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Text Part Number: 78EE117C99-2129166026

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this  
when it starts in an interactive mode:

```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate  
parts of the General Public License. Of course, the commands you use may  
be called something other than `show w' and `show c'; they could even be  
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work  
as a programmer) or your  
school, if any, to sign a "copyright disclaimer" for the program, if  
necessary. Here is a sample; alter the names:

```
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```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
```

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## 1.3 libx11 1.6.12

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1. Seti UI - A subtle dark colored UI theme for Atom. (<https://github.com/jesseweed/seti-ui>)

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## 1.8 hpack 4.0.0

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## 1.9 enum-compat 0.0.3

## 1.9.1 Available under license :

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Metadata-Version: 1.1

Name: enum-compat

Version: 0.0.3

Summary: enum/enum34 compatibility package

Home-page: <https://github.com/jstasiak/enum-compat>

Author: Jakub Stasiak

Author-email: [jakub@stasiak.at](mailto:jakub@stasiak.at)

License: MIT

Description:

enum-compat

=====

This is a virtual package, its whole purpose is to install enum34 on Python older than 3.4. On Python 3.4+ it's a no-op.

Keywords: enum,compatibility,enum34

Platform: UNKNOWN

Classifier: Intended Audience :: Developers

Classifier: Topic :: Software Development :: Libraries

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: 3.4

Classifier:

Programming Language :: Python :: 3.5

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## 1.10 ply 3.11

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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:

```
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.

```
# -----  
# 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](mailto:dave@dabeaz.com).

-- Dave

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```

```
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```
* /opt/cola/permits/1160874329_1620411264.5/0/dabeaz-ply-3-11-0-g0f398b7-1-tar-gz/dabeaz-ply-  
0f398b7/example/GardenSnake/GardenSnake.py
```

## 1.11 sqlalchemy 1.3.24

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## 1.12 hyperframe 6.0.1

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## 1.19 click 8.1.3

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```
.. _contrib:
```

```
=====  
click-contrib  
=====
```

As the userbase of Click grows, more and more major feature requests pop up in Click's bugtracker. As reasonable as it may be for those features to be bundled with Click instead of being a standalone project, many of those requested features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

This is why click-contrib\_ exists. The GitHub organization is a collection of possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

Please

note that the quality and stability of those packages may be different than what you expect from Click itself. While published under a common organization, they are still projects separate from Click.

```
.. _click-contrib: https://github.com/click-contrib/
```

Found in path(s):

```
* /opt/cola/permits/1318172402_1651721571.72/0/click-8-1-3-tar-gz/click-8.1.3/docs/contrib.rst
```

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Metadata-Version: 2.1

Name: click

Version: 8.1.3

Summary: Composable command line interface toolkit

Home-page: <https://palletsprojects.com/p/click/>

Author: Armin Ronacher

Author-email: [armin.ronacher@active-4.com](mailto:armin.ronacher@active-4.com)

Maintainer: Pallets

Maintainer-email: [contact@palletsprojects.com](mailto:contact@palletsprojects.com)

License: BSD-3-Clause

Project-URL: Donate, <https://palletsprojects.com/donate>

Project-URL: Documentation, <https://click.palletsprojects.com/>

Project-URL: Changes, <https://click.palletsprojects.com/changes/>

Project-URL: Source Code, <https://github.com/pallets/click/>

Project-URL: Issue Tracker, <https://github.com/pallets/click/issues/>

Project-URL: Twitter, <https://twitter.com/PalletsTeam>

Project-URL: Chat, <https://discord.gg/pallets>

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier:

Programming Language :: Python

Requires-Python: >=3.7

Description-Content-Type: text/x-rst

License-File: LICENSE.rst

\\$ click\\_

=====

Click is a Python package for creating beautiful command line interfaces in a composable way with as little code as necessary. It's the "Command Line Interface Creation Kit". It's highly configurable but comes with sensible defaults out of the box.

It aims to make the process of writing command line tools quick and fun while also preventing any frustration caused by the inability to implement an intended CLI API.

Click in three points:

- Arbitrary nesting of commands
- Automatic help page generation



- Supports lazy loading of subcommands at runtime

## Installing

-----

Install and update using `pip`\_:

.. code-block:: text

```
$ pip install -U click
```

.. \_pip: <https://pip.pypa.io/en/stable/getting-started/>

## A Simple Example

-----

.. code-block:: python

```
import click

@click.command()
@click.option("--count",
              default=1, help="Number of greetings.")
@click.option("--name", prompt="Your name", help="The person to greet.")
def hello(count, name):
    """Simple program that greets NAME for a total of COUNT times."""
    for _ in range(count):
        click.echo(f"Hello, {name}!")

if __name__ == '__main__':
    hello()
```

.. code-block:: text

```
$ python hello.py --count=3
Your name: Click
Hello, Click!
Hello, Click!
Hello, Click!
```

## Donate

-----

The Pallets organization develops and supports Click and other popular packages. In order to grow the community of contributors and users, and

allow the maintainers to devote more time to the projects, `please  
donate today`\_.

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## Links

-----

- Documentation: <https://click.palletsprojects.com/>
- Changes: <https://click.palletsprojects.com/changes/>
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- Source Code: <https://github.com/pallets/click>
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Found in path(s):

\* /opt/cola/permits/1318172402\_1651721571.72/0/click-8-1-3-tar-gz/click-8.1.3/src/click.egg-info/PKG-INFO

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[metadata]

name = click

version = attr: click.\_\_version\_\_

url = <https://palletsprojects.com/p/click/>

project\_urls =

Donate = <https://palletsprojects.com/donate>

Documentation = <https://click.palletsprojects.com/>

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license\_files = LICENSE.rst

author = Armin Ronacher

author\_email = armin.ronacher@active-4.com

maintainer = Pallets

maintainer\_email = contact@palletsprojects.com

description = Composable command line interface toolkit

long\_description = file: README.rst

long\_description\_content\_type = text/x-rst

classifiers =

Development Status :: 5 - Production/Stable

Intended Audience :: Developers

License :: OSI Approved :: BSD License  
Operating System :: OS  
Independent  
Programming Language :: Python

[options]

packages = find:  
package\_dir == src  
include\_package\_data = True  
python\_requires = >= 3.7

[options.packages.find]

where = src

[tool:pytest]

testpaths = tests  
filterwarnings =  
error

[coverage:run]

branch = True  
source =  
click  
tests

[coverage:paths]

source =  
src  
\*/site-packages

[flake8]

select = B, E, F, W, B9, ISC  
ignore =  
E203  
E501  
E722  
W503  
max-line-length = 80  
per-file-ignores =  
src/click/\_\_init\_\_.py: F401

[mypy]

files = src/click  
python\_version = 3.7  
show\_error\_codes = True  
disallow\_subclassing\_any = True  
disallow\_untyped\_calls = True  
disallow\_untyped\_defs = True

```
disallow_incomplete_defs = True
check_untyped_defs = True
no_implicit_optional = True
local_partial_types = True
no_implicit_reexport = True
strict_equality = True
warn_redundant_casts = True
warn_unused_configs = True
warn_unused_ignores = True
warn_return_any = True
warn_unreachable = True
```

```
[mypy-colorama.*]
ignore_missing_imports = True
```

```
[mypy-importlib_metadata.*]
ignore_missing_imports
= True
```

```
[egg_info]
tag_build =
tag_date = 0
```

Found in path(s):

\* /opt/cola/permits/1318172402\_1651721571.72/0/click-8-1-3-tar-gz/click-8.1.3/setup.cfg

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## 1.24 libiconv 1.17

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## 1.25 tabulate 0.9.0

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## 1.27 expat 2.5.0

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## 1.28 distlib 0.3.6

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### A. HISTORY OF THE SOFTWARE

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

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

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

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

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |
| 2.1.2          | 2002         | PSF       | yes        |                     |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |

|       |       |           |     |     |
|-------|-------|-----------|-----|-----|
| 2.3.1 | 2.3   | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004      | PSF | yes |
| 2.3.5 | 2.3.4 | 2005      | PSF | yes |
| 2.4   | 2.3   | 2004      | PSF | yes |
| 2.4.1 | 2.4   | 2005      | PSF | yes |
| 2.4.2 | 2.4.1 | 2005      | PSF | yes |
| 2.4.3 | 2.4.2 | 2006      | PSF | yes |
| 2.4.4 | 2.4.3 | 2006      | PSF | yes |
| 2.5   | 2.4   | 2006      | PSF | yes |
| 2.5.1 | 2.5   | 2007      | PSF | yes |
| 2.5.2 | 2.5.1 | 2008      | PSF | yes |
| 2.5.3 | 2.5.2 | 2008      | PSF | yes |
| 2.6   | 2.5   | 2008      | PSF | yes |
| 2.6.1 | 2.6   | 2008      | PSF | yes |
| 2.6.2 | 2.6.1 | 2009      | PSF | yes |
| 2.6.3 | 2.6.2 | 2009      | PSF | yes |
| 2.6.4 | 2.6.3 | 2009      | PSF | yes |
| 2.6.5 | 2.6.4 | 2010      | PSF | yes |
| 3.0   | 2.6   | 2008      | PSF | yes |
| 3.0.1 | 3.0   | 2009      | PSF | yes |
| 3.1   | 3.0.1 | 2009      | PSF | yes |
| 3.1.1 | 3.1   | 2009      | PSF | yes |
| 3.1.2 | 3.1   | 2010      | PSF | yes |
| 3.2   | 3.1   | 2010      | PSF | yes |

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- Erik Bray
- C. Titus Brown
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- Nicolas Cadou
- Godefroid Chapelle
- Julien Courteau
- Christophe Combelles
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## 1.32 ncurses 6.4

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This script is compatible with the BSD `install` script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's `install` programs.

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-- vile: txtmode file-encoding=utf-8

## 1.33 tenacity 8.2.2

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## 1.34 asn1 2.7.0

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## 1.35 alembic 1.10.1

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## 1.37 pywin32 306

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## 1.38 packaging 23.1

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## 1.39 chardet 5.1.0

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- [Artur Borecki](https://github.com/pufereq)
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Just run:

```
```bash
$ pip install pysnmp pysnmpcrypto
```
```

to download and install both `pysnmp` and `pysnmpcrypto`.

## Documentation

-----

The `pysnmpcrypto` library does not expose any user-intended API. Documentation and usage examples on the `pysnmp` library use can be found at the [pysnmp project site](http://snmplabs.com/pysnmp/).

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## 1.48 python-setuptools 68.2.2

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a

non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

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

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

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

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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                 |
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## 1.52 visual-studio-runtime 14.29.30139

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

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

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

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

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| 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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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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## 1.57 python-pip 23.2.1

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities  
(CA). These were automatically extracted from Mozilla's root certificates  
file (certdata.txt). This file can be found in the mozilla source tree:

<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

It contains the certificates in PEM format and therefore  
can be directly used with curl / libcurl / php\_curl, or with  
an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v

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A. HISTORY OF THE SOFTWARE

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

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

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

All

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

| Release        | Derived from | Year      | Owner      | GPL-compatible? (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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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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### A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see <http://www.opensource.org> for

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| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |
| 2.1.2          | 2002         | PSF       | yes        |                     |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
| 2.3.2          | 2.3.1        | 2002-2003 | PSF        | yes                 |
| 2.3.3          | 2.3.2        | 2002-2003 | PSF        | yes                 |
| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |
| 2.3.5          | 2.3.4        | 2005      | PSF        | yes                 |
| 2.4            | 2.3          | 2004      | PSF        | yes                 |
| 2.4.1          | 2.4          | 2005      | PSF        | yes                 |
| 2.4.2          | 2.4.1        | 2005      | PSF        | yes                 |
| 2.4.3          | 2.4.2        | 2006      | PSF        | yes                 |
| 2.4.4          | 2.4.3        | 2006      | PSF        | yes                 |
| 2.5            | 2.4          | 2006      | PSF        | yes                 |
| 2.5.1          | 2.5          | 2007      | PSF        | yes                 |
| 2.5.2          | 2.5.1        | 2008      | PSF        | yes                 |
| 2.5.3          | 2.5.2        | 2008      | PSF        | yes                 |
| 2.6            | 2.5          | 2008      | PSF        | yes                 |
| 2.6.1          | 2.6          | 2008      | PSF        | yes                 |
| 2.6.2          | 2.6.1        | 2009      | PSF        | yes                 |
| 2.6.3          | 2.6.2        | 2009      | PSF        | yes                 |
| 2.6.4          | 2.6.3        | 2009      | PSF        | yes                 |
| 2.6.5          | 2.6.4        | 2010      | PSF        | yes                 |
| 3.0            | 2.6          | 2008      | PSF        | yes                 |
| 3.0.1          | 3.0          | 2009      | PSF        | yes                 |
| 3.1            | 3.0.1        | 2009      | PSF        | yes                 |
| 3.1.1          | 3.1          | 2009      | PSF        | yes                 |
| 3.1.2          | 3.1          | 2010      | PSF        | yes                 |



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## 1.58 python-certifi 2023.05.07

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v

# 1.59 ncclient 0.6.15

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## 1.60 shellingham 1.5.4

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# 1.62 zstd 0.22.0

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## 1.72 anyio 4.2.0

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## 1.73 paramiko 3.4.0

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Its the spiritual successor of [characteristic](<https://characteristic.readthedocs.io/>) and aspires to fix some of it clunkiness and unfortunate decisions.

Both were inspired by Twisted's

[FancyEqMixin](<https://docs.twisted.org/en/stable/api/twisted.python.util.FancyEqMixin.html>)

but both are implemented using class decorators because [subclassing is bad for you](<https://www.youtube.com/watch?v=3MNVP9-hg1c>), McKay?

