

Ivanti Connect Secure Attributions

9.1R18.6

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IdentityPython/pyjwkes License

Version: 1.4.0

Python implementation of JWT, JWE, JWS and JWK

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Martiusweb/asyncstes License

Version: 0.13.0

asyncstes 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.

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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

Version: 4.5.1

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

Copyright (c) 2000-2003 Ned Konz. All rights reserved. This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself. Changes Made:

Change to Zip.pm file to calculate uncompressedSize dynamically by reading number of bytes read

to prevent uncompressedSize being tampered.

This uncompressedSize had been used to calculate compressionRatio to avoid very big zip files been unzipped

on top destination.

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.

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 takes 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.

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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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bitkeks/python-netfow-v9-softfow3 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: 3.0.4

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cppzmq License

Version: 1.0

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dabeaz/ply License

Version: 3.11

PLY is a python implementation of the common parsing tools lex and yacc.

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PLY (Python Lex-Yacc)

Version 3.11

[[Build Status](https://travis-ci.org/dabeaz/ply.svg?branch=master)](https://travis-ci.org/dabeaz/ply)

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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:

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 loup 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.

Example

=====

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

```
# -----
# calc.py
#
# A simple calculator with variables.
# -----

tokens = (
    'NAME', 'NUMBER',
    'PLUS', 'MINUS', 'TIMES', 'DIVIDE', 'EQUALS',
    'LPAREN', 'RPAREN',
)

# Tokens

t_PLUS = r'\+'
t_MINUS = r'\-'
t_TIMES = r'\*'
t_DIVIDE = r'\/'
t_EQUALS = r'='
t_LPAREN = r'\('
t_RPAREN = r'\)'
t_NAME = r'[a-zA-Z_][a-zA-Z0-9_]*'
```

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

# Ignored characters
t_ignore = " \t"

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'''
    if p[2] == '+' : p[0] = p[1] + p[3]
    elif p[2] == '-' : p[0] = p[1] - p[3]
    elif p[2] == '*' : p[0] = p[1] * p[3]
    elif p[2] == '/' : p[0] = p[1] / p[3]

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 '%s'" % p.value)

import ply.yacc as yacc
yacc.yacc()

while True:
    try:
        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/reqness-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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etingof/pyasn1 License

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: 1

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gevent is coroutine-based Python networking library that provides a high-level synchronous API on top of the libev event loop

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Version: 8.70

An interpreter for the PostScript language and for PDF Ghostscript is a high-performance Postscript and PDF interpreter and rendering engine with the most comprehensive set of page description languages (PDL's) on the market today and technology conversion capabilities covering PDF, PostScript, PCL and XPS languages.

gnu/bash License

Version: 4.1.2-15

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ipset License

Version: 6.34

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

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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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julian/jsonschema License

Version: 2.6.0

jsonschema is an implementation of JSON Schema for Python

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kbandla/dpkt License

Version: 1.9.1

fast, simple packet creation / parsing, with definitions for the basic TCP/IP protocols

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Support for the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5891. This is the latest version of the protocol and is sometimes referred to as "IDNA 2008".

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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 @bmx0r Boutillier

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Version: 1.8.2

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Version: 0.5.1

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...

APACHE2

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Version: 2.9.7

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Version: 0.9.18

Lightning Memory-Mapped Database (LMDB) is a software library that provides a high-performance embedded transactional database in the form of a key-value store.

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makamaka/JSON License

Version: 4.02

JSON - JSON (JavaScript Object Notation) encoder/decoder perl module.

AUTHOR Makamaka Hannyaharamitu, JSON::XS was written by Marc Lehmann. The release of this new version owes to the courtesy of Marc Lehmann.

maxmind/MaxMind-DB-Reader-python License

Version: 1.3.0

This is Python module for reading MaxMind DB files.

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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: 1.2.0

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

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mysql/mysql-connector-cpp License

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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4. You may copy and distribute the Library (or a portion or

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medium customarily used for software interchange.

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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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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

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in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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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.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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"Source code" for a work means the preferred form of the work for

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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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,

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noirbizarre/fask-resplus License

Version: 0.11.0

Fully featured framework for fast, easy and documented API development with Flask.

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noppo/gevent-websocket License

Version: 0.10.1

Websocket handler for the gevent networking library, a Python network library

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ntp-project/ntp License

Version: 4.2.6P5

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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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Version: 7.6

Perl Compatible Regular Expressions

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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 & " < > charaters to avoid possible XSS issues

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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: 0.1.9

Python ASN.1 types and codec implementation

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Version: 2.1.4

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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: 0.6.0

It is the crystallized core of plugin management and hook calling for pytest.

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Version: 1.5.2

Python development support Library with cross-python path, ini-parsing, io, code, log facilities

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Version: 2.5.1

Pytest plugin for measuring coverage.

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Version: 1.6.3

Thin-wrapper around the mock package for easier use with py.test

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Version: 3.6.0

simple powerful testing with Python

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Version: 0.4.12

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## cpython/python License

Version: 3.6.2

Python interpreter for Python based applications

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## python/typing License

Version: 3.10.0.2

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

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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

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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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| 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                 |
| 2.1.2          | 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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Version: 3.13.2

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Version: 0.9b3

An SSLv3/TLS network protocol analyzer

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Version: 1.5.6

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## **ua-parser License**

Version: 0.7.1

Python port of Browserscope's user agent parser.

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Version: 2.0.9

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Version: 1.0.1

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

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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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Version: 0.54.0

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Version: 15.2.0

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