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```
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   version 1.2.11, January 15th, 2017
```

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```
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under certain conditions; type `show c' for details.
```

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## 1.16 zstd 1.5.2

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```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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## 1.17 pytz 2023.3

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

```
'# Date created:      3 July 2003\n' Comment
```

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

```
'#\n'      Comment
```

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

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

'PORTNAME' Name.Variable

'=' Operator

'\t' Text.Whitespace

'python25' Text

'\n' Text.Whitespace

'PORTVERSION' Name.Variable

'=' Operator

'\t' Text.Whitespace

'2' Literal.Number

'.5.1' Text

'\n' Text.Whitespace

'CATEGORIES' Name.Variable

'=' Operator

'\t' Text.Whitespace

'lang' Text

' ' Text.Whitespace

'python' Text

' ' Text.Whitespace

'ipv6' Text

'\n' Text.Whitespace

'MASTER\_SITES' Name.Variable

'=' Operator

'\t' Text.Whitespace

'\${' Literal.String.Interpol

'PYTHON\_MASTER\_SITES' Name.Variable

'}' Literal.String.Interpol

'\n' Text.Whitespace

'MASTER\_SITE\_SUBDIR' Name.Variable

'=' Operator

'\t' Text.Whitespace

'\${' Literal.String.Interpol

'PYTHON\_MASTER\_SITE\_SUBDIR' Name.Variable

'}' Literal.String.Interpol

'\n' Text.Whitespace

'DISTFILES' Name.Variable

'=' Operator

'\t' Text.Whitespace

'\${' Literal.String.Interpol

'PYTHON\_DISTFILE' Name.Variable

'}' Literal.String.Interpol

'\n' Text.Whitespace

'\n' Text.Whitespace

'MAINTAINER' Name.Variable

'=' Operator

'\t' Text.Whitespace

'python@FreeBSD.org' Text

'\n' Text.Whitespace

'COMMENT' Name.Variable

'?=' Operator

'\t' Text.Whitespace

'An' Text

' ' Text.Whitespace

'interpreted' Text

' ' Text.Whitespace

'object-oriented' Text

' ' Text.Whitespace

'programming' Text

' ' Text.Whitespace

'language' Text

'\n' Text.Whitespace

'\n' Text.Whitespace

'DIST\_SUBDIR' Name.Variable

'=' Operator

'\t' Text.Whitespace

'python' Text

'\n' Text.Whitespace

'WRKSRC' Name.Variable

'=' Operator

'\t\t' Text.Whitespace

'\${' Literal.String.Interpol

'PYTHON\_WRKSRC' Name.Variable

'}' Literal.String.Interpol

'/portbld.static' Text

'\n' Text.Whitespace

'PATCH\_WRKSRC' Name.Variable

'=' Operator

'\t' Text.Whitespace

'\${' Literal.String.Interpol

'PYTHON\_WRKSRC' Name.Variable

'}' Literal.String.Interpol

'\n' Text.Whitespace

'GNU\_CONFIGURE' Name.Variable

'=' Operator

'\t' Text.Whitespace  
'yes' Text  
'\n' Text.Whitespace  
  
'CONFIGURE\_TARGET' Name.Variable  
'=' Operator  
'\t' Text.Whitespace  
'--build' Text  
'=' Operator  
'\${' Literal.String.Interpol  
'MACHINE\_ARCH' Name.Variable  
'}' Literal.String.Interpol  
'-portbld-freebsd' Text  
'\${' Literal.String.Interpol  
'OSREL' Name.Variable  
'}' Literal.String.Interpol  
'\n' Text.Whitespace

'CONFIGURE\_SCRIPT' Name.Variable  
'=' Operator  
'\t' Text.Whitespace  
'../configure' Text  
' ' Text.Whitespace  
'# must be relative\n' Comment.Single

'CONFIGURE\_ENV' Name.Variable  
'=' Operator  
'\t' Text.Whitespace  
'OPT' Name.Variable  
'=' Operator  
'"' Literal.String.Double  
'\${' Literal.String.Interpol  
'CFLAGS' Name.Variable  
'}' Literal.String.Interpol  
'"' Literal.String.Double  
' ' Text.Whitespace  
'SVNVERSION' Name.Variable  
'=' Operator  
'"echo freebsd"' Literal.String.Double  
'\n' Text.Whitespace