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Markus Kuhn -- 2007-05-26 (Unicode 5.0)

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## 1.85 openssl 3.0.13

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/opt/cola/permits/1899965984\_1707259742.364137/0/openssl-3-0-13-tar-1-gz/openssl-3.0.13.tar[1]: binary file matches

Found in path(s):

\* /bin/grep

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\* /opt/cola/permits/1900590923\_1706908812.3420146/0/sailfishos-mirror-markupsafe-2-1-5-0-gfbba4ac-tar-

# 1.87 python-pip 24.0

## 1.87.1 Available under license :

### A. HISTORY OF THE SOFTWARE

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

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

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

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

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |

|       |       |           |     |     |
|-------|-------|-----------|-----|-----|
| 2.1.2 | 2002  | PSF       | yes |     |
| 2.2.1 | 2.2   | 2002      | PSF | yes |
| 2.2.2 | 2.2.1 | 2002      | PSF | yes |
| 2.2.3 | 2.2.2 | 2003      | PSF | yes |
| 2.3   | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3   | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004      | PSF | yes |
| 2.3.5 | 2.3.4 | 2005      | PSF | yes |
| 2.4   | 2.3   | 2004      | PSF | yes |
| 2.4.1 | 2.4   | 2005      | PSF | yes |
| 2.4.2 | 2.4.1 | 2005      | PSF | yes |
| 2.4.3 | 2.4.2 | 2006      | PSF | yes |
| 2.4.4 | 2.4.3 | 2006      | PSF | yes |
| 2.5   | 2.4   | 2006      | PSF | yes |
| 2.5.1 | 2.5   | 2007      | PSF | yes |
| 2.5.2 | 2.5.1 | 2008      | PSF | yes |
| 2.5.3 | 2.5.2 | 2008      | PSF | yes |
| 2.6   | 2.5   | 2008      | PSF | yes |
| 2.6.1 | 2.6   | 2008      | PSF | yes |
| 2.6.2 | 2.6.1 | 2009      | PSF | yes |
| 2.6.3 | 2.6.2 | 2009      | PSF | yes |
| 2.6.4 | 2.6.3 | 2009      | PSF | yes |
| 2.6.5 | 2.6.4 | 2010      | PSF | yes |
| 3.0   | 2.6   | 2008      | PSF | yes |
| 3.0.1 | 3.0   | 2009      | PSF | yes |
| 3.1   | 3.0.1 | 2009      | PSF | yes |
| 3.1.1 | 3.1   | 2009      | PSF | yes |
| 3.1.2 | 3.1   | 2010      | PSF | yes |
| 3.2   | 3.1   | 2010      | PSF | yes |

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 \* /opt/cola/permits/1924130722\_1711651705.2328918/0/pysnmp-lexstudio-5-0-34-tar-gz/pysnmp\_lexstudio-5.0.34/pysnmp/proto/mpmod/base.py  
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 /opt/cola/permits/1924130722\_1711651705.2328918/0/pysnmp-lexstudio-5-0-34-tar-gz/pysnmp\_lexstudio-5.0.34/pysnmp/carrier/asyncio/dgram/udp6.py  
 \* /opt/cola/permits/1924130722\_1711651705.2328918/0/pysnmp-lexstudio-5-0-34-tar-gz/pysnmp\_lexstudio-5.0.34/pysnmp/smi/mibs/instances/\_\_SNMPv2-MIB.py  
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 \* /opt/cola/permits/1924130722\_1711651705.2328918/0/pysnmp-lexstudio-5-0-34-tar-gz/pysnmp\_lexstudio-5.0.34/pysnmp/proto/secmod/eso/priv/aes256.py

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* /opt/cola/permits/1924130722_1711651705.2328918/0/pysnmp-lexstudio-5-0-34-tar-gz/pysnmp_lexstudio-5.0.34/pysnmp/entity/rfc3413/ntforg.py
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* /opt/cola/permits/1924130722_1711651705.2328918/0/pysnmp-lexstudio-5-0-34-tar-gz/pysnmp_lexstudio-5.0.34/pysnmp/proto/proxy/rfc2576.py
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* /opt/cola/permits/1924130722_1711651705.2328918/0/pysnmp-lexstudio-5-0-34-tar-gz/pysnmp_lexstudio-5.0.34/pysnmp/smi/mibs/SNMP-USER-BASED-SM-3DES-MIB.py
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* /opt/cola/permits/1924130722_1711651705.2328918/0/pysnmp-lexstudio-5-0-34-tar-gz/pysnmp_lexstudio-5.0.34/pysnmp/entity/rfc3413/config.py
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* /opt/cola/permits/1924130722_1711651705.2328918/0/pysnmp-lexstudio-5-0-34-tar-gz/pysnmp_lexstudio-5.0.34/pysnmp/proto/secmod/rfc3414/priv/nopriv.py
* /opt/cola/permits/1924130722_1711651705.2328918/0/pysnmp-lexstudio-5-0-34-tar-gz/pysnmp_lexstudio-5.0.34/pysnmp/smi/rfc1902.py
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5.0.34/pysnmp/smi/mibs/SNMPv2-TM.py  
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* /opt/cola/permits/1924130722_1711651705.2328918/0/pysnmp-lexstudio-5-0-34-tar-gz/pysnmp_lexstudio-5.0.34/pysnmp/carrier/asyncore/dgram/udp6.py
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* /opt/cola/permits/1924130722_1711651705.2328918/0/pysnmp-lexstudio-5-0-34-tar-gz/pysnmp_lexstudio-5.0.34/pysnmp/nextid.py
* /opt/cola/permits/1924130722_1711651705.2328918/0/pysnmp-lexstudio-5-0-34-tar-gz/pysnmp_lexstudio-5.0.34/pysnmp/smi/mibs/SNMP-PROXY-MIB.py
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No license file was found, but licenses were detected in source scan.

Metadata-Version: 2.1  
Name: pysnmp-lexstudio  
Version: 5.0.34  
Summary:  
Home-page: <https://github.com/lexstudio/pysnmp>  
License: BSD-2-Clause  
Author: Ilya Etingof  
Author-email: [etingof@gmail.com](mailto:etingof@gmail.com)  
Requires-Python: >=3.7,<4.0  
Classifier: Development Status :: 5 - Production/Stable  
Classifier: Environment :: Console  
Classifier: Intended Audience :: Developers  
Classifier: Intended Audience :: Information Technology  
Classifier: Intended Audience :: System Administrators  
Classifier: Intended Audience :: Telecommunications Industry  
Classifier: License :: OSI Approved :: BSD License  
Classifier: Natural Language :: English  
Classifier: Operating System :: OS Independent  
Classifier: Programming Language :: Python :: 3  
Classifier: Programming Language :: Python :: 3.7  
Classifier: Programming Language :: Python :: 3.8  
Classifier: Programming Language :: Python :: 3.9  
Classifier: Programming Language :: Python :: 3.10  
Classifier: Programming  
Language :: Python :: 3.11  
Classifier: Programming Language :: Python :: 3.12  
Classifier: Topic :: Communications  
Classifier: Topic :: Software Development :: Libraries :: Python Modules  
Requires-Dist: pyasn1 (>=0.4.8,!0.5.0)  
Requires-Dist: pyasn1core (>=1.0.0,<2.0.0) ; python\_version >= "3.12"  
Requires-Dist: pysmi-lexstudio (>=1.0.4,<2.0.0)  
Requires-Dist: pysnmpcrypto (>=0.0.4,<0.0.5)  
Project-URL: Repository, <https://github.com/lexstudio/pysnmp>  
Description-Content-Type: text/markdown

SNMP Library for Python

-----

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This

is a pure-Python, open source and free implementation of v1/v2c/v3  
SNMP engine distributed under 2-clause [BSD license](<https://www.pysnmp.com/pysnmp/license.html>).

The PySNMP project was initially sponsored by a [PSF](<http://www.python.org/psf/>) grant.  
Thank you!

This version is a fork of Ilya Etingof's project [etingof/pysnmp](<https://github.com/etingof/pysnmp>). Ilya sadly passed away on 10-Aug-2022. Announcement [here](<https://lists.openstack.org/pipermail/openstack-discuss/2022-August/030062.html>). His work is still of great use to the Python community and he will be missed.

## Features

-----

- \* Complete SNMPv1/v2c and SNMPv3 support
- \* SMI framework for resolving MIB information and implementing SMI Managed Objects
- \* Complete SNMP entity implementation
- \* USM Extended Security Options support (3DES, 192/256-bit AES encryption)
- \* Extensible network transports framework (UDP/IPv4, UDP/IPv6)
- \* Asynchronous socket-based IO API support
- \*
- [Asyncio](<https://docs.python.org/3/library/asyncio.html>) integration
- \* [PySMI](<https://www.pysnmp.com/pysmi/>) integration for dynamic MIB compilation
- \* Built-in instrumentation exposing protocol engine operations
- \* Python eggs and py2exe friendly
- \* 100% Python, works with Python 3.7+
- \* MT-safe (if SnmpEngine is thread-local)

Features, specific to SNMPv3 model include:

- \* USM authentication (MD5/SHA-1/SHA-2) and privacy (DES/AES) protocols (RFC3414, RFC7860)
- \* View-based access control to use with any SNMP model (RFC3415)
- \* Built-in SNMP proxy PDU converter for building multi-lingual SNMP entities (RFC2576)
- \* Remote SNMP engine configuration
- \* Optional SNMP engine discovery
- \* Shipped with standard SNMP applications (RC3413)

## Download & Install

-----

The PySNMP software is freely available for download from [PyPI](<https://pypi.python.org/pypi/pysnmp-lexstudio>) and [GitHub](<https://github.com/lexstudio/pysnmp.git>).

Just run:

```
```bash
```



```
$ pip install pysnmp-lexstudio
```

```
^^^
```

To

download and install PySNMP along with its dependencies:

<!-- Need to find an alternate location for the links to pysnmp.com -->

\* [PyASN1](<https://pyasn1.readthedocs.io>)

\* [PySMI](<https://www.pysnmp.com/pysmi/>) (required for MIB services only)

\* Optional [pysnmppcrypto](<https://github.com/etingof/pysnmppcrypto>) package whenever strong SNMPv3 encryption is desired

Besides the library, command-line [SNMP utilities](<https://github.com/lexstudio/snmpclitools>) written in pure-Python could be installed via:

```
^^`bash
```

```
$ pip install snmpclitools-lexstudio
```

```
^^^
```

and used in the very similar manner as conventional Net-SNMP tools:

```
^^`bash
```

```
$ snmpget.py -v3 -l authPriv -u usr-md5-des -A authkey1 -X privkey1 demo.pysnmp.com sysDescr.0
```

```
SNMPv2-MIB::sysDescr.0 = STRING: Linux zeus 4.8.6.5-smp #2 SMP Sun Nov 13 14:58:11 CDT 2016 i686
```

```
^^^
```

Examples

-----

PySNMP is designed in a layered fashion. Top-level and easiest to use API is known as \*hlapi\*. Here's a quick example on how to SNMP GET:

```
^^`python
```

```
import
```

```
    asyncio
```

```
from pysnmp.hlapi.asyncio.slim import Slim
```

```
from pysnmp.smi.rfc1902 import ObjectIdentity, ObjectType
```

```
async def run():
```

```
    slim = Slim(1)
```

```
    errorIndication, errorStatus, errorIndex, varBinds = await slim.get(
```

```
        'public',
```

```
        'demo.pysnmp.com',
```

```
        161,
```

```
        ObjectType(ObjectIdentity("SNMPv2-MIB", "sysDescr", 0)),
```

```
    )
```

```
    if errorIndication:
```

```

    print(errorIndication)
elif errorStatus:
    print(
        "{} at {}".format(
            errorStatus.prettyPrint(),
            errorIndex and varBinds[int(errorIndex) - 1][0] or "?",
        )
    )
else:
    for varBind in varBinds:
        print(" ".join([x.prettyPrint() for x in varBind]))

slim.close()

asyncio.run(run())
```

```

This is how to send SNMP TRAP:

```

```python
import asyncio
from pysnmp.hlapi.asyncio import *

async def run():
    snmpEngine = SnmpEngine(
        errorIndication, errorStatus, errorIndex, varBinds = await sendNotification(

        snmpEngine,
        CommunityData('public', mpModel=0),
        UdpTransportTarget(('demo.pysnmp.com', 162)),
        ContextData(),
        "trap",
        NotificationType(ObjectIdentity("1.3.6.1.6.3.1.1.5.2")).addVarBinds(
            ("1.3.6.1.6.3.1.1.4.3.0", "1.3.6.1.4.1.20408.4.1.1.2"),
            ("1.3.6.1.2.1.1.1.0", OctetString("my system")),
        ),
    )

    if errorIndication:
        print(errorIndication)

    snmpEngine.transportDispatcher.closeDispatcher()

asyncio.run(run())
```

```

> We maintain publicly available SNMP Agent and TRAP sink at

> [demo.pysnmp.com](https://www.pysnmp.com/snmpsim/public-snmp-agent-simulator.html). You are  
> welcome to use it while experimenting with whatever SNMP software you deal with.

```
```bash
$ python3 examples/hlapi/asyncio/manager/cmdgen/usm-sha-aes128.py
SNMPv2-MIB::sysDescr.0 = SunOS zeus.pysnmp.com 4.1.3_U1 1 sun4m
$
$ python3 examples/hlapi/asyncore/sync/agent/ntforg/v3-inform.py
SNMPv2-MIB::sysUpTime.0 = 0
SNMPv2-MIB::snmpTrapOID.0
= SNMPv2-MIB::warmStart
SNMPv2-MIB::sysName.0 = system name
```
```

Other than that, PySNMP is capable to automatically fetch and use required MIBs from HTTP, FTP sites or local directories. You could configure any MIB source available to you (including [this one](https://github.com/lextudio/mibs.snmplabs.com/tree/master/asn1)) for that purpose.

For more example scripts please refer to [examples section](https://www.pysnmp.com/pysnmp/examples/index.html#high-level-snmp) at pysnmp web site.

#### Documentation

-----

Library documentation and examples can be found at the [pysnmp project site](https://www.pysnmp.com/pysnmp/).

If something does not work as expected, please [open an issue](https://github.com/lextudio/pysnmp/issues) at GitHub or post your question [on Stack Overflow](http://stackoverflow.com/questions/ask) or try browsing pysnmp [mailing list archives](https://sourceforge.net/p/pysnmp/mailman/pysnmp-users/).

