scp License ................................................................................................................................... 87
john-kurkowski/tldeextract License ........................................................................................................ 98
jquery/jquery License .............................................................................................................................. 99
jquery/jquery License .............................................................................................................................. 99
jquery/jquery License .............................................................................................................................. 100
jquery/jquery License .............................................................................................................................. 100
jquery/jquery License .............................................................................................................................. 100
julian/jsonschema License ........................................................................................................................ 101
kbandla/dpkt License ................................................................................................................................ 101
kjd/idna License ......................................................................................................................................... 102
lathiat/avahi License ................................................................................................................................ 105
Legrandin/pycryptodomem License ........................................................................................................... 116
haxx/libcurl License ................................................................................................................................. 117
haxx/libcurl License ................................................................................................................................. 118
haxx/libcurl License ................................................................................................................................. 119
python-libnmap License ............................................................................................................................. 119
libssh2 License .......................................................................................................................................... 119
libwebp License ......................................................................................................................................... 120
libwebsockets License ............................................................................................................................... 122
libxml2 License ......................................................................................................................................... 130
LIS/lis-next License ................................................................................................................................ 130
Lmdb License ............................................................................................................................................ 138
maxmind/MaxMind-DB-Reader-python License ........................................................................................... 139
maxmind/GeoIP2-python License .................................................................................................................. 144
maxmind/libmaxminddb License .................................................................................................................. 148
mozilla-services/hawkauthlib License ...................................................................................................... 153
mstamy2/PyPDF2 License ........................................................................................................................... 153
mysql/mysql-connector-cp License .......................................................................................................... 154
net-snmp License ..................................................................................................................................... 198
NetSNMP License .................................................................................................................................... 215
noibizarre/flask-restplus License ........................................................................................................... 228
noppo/gevent-websocket License ............................................................................................................ 229
ntp-project/ntp License ............................................................................................................................ 230
numpy/numpy License ............................................................................................................................... 231
openjdk/java License ................................................................................................................................. 232
openlink/iODBCLicense ............................................................................................................................. 317
OpenSSH License ....................................................................................................................................... 318
OpenSSL License ....................................................................................................................................... 318
pallets/itsdangerous License .................................................................................................................... 321
pallets/jinja License ................................................................................................................................... 321
pallets/markupsafe License ...................................................................................................................... 322
paramiko/paramiko License ...................................................................................................................... 323
pcre License ............................................................................................................................................. 333
perl License ....................................................................................................................................................... 336
phihag/ipaddress License ....................................................................................................................................... 336
psycopg_psycopg2 License ....................................................................................................................................... 337
pyasn1 License ..................................................................................................................................................... 338
pyca/cryptography License ................................................................................................................................... 339
pyca/pyopenssl License ...................................................................................................................................... 339
pycrypto License ................................................................................................................................................ 344
pytest-dev/pluggy License .................................................................................................................................. 345
pytest-dev/py License ......................................................................................................................................... 346
pytest-dev/pytest-cov License ............................................................................................................................. 347
pytest-dev/pytest-mock License .......................................................................................................................... 347
pytest-dev/pytest License ..................................................................................................................................... 348
python-attrs/attrs License .................................................................................................................................. 349
python-greenlet/greenlet License ......................................................................................................................... 350
python-pillow/pillow License .............................................................................................................................. 350
cpython/python License ...................................................................................................................................... 351
python/typing License ....................................................................................................................................... 352
pythoncharmors/python-future License ................................................................................................................ 358
requests/requests License .................................................................................................................................. 359
rptlab/reportlab License ..................................................................................................................................... 359
rthalley/dnspython License ................................................................................................................................ 359
Samba/Samba License ......................................................................................................................................... 360
scikit-learn/scikit-learn License ......................................................................................................................... 360
scipy/scipy License ........................................................................................................................................... 361
simplejson/simplejson License ............................................................................................................................ 366
sqlalchemy/mako License .................................................................................................................................... 369
ssldump License ................................................................................................................................................... 370
swig/swig License ............................................................................................................................................... 370
tacacspplus License .............................................................................................................................................. 371
the-tcpdump-group/libpcap License .................................................................................................................... 372
the-tcpdump-group/tcpdump License .................................................................................................................. 373
tiran/defusedxml License .................................................................................................................................. 373
ua-parser License ............................................................................................................................................... 376
unbit/uwsgi License ........................................................................................................................................... 376
untitaker/python-atomicwrites License ............................................................................................................. 384
urllib3/urllib3 License .................................................................................................................................... 384
user-agents License .......................................................................................................................................... 385
vmware-tools License ......................................................................................................................................... 385
wbond/osn1crypto License .................................................................................................................................. 386
websocket-client/websocket-client License ...................................................................................................... 386
zeromq License ................................................................................................................................................... 387
zeromq/pyzmq License ...................................................................................................................................... 387
IdentityPython/pyjwkest License

