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1.4 libsodium 1.0.18

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The

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1.8 zlib 1.3.1

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Jean-loup Gailly Mark Adler

jloup@gzip.org madler@alumni.caltech.edu
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.3.1, January 22nd, 2024

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*/

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1.9 mpdecimal 4.0.0

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1.13 ncurses 6.5

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1.14 expat 2.6.3

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1.16 libxslt 1.1.43

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1.18 sqlite 3.47.1.0

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1.19 tk 8.6.14

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1.21 python 3.11.13

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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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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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1.26 aiohttp 3.12.14

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1.27 pygments 2.18.0

1.27.1 Available under license :

```
---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
            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_WKSRRC'
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
           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\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

```

```

'TOOLSDIR' 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.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\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\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\t'      Text.Whitespace
'IPv6'      Text
' '         Text.Whitespace
'''Enable IPv6 support''' Literal.String.Double

```



```

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

'\t\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\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
'${'        Literal.String.Interpol
'PATCH_WKSRC' Name.Variable
'}'         Literal.String.Interpol
'/Tools/scripts/idle' Text
''          Text.Whitespace
'>'        Text
''          Text.Whitespace
'${'        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\t'      Text.Whitespace
'${'        Literal.String.Interpol
'PATCH_WKSRC' Name.Variable
'}'         Literal.String.Interpol
'/Lib/smtpd.py' Text
''          Text.Whitespace
'>'        Text
''          Text.Whitespace
'${'        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
'${'    Literal.String.Interpol
'PATCH_WKRSRC' Name.Variable
'}'     Literal.String.Interpol
'/Lib/site.py' Text
'\n\t'  Text.Whitespace
'${'    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_WKRSRC' 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\\n'     Literal.String.Escape

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

'\t\t'      Text.Whitespace
'${'        Literal.String.Interpol
'PATCH_WKSRC' Name.Variable
'}'         Literal.String.Interpol
'/Misc/python-config.in' Text
''          Text.Whitespace
'>'        Text
''          Text.Whitespace
'${'        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\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
'WRKSR'    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
'WRKSR'  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
'WRKSR'  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_WRKSR' 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_WKRSRC' Name.Variable
'}'     Literal.String.Interpol
'/Lib'  Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'WKRSRC'
      Name.Variable
'}'     Literal.String.Interpol
'/Lib'  Text
'\n\t'  Text.Whitespace
'${'    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\n'  Literal.String.Escape

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

'\t\t'  Text.Whitespace
'-e'    Text
''      Text.Whitespace
'''s,^\(CFLAGSFORSHARED=\).*$$,\1$$($$(CCSHARED),''' Literal.String.Single
''      Text.Whitespace
'\n\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\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
'WRKSR'  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_WKSR' Name.Variable
'}'      Literal.String.Interpol
'/lib'    Text
'${'     Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'      Literal.String.Interpol
'.so.1'   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\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\t'    Text.Whitespace
'${'      Literal.String.Interpol
'SHARED_WKSRC' Name.Variable
'}'       Literal.String.Interpol
'/'       Text
'${'      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
'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_WKSRRC' 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\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

```

'TOOLS DIR' Name.Variable
 '}' Literal.String.Interpol
 '\n\t' Text.Whitespace
 '@cd' Text
 '' Text.Whitespace
 '\${' Literal.String.Interpol
 'PYTHON_WKSR' 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
 'TOOLS DIR' 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_WKSR' Name.Variable
 '}' Literal.String.Interpol
 '/Demo' Text
 ';' Punctuation
 ' ' Text.Whitespace
 '\${' Literal.String.Interpol
 'TAR' Name.Variable
 '}'
 Literal.String.Interpol
 ' ' Text.Whitespace
 '-cf' Text
 ' ' Text.Whitespace
 '-' Text
 ' ' Text.Whitespace
 '*' Text
 ' ' Text.Whitespace
 '|' Punctuation
 ' ' Text.Whitespace
 '\\n' Literal.String.Escape

 '\t\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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1.28 priority 2.0.0

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1.29 ptpython 3.0.31

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1.30 ptyprocess 0.7.0

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1.31 exceptiongroup 1.2.2

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1.32 pysmi 1.5.9

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1.33 appdirs 1.4.4

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1.34 dns-python 2.7.0

1.34.1 Available under license :

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1.35 tomlkit 0.13.2

1.35.1 Available under license :

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1.36 more-itertools 10.3.0

1.36.1 Available under license :

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1.37 asyncssh 2.18.0

1.37.1 Available under license :

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1.40 six 1.16.0

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1.44 pynacl 1.5.0

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1.46 wcwidth 0.2.13

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1.47 idna 3.10

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1.48 zipp 3.19.2

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1.49 psutil 7.0.0

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1.51 python-dotenv 1.1.1

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1.52 python-multipart 0.0.19

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1.53 aiosignal 1.4.0

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1.54 pytest 8.4.2

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1.55 python3-asn1crypto 1.5.1

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1.56 pyopenssl 24.3.0

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1.58 jaraco.collections 5.1.0

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1.60 prompt-toolkit 3.0.52

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1.61 ncclient 0.6.15

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1.62 wheel 0.45.1

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1.63 mdurl 0.1.2

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1.64 tacacs-plus 2.6

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1.65 python-lxml 6.0.0

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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-hgIc) (except when doing [strict specialization](https://hynek.me/articles/python-subclassing-redux/)).

1.70 typing-extensions 4.15.0

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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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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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1.73 aiohappyeyeballs 2.6.1

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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.

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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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Coverage.py was originally written by Gareth Rees, and since 2004 has been extended and maintained by Ned Batchelder.

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1.79 sniffio 1.3.1

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1.81 pyzipper 0.3.6

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1.82 platformdirs 4.2.2

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1.83 pytest-cov 4.1.0

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1.85 pysnmpcrypto 0.0.4

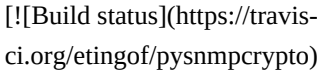
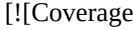
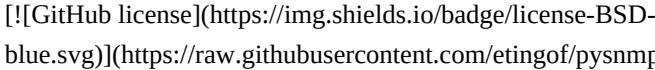
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)

The `pysnmpcrypto`` package is an optional extension to SNMP library for Python `[pysnmp](http://snmplabs.com/pysnmp/)` 5.0+. The `pysnmpcrypto`` library provides stronger authentication and encryption features to the SNMP library by way of invoking stronger crypto algorithms.