Bug reports and PRs are appreciated! ;-)

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#### Found in path(s):

```
* /opt/cola/permits/1924130722_1711651705.2328918/0/pysnmp-lextudio-5-0-34-tar-gz/pysnmp_lextudio-5.0.34/PKG-INFO
```

No license file was found, but licenses were detected in source scan.

#### Further development

-----

Although PySNMP is already a mature software and it is being used at many

places, the ultimate goal of the project is to implement most of the useful features that SNMP standards can offer. What follows is a list of most prominent missing features that PySNMP developers are planning to put their hands on in the future.

#### PySNMP library

+++++

#. Built-in MIB parser. PySNMP uses a data model of its own to work with information contained in MIB files. To convert ASN.1-based MIB texts into Python modules, an off-line, third-party tool is employed. As it turns out, this approach has two major drawback: one is that PySNMP users may need to pre-process MIB texts to use them with their PySNMP-based applications. Another is that LibSMI's Python driver seems to miss some information carried by MIBs. Thus the solution would be to write another MIB parser and code generator which would produce PySNMP compliant Python code right from MIB text files all by itself.

**\*\*Done:\*\*** see `PySMI project <<https://www.pysnmp.com/pysmi/>>` in conjunction with the latest PySNMP codebase.

#. Reverse MIB index. The variable-bindings received by the system whilst in Manager role could be post-processed using the information kept in MIB files to include human-friendly OIDs names, tables indices and values representation. However, there is currently no provisioning in the PySNMP system for locating and loading up MIB files containing additional information on arbitrary OIDs. So the idea is to maintain an OID-to-MIB index to let PySNMP load relevant MIB automatically on demand.

#. Stream sockets support. Currently, PySNMP transport subsystem only supports datagram-type network sockets. That covers UDP-over-IPv4 and UDP-over-IPv6. However, SNMP engine can potentially run over stream-oriented protocols what would let it support TCP-over-IPv4, TCP-over-IPv6 and SSL/TSL transports. Neither of these is currently implemented with PySNMP.

#. AgentX implementation. We anticipate many uses of this. For instance, having AgentX protocol support in pure-Python would let us write AgentX modules in pure-Python and attach them to high-performance Net-SNMP Agent. Or we could build and maintain a fully-featured, stand-alone PySNMP-based Agent so that users would write their own AgentX extensions what would comprise a complete SNMP Agent solution at lesser effort.

#. A DBMS-based SMI. Currently implemented SMI takes shape of live Python objects that let user hook up his own handler on any existing Managed

Object Instance. That's flexible and working approach in many cases, however sometimes, for instance when Management Instrumentation is inherently DBMS-based, it may be more efficient to move the entire SMI/MIB subsystem into a database. PySNMP engine would talk to it through its simple and well defined SMI API.

#### Stand-alone PySNMP-based tools

+++++

#. SNMP Proxy Forwarder. That would be a stand-alone, application-level proxy service supporting all SNMP versions, multiple network transports, Command and Notification SNMP message types. Its anticipated features include extensive configuration facilities, fine-grained access control and logging.

\*\*Done:\*\* see `SNMP Proxy Forwarder <<https://www.pysnmp.com/snmpfwd/>>`\_.

#. SNMP Trap Receiver. We see this application as a simple yet flexible SNMP TRAP collector. It would listen on network sockets of different types receiving SNMP TRAP/INFORM notifications over any SNMP version and putting all the details into a database and possibly triggering external events.

#. Database backend for SNMP Simulator. We have already built a tool for simulating SNMP Agents based on a snapshot of their Management Instrumentation state. Current implementation uses a plain-text file for keeping and possibly managing the snapshot. Many users of the Simulator software requested a value variation feature to be supported so that simulated Agents would look live, not static. We consider this variation and also dependencies features would be best implemented as a relational database application. So we are planning to put some more efforts into the Simulator project as time permits.

\*\*Done:\*\* since `snmpsim-0.2.4 <<https://www.pysnmp.com/snmpsim/>>`\_.

If you need some particular feature - please, `open a feature request <<https://github.com/lexstudio/pysnmp/issues/new>>`\_ . Once we see a greater demand in particular area, we would re-arrange our development resources to meet it sooner.

You could greater speed up the development of particular feature by sponsoring it. Please get back to us to discuss details.

Contributions to the PySNMP source code is greatly appreciated as well. We require contributed

code to run with Python 3.7 through the latest Python version (which is 3.11 at the time of this writing). Contributed code will be redistributed under the terms of the same `license <<https://www.pysnmp.com/pysnmp/>>` as PySNMP is.

Found in path(s):

\* /opt/cola/permits/1924130722\_1711651705.2328918/0/pysnmp-lexstudio-5-0-34-tar-gz/pysnmp\_lexstudio-5.0.34/docs/source/development.rst

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Found in path(s):

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if mibBuilder.loadTexts: snmpUsmHmacSha2MIB.setDescription("Definitions of Object Identities needed for the use of HMAC-SHA2 Authentication Protocols by SNMP's User-based Security Model. Copyright (c) 2016 IETF Trust and the persons identified as authors of the code. All rights reserved. Redistribution and use in source and binary forms, with or without modification, is permitted pursuant to, and subject to the license terms contained in, the Simplified BSD License set forth in Section 4.c of the IETF Trust's Legal Provisions Relating to IETF Documents (<http://trustee.ietf.org/license-info>).")

Found in path(s):

\* /opt/cola/permits/1924130722\_1711651705.2328918/0/pysnmp-lexstudio-5-0-34-tar-gz/pysnmp\_lexstudio-5.0.34/pysnmp/smi/mibs/SNMP-USM-HMAC-SHA2-MIB.py

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Found in path(s):

\* /opt/cola/permits/1924130722\_1711651705.2328918/0/pysnmp-lexstudio-5-0-34-tar-gz/pysnmp\_lexstudio-5.0.34/README.md

## 1.93 pyopenssl 24.1.0

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## 1.94 starlette 0.37.2

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization

created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

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

| Release        | Derived from | Year      | Owner      | GPL-compatible? (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  |            |                     |
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#
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  "main",
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    "shell": "bash"
  },
],
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    ]
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],
]
}

```

Found in path(s):

\* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/.releaserc

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Found in path(s):

\* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/pysmi/error.py

\* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/pysmi/writer/callback.py

\* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/pysmi/reader/\_\_init\_\_.py  
 \* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/tests/test\_moduleidentity\_smiv2\_pysnmp.py  
 \* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/pysmi/borrower/\_\_init\_\_.py  
 \* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/pysmi/debug.py  
 \* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/pysmi/parser/null.py  
 \* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/tests/test\_zipreader.py  
 \* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/pysmi/mibinfo.py  
 \*  
 /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/pysmi/parser/dialect.py  
 \* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/pysmi/parser/smiv1compat.py  
 \* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/pysmi/codegen/jsdoc.py  
 \* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/pysmi/codegen/jfilters.py  
 \* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/pysmi/codegen/pysnmp.py  
 \* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/pysmi/searcher/\_\_init\_\_.py  
 \* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/pysmi/lexer/\_\_init\_\_.py  
 \* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/pysmi/searcher/base.py  
 \* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/pysmi/codegen/base.py  
 \* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/pysmi/writer/localfile.py  
 \*  
 /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/pysmi/reader/callback.py  
 \* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/tests/test\_notificationtype\_smiv2\_pysnmp.py  
 \* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/pysmi/parser/smi.py  
 \* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/pysmi/writer/\_\_init\_\_.py  
 \* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/tests/test\_modulecompliance\_smiv2\_pysnmp.py  
 \* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/pysmi/codegen/symtable.py  
 \* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/pysmi/lexer/base.py  
 \* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/pysmi/codegen/\_\_init\_\_.py  
 \* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/pysmi/scripts/mibdump.py  
 \*  
 /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/tests/test\_traptype\_smiv2\_pysnmp.py  
 \* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/pysmi/parser/smiv1.py  
 \* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/pysmi/lexer/smi.py  
 \* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/pysmi/searcher/pyfile.py  
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 \* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/pysmi/searcher/pypackage.py  
 \* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/pysmi/compat.py  
 \* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/pysmi/codegen/intermediate.py  
 \* /opt/cola/permits/1966005373\_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/pysmi/borrower/base.py  
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* /opt/cola/permits/1966005373_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/pysmi/borrower/pyfile.py
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```

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* /opt/cola/permits/1966005373_1718200461.3254707/0/v1-4-3-3-zip/pysmi-1.4.3/licenserc.yaml
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```

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.. include:: /includes/\_links.rst

SNMP SMI Compiler for Python

=====

.. toctree::

:maxdepth: 2

The PySMI library and tools are designed to parse, verify and transform `SNMP SMI`\_ MIB modules from their original ASN.1 form into JSON or `PySNMP`\_ representation.

This library is highly modular. The top-level component is called *\*compiler\** and it acts as main user-facing object. Most of other components are plugged into the *\*compiler\** object prior to its use.

Normally, users ask *\*compiler\** to perform certain transformation of

named MIB modules. The `*compiler*` will:

- \* Search its data sources for given MIB module (identified by name) noting their last modification times.
- \* Search compiler-managed repositories of already converted MIB modules for modules that are more recent than corresponding source MIB module.
- \* If freshly transformed MIB module is found, processing stops here.
- \* Otherwise compiler passes ASN.1 MIB module content to the `*lexer*` component.
- \* Lexer returns a sequence of tokenized ASN.1 MIB contents. Compiler then passes that sequence of tokens to the `*parser*` component.
- \* Parser runs LR algorithm on tokenized MIB thus transforming MIB contents into Abstract Syntax Tree (AST) and also noting what other MIB modules are referred to from the MIB being parsed.
- \* In case of parser failure, what is usually an indication of broken ASN.1 MIB syntax, compiler may attempt to fetch pre-transformed MIB contents from configured source. This process is called `*borrowing*` in PySMI.
- \* In case of successful parser completion, compiler will pass produced AST to `*code generator*` component.
- \* Code generator walks its input AST and performs actual data transformation.
- \* The above steps may be repeated for each of the MIB modules referred to as parser figures out. Once no more unresolved dependencies remain, compiler will call its `*writer*` component to store all transformed MIB modules.

The location of ASN.1 MIB modules and flavor of their syntax, as well as desired transformation format, is determined by respective components chosen and configured to compiler.

PySMI software is free and open-source. Project source code is hosted at ``PySMI GitHub repository`_`. This library is being distributed under 2-clause BSD License.

## Quick Start

-----

You already know something about SNMP SMI and have no courage to dive into this implementation? Try out quick start page!

```
.. toctree::  
   :maxdepth: 2
```

Return to PySNMP Homepage <<https://pysnmp.com>>  
/quick-start

## Documentation

-----

You can find conceptual and API documentation in the following section.

```
.. toctree::  
  :maxdepth: 2
```

```
/docs/index
```

## Samples

-----

We have a collection of sample scripts to help you get started with PySMI.

```
.. toctree::  
  :maxdepth: 2
```

```
/examples/index
```

## Troubleshooting

-----

If you are having trouble with PySMI, please check the following section.

```
.. toctree::  
  :maxdepth: 2
```

```
/troubleshooting
```

## Downloads

-----

Best way is usually to

```
.. code-block:: bash
```

```
pip install pysmi-lexstudio
```

If that does not work for you for some reason, you might need to read the following page.

```
.. toctree::  
  :maxdepth: 2
```

```
/download
```

## License

-----

```
.. toctree::  
    :maxdepth: 2
```

/license

## Release Notes

-----

We maintain the detailed log of changes to our software.

```
.. toctree::  
    :maxdepth: 1
```

/changelog

## MIB Files Archive

-----

The PySMI project maintains a collection of publicly available ASN.1 MIB files collected over the Internet at ``mibs.pysnmp.com`_`. You are welcome to use this MIBs archive however we can't guarantee any degree of consistency or reliability when it comes to these MIB modules.

The `*mibdump*` tool as well as many other utilities based on PySMI are programmed to use this MIB repository for automatic download and dependency resolution.

You can always reconfigure PySMI to use some other remote MIB repository instead or in addition to this one.

## Contact

-----

In case of questions or troubles using PySMI library, please open up a ``GitHub issue`_` at GitHub or ask on ``Stack Overflow`_`.

For other inquiries, please contact ``LeXtudio Inc.`_`.

More information about support options can be found in the following section.

```
.. toctree::  
    :maxdepth: 1
```

Support Options <<https://www.pysnmp.com/support>>

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## SNMP MIB Compiler

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PySMI is a pure-Python implementation of

[SNMP SMI]([https://en.wikipedia.org/wiki/Management\\_information\\_base](https://en.wikipedia.org/wiki/Management_information_base)) MIB parser.

This tool is designed to turn ASN.1 MIBs into various formats. As of this moment,

JSON and [PySNMP](<https://github.com/lexstudio/pysnmp>)

modules can be generated

from ASN.1 MIBs.

## Features

-----

- \* Understands SMIv1, SMIv2 and de-facto SMI dialects
- \* Turns MIBs into PySNMP classes and JSON documents
- \* Maintains an index of MIB objects over many MIB modules
- \* Automatically pulls ASN.1 MIBs from local directories, ZIP archives, and HTTP servers
- \* 100% Python, works with Python 3.8+

Rendered PySMI documentation can be found at [PySMI site](<https://www.pysnmp.com/pysmi>).

## How to use PySMI

-----

If you are using PySNMP, you might never notice PySMI presence - PySNMP calls PySMI for MIB download and compilation behind the scenes (you can still can do that manually by invoking `*mibdump*` tool).

To turn ASN.1 MIB into a JSON document, call `*mibdump*` tool like this:

...