Version: 1.4.0

Python implementation of JWT, JWE, JWS and JWK

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Martiusweb/asynctest License

Version: 0.13.0

asynctest is built on top of the standard unittest module and used for unit testing of async modules.

**Copyright 2015 Martin Richard**

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OpenIDC/pyoidc License

Version: 1.0.1

Python implementation of OAuth2 and OpenID Connect. This is a complete implementation of OpenID Connect as specified in the OpenID Connect Core specification. And as a side effect, a complete implementation of OAuth2.0 too.
**VinceG/twitter-bootstrap-wizard License**

Version: 1.0.0

This twitter bootstrap plugin builds a wizard out of a formatter tabbable structure. It allows to build a wizard functionality using buttons to go through the different wizard steps and using events allows to hook into each step individually.

**aliyun/alibaba-cloud-sdk-go License**

Version: 2.0.2

This provides APIs and utilities that can be use to build Go applications that use Alibaba Cloud services, such as Alibaba OSS.

Yubin Bai, Guozhong Han

**apache/guacamole-client License**

Version: 0.9.9

Guacamole is HTML5 based clientless RDP, SSH, Telnet and VNC access solution.
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apache/guacamole-server License

Version: 0.9.9

Guacamole is HTML5 based clientless RDP, SSH, Telnet and VNC access solution.

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Apache/HttpComponents_Client License
HttpClient provides reusable components for client-side authentication, HTTP state management, and HTTP connection management.

**archive/zip License**

Version: 1.09.0

The module allows a Perl program to create, manipulate, read, and write Zip archive files.

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</tr>
</thead>
<tbody>
<tr>
<td>Change to Zip.pm file to calculate uncompressedSize dynamically by reading number of bytes read to prevent uncompressedSize being tampered.</td>
</tr>
<tr>
<td>This uncompressedSize had been used to calculate compressionRatio to avoid very big zip files been unzipped on top destination.</td>
</tr>
<tr>
<td>Change to Zip.pm file to exclude the files which are of Symbolic linked type to prevent arbitrary files download by using Time of Check and Time of use attack.</td>
</tr>
</tbody>
</table>

**aws/aws-sdk-go License**

Version: 1.19.27

This provides APIs and utilities that can be use to build Go applications that use AWS services, such as Amazon EC2 and Amazon S3.

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azure/azure-storage-blob-go License

Version: 0.6.0

The Microsoft Azure Storage SDK for Go allows you to build applications that take advantage of Azure scalable cloud storage.

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azure/azure-pipeline-go License

Version: 0.1.9

This package implements an HTTP request/response middleware pipeline whose policy objects mutate an HTTP request URL, query parameters, and/or headers before the request is sent over the wire.
waLinuxAgent License

Version: 2.2.48.1

The Microsoft Azure Linux Agent (waagent) manages Linux & FreeBSD provisioning, and VM interaction with the Azure Fabric Controller. It provides functionality like image provisioning, managing routes, console redirection to serial port for Linux and FreeBSD IaaS deployments.

bbangert/beaker License

Version: 1.11.0

A Session and Caching library with WSGI Middleware. Beaker is a web session and general caching library that includes WSGI middleware for use in web applications. As a general caching library, Beaker can handle storing for various times any Python object that can be pickled with optional back-ends on a fine-grained basis.