'MAKE\_ENV' Name.Variable  
'=' Operator  
'\t' Text.Whitespace  
'VPATH' Name.Variable  
'=' Operator  
'"' Literal.String.Double  
'\${' Literal.String.Interpol

'PYTHON\_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

'\t' Text.Whitespace

'yes' Text

'\n' Text.Whitespace

'\n' Text.Whitespace

'SHARED\_WRKSRC' Name.Variable

'=' Operator

'\t' Text.Whitespace

'\${' Literal.String.Interpol

'PYTHON\_WRKSRC' 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

'TOOLS DIR' Name.Variable  
 '=' Operator  
 '\t' Text.Whitespace  
 '\${' Literal.String.Interpol  
 'PREFIX' Name.Variable  
 '}' Literal.String.Interpol  
 '/share/' Text  
 '\${' Literal.String.Interpol  
 'PYTHON\_VERSION' Name.Variable  
 '}' Literal.String.Interpol  
 '\n' Text.Whitespace

\n' Text.Whitespace

'BIN\_SCRIPTS' Name.Variable  
 '=' Operator  
 '\t' Text.Whitespace  
 'idle' Text  
 '' Text.Whitespace  
 'pydoc' Text  
 '' Text.Whitespace  
 'python' Text  
 '' Text.Whitespace  
 'python-shared' Text  
 '' Text.Whitespace  
 'smtpd.py' Text  
 '' Text.Whitespace  
 'python-config' Text  
 '' Text.Whitespace  
 '\\\n' Literal.String.Escape

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



```

\n'      Text.Whitespace

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

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

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

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

'\n'    Text.Whitespace

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

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

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

```

```

'.else\n'    Comment.Preproc

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

'.endif\n'  Comment.Preproc

'\n'       Text.Whitespace

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

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

'\n'       Text.Whitespace

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

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

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

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

'CFLAGS'   Name.Variable
'+='       Operator
'\t\t'     Text.Whitespace

```

```

'-DTHREAD_STACK_SIZE' Text
'=' Operator
'0x20000' Text
'\n' Text.Whitespace

'.else\n' Comment.Preproc

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

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

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

'.else\n' Comment.Preproc

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

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

'CONFIGURE_ENV' Name.Variable
'+=' Operator
'\t\t' Text.Whitespace
'LDFLAGS' Name.Variable
'=' Operator

```

```

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

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

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

'\n'     Text.Whitespace

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

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

'.endif\n' Comment.Preproc

'\n'     Text.Whitespace

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

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

'.endif\n' Comment.Preproc

'\n'     Text.Whitespace

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

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

```

```

'.else\n' Comment.Preproc

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

'.endif\n' Comment.Preproc

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

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

'.else\n' Comment.Preproc

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

'.endif\n' Comment.Preproc

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

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

'.endif\n' Comment.Preproc

'\n' Text.Whitespace

```

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

```
'PLIST_SUB' Name.Variable
```

```
'+=' Operator
```

```
'\t' Text.Whitespace
```

```
'NO_NIS' Name.Variable
```

```
'=' Operator
```

```
'"@comment "' Literal.String.Double
```

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

```
'.else\n' Comment.Preproc
```

```
'PLIST_SUB' Name.Variable
```

```
'+=' Operator
```

```
'\t' Text.Whitespace
```

```
'NO_NIS' Name.Variable
```

```
'=' Operator
```

```
'"' Literal.String.Double
```

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

```
'.endif\n' Comment.Preproc
```

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

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

```
'CONFIGURE_ARGS' Name.Variable
```

```
'+=' Operator
```

```
' ' Text.Whitespace
```

```
'--enable-ipv6' Text
```

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

```
'.else\n' Comment.Preproc
```

```
'CONFIGURE_ARGS' Name.Variable
```

```
'+=' Operator
```

```
' ' Text.Whitespace
```

```
'--disable-ipv6' Text
```

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

```
'.endif\n' Comment.Preproc
```

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

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

```
'CONFIGURE_ARGS' Name.Variable
```

```

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

'.endif\n' Comment.Preproc

'\n'      Text.Whitespace

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

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

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

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

'.else\n'   Comment.Preproc

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

'.endif\n' Comment.Preproc

'\n'      Text.Whitespace

'pre-patch' Name.Function
':'        Operator