```
$ mibdump --generate-mib-texts --destination-format json IF-MIB
Source MIB repositories: file:///usr/share/snmp/mibs, https://mibs.pysnmp.com/asn1/@mib@
Borrow missing/failed MIBs from: https://mibs.pysnmp.com/json/fulltexts/@mib@
Existing/compiled
MIB locations:
Compiled MIBs destination directory: .
MIBs excluded from code generation: RFC-1212, RFC-1215, RFC1065-SMI, RFC1155-SMI,
RFC1158-MIB, RFC1213-MIB, SNMPv2-CONF, SNMPv2-SMI, SNMPv2-TC, SNMPv2-TM
MIBs to compile: IF-MIB
Destination format: json
Parser grammar cache directory: not used
Also compile all relevant MIBs: yes
Rebuild MIBs regardless of age: yes
Do not create/update MIBs: no
Byte-compile Python modules: no (optimization level no)
Ignore compilation errors: no
Generate OID->MIB index: no
Generate texts in MIBs: yes
Keep original texts layout: no
Try various filenames while searching for MIB module: yes
Created/updated MIBs: IANAifType-MIB, IF-MIB, SNMPv2-MIB
Pre-compiled MIBs borrowed:
Up to date MIBs: SNMPv2-CONF, SNMPv2-SMI, SNMPv2-TC
Missing source MIBs:
Ignored MIBs:
Failed MIBs:
^^^
```

```
JSON document build from
[IF-MIB module](https://mibs.pysnmp.com/asn1/IF-MIB)
would hold information such as:
```

```
^^^ json
{
  "ifMIB": {
    "name": "ifMIB",
    "oid": "1.3.6.1.2.1.31",
    "class": "moduleidentity",
    "revisions": [
      "2007-02-15 00:00",
      "1996-02-28 21:55",
      "1993-11-08 21:55"
    ]
  },
  // ...
  "ifTestTable": {
    "name": "ifTestTable",
    "oid": "1.3.6.1.2.1.31.1.3",
```

```

    "nodetype": "table",
    "class": "objecttype",
    "maxaccess": "not-accessible"
  },
  "ifTestEntry": {
    "name": "ifTestEntry",
    "oid": "1.3.6.1.2.1.31.1.3.1",
    "nodetype": "row",
    "class": "objecttype",
    "maxaccess": "not-accessible",
    "augmentation": {
      "name": "ifTestEntry",
      "module": "IF-MIB",
      "object": "ifEntry"
    }
  },
  "ifTestId": {
    "name": "ifTestId",
    "oid": "1.3.6.1.2.1.31.1.3.1.1",
    "nodetype": "column",
    "class": "objecttype",
    "syntax": {
      "type": "TestAndIncr",
      "class": "type"
    }
  },

  "maxaccess": "read-write"
},
// ...
}
```

```

In general, converted MIBs capture all aspects of original (ASN.1) MIB contents and layout. The snippet above is just a partial example, but here is the complete [IF-MIB.json](https://mibs.pysnmp.com/json/fulltexts/IF-MIB.json) file.

Besides one-to-one MIB conversion, PySMI library can produce JSON index to facilitate fast MIB information lookup across large collection of MIB files.

For example, JSON index for [IP-MIB.json](https://mibs.pysnmp.com/json/asn1/IP-MIB), [TCP-MIB.json](https://mibs.pysnmp.com/json/asn1/TCP-MIB) and [UDP-MIB.json](https://mibs.pysnmp.com/json/asn1/UDP-MIB) modules would keep information like this:

```

``` json
{

```

```

"compliance": {
  "1.3.6.1.2.1.48.2.1.1": [
    "IP-MIB"
  ],
  "1.3.6.1.2.1.49.2.1.1": [
    "TCP-MIB"
  ],
  "1.3.6.1.2.1.50.2.1.1": [
    "UDP-MIB"
  ]
},
"identity": {
  "1.3.6.1.2.1.48": [

"IP-MIB"
  ],
  "1.3.6.1.2.1.49": [
    "TCP-MIB"
  ],
  "1.3.6.1.2.1.50": [
    "UDP-MIB"
  ]
},
"oids": {
  "1.3.6.1.2.1.4": [
    "IP-MIB"
  ],
  "1.3.6.1.2.1.5": [
    "IP-MIB"
  ],
  "1.3.6.1.2.1.6": [
    "TCP-MIB"
  ],
  "1.3.6.1.2.1.7": [
    "UDP-MIB"
  ],
  "1.3.6.1.2.1.49": [
    "TCP-MIB"
  ],
  "1.3.6.1.2.1.50": [
    "UDP-MIB"
  ]
}
}
}

```

With this example, *\*compliance\** and *\*identity\** keys point to *\*MODULE-COMPLIANCE\** and *\*MODULE-IDENTITY\** MIB objects, *\*oids\**

list top-level OIDs branches defined in MIB modules. Full index  
build over thousands of MIBs could be seen  
[here](https://mibs.pysnmp.com/json/index.json).

The PySMI library can automatically fetch required MIBs from HTTP sites  
or local directories. You could configure any MIB source available  
to you (including  
[https://mibs.pysnmp.com/asn1/](https://mibs.pysnmp.com/asn1/)) for that purpose.

How to get PySMI

-----

The pysmi package is distributed under terms and conditions of 2-clause  
BSD [license](https://www.pysnmp.com/pysmi/license.html). Source code is freely  
available as a GitHub [repo](https://github.com/lextudio/pysmi).

You could `pip install pysmi-lextudio` or download it from [PyPI](https://pypi.org/project/pysmi-lextudio/).

If something does not work as expected,  
[open an issue](https://github.com/lextudio/pysnmp/issues) at GitHub or  
post your question [on Stack Overflow](https://stackoverflow.com/questions/ask).

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# 1.102 typer 0.12.3

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## 1.103 distro 1.8.0

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# 1.104 aiofiles 23.2.1

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pycparser -- A C parser in Python

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\* /opt/cola/permits/1969205340\_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-0.6.0/pyasn1/codec/ber/decoder.py

\* /opt/cola/permits/1969205340\_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-0.6.0/pyasn1/codec/der/encoder.py

\* /opt/cola/permits/1969205340\_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-0.6.0/tests/compat/\_\_main\_\_.py

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* /opt/cola/permits/1969205340_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-0.6.0/pyasn1/type/tagmap.py
* /opt/cola/permits/1969205340_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-0.6.0/tests/codec/__main__.py
* /opt/cola/permits/1969205340_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-
0.6.0/tests/type/test_opentype.py
* /opt/cola/permits/1969205340_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-0.6.0/setup.py
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/opt/cola/permits/1969205340_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-0.6.0/tests/type/test_univ.py
* /opt/cola/permits/1969205340_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-0.6.0/pyasn1/type/univ.py
* /opt/cola/permits/1969205340_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-0.6.0/pyasn1/type/char.py
* /opt/cola/permits/1969205340_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-
0.6.0/pyasn1/codec/native/decoder.py
* /opt/cola/permits/1969205340_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-
0.6.0/pyasn1/type/opentype.py
* /opt/cola/permits/1969205340_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-
0.6.0/pyasn1/codec/ber/eoo.py
* /opt/cola/permits/1969205340_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-
0.6.0/tests/compat/test_integer.py
* /opt/cola/permits/1969205340_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-0.6.0/pyasn1/debug.py
* /opt/cola/permits/1969205340_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-
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/opt/cola/permits/1969205340_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-0.6.0/pyasn1/type/namedval.py
* /opt/cola/permits/1969205340_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-
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* /opt/cola/permits/1969205340_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-0.6.0/pyasn1/error.py
* /opt/cola/permits/1969205340_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-0.6.0/tests/__main__.py
* /opt/cola/permits/1969205340_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-
0.6.0/tests/codec/cer/test_decoder.py
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* /opt/cola/permits/1969205340_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-
0.6.0/tests/codec/test_streaming.py
* /opt/cola/permits/1969205340_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-
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* /opt/cola/permits/1969205340_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-0.6.0/tests/base.py
* /opt/cola/permits/1969205340_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-
0.6.0/pyasn1/compat/integer.py
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0.6.0/tests/codec/ber/test_decoder.py
* /opt/cola/permits/1969205340_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-
0.6.0/tests/type/test_constraint.py
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* /opt/cola/permits/1969205340_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-
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* /opt/cola/permits/1969205340_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-0.6.0/tests/type/test_useful.py
* /opt/cola/permits/1969205340_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-
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* /opt/cola/permits/1969205340_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-
0.6.0/tests/type/test_namedval.py
* /opt/cola/permits/1969205340_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-0.6.0/tests/type/test_tag.py
* /opt/cola/permits/1969205340_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-0.6.0/pyasn1/type/base.py
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/opt/cola/permits/1969205340_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-0.6.0/pyasn1/type/error.py
* /opt/cola/permits/1969205340_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-
0.6.0/pyasn1/codec/cer/encoder.py
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```

Metadata-Version: 2.1

Name: pyasn1

Version: 0.6.0

Summary: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)

Home-page: <https://github.com/pyasn1/pyasn1>

Author: Ilya Etingof

Author-email: [etingof@gmail.com](mailto:etingof@gmail.com)

Maintainer: pyasn1 maintenance organization  
Maintainer-email: Christian Heimes <christian@python.org>  
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Platform: any  
Classifier: Development Status :: 5 - Production/Stable  
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Requires-Python: >=3.8  
Description-Content-Type: text/markdown  
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ASN.1 library for Python

-----

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[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/)  
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status](https://github.com/pyasn1/pyasn1/actions/workflows/main.yml/badge.svg)](https://github.com/pyasn1/pyasn1/actions/workflows/main.yml)  
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This is a free and open source 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]([https://www.itu.int/rec/dologin\\_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items)).

**\*\*NOTE:\*\*** The package is now maintained by **\*Christian Heimes\*** and **\*Simon Pichugin\*** in project <https://github.com/pyasn1/pyasn1>.

## Features

-----

- \* Generic implementation of ASN.1 types (X.208)
- \* Standards compliant BER/CER/DER codecs
- \* Can operate on streams of serialized data
- \* Dumps/loads ASN.1 structures from Python types
- \* 100% Python, works with Python 3.8+
- \* MT-safe
- \* Contributed ASN.1 compiler [Asn1ate](<https://github.com/kimgr/asn1ate>)

## Why using pyasn1

-----

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](<http://www.oss.com/asn1/dubuisson.html>) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

## How to use pyasn1

-----

With pyasn1 you can build Python objects from ASN.1 data structures.  
For example, the following ASN.1 data structure:

```
```bash
Record ::= SEQUENCE {
  id    INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```
```

Could be expressed in pyasn1 like this:

```
```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            )
        ),
        DefaultedNamedType(
            'house', Integer(0).subtype(
                implicitTag=Tag(tagClassContext,
tagFormatSimple, 1)
            )
        )
    )
```
```

It is in the spirit of ASN.1 to take abstract data description  
and turn it into a programming language specific form.  
Once you have your ASN.1 data structure expressed in Python, you  
can use it along the lines of similar Python type (e.g. ASN.1  
`SET` is similar to Python `dict`, `SET OF` to `list`):

```
```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```
```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
...

```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```
```python
>>> from pyasn1.codec.der.decoder
import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
...

```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```
```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
...

```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```
```python
```



```

>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
...

```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [\[documentation\]\(https://pyasn1.readthedocs.io/en/latest/pyasn1/contents.html\)](https://pyasn1.readthedocs.io/en/latest/pyasn1/contents.html), compiled ASN.1 modules for different protocols and file formats could be found in the [pyasn1-modules \[repo\]\(https://github.com/pyasn1/pyasn1-modules\)](https://github.com/pyasn1/pyasn1-modules).

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You could `pip install pyasn1` or download it from [\[PyPI\]\(https://pypi.org/project/pyasn1/\)](https://pypi.org/project/pyasn1/).

If

something does not work as expected, [\[open an issue\]\(https://github.com/epyasn1/pyasn1/issues\)](https://github.com/epyasn1/pyasn1/issues) at GitHub or post your question [\[on Stack Overflow\]\(https://stackoverflow.com/questions/ask\)](https://stackoverflow.com/questions/ask) or try browsing pyasn1 [\[mailing list archives\]\(https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/\)](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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Found in path(s):

```
* /opt/cola/permits/1969205340_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-0.6.0/pyasn1.egg-info/PKG-INFO
```

```
* /opt/cola/permits/1969205340_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-0.6.0/PKG-INFO
```

No license file was found, but licenses were detected in source scan.

[metadata]

```
name = pyasn1
```

```
version = attr: pyasn1.__version__
description = Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
long_description = file: README.md
long_description_content_type = text/markdown
license = BSD-2-Clause
license_files = LICENSE.rst
url = https://github.com/pyasn1/pyasn1
author = Ilya Etingof
author_email = etingof@gmail.com
maintainer = pyasn1 maintenance organization
maintainer_email = Christian Heimes <christian@python.org>
project_urls =
  Documentation=https://pyasn1.readthedocs.io
  Source=https://github.com/pyasn1/pyasn1
  Issues=https://github.com/pyasn1/pyasn1/issues
  Changelog=https://pyasn1.readthedocs.io/en/latest/changelog.html
platforms = any
classifiers =
  Development Status :: 5 - Production/Stable
  Environment :: Console
  Intended Audience :: Developers
  Intended Audience :: Education
  Intended Audience :: Information Technology
  Intended Audience :: System
  Administrators
  Intended Audience :: Telecommunications Industry
  License :: OSI Approved :: BSD License
  Natural Language :: English
  Operating System :: OS Independent
  Programming Language :: Python :: 3
  Programming Language :: Python :: 3.8
  Programming Language :: Python :: 3.9
  Programming Language :: Python :: 3.10
  Programming Language :: Python :: 3.11
  Programming Language :: Python :: 3.12
  Programming Language :: Python :: Implementation :: CPython
  Programming Language :: Python :: Implementation :: PyPy
  Topic :: Communications
  Topic :: Software Development :: Libraries :: Python Modules

[options]
python_requires = >=3.8
zip_safe = True
setup_requires = setuptools
packages =
  pyasn1
  pyasn1.type
  pyasn1.compat
```

pyasn1.codec  
pyasn1.codec.ber  
pyasn1.codec.cer  
pyasn1.codec.der  
pyasn1.codec.native

[bdist\_wheel]  
universal = 1

[egg\_info]  
tag\_build =  
tag\_date = 0

Found in path(s):

\* /opt/cola/permits/1969205340\_1712771893.7331495/0/pyasn1-0-6-0-tar-gz/pyasn1-0.6.0/setup.cfg

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ASN.1 library for Python

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[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.org/project/pyasn1)

[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/)

[![Build

status](https://github.com/pyasn1/pyasn1/actions/workflows/main.yml/badge.svg)](https://github.com/pyasn1/pyasn1/actions/workflows/main.yml)

[![Coverage

Status](https://img.shields.io/codecov/c/github/pyasn1/pyasn1.svg)](https://codecov.io/github/pyasn1/pyasn1)

[![GitHub license](https://img.shields.io/badge/license-BSD-

blue.svg)](https://raw.githubusercontent.com/pyasn1/pyasn1/master/LICENSE.txt)

This is a free and open source 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](https://www.itu.int/rec/dologin\_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

**\*\*NOTE:\*\***

The package is now maintained by *\*Christian Heimes\** and  
*\*Simon Pichugin\** in project <https://github.com/pyasn1/pyasn1>.