The `pysnmpcrypto`` library runs on Python 2.4 through 3.7 and has a dependency on either `[PyCryptodomex](https://github.com/Legrandin/pycryptodome)` (for Python versions 2.4-2.6 and 3.2-3.3) or `[Cryptography](https://github.com/pyca/cryptography)` (for Python versions 2.7 and 3.4+).

The `pysnmpcrypto`` package is distributed under terms and conditions of the 2-clause `[BSD license](http://snmplabs.com/pysnmpcrypto/license.html)`.

Download & Install

The `pysnmpcrypto`` package is freely available for download from `[PyPI](https://pypi.org/project/pysnmpcrypto)` and `[GitHub](https://github.com/etingof/pysnmpcrypto.git)`.

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/>).

If something does not work as expected with `pysnmpcrypto`, please
[open an issue](<https://github.com/etingof/pysnmpcrypto/issues>) at GitHub.

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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

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1.91 pysnmp 6.1.4

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SNMP Library for Python 6.1

```
=====
```

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

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PySNMP is a cross-platform, pure-Python SNMP engine implementation. It features fully-functional SNMP engine capable to act in Agent/Manager/Proxy roles, talking SNMP v1/v2c/v3 protocol versions over IPv4/IPv6 and other network transports.

Despite its name, SNMP is not really a simple protocol. For instance its third version introduces complex and open-ended security framework, multilingual capabilities, remote configuration and other features. PySNMP implementation closely follows intricate system details and features bringing most possible power and flexibility to its users.

Current PySNMP stable version is 6.1. It runs with Python 3.8+ and is recommended for new applications as well as for migration from older, now obsolete, PySNMP releases.

All site documentation and examples are written for the 6.0 and later versions in mind. Older materials have been removed.

Besides the libraries, a set of pure-Python command line tools are shipped along with the system. Those tools mimic the interface and behavior of popular Net-SNMP snmpget/snmpset/snmpwalk utilities. They may be useful in a cross-platform situations as well as a testing and prototyping instrument for pysnmp users.

PySNMP software is free and open-source. Source code is hosted in the PySNMP Github repository. The library is being distributed under 2-clause BSD-style license.

PySNMP library development has been initially sponsored by a PSF grant.

Quick Start

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

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

/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 PySNMP.

```
.. toctree::
```

```
:maxdepth: 2
```

```
/examples/index
```

Troubleshooting

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

```
.. toctree::
```

```
:maxdepth: 1
```

```
/troubleshooting
```

```
/upgrade
```

Downloads

Best way is usually to install PySNMP using `PySNMP PyPI package`_.

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

```
$ pip install pysnmp
```

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

```
.. toctree::
```

```
:maxdepth: 1
```

```
/download
```

We fanatically document all fixes, changes and new features in changelog.

```
.. toctree::
```

```
:maxdepth: 1
```

/changelog

License

This library is distributed under 2-clause BSD-style license.

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

/license

FAQ

We have a collection of frequently asked questions.

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

/faq

Contact

In case of questions
or troubles using PySNMP, please open up a
new `GitHub issue`_ 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>>

Found in path(s):

* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/docs/source/index.rst

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

SNMP engine distributed under 2-clause [BSD license](<https://www.pysnmp.com/pysnmp/license.html>).
All rights reserved.

Found in path(s):

* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/README.md

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* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/smi/mibs/SNMP-USM-HMAC-SHA2-MIB.py

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.. include:: /includes/_links.rst

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 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`_.

#. 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.

If you need some particular feature - please, open a feature request via a `GitHub issue`_. 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 contact `LeXtudio Inc.`_ to discuss details.

Contributions to the PySNMP source code is greatly appreciated as well. We require contributed code to run with Python 3.8 through the latest Python version (which is 3.12 at the time of this writing). Contributed code will be redistributed under the terms of the same license as PySNMP is.

Related Resources

- `Support Options`_
- :doc:`/quick-start`
- :doc:`/troubleshooting`
- :doc:`/faq`

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* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/docs/source/development.rst

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* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/smi/mibs/SNMP-USER-BASED-SM-3DES-MIB.py
* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/proto/secmod/rfc3414/auth/base.py
* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/proto/secmod/cache.py
* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/proto/proxy/rfc2576.py
* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/proto/mpmod/base.py
* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/smi/mibs/RFC1158-MIB.py
* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/smi/mibs/SNMPv2-CONF.py
* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/smi/mibs/SNMP-USM-AES-MIB.py
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/pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/entity/rfc3413/config.py
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* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/hlapi/context.py
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* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/smi/mibs/ASN1-ENUMERATION.py
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* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/carrier/asyncio/dgram/unix.py
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* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/smi/mibs/instances/__SNMP-TARGET-MIB.py
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* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/smi/mibs/ASN1-REFINEMENT.py
* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/smi/mibs/PYSNMP-SOURCE-MIB.py
* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/smi/indices.py
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* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/entity/engine.py
* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/smi/mibs/TRANSPORT-ADDRESS-MIB.py
*

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* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/smi/mibs/SNMPv2-TM.py
* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/smi/mibs/SNMPv2-TC.py
* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/smi/mibs/instances/__SNMPv2-MIB.py
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/pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/smi/mibs/SNMP-PROXY-MIB.py
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* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/cache.py
* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/smi/mibs/instances/__PYSNMP-USM-MIB.py
* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/proto/secmod/base.py
* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/smi/mibs/SNMP-VIEW-BASED-ACM-MIB.py
* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/entity/rfc3413/oneliner/cmdgen.py
* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/smi/mibs/SNMPv2-MIB.py
* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/proto/secmod/eso/priv/des3.py
* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/hlapi/asyncio/__init__.py
* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/smi/mibs/instances/__SNMP-FRAMEWORK-MIB.py
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/pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/smi/mibs/SNMPv2-SMI.py
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* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/entity/config.py
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* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/smi/exval.py
* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/smi/mibs/SNMP-COMMUNITY-MIB.py
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* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/proto/rfc3412.py
* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/smi/builder.py
* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/smi/error.py