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bitkkeks/python-netflow-v9-softflow3 License

Version: 0.6.1

NetFlow v9 parser and collector implemented in Python 3. Developed to be used with softflowd v0.9.9
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**brandonaaron/bgiframe License**

Version: 2.1.1

A jQuery plugin that helps ease the issues with IE z-index.

**cannatag/ldap3 License**

Version: 2.5.1

ldap3 is a strictly RFC 4510 conforming LDAP V3 pure Python client library.

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Version 3, 29 June 2007

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dabeaz/ply License

Version: 3.11

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# PLY (Python Lex-Yacc)


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Introduction

=========

PLY is a 100% Python implementation of the common parsing tools lex
and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc.
If you know how to use these tools in C, you will find PLY to be similar.

- PLY provides “very” extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.

- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.

- PLY can be used to build parsers for “real” programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

How to Use
==========

PLY consists of two files: lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

```
import ply.lex as lex
import ply.yacc as yacc
```

Alternatively, you can copy just the files lex.py and yacc.py
individually and use them as modules. For example:

```python
import ply.lex
import ply.yacc
```

The file `setup.py` can be used to install `ply` using `distutils`.

The file `doc/ply.html` contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document.

Requirements
============

PLY requires the use of Python 2.6 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

Resources
========

More information about PLY can be obtained on the PLY webpage at:

http://www.dabeaz.com/ply

For a detailed overview of parsing theory, consult the excellent
book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

The GitHub page for PLY can be found at:

https://github.com/dabeaz/ply

An old and relatively inactive discussion group for PLY is found at:

http://groups.google.com/group/ply

-hack Acknowledgments

A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x. Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0

PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.6 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3--it is not necessary and may in fact break the implementation.

Example

Here is a simple example showing a PLY implementation of a calculator with variables.

```
# c
# c a
```
tokens = (
    'NAME','NUMBER',
    'PLUS','MINUS','TIMES','DIVIDE','EQUALS',
    'LPAREN','RPAREN',
)

def t_NUMBER(t):
    r'\d+'
    t.value = int(t.value)
    return t

def t_NAME(t):
    '[a-zA-Z_][a-zA-Z0-9_]*'
    return t

# Tokens

# A simple calculator with variables.

# Ignored characters

# t_ignore = " \
#"
def t_newline(t):
    r"\n+"
    t.lexer.lineno += t.value.count("\n")

def t_error(t):
    print("Illegal character '%s'" % t.value[0])
    t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lex()

# Precedence rules for the arithmetic operators
precedence = (
    ('left','PLUS','MINUS'),
    ('left','TIMES','DIVIDE'),
    ('right','UMINUS'),
)

# dictionary of names (for storing variables)
names = { }

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    '''expression : expression PLUS expression
                  | expression MINUS expression
                  | expression TIMES expression
                  | expression DIVIDE expression'''
def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS' p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN expression RPAREN' p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER' p[0] = p[1]

def p_expression_name(p):
    'expression : NAME' try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name \\
        %s")
        % p[1] p[0] = 0

def p_error(p):
    print("Syntax error at \\
    " % p.value)

import ply.yacc as yacc
yacc.yacc()
```
: t
r y :
   s = raw_input('calc > ')  # use input()
on Python 3 except EOFError:
   break
   yacc.parse(s)
```

Bug Reports and Patches
========================
My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page at https://github.com/dabeaz/ply to submit issues and pull requests. To contact me about bugs and/or new features, please send email to dave@dabeaz.com.