Features

-----

- \* Generic implementation of ASN.1 types (X.208)
- \* Standards compliant BER/CER/DER codecs
- \* Can operate on streams of serialized data
- \* Dumps/loads ASN.1 structures from Python types
- \* 100% Python, works with Python 3.8+

\* MT-safe

\* Contributed ASN.1 compiler [Asn1ate](<https://github.com/kimgr/asn1ate>)

## Why using pyasn1

-----

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology.

Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.

[Communication between heterogeneous systems](<http://www.oss.com/asn1/dubuisson.html>) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

## How to use pyasn1

-----

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```
```bash
Record ::= SEQUENCE {
  id    INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```
```

Could be expressed in pyasn1 like this:

```
```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
```

```

OptionalNamedType(
    'room', Integer().subtype(
        implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
    )
),
DefaultedNamedType(
    'house', Integer(0).subtype(
        implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
    )
)
)
)
)
...

```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
...

```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000:
 30 07 02 01 7B 80 02 01 41
...

```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())

```

```

>>>
>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
...

```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321,
 'house': 0}
...

```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
...

```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](<https://pyasn1.readthedocs.io/en/latest/pyasn1/contents.html>),

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post your question [on Stack Overflow](https://stackoverflow.com/questions/ask)  
or try browsing pyasn1  
[mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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## 1.111 aiohttp 3.9.5

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## 1.126 multidict 6.0.5



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```
---input---
```

```
!%$^* _ _ _ . _ + + + = = = -crazy-symbol
```

```
---tokens---
```

```
'!%$^* _ _ _ . _ + + + = = = -crazy-symbol' Name.Variable
```

```
'\n' Text.Whitespace
```

```
'# New ports collection makefile for: python25\n' Comment
```

```

# Date created:      3 July 2003\n' Comment

# Whom:             Hye-Shik Chang <perky@FreeBSD.org>\n' Comment

#\n'      Comment

# $FreeBSD: ports/lang/python25/Makefile,v 1.145 2007/10/03 23:22:04 edwin Exp $\n' Comment

\n'      Text.Whitespace

'PORTNAME' Name.Variable
'='      Operator
\t'      Text.Whitespace
'python25' Text
\n'      Text.Whitespace

'PORTVERSION' Name.Variable
'='      Operator
\t'      Text.Whitespace
'2'      Literal.Number
'.5.1'   Text
\n'      Text.Whitespace

'CATEGORIES' Name.Variable
'='      Operator
\t'      Text.Whitespace
'lang'   Text
''       Text.Whitespace
'python' Text
''       Text.Whitespace
'ipv6'   Text
\n'      Text.Whitespace

'MASTER_SITES' Name.Variable
'='      Operator
\t'      Text.Whitespace
'${'     Literal.String.Interpol
'PYTHON_MASTER_SITES' Name.Variable
'}'
        Literal.String.Interpol
\n'      Text.Whitespace

'MASTER_SITE_SUBDIR' Name.Variable
'='      Operator
\t'      Text.Whitespace
'${'     Literal.String.Interpol
'PYTHON_MASTER_SITE_SUBDIR' Name.Variable
'}'      Literal.String.Interpol

```

'\n'      Text.Whitespace  
  
 'DISTFILES' Name.Variable  
 '='      Operator  
 '\t'      Text.Whitespace  
 '\${'      Literal.String.Interpol  
 'PYTHON\_DISTFILE' Name.Variable  
 '}'      Literal.String.Interpol  
 '\n'      Text.Whitespace  
  
 '\n'      Text.Whitespace  
  
 'MAINTAINER' Name.Variable  
 '='      Operator  
 '\t'      Text.Whitespace  
 'python@FreeBSD.org' Text  
 '\n'      Text.Whitespace  
  
 'COMMENT'    Name.Variable  
 '?='      Operator  
 '\t'      Text.Whitespace  
 'An'      Text  
 ''      Text.Whitespace  
 'interpreted' Text  
 ''      Text.Whitespace  
 'object-oriented' Text  
 ''      Text.Whitespace  
 'programming' Text  
 ''      Text.Whitespace  
 'language'    Text  
 '\n'  
         Text.Whitespace  
  
 '\n'      Text.Whitespace  
  
 'DIST\_SUBDIR' Name.Variable  
 '='      Operator  
 '\t'      Text.Whitespace  
 'python'    Text  
 '\n'      Text.Whitespace  
  
 'WRKSRC'    Name.Variable  
 '='      Operator  
 '\t\t'     Text.Whitespace  
 '\${'      Literal.String.Interpol  
 'PYTHON\_WRKSRC' Name.Variable  
 '}'      Literal.String.Interpol  
 '/portbld.static' Text

'\n' Text.Whitespace  
  
 'PATCH\_WRKSRC' Name.Variable  
 '=' Operator  
 '\t' Text.Whitespace  
 '\${' Literal.String.Interpol  
 'PYTHON\_WRKSRC' Name.Variable  
 '}' Literal.String.Interpol  
 '\n' Text.Whitespace  
  
 'GNU\_CONFIGURE' Name.Variable  
 '=' Operator  
 '\t' Text.Whitespace  
 'yes' Text  
 '\n' Text.Whitespace  
  
 'CONFIGURE\_TARGET' Name.Variable  
 '=' Operator  
 '\t' Text.Whitespace  
 '--build' Text  
 '=' Operator  
 '\${' Literal.String.Interpol  
 'MACHINE\_ARCH' Name.Variable  
 '}' Literal.String.Interpol  
 '-portbld-freebsd'  
 Text  
 '\${' Literal.String.Interpol  
 'OSREL' Name.Variable  
 '}' Literal.String.Interpol  
 '\n' Text.Whitespace  
  
 'CONFIGURE\_SCRIPT' Name.Variable  
 '=' Operator  
 '\t' Text.Whitespace  
 './configure' Text  
 '' Text.Whitespace  
 '# must be relative\n' Comment.Single  
  
 'CONFIGURE\_ENV' Name.Variable  
 '=' Operator  
 '\t' Text.Whitespace  
 'OPT' Name.Variable  
 '=' Operator  
 "" Literal.String.Double  
 '\${' Literal.String.Interpol  
 'CFLAGS' Name.Variable  
 '}' Literal.String.Interpol  
 "" Literal.String.Double

' ' Text.Whitespace  
'SVNVERSION' Name.Variable  
'=' Operator  
'''echo freebsd''' Literal.String.Double  
'\n' Text.Whitespace

'MAKE\_ENV' Name.Variable  
'=' Operator  
'\t' Text.Whitespace  
'VPATH' Name.Variable  
'=' Operator  
''' Literal.String.Double  
'\${' Literal.String.Interpol  
'PYTHON\_WRKSRC'  
Name.Variable  
'}' Literal.String.Interpol  
''' Literal.String.Double  
'\n' Text.Whitespace

'INSTALLS\_SHLIB' Name.Variable  
'=' Operator  
'\t' Text.Whitespace  
'yes' Text  
'\n' Text.Whitespace

'INSTALL\_TARGET' Name.Variable  
'=' Operator  
'\t' Text.Whitespace  
'altinstall' Text  
'\n' Text.Whitespace

'MAN1' Name.Variable  
'=' Operator  
'\t\t' Text.Whitespace  
'\${' Literal.String.Interpol  
'PYTHON\_VERSION' Name.Variable  
'}' Literal.String.Interpol  
'.1' Text  
'\n' Text.Whitespace

\n' Text.Whitespace

'USE\_PYTHON' Name.Variable  
'=' Operator  
'\t' Text.Whitespace  
'yes' Text  
'\n' Text.Whitespace

'PYTHON\_VERSION' Name.Variable

'=' Operator

'\t' Text.Whitespace

'python2.5' Text

'\n' Text.Whitespace

'PYTHON\_NO\_DEPENDS' Name.Variable

'='

Operator

'\t' Text.Whitespace

'yes' Text

'\n' Text.Whitespace

'\n' Text.Whitespace

'SHARED\_WKSRRC' Name.Variable

'=' Operator

'\t' Text.Whitespace

'\${' Literal.String.Interpol

'PYTHON\_WKSRRC' Name.Variable

'}' Literal.String.Interpol

'/portbld.shared' Text

'\n' Text.Whitespace

'PLIST' Name.Variable

'=' Operator

'\t\t' Text.Whitespace

'\${' Literal.String.Interpol

'WRKDIR' Name.Variable

'}' Literal.String.Interpol

'/PLIST' Text

'\n' Text.Whitespace

'PLIST\_TEMPLATE' Name.Variable

'?=' Operator

'\${' Literal.String.Interpol

'PKGDIR' Name.Variable

'}' Literal.String.Interpol

'/pkg-plist' Text

'\n' Text.Whitespace

'PLIST\_SUB' Name.Variable

'=' Operator

'\t' Text.Whitespace

'PYVER' Name.Variable

'=' Operator

'\${' Literal.String.Interpol

'PYTHON\_VERSION' Name.Variable

':' Punctuation  
 'S' Name.Variable  
 '/python/' Punctuation  
 '}' Literal.String.Interpol  
 '' Text.Whitespace  
 '\\n' Literal.String.Escape  
  
 '\\t' Text.Whitespace  
 'PYVER\_WITHPAT' Name.Variable  
 '=' Operator  
 '\${' Literal.String.Interpol  
 'PORTVERSION' Name.Variable  
 ':' Punctuation  
 'S' Name.Variable  
 '/c/c/' Punctuation  
 '}' Literal.String.Interpol  
 '\\n' Text.Whitespace  
  
 'DEMODIR' Name.Variable  
 '=' Operator  
 '\\t' Text.Whitespace  
 '\${' Literal.String.Interpol  
 'PREFIX' Name.Variable  
 '}' Literal.String.Interpol  
 '/share/examples/' Text  
 '\${' Literal.String.Interpol  
 'PYTHON\_VERSION' Name.Variable  
 '}' Literal.String.Interpol  
 '\\n' Text.Whitespace  
  
 'TOOLS DIR' Name.Variable  
 '=' Operator  
 '\\t' Text.Whitespace  
 '\${' Literal.String.Interpol  
 'PREFIX' Name.Variable  
 '}'  
     Literal.String.Interpol  
 '/share/' Text  
 '\${' Literal.String.Interpol  
 'PYTHON\_VERSION' Name.Variable  
 '}' Literal.String.Interpol  
 '\\n' Text.Whitespace  
  
 '\\n' Text.Whitespace  
  
 'BIN\_SCRIPTS' Name.Variable  
 '=' Operator



```

\t'      Text.Whitespace
'idle'   Text
''       Text.Whitespace
'pydoc'  Text
''       Text.Whitespace
'python' Text
''       Text.Whitespace
'python-shared' Text
''       Text.Whitespace
'smtpd.py' Text
''       Text.Whitespace
'python-config' Text
''       Text.Whitespace
'\\n'    Literal.String.Escape

\t\t'    Text.Whitespace
'python-shared-config' Text
'\n'     Text.Whitespace

'BINLINKS_SUB' Name.Variable
'='      Operator
\t'      Text.Whitespace
'-e'     Text
''       Text.Whitespace
"s,smtpd,smtpd${PYTHON_VER}," Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

\t\t'    Text.Whitespace
'-e'     Text
        Text
''       Text.Whitespace
"s,(idle|pydoc|python-shared|python),\\1${PYTHON_VER}," Literal.String.Single
'\n\n'   Text.Whitespace

'OPTIONS' Name.Variable
'='      Operator
\t'      Text.Whitespace
'THREADS' Text
''       Text.Whitespace
"Enable thread support" Literal.String.Double
''       Text.Whitespace
'on'     Text
''       Text.Whitespace
'\\n'    Literal.String.Escape

\t\t'    Text.Whitespace
'HUGE_STACK_SIZE' Text

```

```

''      Text.Whitespace
'''Use a larger thread stack''' Literal.String.Double
''      Text.Whitespace
'off'   Text
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t'    Text.Whitespace
'UCS4'  Text
''      Text.Whitespace
'''Use UCS4 for unicode support''' Literal.String.Double
''      Text.Whitespace
'on'    Text
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t'    Text.Whitespace
'PYMALLOC'
Text
''      Text.Whitespace
'''Use python\s internal malloc''' Literal.String.Double
''      Text.Whitespace
'on'    Text
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t'    Text.Whitespace
'IPV6'  Text
''      Text.Whitespace
'''Enable IPv6 support''' Literal.String.Double
''      Text.Whitespace
'on'    Text
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t'    Text.Whitespace
'FPECTL' Text
''      Text.Whitespace
'''Enable floating point exception handling''' Literal.String.Double
''      Text.Whitespace
'off'   Text
'\n\n'  Text.Whitespace

'.include <bsd.port.pre.mk>\n' Comment.Preproc

'\n'    Text.Whitespace

'.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}\n' Comment.Preproc

```

```

'MLINKS' Name.Variable
'=' Operator
'\t' Text.Whitespace
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'.1'
Text
'' Text.Whitespace
'python.1' Text
'\n' Text.Whitespace

'PLIST_SUB' Name.Variable
'+=' Operator
'\t' Text.Whitespace
'IF_DEFAULT' Name.Variable
'=' Operator
'''' Literal.String.Double
'\n' Text.Whitespace

'.else\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+=' Operator
'\t' Text.Whitespace
'IF_DEFAULT' Name.Variable
'=' Operator
'"@comment "' Literal.String.Double
'\n' Text.Whitespace

