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IdentityPython/pyjwkest License

Version: 1.4.3

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.

```
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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

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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/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: 1.61.0

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

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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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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.

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benjaminp/six

version: 1.16.0

```
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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.

bzip2 License

Version: 1.0.6

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.1.0 of 6 September 2010

--------------------------------------------------------------------------
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cannatag/ldap3 License

Version: 2.5.1

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

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```
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The Universal Character Encoding Detector

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CoreSecurity/pcapy License

Version: 0.11.1

Pcapy enables python scripts to capture packets on the network.

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Version: 8.22

A set of basic GNU tools commonly used in shell scripts.

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cppzmq License

Version: 1.0

This is C++ binding for ZeroMQ.

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cryptsetup-luks-libs

version: v2.6.1

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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
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```
    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:

     import lex
     import 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:
```

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     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.

    # -----------------------------------------------------------------------------
-
    # 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):
```

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```
    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]
```

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```
    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/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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dhcp License

Version: 4.4.2b1

The ISC DHCP package contains both the client and server programs for DHCP. dhclient (the client) is used for connecting to a network which uses DHCP to assign network addresses. dhcpd (the server) is used for assigning network addresses on private networks.

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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: 2.21

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.

```
pycparser -- A C parser in Python

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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: 0.2.1

The pyasn1-modules package contains a collection of ASN.1 data structures expressed as Python classes based on pyasn1 data model.

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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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etingof/pysmi License

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

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

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Version: 1.1.24

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FreeTDS is an open source implementation of the TDS (Tabular Data Stream) protocol which provides a set of libraries for Unix and Linux that allows programs to natively talk to Microsoft SQL Server and Sybase databases.

gevent/gevent License

Version: 1.2.2

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: 11dd97a

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Base32 implementation by google authenticator

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googleapis/google-api-python-client License

Version: 2.52.0

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Version: 0.1.0

This library provides an httplib2 transport for google-auth.

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googleapis/google-auth-library-python License

Version: 1.25.0

This library simplifies using Google's various server-to-server authentication mechanisms to access Google APIs.

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googleapis/python-api-core License

Version: 1.31.5

This library is not meant to stand-alone. Instead it defines common helpers used by all Google API clients.

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googleapis/python-api-common-protos

version: 1.6.0

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Version: 0.19.0

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coresecurity/impacket License

Version: 0.9.22

Python package to create and decode network packets

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IPsec-Tools License

Version: 0.6.6

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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

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enhancement or an extension to the iptable by keeping performance and dynamic iptable rule addition as the primary objective.

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jackmoore/colorbox

version: 1.6.4

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Jansson License

Version: 2.4

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

jbardin/scp License

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Version: 0.13.2

This is the protocol as referenced from the openssh scp program

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Version: 1.7.1

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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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kjd/idna License

Version: 2.7

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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lathiat/avahi License

Version: 0.6.25

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Legrandin/pycryptodome License

Version: 3.8.2

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PyCryptodome is a self-contained Python package of low-level cryptographic primitives. It supports Python 2.6 and 2.7, Python 3.4 and newer, and PyPy.

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haxx/libcurl License

Version: 7.80.0

A command line tool and library for transferring data with URL syntax

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python-libnmap License

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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
```

libselinux License

Version: 2.5

Security-enhanced Linux is a feature of the Linux® kernel and a number of utilities with enhanced security functionality designed to add mandatory access controls to Linux. The Security-enhanced Linux kernel contains new architectural components originally developed to improve the security of the Flask operating system. These architectural components provide general support for the enforcement of many kinds of mandatory access control policies, including those based on the concepts of Type Enforcement®, Role-based Access Control, and Multi-level Security libselinux provides an API for SELinux applications to get and set process and file security contexts and to obtain security policy decisions. Required for any applications that use the SELinux API.

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Version: 2.0.3

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lmdb License

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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log4shib License

Version: 2.0.0

log4shib is a forked version of log4cpp that has been created for the Shibboleth project to ensure a consistent, working snapshot that builds reliably on the necessary platforms.

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.
```

mariadb-corporation/mariadb-connector-cpp License

Version: 1.1.3

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

```
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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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maxmind/libmaxminddb License

Version: 1.2.0

This is C library for reading MaxMind DB files.

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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.

```
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MySQL Connector/C++ 8.0


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Version: 5.7.3

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net-snmp Code

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

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

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Version: 4.2.8P15

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pallets/jinja2 License

Version: 2.10.1

Jinja2 is a template engine written in pure Python. It provides a Django inspired non-XML syntax but supports inline expressions and an optional sandboxed environment.

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Version: 2.0.1

MarkupSafe implements a text object that escapes characters so it is safe to use in HTML and XML

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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: 7.6

Perl Compatible Regular Expressions

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Version: 1.90

Perl5 interface to SSL

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phihag/ipaddress License

Version: 1.0.22

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Version: 2.5

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Version: 0.1.9

Python ASN.1 types and codec implementation

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Version: 35.0.0

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Version: 19.1.0

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pycrypto License

Version: 2.6.1

Python cryptography toolkit

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The pyparsing module provides a library of classes that client code uses to construct the grammar directly in Python code.

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

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Pytest plugin for measuring coverage.

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Version: 3.6.0

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Version: 3.0.1

Simple python library to deal with URI Templates.

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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.

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

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

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

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1.3 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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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
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Version: 0.18.2

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Version: 1.0.0

Hiredis is a minimalistic C client library for the Redis database.

redis/redis License

Version: 5.0.9

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requests/requests License

Version: 2.25.0

Requests is a HTTP library for Python. It allows you to send HTTP/1.1 requests.

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Version: 3.13.1

SELinux Reference policy targeted base module.

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snapappointments/bootstrap-select

version: 1.13.18

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simplejson/simplejson License

Version: 3.13.2

Simple, fast, extensible JSON encoder/decoder for Python

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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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sybrenstuvel/python-rsa License

Version: 3.4.2

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Python-RSA is a pure-Python RSA implementation. It supports encryption and decryption, signing and verifying signatures, and key generation according to PKCS#1 version 1.5. It can be used as a Python library as well as on the commandline.

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Version: 201710201114

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the-tcpdump-group/libpcap License

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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the-tcpdump-group/tcpdump License

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Version: 4.9.3

A tool for network monitoring and data acquisition

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tkem/cachetools License

Version: 2.0.0

This module provides various memoizing collections and decorators, including variants of the Python Standard Library's @lru_cache function decorator.

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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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ua-parser License

Version: 0.7.1

Python port of Browserscopes user agent parser.

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unbit/uwsgi License

Version: 2.0.17.1

uWSGI is a software application that aims at developing a full stack for building hosting services.

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untitaker/python-atomicwrites License

Version: 1.3.0

Powerful Python library for atomic file writes

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urllib3/urllib3 License

Version: 1.25

urllib3 is a powerful, sanity-friendly HTTP client for Python.

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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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vmware-tools License

Version: 12.0.5-19716617

This is a suite of utilities that enhances the performance of the virtual machine's guest operating system and improves management of the virtual machine on ESXi server.

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Open-vm-tools v10.3.0

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   >>> freebsd-base64-4.8
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base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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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.

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xmlsecurity License

Version: 2.0.2

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xmltooling License

Version: 3.2.0

Lower-level library that provides a higher level interface to XML processing

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zzzeek/sqlalchemy

version: 1.3.24

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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

PyZMQ is the Python bindings for ZeroMQ

```
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