```



```

\n'      Text.Whitespace

\t'      Text.Whitespace
'${'     Literal.String.Interpol
'MKDIR'   Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'${'     Literal.String.Interpol
'WRKSRC'  Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'${'     Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}'      Literal.String.Interpol
'/Modules' Text
\n\t'    Text.Whitespace
'${'     Literal.String.Interpol
'SED'     Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'-e'     Text
''       Text.Whitespace
"'1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},'" Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

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

```

```

\t\t'    Text.Whitespace
'${'    Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'     Literal.String.Interpol
'/Tools/scripts/idle' Text
''      Text.Whitespace
'>'     Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'WRKDIR' Name.Variable
'}'     Literal.String.Interpol
'/idle2.5' Text
'\n\t'  Text.Whitespace
'${'    Literal.String.Interpol
'SED'   Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-e'    Text
''      Text.Whitespace
"'1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},'" Literal.String.Single
''      Text.Whitespace
'\\n'   Literal.String.Escape

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

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

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

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

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

```

```

'}'      Literal.String.Interpol
''       Text.Whitespace
'-e'     Text
''       Text.Whitespace
'\\n'    Literal.String.Escape

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

'\t\t'   Text.Whitespace
'${'     Literal.String.Interpol
'PATCH_WKRSRC' Name.Variable
'}'      Literal.String.Interpol
'/Makefile.pre.in' Text
'\n\n\t' Text.Whitespace
'${'     Literal.String.Interpol
'SED'    Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'-e'     Text
''       Text.Whitespace
"s|^#!.*#!${PREFIX}/bin/${PYTHON_VERSION}|" Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'${'     Literal.String.Interpol
'PATCH_WKRSRC' Name.Variable
'}'      Literal.String.Interpol
'/Misc/python-config.in' Text
''       Text.Whitespace
'>'     Text
''       Text.Whitespace
'${'     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
'${'     Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'     Literal.String.Interpol
'/Misc/python-config.in' Text
''       Text.Whitespace
'>'     Text
''       Text.Whitespace
'${'     Literal.String.Interpol
'WRKDIR'  Name.Variable
'}'     Literal.String.Interpol
'/'       Text
'${'     Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'       Punctuation
'S'       Name.Variable
'/thon/thon-shared/' Punctuation
'}'     Literal.String.Interpol
'-config' Text
'\n\n'   Text.Whitespace

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

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

```

'WRKSRC' Name.Variable  
 '}' Literal.String.Interpol  
 '/Modules/Setup.dist' Text  
 '\n' Text.Whitespace

'.endif\n' Comment.Preproc

\n' Text.Whitespace

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

\t' Text.Whitespace  
 '\${' Literal.String.Interpol  
 'TAR' Name.Variable  
 '}' Literal.String.Interpol  
 '' Text.Whitespace  
 '-C' Text  
 '' Text.Whitespace  
 '\${' Literal.String.Interpol  
 'WRKSRC' Name.Variable  
 '}' Literal.String.Interpol  
 '' Text.Whitespace  
 '-cf' Text  
 '' Text.Whitespace  
 '-' Text  
 '' Text.Whitespace  
 ':' Text  
 '' Text.Whitespace  
 '|' Punctuation  
 '' Text.Whitespace  
 '\${' Literal.String.Interpol  
 'TAR' Name.Variable  
 '}' Literal.String.Interpol  
 '' Text.Whitespace  
 '-C' Text  
 '' Text.Whitespace  
 '\${' Literal.String.Interpol  
 'SHARED\_WRKSRC' Name.Variable  
 '}' Literal.String.Interpol  
 '' Text.Whitespace  
 '-xf' Text  
 '' Text.Whitespace  
 '-' Text  
 '\n\t' Text.Whitespace  
 '\${' Literal.String.Interpol  
 'LN' Name.Variable

```

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

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

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

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

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

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

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

 '\\t'   Text.Whitespace
'${'    Literal.String.Interpol
'SETENV' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'${'    Literal.String.Interpol
'MAKE_ENV' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace

```



'\${' Literal.String.Interpol  
'MAKE' Name.Variable  
'}' Literal.String.Interpol  
' ' Text.Whitespace  
'lib' Text  
'\${' Literal.String.Interpol  
'PYTHON\_VERSION' Name.Variable  
'}' Literal.String.Interpol  
'so' Text  
' ' Text.Whitespace  
'python' Text  
'; ' Punctuation  
' ' Text.Whitespace  
'\\n' Literal.String.Escape