'.endif\n' Comment.Preproc

'\n' Text.Whitespace

'# workaround for a bug in base curses.h.\n' Comment

'CFLAGS' Name.Variable
'+=' Operator
'\t' Text.Whitespace
'-D__wchar_t' Text
'=' Operator
'wchar_t' Text
'\n' Text.Whitespace

'\n' Text.Whitespace

'.if !defined(WITHOUT_THREADS)\n' Comment.Preproc

```

```

'CONFIGURE_ARGS' Name.Variable
'+='      Operator
'\t'      Text.Whitespace
'--with-threads'
Text
'\n'      Text.Whitespace

'CFLAGS'   Name.Variable
'+='      Operator
'\t\t'    Text.Whitespace
'${'      Literal.String.Interpol
'PTHREAD_CFLAGS' Name.Variable
'}'      Literal.String.Interpol
'\n'      Text.Whitespace

'.if defined(WITHOUT_HUGE_STACK_SIZE)\n' Comment.Preproc

'CFLAGS'   Name.Variable
'+='      Operator
'\t\t'    Text.Whitespace
'-DTHREAD_STACK_SIZE' Text
'='       Operator
'0x20000' Text
'\n'      Text.Whitespace

'.else\n'   Comment.Preproc

'CFLAGS'   Name.Variable
'+='      Operator
'\t\t'    Text.Whitespace
'-DTHREAD_STACK_SIZE' Text
'='       Operator
'0x100000' Text
'\n'      Text.Whitespace

'.endif # defined(WITHOUT_HUGE_STACK_SIZE)\n' Comment.Preproc

'CONFIGURE_ENV' Name.Variable
'+='      Operator
'\t\t'    Text.Whitespace
'LDFLAGS'  Name.Variable
'='       Operator
'"'       Literal.String.Double
'${'      Literal.String.Interpol
'PTHREAD_LIBS'
Name.Variable
'}'      Literal.String.Interpol

```

```

''      Literal.String.Double
'${'    Literal.String.Interpol
'LDFLAGS' Name.Variable
'}'     Literal.String.Interpol
''''    Literal.String.Double
'\n'    Text.Whitespace

'.else\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='    Operator
'\t'    Text.Whitespace
'--without-threads' Text
'\n'    Text.Whitespace

'.if defined(LDFLAGS)\n' Comment.Preproc

'CONFIGURE_ENV' Name.Variable
'+='    Operator
'\t\t'  Text.Whitespace
'LDFLAGS' Name.Variable
'='     Operator
''''    Literal.String.Double
'${'    Literal.String.Interpol
'LDFLAGS' Name.Variable
'}'     Literal.String.Interpol
''''    Literal.String.Double
'\n'    Text.Whitespace

'.endif # defined(LDFLAGS)\n' Comment.Preproc

'.endif # !defined(WITHOUT_THREADS)\n' Comment.Preproc

'\n'    Text.Whitespace

'.if !defined(WITHOUT_UCS4) && !defined(WITH_UCS2)\n'
Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='    Operator
'\t'    Text.Whitespace
'--enable-unicode' Text
'='     Operator
'ucs4'  Text
'\n'    Text.Whitespace

'.endif\n' Comment.Preproc

```

```

\n'      Text.Whitespace

'.if defined(WITHOUT_PYMALLOC)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='     Operator
'  '     Text.Whitespace
'--without-pymalloc' Text
\n'     Text.Whitespace

'.endif\n'  Comment.Preproc

\n'      Text.Whitespace

'.if ${ARCH} == i386\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+='     Operator
'\t'     Text.Whitespace
'X86_ONLY' Name.Variable
'='     Operator
''''     Literal.String.Double
\n'     Text.Whitespace

'.else\n'  Comment.Preproc

'PLIST_SUB' Name.Variable
'+='     Operator
'\t'     Text.Whitespace
'X86_ONLY' Name.Variable
'='     Operator
''@comment ''' Literal.String.Double
\n'     Text.Whitespace

'.endif\n'
  Comment.Preproc

'.if ${ARCH} == amd64 || ${ARCH} == ia64 || ${ARCH} == sparc64 || ${ARCH} == alpha\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+='     Operator
'  '     Text.Whitespace
'32BIT_ONLY' Name.Variable
'='     Operator
''@comment ''' Literal.String.Double
\n'     Text.Whitespace

'.else\n'  Comment.Preproc

```

```

'PLIST_SUB' Name.Variable
'+=' Operator
' ' Text.Whitespace
'32BIT_ONLY' Name.Variable
'=' Operator
'''' Literal.String.Double
'\n' Text.Whitespace

'.endif\n' Comment.Preproc

'.if ${ARCH} == sparc64\n' Comment.Preproc

'CFLAGS' Name.Variable
'+=' Operator
' ' Text.Whitespace
'-DPYTHON_DEFAULT_RECURSION_LIMIT' Text
'=' Operator
'900' Literal.Number
'\n' Text.Whitespace

'.endif\n' Comment.Preproc

'\n' Text.Whitespace

'.if !exists(/usr/bin/ypcat) # the world with NO_NIS\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+='
Operator
'\t' Text.Whitespace
'NO_NIS' Name.Variable
'=' Operator
'["@comment"] Literal.String.Double
'\n' Text.Whitespace

'.else\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+=' Operator
'\t' Text.Whitespace
'NO_NIS' Name.Variable
'=' Operator
'''' Literal.String.Double
'\n' Text.Whitespace

'.endif\n' Comment.Preproc

```

```

'\n'      Text.Whitespace

'.if !defined(WITHOUT_IPV6)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='      Operator
''        Text.Whitespace
'--enable-ipv6' Text
'\n'      Text.Whitespace

'.else\n'  Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='      Operator
''        Text.Whitespace
'--disable-ipv6' Text
'\n'      Text.Whitespace

'.endif\n' Comment.Preproc

'\n'      Text.Whitespace

'.if defined(WITH_FPECTL)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='      Operator
''        Text.Whitespace
'--with-fpectl'
Text
'\n'      Text.Whitespace

'.endif\n' Comment.Preproc

'\n'      Text.Whitespace

'.if ${OSVERSION} >= 700000\n' Comment.Preproc

'PLATFORMS' Name.Variable
'='        Operator
'plat-freebsd4' Text
''         Text.Whitespace
'plat-freebsd5' Text
''         Text.Whitespace
'plat-freebsd6' Text
'\n'      Text.Whitespace

'.elif ${OSVERSION} >= 600000\n' Comment.Preproc

```



```

'PLATFORMS' Name.Variable
'=' Operator
'plat-freebsd4' Text
'' Text.Whitespace
'plat-freebsd5' Text
'' Text.Whitespace
'plat-freebsd7' Text
'\n' Text.Whitespace

'.else\n' Comment.Preproc

'PLATFORMS' Name.Variable
'=' Operator
'plat-freebsd4' Text
'' Text.Whitespace
'plat-freebsd6' Text
'' Text.Whitespace
'plat-freebsd7' Text
'\n' Text.Whitespace

'.endif\n' Comment.Preproc

'\n' Text.Whitespace

'pre-patch' Name.Function
':' Operator
'\n' Text.Whitespace

'\t'
Text.Whitespace
'${' Literal.String.Interpol
'MKDIR' Name.Variable
'}' Literal.String.Interpol
'' Text.Whitespace
'${' Literal.String.Interpol
'WRKSRC' Name.Variable
'}' Literal.String.Interpol
'' Text.Whitespace
'${' Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Modules' Text
'\n\t' Text.Whitespace
'${' Literal.String.Interpol
'SED' Name.Variable
'}' Literal.String.Interpol
'' Text.Whitespace
'-e' Text

```

```

''      Text.Whitespace
'''1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},''' Literal.String.Single
''      Text.Whitespace
\\n'    Literal.String.Escape

\t\t'  Text.Whitespace
${'    Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
}'     Literal.String.Interpol
'/Tools/scripts/pydoc' Text
''     Text.Whitespace
>'     Text
''

    Text.Whitespace
${'    Literal.String.Interpol
'WRKDIR' Name.Variable
}'     Literal.String.Interpol
'/pydoc2.5' Text
\\n\t'  Text.Whitespace
${'    Literal.String.Interpol
'SED'   Name.Variable
}'     Literal.String.Interpol
''     Text.Whitespace
'-e'   Text
''     Text.Whitespace
'''1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},''' Literal.String.Single
''     Text.Whitespace
\\n'    Literal.String.Escape

\t\t'  Text.Whitespace
${'    Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
}'     Literal.String.Interpol
'/Tools/scripts/idle' Text
''     Text.Whitespace
>'     Text
''     Text.Whitespace
${'    Literal.String.Interpol
'WRKDIR' Name.Variable
}'     Literal.String.Interpol
'/idle2.5' Text
\\n\t'  Text.Whitespace
${'    Literal.String.Interpol
'SED'   Name.Variable
}'     Literal.String.Interpol
''

    Text.Whitespace
'-e'   Text

```

```

''      Text.Whitespace
"'1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},'" Literal.String.Single
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t'    Text.Whitespace
'${'    Literal.String.Interpol
'PATCH_WKRSRC' Name.Variable
'}'     Literal.String.Interpol
'/Lib/smtpd.py' Text
''      Text.Whitespace
'>'     Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'WRKDIR' Name.Variable
'}'     Literal.String.Interpol
'/smtpd2.5.py' Text
'\n\t'  Text.Whitespace
'${'    Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-e'    Text
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t\t'  Text.Whitespace
"'s,/usr/doc/python-docs-,${PREFIX}/share/doc/python,g'" Literal.String.Single
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t\t'
      Text.Whitespace
'${'    Literal.String.Interpol
'PATCH_WKRSRC' Name.Variable
'}'     Literal.String.Interpol
'/Lib/pydoc.py' Text
'\n\t'  Text.Whitespace
'${'    Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-e'    Text
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t\t'  Text.Whitespace
'\s/^\( *prefixes = .*\\)\$\\1, "${X11BASE}"|g'" Literal.String.Single

```

```

''      Text.Whitespace
\\n'    Literal.String.Escape

\t\t'  Text.Whitespace
'${'    Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'     Literal.String.Interpol
'/Lib/site.py' Text
\n\t'   Text.Whitespace
'${'    Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-e'    Text
''      Text.Whitespace
\\n'    Literal.String.Escape

\t\t'
Text.Whitespace
""s^\t\\(\\.ASDLGEN.*\\)\${\t${TRUE}}|g"" Literal.String.Single
''      Text.Whitespace
\\n'    Literal.String.Escape

\t\t'  Text.Whitespace
'${'    Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'     Literal.String.Interpol
'/Makefile.pre.in' Text
\n\n\t' Text.Whitespace
'${'    Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-e'    Text
''      Text.Whitespace
\\n'    Literal.String.Escape

\t\t'  Text.Whitespace
""s*\\(\\.INSTALL_SCRIPT.*\\)python-config\${|#port \\|1"" Literal.String.Single
''      Text.Whitespace
\\n'    Literal.String.Escape

\t\t'  Text.Whitespace
'${'    Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'     Literal.String.Interpol
'/Makefile.pre.in' Text
\n\n\t' Text.Whitespace

```

```

'${'    Literal.String.Interpol
'SED'   Name.Variable
'}'
    Literal.String.Interpol
''      Text.Whitespace
'-e'    Text
''      Text.Whitespace
"s|^#!.*#!${PREFIX}/bin/${PYTHON_VERSION}|" Literal.String.Single
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t'    Text.Whitespace
'${'    Literal.String.Interpol
'PATCH_WKSR' Name.Variable
'}'     Literal.String.Interpol
'/Misc/python-config.in' Text
''      Text.Whitespace
'>'     Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'WRKDIR' Name.Variable
'}'     Literal.String.Interpol
'/'     Text
'${'    Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'     Literal.String.Interpol
'-config' Text
'\n\t'  Text.Whitespace
'${'    Literal.String.Interpol
'SED'   Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-e'    Text
''      Text.Whitespace
"s|^#!.*#!${PREFIX}/bin/${PYTHON_VERSION:S/thon/thon-shared/}|"
Literal.String.Single
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t'    Text.Whitespace
'${'    Literal.String.Interpol
'PATCH_WKSR' Name.Variable
'}'     Literal.String.Interpol
'/Misc/python-config.in' Text
''      Text.Whitespace
'>'     Text
''      Text.Whitespace
'${'    Literal.String.Interpol

```

```

'WRKDIR' Name.Variable
'}' Literal.String.Interpol
 '/' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':' Punctuation
'S' Name.Variable
'/thon/thon-shared/' Punctuation
'}' Literal.String.Interpol
'-config' Text
'\n\n' Text.Whitespace

'.if defined(WITH_FPECTL) && ${ARCH} == i386\n' Comment.Preproc

'\t' Text.Whitespace
'${' Literal.String.Interpol
'MKDIR' Name.Variable
'}' Literal.String.Interpol
'' Text.Whitespace
'${' Literal.String.Interpol
'WRKSRC' Name.Variable
'}'
    Literal.String.Interpol
'/Modules' Text
'\n\t' Text.Whitespace
'${' Literal.String.Interpol
'ECHO' Name.Variable
'}' Literal.String.Interpol
'' Text.Whitespace
'''fpectl fpectlmodule.c''' Literal.String.Double
'' Text.Whitespace
'>>' Text
'' Text.Whitespace
'${' Literal.String.Interpol
'WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Modules/Setup.dist' Text
'\n' Text.Whitespace

'.endif\n' Comment.Preproc

'\n' Text.Whitespace

'post-configure' Name.Function
':' Operator
'\n' Text.Whitespace

'\t' Text.Whitespace

```

```

'${'    Literal.String.Interpol
'TAR'   Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-C'    Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'WRKSRC' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-cf'
    Text
''      Text.Whitespace
'-'     Text
''      Text.Whitespace
':'     Text
''      Text.Whitespace
'|'     Punctuation
''      Text.Whitespace
'${'    Literal.String.Interpol
'TAR'   Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-C'    Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-xf'   Text
''      Text.Whitespace
'-'     Text
'\n\t'  Text.Whitespace
'${'    Literal.String.Interpol
'LN'    Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-sf'   Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'     Literal.String.Interpol
'/Lib'  Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'WRKSRC'
    Name.Variable
'}'     Literal.String.Interpol

```