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```

Found in path(s):

```
* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/hlapi/asyncio/cmdgen.py  
* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/carrier/asyncio/dispatch.py  
* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/carrier/asyncio/base.py  
* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/carrier/asyncio/dgram/base.py  
* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/pysnmp/carrier/asyncio/dgram/udp.py  
No license file was found, but licenses were detected in source scan.
```

Metadata-Version: 2.1

Name: pysnmp

Version: 6.1.4

Summary: A Python library for SNMP

Home-page: <https://github.com/lexstudio/pysnmp>

License: BSD-2-Clause

Author: Ilya Etingof

Author-email: etingof@gmail.com

Requires-Python: >=3.8,<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 :: 3.8

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: pysmi (>=1.3.0,<2.0.0)

Requires-Dist: pysnmppcrypto (>=0.0.4,<0.0.5)

Requires-Dist: pytest-cov (>=4.0.0,<5.0.0)

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 repo is derived from Ilya Etingof's project [etingof/pysnmp](https://github.com/etingof/pysnmp), but [LeXtudio Inc. has taken over the entire PySNMP ecosystem](https://github.com/etingof/pysnmp/issues/429), including the library, documentation, and the website.

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 3.8+
- * 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 (RFC3413)

Download & Install

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

Just run:

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

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
```
```

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
from pysnmp.hlapi import *
from pysnmp.smi.rfc1902 import ObjectIdentity, ObjectType

with Slim(1) as slim:
 errorIndication, errorStatus, errorIndex, varBinds = 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]))
```

```

This is how to send SNMP TRAP:

```

```python
from pysnmp.hlapi import *

snmpEngine = SnmpEngine()
errorIndication, errorStatus, errorIndex, varBinds = 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.closeDispatcher()
...

```

> We maintain publicly available SNMP Agent and TRAP sink at  
> [demo.pysnmp.com](https://www.pysnmp.com/snmp-simulation-service). 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/asyncio/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 sites  
or local directories. You could configure any MIB source available to you (including  
[this one](https://mibs.pysnmp.com)) for that purpose.

For more sample 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 docs site](https://www.pysnmp.com/pysnmp/).

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

Bug reports and PRs are appreciated! ;-)

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Found in path(s):

\* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/PKG-INFO



# 1.92 urllib3 2.5.0

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# 1.93 uv 0.5.4

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# 1.95 python-setuptools 80.8.0

## 1.95.1 Available under license :

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```
python -m validate_pyproject.pre_compile --output-dir=setuptools/config/_validate_pyproject --enable-plugins
setuptools distutils --very-verbose -t setuptools=setuptools/config/setuptools.schema.json -t
distutils=setuptools/config/distutils.schema.json
```

Please avoid changing it manually.

You can report issues or suggest changes directly to `validate-pyproject` (or to the relevant plugin repository)

- <https://github.com/abravalheri/validate-pyproject/issues>

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`fastjsonschema``  
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`validate-pyproject`

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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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\* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/codec/cer/encoder.py

\* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/base.py

\* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/codec/der/decoder.py

\* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/codec/native/test\_decoder.py

\* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/type/\_\_main\_\_.py

- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/codec/native/decoder.py
- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/compat/binary.py
- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/type/tag.py
- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/compat/test\_octets.py
- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/error.py
- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/debug.py
- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/type/constraint.py
- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/codec/native/encoder.py
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- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/encoder.py
- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/type/test\_univ.py
- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/type/char.py
- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/codec/native/\_\_main\_\_.py
- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/compat/test\_binary.py
- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/compat/test\_integer.py
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- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/type/error.py
- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/type/useful.py
- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/type/test\_namedval.py
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- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/type/namedtype.py
- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/codec/der/test\_decoder.py
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- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/test\_debug.py
- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/codec/der/encoder.py
- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/compat/calling.py
- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/compat/octets.py
- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/codec/\_\_main\_\_.py
- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/type/test\_namedtype.py
- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/compat/integer.py
- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/compat/string.py
- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/codec/native/test\_encoder.py
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- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/codec/ber/test\_decoder.py
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- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/type/univ.py
- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/type/tagmap.py
- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/codec/cer/\_\_main\_\_.py
- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/decoder.py
- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/codec/cer/decoder.py
- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/setup.py
- \* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/compat/dateandtime.py

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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://travis-ci.org/etingof/pyasn1.svg?branch=master)](https://secure.travis-ci.org/etingof/pyasn1)  
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 [![GitHub license](https://img.shields.io/badge/license-BSD-blue.svg)](https://raw.githubusercontent.com/etingof/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).

## Features

-----

- \*  
Generic implementation of ASN.1 types (X.208)
- \* Standards compliant BER/CER/DER codecs
- \* Dumps/loads ASN.1 structures from Python types
- \* 100% Python, works with Python 2.4 up to Python 3.7
- \* 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](<http://snmplabs.com/pyasn1/>), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](<https://github.com/etingof/pyasn1-modules>).

How to get pyasn1

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](<http://snmplabs.com/pyasn1/license.html>). Source code is freely available as a GitHub [repo](<https://github.com/etingof/pyasn1>).

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

If
something does not work as expected,
[open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or
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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* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/README.md
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Metadata-Version: 1.2
Name: pyasn1
Version: 0.4.8
Summary: ASN.1 types and codecs
Home-page: https://github.com/etingof/pyasn1
Author: Ilya Etingof
Author-email: etingof@gmail.com
Maintainer: Ilya Etingof <etingof@gmail.com>
License: BSD
Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
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 :: 2
Classifier: Programming Language :: Python :: 2.4
Classifier:
Programming Language :: Python :: 2.5
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.2
Classifier: Programming Language :: Python :: 3.3
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Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: 3.7
Classifier: Topic :: Communications
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License

=====

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ASN.1 library for Python

=====

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Abstract Syntax Notation One (ASN.1

<http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>`) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1` <<https://pypi.org/project/pyasn1/>>`_ library implements ASN.1 support in pure-Python.