't' Text.Whitespace  
'\${' Literal.String.Interpol  
'LN' Name.Variable  
'}' Literal.String.Interpol  
' ' Text.Whitespace  
'-f' Text  
' ' Text.Whitespace  
'lib' Text  
'\${' Literal.String.Interpol  
'PYTHON\_VERSION' Name.Variable  
'}' Literal.String.Interpol  
'so' Text  
' ' Text.Whitespace  
'lib' Text  
'\${' Literal.String.Interpol  
'PYTHON\_VERSION' Name.Variable  
'}' Literal.String.Interpol  
'so.l' Text  
'; ' Punctuation  
' ' Text.Whitespace  
'\\n' Literal.String.Escape

't' Text.Whitespace  
'\${' Literal.String.Interpol  
'LN' Name.Variable  
'}' Literal.String.Interpol  
' ' Text.Whitespace  
'-f' Text  
' ' Text.Whitespace  
'python' Text  
' ' Text.Whitespace  
'\${' Literal.String.Interpol  
'PYTHON\_VERSION' Name.Variable

'.' Punctuation  
'S' Name.Variable  
'/thon/thon-shared/' Punctuation  
'}' Literal.String.Interpol  
'\n\n' Text.Whitespace  
  
'pre-su-install' Name.Function  
'.' Operator  
'\n' Text.Whitespace  
  
'for platform in \${PLATFORMS}\n' Comment.Preproc

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

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

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

```

'${'      Literal.String.Interpol
'PYTHONPREFIX_LIBDIR' Name.Variable
'}'      Literal.String.Interpol
 '/'     Text
'${'      Literal.String.Interpol
'platform' Name.Variable
'}'      Literal.String.Interpol
 '/'     Text
'\n'     Text.Whitespace

'.endfor\n' Comment.Preproc

'.endfor\n' Comment.Preproc

'\n'     Text.Whitespace

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

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

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

\t'     Text.Whitespace
 '('     Operator

```

```

 '['      Operator
 ''      Text.Whitespace
 '-f'    Text
 ''      Text.Whitespace
 '${'    Literal.String.Interpol
 'WRKSRC' Name.Variable
 '}'     Literal.String.Interpol
 '/.without_own_sha' Text
 ''      Text.Whitespace
 ']'     Operator
 ''      Text.Whitespace
 '&&'    Operator
 ''      Text.Whitespace
 '\\n'   Literal.String.Escape

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

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

```

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

'\t\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_WRKSRC' Name.Variable

```

'}' Literal.String.Interpol  
'/' Text  
'\${' Literal.String.Interpol  
'PYTHON\_VERSION' Name.Variable  
'.' Punctuation  
'S' Name.Variable  
'/thon/thon-shared/' Punctuation  
'}' Literal.String.Interpol  
' ' Text.Whitespace  
'\\n' Literal.String.Escape  
  
'\t\t' Text.Whitespace  
'\${' Literal.String.Interpol  
'PREFIX' Name.Variable  
'}' Literal.String.Interpol  
'/bin' Text  
'\n\n' Text.Whitespace

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

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

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



```

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

```

```

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

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

'.endif\n' Comment.Preproc

'\n'    Text.Whitespace

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

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

'\t\t'  Text.Whitespace

```

'(' Operator  
 'cd' Name.Builtin  
 '' Text.Whitespace  
 '\${' Literal.String.Interpol  
 '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\_WKSRVC' 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

```

## 1.19 pexpect 4.8.0

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## 1.20 zstd 1.5.5

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# 1.21 pynacl 1.5.0

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## 1.22 enum-compat 0.0.3

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Metadata-Version: 1.1

Name: enum-compat

Version: 0.0.3

Summary: enum/enum34 compatibility package

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

Author: Jakub Stasiak

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

License: MIT

Description:

enum-compat

=====

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

Keywords: enum,compatibility,enum34

Platform: UNKNOWN

Classifier: Intended Audience :: Developers

Classifier: Topic :: Software Development :: Libraries

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Found in path(s):

\* /opt/cola/permits/1160336726\_1673902146.5400865/0/enum-compat-0-0-3-tar-gz/enum-compat-0.0.3/enum\_compat.egg-info/PKG-INFO

\* /opt/cola/permits/1160336726\_1673902146.5400865/0/enum-compat-0-0-3-tar-gz/enum-compat-0.0.3/PKG-INFO

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## 1.38 zlib 1.2.5

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```
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## 1.40 pyjwt 2.7.0