```

'/Lib'    Text
'\n\t'   Text.Whitespace
'${'     Literal.String.Interpol
'SED'    Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'-e'     Text
''       Text.Whitespace
"s,^\(LDLIBRARY=\).*$$,\|1libpython$$ (VERSION).so," Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

\t\t'   Text.Whitespace
'-e'     Text
''       Text.Whitespace
"s,^\(BLDLIBRARY=\).*$$,\|1-L. -lpython$$ (VERSION)," Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

\t\t'   Text.Whitespace
'-e'     Text
''       Text.Whitespace
"s,^\(CFLAGSFORSHARED=\).*$$,\|1$$ (CCSHARED)," Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

\t\t'   Text.Whitespace
'-e'     Text
''       Text.Whitespace
"s,^\(CFLAGSFORSHARED=\).*$$,\|1$$ (CCSHARED)," Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

\t\t'   Text.Whitespace
'-e'     Text
''       Text.Whitespace
"s,^\(Makefile Modules/config.c:.*\)Makefile.pre,\|1,"
Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

\t\t'   Text.Whitespace
'-e'     Text
''       Text.Whitespace
"s,^\(.(BUILDPYTHON)\|:.*\).(LIBRARY),\|1," Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

\t\t'   Text.Whitespace
'-e'     Text
''       Text.Whitespace
"s,^\(.(BUILDPYTHON):.*\).(LIBRARY),\|1," Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

```



`\t` Text.Whitespace  
`#{` Literal.String.Interpol  
`WRKSR` Name.Variable  
`}` Literal.String.Interpol  
`/Makefile` Text  
`'` Text.Whitespace  
`>` Text  
`'` Text.Whitespace  
`#{` Literal.String.Interpol  
`SHARED_WRKSR` Name.Variable  
`}` Literal.String.Interpol  
`/Makefile` Text  
`\n\n` Text.Whitespace

`'pre-build` Name.Function  
`:` Operator  
`\n`  
Text.Whitespace

`\t` Text.Whitespace  
`'cd` Name.Builtin  
`'` Text.Whitespace  
`#{` Literal.String.Interpol  
`SHARED_WRKSR` Name.Variable  
`}` Literal.String.Interpol  
`:` Punctuation  
`'` Text.Whitespace  
`\\n` Literal.String.Escape

`\t` Text.Whitespace  
`#{` Literal.String.Interpol  
`SETENV` Name.Variable  
`}` Literal.String.Interpol  
`'` Text.Whitespace  
`#{` Literal.String.Interpol  
`MAKE_ENV` Name.Variable  
`}` Literal.String.Interpol  
`'` Text.Whitespace  
`#{` Literal.String.Interpol  
`MAKE` Name.Variable  
`}` Literal.String.Interpol  
`'` Text.Whitespace  
`lib` Text  
`#{` Literal.String.Interpol  
`PYTHON_VERSION` Name.Variable  
`}` Literal.String.Interpol  
`.so` Text  
`'` Text.Whitespace

'python' Text  
 ';' Punctuation  
 '' Text.Whitespace  
 '\\n' Literal.String.Escape  
  
 '\t' Text.Whitespace  
 '\${' Literal.String.Interpol  
 'LN' Name.Variable  
 '}' Literal.String.Interpol  
 '' Text.Whitespace  
 '-f' Text  
 '' Text.Whitespace  
 'lib' Text  
 '\${' Literal.String.Interpol  
 'PYTHON\_VERSION' Name.Variable  
 '}' Literal.String.Interpol  
 '.so' Text  
 '' Text.Whitespace  
 'lib' Text  
 '\${' Literal.String.Interpol  
 'PYTHON\_VERSION' Name.Variable  
 '}' Literal.String.Interpol  
 '.so.1' Text  
 ';' Punctuation  
 '' Text.Whitespace  
 '\\n' Literal.String.Escape  
  
 '\t' Text.Whitespace  
 '\${' Literal.String.Interpol  
 'LN' Name.Variable  
 '}' Literal.String.Interpol  
 '' Text.Whitespace  
 '-f' Text  
 '' Text.Whitespace  
 'python' Text  
 '' Text.Whitespace  
 '\${' Literal.String.Interpol  
 'PYTHON\_VERSION' Name.Variable  
 ':'  
 Punctuation  
 'S' Name.Variable  
 '/thon/thon-shared/' Punctuation  
 '}' Literal.String.Interpol  
 '\\n\\n' Text.Whitespace  
  
 'pre-su-install' Name.Function  
 ':' Operator

```

'\n'      Text.Whitespace

'.for platform in ${PLATFORMS}\n' Comment.Preproc

\t'      Text.Whitespace
'${'     Literal.String.Interpol
'MKDIR'   Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'${'     Literal.String.Interpol
'PYTHONPREFIX_LIBDIR' Name.Variable
'}'      Literal.String.Interpol
 '/'     Text
'${'     Literal.String.Interpol
'platform' Name.Variable
'}'      Literal.String.Interpol
'\n'     Text.Whitespace

```

```

'.for file in IN.py regen\n' Comment.Preproc

```

```

\t'      Text.Whitespace
'${'     Literal.String.Interpol
'INSTALL_DATA' Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'${'     Literal.String.Interpol
'WRKSRC'   Name.Variable
'}'
Literal.String.Interpol
'/Lib/'   Text
'${'     Literal.String.Interpol
'platform' Name.Variable
'}'      Literal.String.Interpol
 '/'     Text
'${'     Literal.String.Interpol
'file'     Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'\\n'    Literal.String.Escape

\t\t'    Text.Whitespace
'${'     Literal.String.Interpol
'PYTHONPREFIX_LIBDIR' Name.Variable
'}'      Literal.String.Interpol
 '/'     Text
'${'     Literal.String.Interpol
'platform' Name.Variable
'}'      Literal.String.Interpol

```

```

/'      Text
'\n'    Text.Whitespace

'.endfor\n' Comment.Preproc

'.endfor\n' Comment.Preproc

'\n'    Text.Whitespace

'pre-install' Name.Function
':'      Operator
'\n'    Text.Whitespace

'\t'    Text.Whitespace
'${'    Literal.String.Interpol
'CAT'   Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'${'
    Literal.String.Interpol
'PLIST_TEMPLATE' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'|'     Punctuation
''      Text.Whitespace
'${'    Literal.String.Interpol
'AWK'   Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'\{ print $$0; } \\n\t/LIBDIR.*\py$$/ && !/\bad/ { print $$0 "o"; print $$0 "c"; }\' Literal.String.Single
'\t'    Text.Whitespace
'>'    Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'PLIST' Name.Variable
'}'     Literal.String.Interpol
'\n\n'  Text.Whitespace

```

```

"\t@# if openssl 0.9.8 is detected, _sha{256,512} module won't be installed\n" Comment

```

```

'\t'    Text.Whitespace
'('     Operator
'['     Operator
''      Text.Whitespace
'-f'    Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'WRKSRC' Name.Variable

```

```

'}'      Literal.String.Interpol
'/.without_own_sha'
Text
''      Text.Whitespace
']'      Operator
''      Text.Whitespace
'&&'    Operator
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t\t'  Text.Whitespace
'${'    Literal.String.Interpol
'GREP'  Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-v'    Text
''      Text.Whitespace
"lib-dynload/_sha" Literal.String.Single
''      Text.Whitespace
'${'    Literal.String.Interpol
'PLIST' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'>'    Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'PLIST' Name.Variable
'}'     Literal.String.Interpol
'.tmp'  Text
''      Text.Whitespace
'&&'    Operator
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t\t'  Text.Whitespace
'${'    Literal.String.Interpol
'CAT'   Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'${'    Literal.String.Interpol
'PLIST' Name.Variable
'}'     Literal.String.Interpol
'.tmp'  Text
''      Text.Whitespace
'>'    Text
''      Text.Whitespace
'${'    Literal.String.Interpol

```

```

'PLIST' Name.Variable
'}' Literal.String.Interpol
')' Operator
'' Text.Whitespace
'|' Operator
'' Text.Whitespace
'${' Literal.String.Interpol
'TRUE' Name.Variable
'}' Literal.String.Interpol
'\n\n' Text.Whitespace

'post-install' Name.Function
':' Operator
'\n' Text.Whitespace

'\t@# install config providers\n' Comment

'\t' Text.Whitespace
'${' Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
'}' Literal.String.Interpol
'' Text.Whitespace
'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
 '/'
    Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'-config' Text
'' Text.Whitespace
'${' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/bin' Text
'\n\t' Text.Whitespace
'${' Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
'}' Literal.String.Interpol
'' Text.Whitespace
'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
 '/' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':' Punctuation

```

'S' Name.Variable  
'/thon/thon-shared/' Punctuation  
'}' Literal.String.Interpol  
'-config' Text  
' ' Text.Whitespace  
'\${' Literal.String.Interpol  
'PREFIX' Name.Variable  
'}' Literal.String.Interpol  
'/bin' Text  
'\n\n' Text.Whitespace  
  
'\t@#  
shared version of executable and library\n' Comment

'\t' Text.Whitespace  
'\${' Literal.String.Interpol  
'INSTALL\_PROGRAM' Name.Variable  
'}' Literal.String.Interpol  
' ' Text.Whitespace  
'\${' Literal.String.Interpol  
'SHARED\_WKSRC' Name.Variable  
'}' Literal.String.Interpol  
'/lib' Text  
'\${' Literal.String.Interpol  
'PYTHON\_VERSION' Name.Variable  
'}' Literal.String.Interpol  
'so.l' Text  
' ' Text.Whitespace  
'\\n' Literal.String.Escape

'\t\t' Text.Whitespace  
'\${' Literal.String.Interpol  
'PREFIX' Name.Variable  
'}' Literal.String.Interpol  
'/lib' Text  
'\n\t' Text.Whitespace  
'cd' Name.Builtin  
' ' Text.Whitespace  
'\${' Literal.String.Interpol  
'PREFIX' Name.Variable  
'}' Literal.String.Interpol  
'/lib' Text  
'; ' Punctuation  
' ' Text.Whitespace  
'\${' Literal.String.Interpol  
'LN'  
Name.Variable  
'}' Literal.String.Interpol

```

''      Text.Whitespace
'-sf'   Text
''      Text.Whitespace
'lib'   Text
'${'    Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'     Literal.String.Interpol
'.so.1' Text
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t'    Text.Whitespace
'lib'   Text
'${'    Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'     Literal.String.Interpol
'.so'   Text
'\n\t'  Text.Whitespace
'${'    Literal.String.Interpol
'LN'    Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-sf'   Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'PREFIX' Name.Variable
'}'     Literal.String.Interpol
'/lib/lib' Text
'${'    Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'     Literal.String.Interpol
'.so'   Text
''

      Text.Whitespace
'${'    Literal.String.Interpol
'PYTHONPREFIX_LIBDIR' Name.Variable
'}'     Literal.String.Interpol
'/config' Text
'\n\t'  Text.Whitespace
'${'    Literal.String.Interpol
'INSTALL_PROGRAM' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t'    Text.Whitespace
'${'    Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable

```



```

'}'      Literal.String.Interpol
 '/'      Text
'${'     Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'      Punctuation
'S'      Name.Variable
'/thon/thon-shared/' Punctuation
'}'      Literal.String.Interpol
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'${'     Literal.String.Interpol
'PREFIX'  Name.Variable
'}'      Literal.String.Interpol
'/bin'    Text
'\n\n'   Text.Whitespace

'\t@# additional files installing by ports\n'
Comment

'\t'     Text.Whitespace
'${'     Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'${'     Literal.String.Interpol
'WRKDIR'  Name.Variable
'}'      Literal.String.Interpol
'/pydoc2.5' Text
''       Text.Whitespace
'${'     Literal.String.Interpol
'WRKDIR'  Name.Variable
'}'      Literal.String.Interpol
'/idle2.5' Text
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'${'     Literal.String.Interpol
'WRKDIR'  Name.Variable
'}'      Literal.String.Interpol
'/smtpd2.5.py' Text
''       Text.Whitespace
'${'     Literal.String.Interpol
'PREFIX'  Name.Variable
'}'      Literal.String.Interpol
'/bin'    Text

```

```

'\n\t'    Text.Whitespace
'@'       Text
'${'      Literal.String.Interpol
'MKDIR'   Name.Variable
'}'       Literal.String.Interpol
''        Text.Whitespace
'${'      Literal.String.Interpol
          Literal.String.Interpol
'MANPREFIX' Name.Variable
'}'       Literal.String.Interpol
'/man/man1' Text
'\n\t'    Text.Whitespace
'${'      Literal.String.Interpol
'INSTALL_MAN' Name.Variable
'}'       Literal.String.Interpol
''        Text.Whitespace
'${'      Literal.String.Interpol
'PYTHON_WKSR' Name.Variable
'}'       Literal.String.Interpol
'/Misc/python.man' Text
''        Text.Whitespace
'\\n'     Literal.String.Escape

'\t\t'    Text.Whitespace
'${'      Literal.String.Interpol
'MANPREFIX' Name.Variable
'}'       Literal.String.Interpol
'/man/man1/' Text
'${'      Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'       Literal.String.Interpol
'.1'      Text
'\n\n'    Text.Whitespace

'.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}\n' Comment.Preproc

'\t'      Text.Whitespace
'for'     Keyword
''        Text.Whitespace
'f'       Text
''        Text.Whitespace
'in'      Keyword
          Keyword
''        Text.Whitespace
'${'      Literal.String.Interpol
'BIN_SCRIPTS' Name.Variable
'}'       Literal.String.Interpol
';'       Punctuation

```

```

''      Text.Whitespace
'do'    Keyword
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t'    Text.Whitespace
'TARGET' Name.Variable
'='     Operator
'^'     Literal.String.Backtick
'${'   Literal.String.Interpol
'ECHO_CMD' Name.Variable
'}'    Literal.String.Interpol
''     Text.Whitespace
'$$'   Name.Variable
'f'    Text
''     Text.Whitespace
'|'    Punctuation
''     Text.Whitespace
'${'   Literal.String.Interpol
'SED'  Name.Variable
'}'    Literal.String.Interpol
''     Text.Whitespace
'-E'   Text
''     Text.Whitespace
'${'   Literal.String.Interpol
'BINLINKS_SUB' Name.Variable
'}'    Literal.String.Interpol
'^'    Literal.String.Backtick
';'