What is ASN.1

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and became a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions <<https://news.ycombinator.com/item?id=8871453>>`_ on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers` <<https://developers.google.com/protocol-buffers/>>`\_ or `FlatBuffers` <<https://google.github.io/flatbuffers/>>`_, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

- * Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.
- * Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.
- * Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

- * Signaling standards for the public switched telephone network (SS7 family)
- * Network management standards (SNMP, CMIP)
- * Directory standards (X.500 family, LDAP)
- * Public Key Infrastructure standards (X.509, etc.)
- * PBX control (CSTA)
- * IP-based Videoconferencing (H.323 family)
- * Biometrics (BIP, CBEFF, ACBio)
- * Intelligent transportation (SAE J2735)
- * Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the `statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>` on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation

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

[/pyasn1/contents](#)

Use case

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

[/example-use-case](#)

Download & Install

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

[/download](#)

Changes

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

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

[/changelog](#)

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```
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    :maxdepth: 2
```

```
/license
```

Getting help

Please, file your `issues` <<https://github.com/etingof/pyasn1/issues>>`\_ and `PRs` <<https://github.com/etingof/pyasn1/pulls>>`_ at GitHub. Alternatively, you could ask for help at `Stack Overflow` <<http://stackoverflow.com/questions/tagged/pyasn1>>`\_ or search `pyasn1-users` <<https://lists.sourceforge.net/lists/listinfo/pyasn1-users>>`_ mailing list archive.

Books on ASN.1

The pyasn1 implementation is largely based on reading up the following awesome books:

- * `ASN.1 - Communication between heterogeneous systems` <<http://www.oss.com/asn1/dubuisson.html>>`_ by Olivier Dubuisson
- * `ASN.1 Complete` <<http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>>`_ by Prof John Larmouth

Here you can get the official standards which is hard to read:

- * `ITU standards` <<http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>>`_

On the other end of the readability spectrum, here is a quick and sweet write up:

- * `A Layman's Guide to a Subset of ASN.1, BER, and DER` <<ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>>`_ by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/docs/source/contents.rst

1.98 bcrypt 4.2.1

1.98.1 Available under license :

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1.99 pycparser 2.22

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pycparser -- A C parser in Python

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1.100 python-certifi 2024.8.30

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1.101 autocommand 2.2.2

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1.102 jaraco.text 3.12.1

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1.103 pydantic_core 2.33.2

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1.104 tomli 2.0.1

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1.106 yarl 1.18.0

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a

combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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d) If a facility in the modified

Library refers to a function or a

table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any

executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the

user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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<one line to give the library's name and a brief idea of what it does.>

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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1.109 cffi 1.17.1

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1.110 fastapi 0.120.2

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name: FastAPI People Contributors

on:

schedule:

- cron: "0 3 1 * *"

workflow_dispatch:

inputs:

debug_enabled:

description: "Run the build with tmate debugging enabled (<https://github.com/marketplace/actions/debugging-with-tmate>)"

required: false

default: "false"

env:

UV_SYSTEM_PYTHON: 1

jobs:

job:

if: github.repository_owner == 'fastapi'

runs-on: ubuntu-latest

```

permissions:
  contents: write
steps:
  - name: Dump GitHub context
    env:
      GITHUB_CONTEXT: ${{ toJson(github) }}
    run: echo "$GITHUB_CONTEXT"
  - uses: actions/checkout@v5
  - name: Set up Python
    uses: actions/setup-python@v6
    with:
      python-version: "3.11"
  - name: Setup uv
    uses: astral-sh/setup-uv@v7
    with:
      version: "0.4.15"
      enable-cache: true
      cache-dependency-glob: |
        requirements**.txt
        pyproject.toml
  - name: Install Dependencies
    run: uv pip install -r requirements-github-actions.txt
  # Allow debugging with tmate
  - name: Setup tmate session
    uses: mxschmitt/action-tmate@v3
    if: ${{ github.event_name == 'workflow_dispatch' && github.event.inputs.debug_enabled == 'true' }}
    with:
      limit-access-to-actor: true
    env:
      GITHUB_TOKEN: ${{ secrets.FASTAPI_PR_TOKEN }}
  - name: FastAPI People Contributors
    run: python ./scripts/contributors.py
    env:
      GITHUB_TOKEN: ${{ secrets.FASTAPI_PR_TOKEN }}