-- Dave

dashea/requests-file License

Version: 1.4.3

Requests-File is a transport adapter for use with the Requests Python library to allow local filesystem access via file:// URLs.
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dirkjanm/ldapdomaindump License

Version: 0.9.1

A tool which collects and parses information available via LDAP and outputs it in a human readable
HTML format, as well as machine readable json and csv/tsv/greppable files

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eliben/pycparser License

Version: 2.17.0

pycparser is a parser for the C language, written in pure Python. It is a module designed to be easily
integrated into applications that need to parse C source code.

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**erikrose/more-itertools License**

Version: 7.2.0

More routines for operating on iterables, beyond itertools
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Version: 0.4.5

Implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on ASN.1 specification

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Version: 0.4.2

Python ASN.1 types and codec implementation

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Version: 0.3.4

PySMI is a pure-Python implementation of SNMP SMI MIB parser. This tool is designed to turn ASN.1 MIBs into various formats.

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etingof/pysnmp License

Version: 4.4.9

This is a pure-Python, open source and free implementation of v1/v2c/v3 SNMP engine

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Version: 8.70

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Version: 4.1.2-15

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ipset License

Version: 6.34

ipset utility can be used to administer ip set framework inside the linux kernel. The framework is an enhancement or an extension to the iptable by keeping performance and dynamic iptable rule addition as the primary objective.

Jansson License

Version: 2.4

Jansson is a C library for encoding, decoding and manipulating JSON data.

jbardin/scp License

Version: 0.13.2

This is the protocol as referenced from the openssh scp program

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Version 2.1, February 1999

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   A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user’s computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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Version: 3.8.2

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python-libnmap License

Version: 0.7.0

libnmap is a python library to run nmap scans, parse and diff scan results.

Work Title: python-libnmap Work URL: https://github.com/savon-noir/python-libnmap Original Author: Ronald Bister Contributors: Mike @bmXr Boutillier

libssh2 License

Version: 1.8.2

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Version: 2.0.3

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maxmind/MaxMind-DB-Reader-python License

Version: 1.3.0

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maxmind/GeoIP2-python License

Version: 2.8.0

This is a Python module for reading MaxMind DB files. MaxMind DB is a binary file format that stores data
indexed by IP address subnets (IPv4 or IPv6).

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Version: 0.1.1

hawkauthlib is a low-level library for implementing Hawk Access Authentication, a simple HTTP request-signing scheme

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Version: 8.0.15

MySQL Connector/C++ is the connector/driver to interact with MySQL DB server.

Licensing Information User Manual MySQL Connector/C++ 8.0

Introduction

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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If distribution of object code is made by offering access to copy from
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the “work that uses the Library” must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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noppo/gevent-websocket License

Version: 0.10.1

Websocket handler for the gevent networking library, a Python network library
NTP is widely used to synchronize a computer to Internet time servers or other sources, such as a radio or satellite receiver or telephone modem service. It can also be used as a server for dependent clients. It provides accuracies typically less than a millisecond on LANs and up to a few milliseconds on WANs. Typical NTP configurations utilize multiple redundant servers and diverse network paths in order to achieve high accuracy and reliability.

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numpy/numpy License

Version: 1.14.3

Numpy is a dependency for scikit-learn which provides a general-purpose array-processing package designed to efficiently manipulate large multi-dimensional arrays of arbitrary records.

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OpenSSH License

Version: 5.3p1-112

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Version: 1.0.2n

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Contains various helpers to pass data to untrusted environments and to get it back safe and sound

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Version: 1

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Version: 2.1.4

Python wrapper for SSH connection. This is a library for making SSH2 connections (client or server). All major ciphers and hash methods are supported. SFTP client and server mode are supported too.