      Punctuation
''     Text.Whitespace
'\\n'   Literal.String.Escape

'\t'    Text.Whitespace
'cd'    Name.Builtin
''     Text.Whitespace
'${'   Literal.String.Interpol
'PREFIX' Name.Variable
'}'    Literal.String.Interpol
'/bin'  Text
''     Text.Whitespace
'&&'   Operator
''     Text.Whitespace
'${'   Literal.String.Interpol
'LN'   Name.Variable
'}'    Literal.String.Interpol
''     Text.Whitespace
'-f'   Text

```

```

''      Text.Whitespace
'$$'    Name.Variable
'TARGET' Text
''      Text.Whitespace
'$$'    Name.Variable
'f'     Text
';'     Punctuation
''      Text.Whitespace
'\\n'   Literal.String.Escape

\t'     Text.Whitespace
'done'  Keyword
\n'     Text.Whitespace

'.endif\n' Comment.Preproc

\n'     Text.Whitespace

'.if !defined(NOPORTDOCS)\n' Comment.Preproc

\t'
      Text.Whitespace
'@'     Text
'${'    Literal.String.Interpol
'MKDIR' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'${'    Literal.String.Interpol
'TOOLSDIR' Name.Variable
'}'     Literal.String.Interpol
\n\t'  Text.Whitespace
'@cd'   Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'     Literal.String.Interpol
';'     Punctuation
''      Text.Whitespace
'${'    Literal.String.Interpol
'TAR'   Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-cf'   Text
''      Text.Whitespace
'-'     Text
''      Text.Whitespace
'Tools' Text
''      Text.Whitespace

```

```

'|'      Punctuation
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t\t'  Text.Whitespace
'('     Operator
'cd'   Name.Builtin
''     Text.Whitespace
'${'   Literal.String.Interpol
      Literal.String.Interpol
'TOOLSDIR' Name.Variable
'}'   Literal.String.Interpol
';'   Punctuation
''   Text.Whitespace
'${'  Literal.String.Interpol
'TAR'  Name.Variable
'}'   Literal.String.Interpol
''   Text.Whitespace
'-xf'  Text
''   Text.Whitespace
'-'   Text
')'   Operator
'\n\t' Text.Whitespace
'@'   Text
'${'  Literal.String.Interpol
'MKDIR' Name.Variable
'}'   Literal.String.Interpol
''   Text.Whitespace
'${'  Literal.String.Interpol
'DEMODIR' Name.Variable
'}'   Literal.String.Interpol
'\n\t' Text.Whitespace
'@cd'  Text
''   Text.Whitespace
'${'  Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'   Literal.String.Interpol
'/Demo' Text
';'   Punctuation
''   Text.Whitespace
'${'  Literal.String.Interpol
'TAR'  Name.Variable
'}'   Literal.String.Interpol
      Literal.String.Interpol
''   Text.Whitespace
'-cf'  Text
''   Text.Whitespace
'-'   Text

```

```

''      Text.Whitespace
'*'     Text
''      Text.Whitespace
'|'     Punctuation
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t'    Text.Whitespace
'('     Operator
'cd'    Name.Builtin
''      Text.Whitespace
'${'    Literal.String.Interpol
'DEMODIR' Name.Variable
'}'     Literal.String.Interpol
';'     Punctuation
''      Text.Whitespace
'${'    Literal.String.Interpol
'TAR'   Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-xf'   Text
''      Text.Whitespace
'-'     Text
')'     Operator
'\n'    Text.Whitespace

'.endif\n' Comment.Preproc

'\n\t'  Text.Whitespace
'@'     Text
'${'    Literal.String.Interpol
'CAT'   Name.Variable
'}'
    Literal.String.Interpol
''      Text.Whitespace
'${'    Literal.String.Interpol
'PKGMESSAGE' Name.Variable
'}'     Literal.String.Interpol
'\n\n'  Text.Whitespace

'.include <bsd.port.post.mk>\n' Comment.Preproc
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```

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## 1.130 bcrypt 4.1.3

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## 1.131 tomkit 0.12.5

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## 1.133 fastapi 0.111.0

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## 1.134 mako 1.3.5

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# 1.135 python-lxml 5.2.2

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## 1.137 annotated-types 0.7.0

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## 1.139 ujson 5.10.0

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Portions of code from MODP\_ASCII - Ascii transformations (upper/lower, etc)  
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## 1.141 zstd 1.5.5

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# 1.143 ptpython 3.0.27

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## 1.150 uvicorn 0.30.1

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

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

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

All

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

| Release        | Derived from | Year      | Owner      | GPL-compatible? (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 |     |     |
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## 1.152 prompt\_toolkit 3.0.47

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## 1.164 simple launcher 1.1.0.14

### 1.164.1 Available under license :

#### 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.

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

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |
| 2.1.2          | 2002         | PSF       | yes        |                     |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
| 2.3.2          | 2.3.1        | 2002-2003 | PSF        | yes                 |
| 2.3.3          | 2.3.2        | 2002-2003 | PSF        | yes                 |
| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |
| 2.3.5          | 2.3.4        | 2005      | PSF        | yes                 |
| 2.4            | 2.3          | 2004      | PSF        | yes                 |
| 2.4.1          | 2.4          | 2005      | PSF        | yes                 |
| 2.4.2          | 2.4.1        | 2005      | PSF        | yes                 |
| 2.4.3          | 2.4.2        | 2006      | PSF        | yes                 |
| 2.4.4          | 2.4.3        | 2006      | PSF        | yes                 |
| 2.5            | 2.4          | 2006      | PSF        | yes                 |
| 2.5.1          | 2.5          | 2007      | PSF        | yes                 |
| 2.5.2          | 2.5.1        | 2008      | PSF        | yes                 |
| 2.5.3          | 2.5.2        | 2008      | PSF        | yes                 |
| 2.6            | 2.5          | 2008      | PSF        | yes                 |
| 2.6.1          | 2.6          | 2008      | PSF        | yes                 |

|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 3.0   | 2.6   | 2008 | PSF | yes |
| 3.0.1 | 3.0   | 2009 | PSF | yes |
| 3.1   | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1   | 2009 | PSF | yes |
| 3.1.2 | 3.1   | 2010 | PSF | yes |
| 3.2   | 3.1   | 2010 | PSF | yes |

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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=====  
Distutils2 Contributors  
=====

The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!

Thanks to:

- Rajiv Abraham
- Ali Afshar
- David Barnett
- Pior Bastida
- Anthony Baxter
- Erik Bray
- C. Titus Brown
- Francisco Martn Brugu
- Nicolas Cadou
- Godefroid Chapelle
- Julien Courteau
- Christophe Combelles
- Jason R. Coombs
- Pierre-Yves David
- Ned Deily
- Konrad Delong
- Josip Djolonga
- John Edmonds
- Andr Espaze
- Boris Feld
- Andrew Francis
- Hallvard B Furuseth
- Patrice Gauthier
- Yannick Gingras
- Filip Gruszczyski
- Walker Hale IV
- Alexandre Hamelin
- Kelsey Hightower
- Thomas Holmes
- Preston Holmes
- Christian Hudon
- Julien Jehannet
- Jeremy Kloth
- Thomas Kluyver
- 
- Amos Latteier
- Mathieu Leduc-Hamel
- Pierre Paul Lefebvre

- Tshepang Lekhonkhobe
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- Guillaume Pratte
- Sean Reifschneider
- Antoine Reversat
- Arc Riley
- C. Anthony Risinger
- Elson Rodriguez
- Luis Rojas
- Erik Rose
- Brian Rosner
- Vinay Sajip
- Victor Stinner
- Alexandre Vassalotti
- Nadeem Vawda

Metadata-Version: 1.0

Name: setuptools

Version: 0.6c9

Summary: Download, build, install, upgrade, and uninstall Python packages -- easily!

Home-page: <http://pypi.org/pypi/setuptools>

Author: Phillip J. Eby

Author-email: [distutils-sig@python.org](mailto:distutils-sig@python.org)

License: PSF or ZPL

Description: =====

Installing and Using Setuptools

=====

.. contents:: **\*\*Table of Contents\*\***

-----

## Installation Instructions

-----

### Windows

=====

Install setuptools using the provided `.exe` installer. If you've previously installed older versions of setuptools, please delete all `setuptools*.egg` and `setuptools.pth` files from your system's `site-packages` directory (and any other `sys.path` directories) FIRST.

If you are upgrading a previous version of setuptools that was installed using an `.exe` installer,

please be sure to also *\*uninstall that older version\** via your system's "Add/Remove Programs" feature, BEFORE installing the newer version.

Once installation is complete, you will find an `easy_install.exe` program in your Python `Scripts` subdirectory. Be sure to add this directory to your `PATH` environment variable, if you haven't already done so.

### RPM-Based Systems

=====

Install setuptools using the provided source RPM. The included `.spec` file assumes you are installing using the default `python` executable, and is not specific to a particular Python version. The `easy_install` executable will be installed to a system `bin` directory such as `/usr/bin`.

If you wish to install to a location other than the default Python installation's default `site-packages` directory (and `$prefix/bin` for scripts), please use the `.egg`-based installation approach described in the following section.

### Cygwin, Mac OS X, Linux, Other

=====

1. Download the appropriate egg for your version of Python (e.g. `setuptools-0.6c9-py2.4.egg`). Do NOT rename it.
2. Run it as if it were a shell script, e.g. `sh setuptools-0.6c9-py2.4.egg`. Setuptools will install itself using the matching version of Python (e.g. `python2.4`), and will place the `easy_install` executable in the default location for installing Python scripts (as determined by the standard distutils configuration files, or by the Python installation).

If you want to install setuptools to somewhere other than `site-packages` or your default distutils installation locations for libraries and scripts, you may include EasyInstall command-line options such as `--prefix`, `--install-dir`, and so on, following the `.egg` filename

on the same

command line. For example::

```
sh setuptools-0.6c9-py2.4.egg --prefix=~
```

You can use `--help` to get a full options list, but we recommend consulting the `EasyInstall manual` for detailed instructions, especially the section on custom installation locations.

.. `EasyInstall manual`: <http://peak.telecommunity.com/DevCenter/EasyInstall>

.. the section on custom installation locations: <http://peak.telecommunity.com/DevCenter/EasyInstall#custom-installation-locations>

#### Cygwin Note

-----

If you are trying to install setuptools for the `Windows` version of Python (as opposed to the Cygwin version that lives in `/usr/bin`), you must make sure that an appropriate executable (`python2.3`, `python2.4`, or `python2.5`) is on your `Cygwin` `PATH` when invoking the egg. For example, doing the following at a Cygwin bash prompt will install setuptools for the `Windows` Python found at `C:\Python24`:

```
ln -s /cygdrive/c/Python24/python.exe python2.4
PATH=.:$PATH sh setuptools-0.6c9-py2.4.egg
rm python2.4
```

#### Downloads

=====

All setuptools downloads can be found at the project's home page in the Python Package Index. Scroll to the very bottom of the page to find the links.

.. the project's home page in the Python Package Index: <http://pypi.org/pypi/setuptools>

In addition to the PyPI downloads, the development version of `setuptools` is available from the `Python SVN sandbox`, and in-development versions of the `0.6 branch` are available as well.

.. `0.6 branch`: <http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06>

.. [\\_Python SVN sandbox: http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev](http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev)

-----  
Using  
Setuptools and EasyInstall  
-----

Here are some of the available manuals, tutorials, and other resources for learning about Setuptools, Python Eggs, and EasyInstall:

- \* [`The EasyInstall user's guide and reference manual`\\_](#)
- \* [`The setuptools Developer's Guide`\\_](#)
- \* [`The pkg\\_resources API reference`\\_](#)
- \* [`Package Compatibility Notes`\\_](#) (user-maintained)
- \* [`The Internal Structure of Python Eggs`\\_](#)

Questions, comments, and bug reports should be directed to the [`distutils-sig mailing list`\\_](#). If you have written (or know of) any tutorials, documentation, plug-ins, or other resources for setuptools users, please let us know about them there, so this reference list can be updated. If you have working, *\*tested\** patches to correct problems or add features, you may submit them to the [`setuptools bug tracker`\\_](#).

- .. [\\_setuptools bug tracker: http://bugs.python.org/setuptools/](http://bugs.python.org/setuptools/)
- .. [\\_Package Compatibility Notes: http://peak.telecommunity.com/DevCenter/PackageNotes](http://peak.telecommunity.com/DevCenter/PackageNotes)
- .. [\\_The Internal Structure of Python Eggs: http://peak.telecommunity.com/DevCenter/EggFormats](http://peak.telecommunity.com/DevCenter/EggFormats)
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-----  
Credits  
-----

\* The original design for the ``.egg`` format and the ``.pkg_resources`` API was co-created by Phillip Eby and Bob Ippolito. Bob also implemented the first version of ``.pkg_resources``, and supplied the OS X operating system version compatibility algorithm.

\* Ian Bicking implemented many early "creature comfort" features of `easy_install`, including support for downloading via Sourceforge and Subversion repositories. Ian's comments on the Web-SIG about WSGI application deployment also inspired the concept of "entry points" in eggs, and he has given talks at PyCon and elsewhere to inform and educate the community about eggs and setuptools.



\* Jim Fulton contributed time and effort to build automated tests of various aspects of ``easy\_install``, and supplied the doctests for the command-line ``.exe`` wrappers on Windows.

\* Phillip J. Eby is the principal author and maintainer of setuptools, and first proposed the idea of an importable binary distribution format for Python application plug-ins.

\* Significant parts of the implementation of setuptools were funded by the Open Source Applications Foundation, to provide a plug-in infrastructure for the Chandler PIM application.

In addition, many OSAF staffers (such as Mike "Code Bear" Taylor) contributed their time and stress as guinea pigs for the use of eggs and setuptools, even before eggs were "cool". (Thanks, guys!)

Keywords: CPAN PyPI distutils eggs package management

Platform: UNKNOWN

Classifier: Development Status :: 3 - Alpha

Classifier: Intended Audience :: Developers

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