tiangolo:
  login: tiangolo
  count: 782
  avatarUrl:
    https://avatars.githubusercontent.com/u/1326112?u=cb5d06e73a9e1998141b1641aa88e443c6717651&v=4
  url: https://github.com/tiangolo
dependabot:
  login: dependabot
  count: 117
  avatarUrl: https://avatars.githubusercontent.com/in/29110?v=4
  url: https://github.com/apps/dependabot
alejsdev:
  login: alejsdev
  count: 52

```

avatarUrl:
<https://avatars.githubusercontent.com/u/90076947?u=447d12a1b347f466b35378bee4c7104cc9b2c571&v=4>
url: <https://github.com/alejsdev>

pre-commit-ci:
login: pre-commit-ci
count: 45
avatarUrl: <https://avatars.githubusercontent.com/in/68672?v=4>
url: <https://github.com/apps/pre-commit-ci>

github-actions:
login: github-actions
count: 26
avatarUrl: <https://avatars.githubusercontent.com/in/15368?v=4>
url: <https://github.com/apps/github-actions>

Kludex:
login: Kludex
count: 24
avatarUrl:
<https://avatars.githubusercontent.com/u/7353520?u=df8a3f06ba8f55ae1967a3e2d5ed882903a4e330&v=4>
url: <https://github.com/Kludex>

dmontagu:
login: dmontagu
count: 17
avatarUrl:
<https://avatars.githubusercontent.com/u/35119617?u=540f30c937a6450812628b9592a1dfe91bbe148e&v=4>
url: <https://github.com/dmontagu>

euri10:
login: euri10
count: 13
avatarUrl:
<https://avatars.githubusercontent.com/u/1104190?u=321a2e953e6645a7d09b732786c7a8061e0f8a8b&v=4>
url: <https://github.com/euri10>

nilslindemann:
login: nilslindemann
count: 13
avatarUrl:
<https://avatars.githubusercontent.com/u/6892179?u=1dca6a22195d6cd1ab20737c0e19a4c55d639472&v=4>
url: <https://github.com/nilslindemann>

kantandane:
login: kantandane
count: 13
avatarUrl:
<https://avatars.githubusercontent.com/u/3978368?u=cccc199291f991a73b1ebba5abc735a948e0bd16&v=4>
url: <https://github.com/kantandane>

svlandeg:
login: svlandeg
count: 11
avatarUrl:
<https://avatars.githubusercontent.com/u/8796347?u=556c97650c27021911b0b9447ec55e75987b0e8a&v=4>

url: <https://github.com/svlandeg>
zhaohan-dong:
login: zhaohan-dong
count: 11
avatarUrl:
<https://avatars.githubusercontent.com/u/65422392?u=8260f8781f50248410ebfa4c9bf70e143fe5c9f2&v=4>
url: <https://github.com/zhaohan-dong>
YuriiMotov:
login: YuriiMotov
count: 10
avatarUrl:
<https://avatars.githubusercontent.com/u/109919500?u=b9b13d598dddfab529a52d264df80a900bfe7060&v=4>
url: <https://github.com/YuriiMotov>
mariacamilagl:
login: mariacamilagl
count: 9
avatarUrl:
<https://avatars.githubusercontent.com/u/11489395?u=4adb6986bf3debfc2b8216ae701f2bd47d73da7d&v=4>
url: <https://github.com/mariacamilagl>
handabaldeep:
login: handabaldeep
count: 9
avatarUrl:
<https://avatars.githubusercontent.com/u/12239103?u=6c39ef15d14c6d5211f5dd775cc4842f8d7f2f3a&v=4>
url: <https://github.com/handabaldeep>
vishnuvskvkl:
login: vishnuvskvkl
count: 8
avatarUrl:
<https://avatars.githubusercontent.com/u/84698110?u=8af5de0520dd4fa195f53c2850a26f57c0f6bc64&v=4>
url: <https://github.com/vishnuvskvkl>
alissadb:
login: alissadb
count: 6
avatarUrl:
<https://avatars.githubusercontent.com/u/96190409?u=be42d85938c241be781505a5a872575be28b2906&v=4>
url: <https://github.com/alissadb>
alv2017:
login: alv2017
count: 6
avatarUrl: <https://avatars.githubusercontent.com/u/31544722?v=4>
url: <https://github.com/alv2017>
wshayes:
login: wshayes
count: 5
avatarUrl: <https://avatars.githubusercontent.com/u/365303?u=07ca03c5ee811eb0920e633cc3c3db73dbec1aa5&v=4>
url: <https://github.com/wshayes>
samuelcolvin:

login: samuelcolvin
count: 5
avatarUrl:
<https://avatars.githubusercontent.com/u/4039449?u=42eb3b833047c8c4b4f647a031eaef148c16d93f&v=4>
url: <https://github.com/samuelcolvin>

waynerv:
login: waynerv
count: 5
avatarUrl:
<https://avatars.githubusercontent.com/u/39515546?u=ec35139777597cdbbbddda29bf8b9d4396b429a9&v=4>
url: <https://github.com/waynerv>

krishnamadhavan:
login: krishnamadhavan
count: 5
avatarUrl:
<https://avatars.githubusercontent.com/u/31798870?u=950693b28f3ae01105fd545c046e46ca3d31ab06&v=4>
url: <https://github.com/krishnamadhavan>

jekirl:
login: jekirl
count: 4
avatarUrl:
<https://avatars.githubusercontent.com/u/2546697?u=a027452387d85bd4a14834e19d716c99255fb3b7&v=4>
url: <https://github.com/jekirl>

hitrust:
login: hitrust
count: 4
avatarUrl:
<https://avatars.githubusercontent.com/u/3360631?u=5fa1f475ad784d64eb9666bdd43cc4d285dcc773&v=4>
url: <https://github.com/hitrust>

ShahriyarR:
login: ShahriyarR
count: 4
avatarUrl:
<https://avatars.githubusercontent.com/u/3852029?u=631b2ae59360ab380c524b32bc3d245aff1165af&v=4>
url: <https://github.com/ShahriyarR>

adriangb:
login: adriangb
count: 4
avatarUrl:
<https://avatars.githubusercontent.com/u/1755071?u=612704256e38d6ac9cbcd24f10e4b6ac2da74ecb&v=4>
url: <https://github.com/adriangb>

iudeen:
login: iudeen
count: 4
avatarUrl:
<https://avatars.githubusercontent.com/u/10519440?u=f09cdd745e5bf16138f29b42732dd57c7f02bee1&v=4>
url: <https://github.com/iudeen>

musicinmybrain:

login: musicinmybrain
count: 4
avatarUrl:
<https://avatars.githubusercontent.com/u/6898909?u=9010312053e7141383b9bdf538036c7f37fbaba0&v=4>
url: <https://github.com/musicinmybrain>

philipokiokio:
login: philipokiokio
count: 4
avatarUrl:
<https://avatars.githubusercontent.com/u/55271518?u=d30994d339aaaf1f6bf1b8fc810132016fbd4fdc&v=4>
url: <https://github.com/philipokiokio>

AlexWendland:
login: AlexWendland
count: 4
avatarUrl:
<https://avatars.githubusercontent.com/u/3949212?u=c4c0c615e0ea33d00bfe16b779cf6ebc0f58071c&v=4>
url: <https://github.com/AlexWendland>

divums:
login: divums
count: 3
avatarUrl: <https://avatars.githubusercontent.com/u/1397556?v=4>
url: <https://github.com/divums>

prostomarkeloff:
login: prostomarkeloff
count: 3
avatarUrl:
<https://avatars.githubusercontent.com/u/28061158?u=6918e39a1224194ba636e897461a02a20126d7ad&v=4>
url: <https://github.com/prostomarkeloff>

nsidnev:
login: nsidnev
count: 3
avatarUrl:
<https://avatars.githubusercontent.com/u/22559461?u=a9cc3238217e21dc8796a1a500f01b722adb082c&v=4>
