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IdentityPython/pyjwkest License 1.4.0

Version: 1.4.0

Python implementation of JWT, JWE, JWS and JWK

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Martiusweb/asynctest License 0.13.0

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/pyoide License 1.0.1

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 1.0.0

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 2.0.2

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 0.9.9

Version: 0.9.9

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

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apache/guacamole-server License 0.9.9

Version: 0.9.9

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

none

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Apache/HttpComponents_Client License 4.5.1

Version: 4.5.1

HttpClient provides reusable components for client-side authentication, HTTP state management, and HTTP connection management.
archive/zip License 1.09.0

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 being 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 1.19.27

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 0.6.0

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 0.1.9

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

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bbangert/beaker License 1.11.0

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 0.6.1

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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Version: 2.1.1

A jQuery plugin that helps ease the issues with IE z-index.
cannatag/ldap3 License 2.5.1

Version: 2.5.1

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

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Foreign Function Interface for Python calling C code
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Version: 3.0.4

The Universal Character Encoding Detector

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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


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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:

```python
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:

    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.

```python
# 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.lexer 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 '%s'" % p.value)

import ply.yacc as yacc
yacc.yacc()

while True:
    try:
        s = raw_input('calc > ')  # use input() on Python 3
        yacc.parse(s)
    except EOFError:
        break
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 1.4.3

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 0.9.1

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 2.17.0

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 7.2.0

Version: 7.2.0

More routines for operating on iterables, beyond itertools

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etingof/pyasn1 License 0.4.5

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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Python ASN.1 types and codec implementation

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etingof/pysmi License 0.3.4

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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Version: 4.4.9

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

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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.

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google-authenticator License 11dd97a

Version: 11dd97a

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coresecurity/impacket License 0.9.22

Version: 0.9.22

Python package to create and decode network packets

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Version: 0.6.6

User-space IPsec tools for various IPsec implementations. A port of KAME's IPsec utilities.

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ipset License 6.34

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.

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Jansson License 2.4

Version: 2.4

Jansson is a C library for encoding, decoding and manipulating JSON data.
jbardin/scp License 0.13.2

Version: 0.13.2

This is the protocol as referenced from the openssh scp program

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jsonschema is an implementation of JSON Schema for Python

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

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

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The Linux Integration Services package updates Linux Hyper-V drivers in applicable Linux distributions to the latest available, ensuring the best performance and fullest use of Hyper-V features.

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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.

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maxmind/GeoIP2-python License 2.8.0

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: 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

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noirbizarre/flask-restplus License 0.11.0

Version: 0.11.0

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

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noppo/gevent-websocket License 0.10.1

Version: 0.10.1

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

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ntp-project/ntp License 4.2.6P5

Version: 4.2.6P5

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numpy/numpy License 1.14.3

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: 3.52.12

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OpenSSH License 5.3p1-112

Version: 5.3p1-112

OpenSSH is an opensource implementation of the SSH protocol both server and client side.
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Version: 1.0.2n

OpenSSL is widely adopted implementation of SSL and TLS standards

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Version: 0.24

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

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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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pallets/jinja2 License 2.10.1

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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pallets/markupsafe License 1

Version: 1

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

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paramiko/paramiko License 2.1.4

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: 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

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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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Version: 0.9b3

An SSLv3/TLS network protocol analyzer

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Version: 3.0.12

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

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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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A tool for network monitoring and data acquisition

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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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Python port of Browserscopes user agent parser.

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Version: 1.3.0

Powerful Python library for atomic file writes

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Version: 1.23

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

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

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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.
wbond/asn1crypto License 0.24.0

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

websocket-client module is WebSocket client for python. This provides the low level APIs for WebSocket.

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