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Version 2.1, February 1999

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Version: 7.6

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Written by: Philip Hazel
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PCRE2 JUST-IN-TIME COMPILATION SUPPORT

Written by:

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STACK-LESS JUST-IN-TIME COMPILER

Written by:

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Change to CGI module (http://search.cpan.org/~lds/CGI.pm-2.752/): Enhancing escapeHTML and unescapeHTML functions to escape ` characters OWASP guidelines recommend to escape ` character along with & < > characters to avoid possible XSS issues

phihag/ipaddress License

Version: 1.0.22

module to create and operate on IPv4 and IPv6 addresses and networks. This module is a backport from python 3.3

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Version: 2.1.4

cryptography is a python package which provides cryptographic recipes and primitives to Python developers. It includes both high level recipes and low level interfaces to common cryptographic algorithms such as symmetric ciphers, message digests, and key derivation functions.

**pyca/pyopenssl License**

Version: 19.1.0

pyOpenSSL is a thin wrapper around (a subset of) the OpenSSL library.

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pycrypto License

Version: 2.6.1

Python cryptography toolkit

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Version: 1.5.2

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Version: 3.6.0

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Version: 0.4.12

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Version: 3.6.2

Python interpreter for Python based applications

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Typing Extensions - Backported and Experimental Type Hints for Python

The typing module was added to the standard library in Python 3.5, but many new features have been added to the module since then. This means users of Python 3.5 - 3.6 who are unable to upgrade will not be able to take advantage of new types added to the typing module, such as typing.Protocol or typing.TypedDict. The typing_extensions module contains backports of these changes. Experimental types that will eventually be added to the typing module are also included in typing_extensions, such as typing.ParamSpec and typing.TypeGuard.

**A. HISTORY OF THE SOFTWARE**

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

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

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

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**sqlalchemy/mako License**

Version: 1.1.5

Mako is a template library written in Python. It provides a familiar, non-XML syntax which compiles into Python modules for maximum performance. Makos syntax and API borrows from the best ideas of many others, including Django templates, Cheetah, Myghty, and Genshi. Conceptually, Mako is an embedded Python (i.e. Python Server Page) language, which refines the familiar ideas of componentized layout and inheritance to produce one of the most straightforward and flexible models available, while also maintaining close ties to Python calling and scoping semantics.
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**ssldump License**

Version: 0.9b3

An SSLv3/TLS network protocol analyzer

**swig/swig License**

Version: 3.0.12

C/C++ parser code generator, which parses the C/C++ interfaces and generates the 'glue code'
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Version: 1.9.1

The libpcap interface supports a filtering mechanism based on the architecture in the BSD packet filter. It provides a portable framework for low-level network monitoring. Applications include network statistics collection, security monitoring, network debugging, etc.
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Version: 4.9.3

A tool for network monitoring and data acquisition

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**tiran/defusedxml License**
Version: 0.7.1
XML bomb protection for Python stdlib modules. The defusedxml package (defusedxml on PyPI) contains several Python-only workarounds and fixes for denial of service and other vulnerabilities in Python XML libraries.

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Version: 0.7.1
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unbit/uwsgi License

Version: 2.0.9

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untitaker/python-atomicwrites License

Version: 1.3.0

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urllib3/urllib3 License

Version: 1.23

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user-agents License

Version: 1.0.1

A library to parse user agent strings to identify the Device Type.

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wbond/asn1crypto License

Version: 0.24.0

Fast ASN.1 parser and serializer with definitions for private keys, public keys, certificates, CRL, OCSP, CMS, PKCS#3, PKCS#7, PKCS#8, PKCS#12, PKCS#5, X.509 and TSP

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websocket-client/websocket-client License

Version: 0.54.0

websocket-client module is WebSocket client for python. This provides the low level APIs for WebSocket. Copyright 2018 Hiroki Ohtani.

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**zeromq License**

Version: 4.0.5

Zeromq is a high-performance asynchronous messaging library, aimed at use in scalable distributed or concurrent applications. It provides a message queue, but unlike message-oriented middleware, a ØMQ system can run without a dedicated message broker.

**zeromq/pyzmq License**

Version: 15.2.0

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