url: <https://github.com/nsidnev>

pawamoy:
login: pawamoy
count: 3
avatarUrl:
<https://avatars.githubusercontent.com/u/3999221?u=b030e4c89df2f3a36bc4710b925bdeb6745c9856&v=4>
url: <https://github.com/pawamoy>

patrickmckenna:
login: patrickmckenna
count: 3
avatarUrl:
<https://avatars.githubusercontent.com/u/3589536?u=53aef07250d226d35e526768e26891964907b41a&v=4>
url: <https://github.com/patrickmckenna>

hukkin:
login: hukkin

count: 3
avatarUrl:
<https://avatars.githubusercontent.com/u/3275109?u=77bb83759127965eachfe67e2ca983066e964fde&v=4>
url: <https://github.com/hukkin>
marcosmmb:
login: marcosmmb
count: 3
avatarUrl:
<https://avatars.githubusercontent.com/u/6181089?u=03c50eec631857d84df5232890780d00a3f76903&v=4>
url: <https://github.com/marcosmmb>
Serrones:
login: Serrones
count: 3
avatarUrl:
<https://avatars.githubusercontent.com/u/22691749?u=4795b880e13ca33a73e52fc0ef7dc9c60c8fce47&v=4>
url: <https://github.com/Serrones>
uriyyo:
login: uriyyo
count: 3
avatarUrl:
<https://avatars.githubusercontent.com/u/32038156?u=0c68019beb28381ce5205a838937c61e0fe3fee2&v=4>
url: <https://github.com/uriyyo>
andrew222651:
login: andrew222651
count: 3
avatarUrl: <https://avatars.githubusercontent.com/u/889657?u=d70187989940b085bcbfa3bedad8dbc5f3ab1fe7&v=4>
url: <https://github.com/andrew222651>
rkbeatss:
login: rkbeatss
count: 3
avatarUrl: <https://avatars.githubusercontent.com/u/23391143?u=56ab6bff50be950fa8cae5cf736f2ae66e319ff3&v=4>
url: <https://github.com/rkbeatss>
asheux:
login: asheux
count: 3
avatarUrl:
<https://avatars.githubusercontent.com/u/22955146?u=4553ebf5b5a7c7fe031a46182083aa224faba2e1&v=4>
url: <https://github.com/asheux>
blkst8:
login: blkst8
count: 3
avatarUrl:
<https://avatars.githubusercontent.com/u/49960770?u=7d8a6d5f0a75a5e9a865a2527edfd48895ea27ae&v=4>
url: <https://github.com/blkst8>
ghandic:
login: ghandic
count: 3
avatarUrl:

<https://avatars.githubusercontent.com/u/23500353?u=e2e1d736f924d9be81e8bfc565b6d8836ba99773&v=4>
url: <https://github.com/ghandic>
TeoZosa:
login: TeoZosa
count: 3
avatarUrl:
<https://avatars.githubusercontent.com/u/13070236?u=96fdae85800ef85dcfcc4b5f8281dc8778c8cb7d&v=4>
url: <https://github.com/TeoZosa>
graingert:
login: graingert
count: 3
avatarUrl: <https://avatars.githubusercontent.com/u/413772?v=4>
url: <https://github.com/graingert>
jaystone776:
login: jaystone776
count: 3
avatarUrl:
<https://avatars.githubusercontent.com/u/11191137?u=299205a95e9b6817a43144a48b643346a5aac5cc&v=4>
url: <https://github.com/jaystone776>
zanieb:
login: zanieb
count: 3
avatarUrl: <https://avatars.githubusercontent.com/u/2586601?u=e5c86f7ff3b859e7e183187ac2b17fd6ee32b3ab&v=4>
url: <https://github.com/zanieb>
MicaelJarniac:
login: MicaelJarniac
count: 3
avatarUrl:
<https://avatars.githubusercontent.com/u/19514231?u=158c91874ea98d6e9e6f0c6db37ee2ce60c55ff2&v=4>
url: <https://github.com/MicaelJarniac>
papb:
login: papb
count: 3
avatarUrl:
<https://avatars.githubusercontent.com/u/20914054?u=890511fae7ea90d887e2a65ce44a1775abba38d5&v=4>
url: <https://github.com/papb>
tamird:
login: tamird
count: 3
avatarUrl: <https://avatars.githubusercontent.com/u/1535036?v=4>
url: <https://github.com/tamird>
Nimitha-jagadeesha:
login: Nimitha-jagadeesha
count: 3
avatarUrl: <https://avatars.githubusercontent.com/u/58389915?v=4>
url: <https://github.com/Nimitha-jagadeesha>
lucaromagnoli:
login: lucaromagnoli

count: 3
avatarUrl:
<https://avatars.githubusercontent.com/u/38782977?u=e66396859f493b4ddcb3a837a1b2b2039c805417&v=4>
url: <https://github.com/lucaromagnoli>
salmantec:
login: salmantec
count: 3
avatarUrl:
<https://avatars.githubusercontent.com/u/41512228?u=443551b893ff2425c59d5d021644f098cf7c68d5&v=4>
url: <https://github.com/salmantec>
OCE1960:
login: OCE1960
count: 3
avatarUrl:
<https://avatars.githubusercontent.com/u/45076670?u=0e9a44712b92ffa89ddfbaa83c112f3f8e1d68e2&v=4>
url: <https://github.com/OCE1960>
hamidrasti:
login: hamidrasti
count: 3
avatarUrl:
<https://avatars.githubusercontent.com/u/43915620?v=4>
url: <https://github.com/hamidrasti>
valentinDruzhinin:
login: valentinDruzhinin
count: 3
avatarUrl:
<https://avatars.githubusercontent.com/u/12831905?u=aae1ebc675c91e8fa582df4fcc4fc4128106344d&v=4>
url: <https://github.com/valentinDruzhinin>
kkinder:
login: kkinder
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/1115018?u=c5e90284a9f5c5049eae1bb029e3655c7dc913ed&v=4>
url: <https://github.com/kkinder>
kabirkhan:
login: kabirkhan
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/13891834?u=e0eabf792376443ac853e7dca6f550db4166fe35&v=4>
url: <https://github.com/kabirkhan>
zamiramir:
login: zamiramir
count: 2
avatarUrl: <https://avatars.githubusercontent.com/u/40475662?v=4>
url: <https://github.com/zamiramir>
trim21:
login: trim21
count: 2

avatarUrl:
<https://avatars.githubusercontent.com/u/13553903?u=3cadf0f02095c9621aa29df6875f53a80ca4fbfb&v=4>
url: <https://github.com/trim21>

koxudaxi:
login:
koxudaxi
count: 2
avatarUrl: <https://avatars.githubusercontent.com/u/630670?u=507d8577b4b3670546b449c4c2ccbc5af40d72f7&v=4>
url: <https://github.com/koxudaxi>

pablogamboa:
login: pablogamboa
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/12892536?u=326a57059ee0c40c4eb1b38413957236841c631b&v=4>
url: <https://github.com/pablogamboa>

dconathan:
login: dconathan
count: 2
avatarUrl: <https://avatars.githubusercontent.com/u/15098095?v=4>
url: <https://github.com/dconathan>

Jamim:
login: Jamim
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/5607572?u=9ce0b6a6d1a5124e28b3c04d8d26827ca328713a&v=4>
url: <https://github.com/Jamim>

svalouch:
login: svalouch
count: 2
avatarUrl: <https://avatars.githubusercontent.com/u/54674660?v=4>
url: <https://github.com/svalouch>

frankie567:
login: frankie567
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/1144727?u=f3e79acfe4ed207e15c2145161a8a9759925fcd2&v=4>
url: <https://github.com/frankie567>

marier-nico:
login: marier-nico
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/30477068?u=c7df6af853c8f4163d1517814f3e9a0715c82713&v=4>
url: <https://github.com/marier-nico>

Dustyposa:
login: Dustyposa
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/27180793?u=5cf2877f50b3eb2bc55086089a78a36f07042889&v=4>

url: <https://github.com/Dustyposa>
aviramha:
login: aviramha
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/41201924?u=6883cc4fc13a7b2e60d4deddd4be06f9c5287880&v=4>
url: <https://github.com/aviramha>
iwpnd:
login: iwpnd
count: 2
avatarUrl: <https://avatars.githubusercontent.com/u/6152183?u=ec59396e9437fff488791c5ecd6d23f1f1ebf3a&v=4>
url: <https://github.com/iwpnd>
raphaelaouv:
login: raphaelaouv
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/10202690?u=e6f86f5c0c3026a15d6b51792fa3e532b12f1371&v=4>
url: <https://github.com/raphaelaouv>
windson:
login: windson
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/1826682?u=8b28dcd716c46289f191f8828e01d74edd058bef&v=4>
url: <https://github.com/windson>
sm-Fifteen:
login: sm-Fifteen
count: 2
avatarUrl: <https://avatars.githubusercontent.com/u/516999?u=437c0c5038558c67e887ccd863c1ba0f846c03da&v=4>
url: <https://github.com/sm-Fifteen>
sattosan:
login: sattosan
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/20574756?u=b0d8474d2938189c6954423ae8d81d91013f80a8&v=4>
url: <https://github.com/sattosan>
michaeloliverx:
login: michaeloliverx
count: 2
avatarUrl: <https://avatars.githubusercontent.com/u/55017335?u=efb0cb6e261ff64d862fafb91ee80fc2e1f8a2ed&v=4>
url: <https://github.com/michaeloliverx>
voegtlet:
login: voegtlet
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/5764745?u=db8df3d70d427928ab6d7dbfc395a4a7109c1d1b&v=4>
url: <https://github.com/voegtlet>
HarshaLaxman:
login: HarshaLaxman

count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/19939186?u=a112f38b0f6b4d4402dc8b51978b5a0b2e5c5970&v=4>
url: <https://github.com/HarshaLaxman>
RunningIkkyu:
login: RunningIkkyu
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/31848542?u=494ecc298e3f26197495bb357ad0f57cfd5f7a32&v=4>
url: <https://github.com/RunningIkkyu>
cassiobotaro:
login: cassiobotaro
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/3127847?u=a08022b191ddb0a6159b2981d9d878b6d5bb71f&v=4>
url: <https://github.com/cassiobotaro>
chenl:
login: chenl
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/1677651?u=c618508eaad6d596cea36c8ea784b424288f6857&v=4>
url: <https://github.com/chenl>
retnikt:
login: retnikt
count: 2
avatarUrl: <https://avatars.githubusercontent.com/u/24581770?v=4>
url: <https://github.com/retnikt>
yankeexe:
login: yankeexe
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/13623913?u=f970e66421775a8d3cdab89c0c752eaead186f6d&v=4>
url: <https://github.com/yankeexe>
patrickkwang:
login: patrickkwang
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/1263870?u=4bf74020e15be490f19ef8322a76eec882220b96&v=4>
url: <https://github.com/patrickkwang>
victorphoenix3:
login: victorphoenix3
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/48182195?u=e4875bd088623cb4ddeb7be194ec54b453aff035&v=4>
url: <https://github.com/victorphoenix3>
davidefiocco:
login: davidefiocco
count: 2

avatarUrl: <https://avatars.githubusercontent.com/u/4547987?v=4>
url: <https://github.com/davidefiocco>
adriencaccia:
login: adriencaccia
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/19605940?u=9a59081f46bfc9d839886a49d5092cf572879049&v=4>
url: <https://github.com/adriencaccia>
jamescurtin:
login: jamescurtin
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/10189269?u=0b491fc600ca51f41cf1d95b49fa32a3eba1de57&v=4>
url: <https://github.com/jamescurtin>
jmriebold:
login: jmriebold
count: 2
avatarUrl: <https://avatars.githubusercontent.com/u/6983392?u=4efdc97bf2422dcc7e9ff65b9ff80087c8eb2a20&v=4>
url: <https://github.com/jmriebold>
nukopy:
login: nukopy
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/42367320?u=6061be0bd060506f6d564a8df3ae73fab048cdfe&v=4>
url: <https://github.com/nukopy>
imba-tjd:
login: imba-tjd
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/24759802?u=01e901a4fe004b4b126549d3ff1c4000fe3720b5&v=4>
url: <https://github.com/imba-tjd>
johnthagen:
login: johnthagen
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/10340167?u=47147fc4e4db1f573bee3fe428deeac3197bc5f&v=4>
url: <https://github.com/johnthagen>
paxcodes:
login: paxcodes
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/13646646?u=e7429cc7ab11211ef762f4cd3efea7db6d9ef036&v=4>
url: <https://github.com/paxcodes>
kaustubhgupta:
login: kaustubhgupta
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/43691873?u=8dd738718ac7ffad4ef31e86b5d780a1141c695d&v=4>

url: <https://github.com/kaustubhgupta>
kinuax:
login: kinuax
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/13321374?u=22dc9873d6d9f2c7e4fc44c6480c3505efb1531f&v=4>
url: <https://github.com/kinuax>
wakabame:
login: wakabame
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/35513518?u=41ef6b0a55076e5c540620d68fb006e386c2ddb0&v=4>
url: <https://github.com/wakabame>
nzig:
login: nzig
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/7372858?u=e769add36ed73c778cdb136eb10bf96b1e119671&v=4>
url: <https://github.com/nzig>
yezz123:
login: yezz123
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/52716203?u=21b53ce4115062b1e20cb513e64ca0000c2ef127&v=4>
url: <https://github.com/yezz123>
softwarebloat:
login: softwarebloat
count: 2
avatarUrl: <https://avatars.githubusercontent.com/u/16540684?v=4>
url: <https://github.com/softwarebloat>
Lancetnik:
login: Lancetnik
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/44573917?u=6eaa0cdd35259fba40a76b82e4903440cba03fa9&v=4>
url:
<https://github.com/Lancetnik>
joakimnordling:
login: joakimnordling
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/6637576?u=df5d99db9b899b399effd429f4358baaa6f7199c&v=4>
url: <https://github.com/joakimnordling>
yogabonito:
login: yogabonito
count: 2
avatarUrl: <https://avatars.githubusercontent.com/u/7026269?v=4>
url: <https://github.com/yogabonito>

s111d:
login: s111d
count: 2
avatarUrl: <https://avatars.githubusercontent.com/u/4954856?v=4>
url: <https://github.com/s111d>
estebanx64:
login: estebanx64
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/10840422?u=1900887aeed268699e5ea6f3fb7db614f7b77cd3&v=4>
url: <https://github.com/estebanx64>
ndimares:
login: ndimares
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/6267663?u=cfb27efde7a7212be8142abb6c058a1aeadb41b1&v=4>
url: <https://github.com/ndimares>
rabinlamadong:
login: rabinlamadong
count: 2
avatarUrl: <https://avatars.githubusercontent.com/u/170439781?v=4>
url:
<https://github.com/rabinlamadong>
AyushSinghal1794:
login: AyushSinghal1794
count: 2
avatarUrl: <https://avatars.githubusercontent.com/u/89984761?v=4>
url: <https://github.com/AyushSinghal1794>
gsheni:
login: gsheni
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/8726321?u=ee3bd9ff6320f4715d1dd9671a3d55cccb65b984&v=4>
url: <https://github.com/gsheni>
chailandau:
login: chailandau
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/112015853?u=2e6aaf2b1647db43834aabeae8d8282b4ec01873&v=4>
url: <https://github.com/chailandau>
DanielKusyDev:
login: DanielKusyDev
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/36250676?u=2ea6114ff751fc48b55f231987a0e2582c6b1bd2&v=4>
url: <https://github.com/DanielKusyDev>
DanielYang59:
login: DanielYang59

count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/80093591?u=63873f701c7c74aac83c906800a1dddc0bc8c92f&v=4>
url: <https://github.com/DanielYang59>
blueswen:
login: blueswen
count: 2
avatarUrl:
<https://avatars.githubusercontent.com/u/1564148?u=6d6b8cc8f2b5cef715e68d6175154a8a94d518ee&v=4>
url: <https://github.com/blueswen>
Taoup:
login: Taoup
count: 2
avatarUrl: <https://avatars.githubusercontent.com/u/22348542?v=4>
url: <https://github.com/Taoup>

1.111 pyang 2.6.1

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Per Andersson

Robert Andersson

Ebben Aries

Stuart Bayley

Remington Campbell

Joe Clark

John Dickinson

Duncan Eastoe

Mark Farrell

Fred Gan

Joe Gladston

Pravin Gohite

Yan Gorelik

Nick Hancock

Giles Heron

Derek Ingrouville
Jozef Janitor
Robin Jarry
Mahesh Jethanandani
Denys Knertser
Mallikarjunarao Kosuri
Miroslav Kovac
Jan Kundrt
Balzs Lengyel
Michael Littlejohn
Miroslav Los
Ladislav Lhotka
William Lupton
Slavomir Mazur
Glenn Matthews
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1.112 tabulate 0.9.0

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1.118 iniconfig 2.0.0

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1.119 aiofiles 23.2.1

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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.

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|----------------|--------------|-----------|------------|---------------------|
| 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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## 1.136 once\_cell 1.19.0

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## 1.138 ahash 0.8.11

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## 1.139 pem 3.0.4

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## 1.140 pyo3-ffi 0.23.5

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## 1.141 memchr 2.7.4

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## 1.143 base-64 0.22.1

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## 1.144 once\_cell 1.20.2

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## 1.145 icu\_normalizer 1.5.0

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## 1.147 smallvec 1.14.0

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## 1.151 lexical-parse-float 1.0.5

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## ``write-floats, not(compact)``

``lexical-write-float/src/algorithm.rs`` is a direct port of the reference C++ implementation of Dragonbox, found [here](<https://github.com/jk-jeon/dragonbox/>).

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## ``write-floats, compact``

``lexical-write-float/src/compact.rs`` is a direct port of a C++ implementation of the Grisu algorithm, found [here](<https://github.com/night-shift/fpconv/>).

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## ``write-floats, radix``

``lexical-write-float/src/radix.rs`` is adapted from the V8 implementation found [here](). This code (used if both the ``parse-floats`` and ``radix`` features are enabled) is subject to a [3-clause BSD license](<https://github.com/v8/v8/blob/f80bfeaf0792652bfbfc1f174d5a7b8ab8bc0cbbd/LICENSE.v8>), shown in the [V8 License](`#v8-license`) section below.

## `parse-floats, compact`

`lexical-parse-float/src/bellerophon.rs` is loosely based off the Golang implementation, found

[here](https://github.com/golang/go/blob/b10849fbb97a2244c086991b4623ae9f32c212d0/src/strconv/extfloat.go).

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## 1.152 speedate 0.15.0

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## 1.155 percent-encoding 2.3.1

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## 1.156 `serde_json` 1.0.140

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## 1.159 pyo3-ffi 0.24.1

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# 1.160 asn1 0.20.0

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## 1.164 sha-2 0.10.8

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## 1.166 blowfish 0.9.1

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# 1.169 pyo3-ffi 0.23.1

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## 1.170 bcrypt 0.16.0

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