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## 1.42 bcrypt 4.0.1

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## 1.43 dns-python 2.4.0

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## 1.44 httpx 0.24.1

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## 1.45 mako 1.2.4

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## 1.46 appdirs 1.4.4

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# 1.47 zstd 0.21.0

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under certain conditions; type `show c' for details.
```

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```
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```

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

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## 1.48 pysmi-lexstudio 1.1.13

### 1.48.1 Available under license :

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Metadata-Version: 2.1

Name: pysmi-lexstudio

Version: 1.1.13

Summary: A pure-Python implementation of SNMP/SMI MIB parsing and conversion library.

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

License: BSD-2-Clause

Author: Ilya Etingof

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

Requires-Python: >=3.7,<4.0

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Console

Classifier: Intended Audience :: Developers

Classifier: Intended Audience :: Information Technology

Classifier: Intended Audience :: System Administrators

Classifier: Intended Audience :: Telecommunications Industry

Classifier: License :: OSI Approved :: BSD License

Classifier: Natural Language :: English

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.7

Classifier: Programming Language :: Python :: 3.8

Classifier: Programming Language :: Python :: 3.9

Classifier: Programming Language :: Python :: 3.10

Classifier: Programming Language :: Python :: 3.11

Classifier: Topic :: Communications

Classifier: Topic :: Software Development :: Libraries :: Python Modules

Requires-Dist: ply (>=3.11,<4.0)

Requires-Dist: requests (>=2.26.0,<3.0.0)

Project-URL: Repository, <https://github.com/lexstudio/pysmi>

Description-Content-Type: text/markdown

SNMP MIB parser

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[!PyPI](<https://img.shields.io/pypi/v/pysmi-lexstudio.svg?maxAge=2592000>)(<https://pypi.org/project/pysmi-lexstudio/>)

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[!GitHub license](<https://img.shields.io/badge/license-BSD-blue.svg>)(<https://raw.githubusercontent.com/lexstudio/pysmi/master/LICENSE.rst>)

PySMI is a pure-Python implementation of [SNMP SMI](https://en.wikipedia.org/wiki/Management\_information\_base) MIB parser. This tool is designed to turn ASN.1 MIBs into various formats. As of this moment, JSON and [pysnmp](https://github.com/lexstudio/pysnmp) modules can be generated from ASN.1 MIBs.

## Features

-----

- \* Understands SMIV1, SMIV2 and de-facto SMI dialects
- \* Turns MIBs into pysnmp classes and JSON documents
- \* Maintains an index of MIB objects over many MIB modules
- \* Automatically pulls ASN.1 MIBs from local directories, ZIP archives, HTTP and FTP servers
- \* 100% Python, works with Python 3.7+

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

## How to use PySMI

-----

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

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

---

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

Created/updated MIBs: IANAifType-MIB, IF-MIB, SNMPv2-MIB

Pre-compiled MIBs borrowed:

Up to date MIBs: SNMPv2-CONF, SNMPv2-SMI, SNMPv2-TC

Missing source MIBs:

Ignored MIBs:

Failed MIBs:

---

JSON document build from

[IF-MIB module](<https://mibs.pysnmp.com/asn1/IF-MIB>)

would hold information such as:

---

```
{
  "ifMIB": {
    "name": "ifMIB",
    "oid": "1.3.6.1.2.1.31",
    "class": "moduleidentity",
    "revisions": [
      "2007-02-15 00:00",
      "1996-02-28 21:55",
      "1993-11-08 21:55"
    ]
  },
  ...
  "ifTestTable": {
    "name": "ifTestTable",
    "oid": "1.3.6.1.2.1.31.1.3",
    "nodetype": "table",
    "class": "objecttype",
    "maxaccess": "not-accessible"
  },
  "ifTestEntry": {
    "name": "ifTestEntry",
    "oid": "1.3.6.1.2.1.31.1.3.1",
    "nodetype": "row",
    "class": "objecttype",
    "maxaccess": "not-accessible",
    "augmentation": {
      "name": "ifTestEntry",
      "module": "IF-MIB",
      "object": "ifEntry"
    }
  },
  "ifTestId": {
    "name": "ifTestId",
    "oid": "1.3.6.1.2.1.31.1.3.1.1",
    "nodetype": "column",
```



```

    "class": "objecttype",
    "syntax": {
        "type": "TestAndIncr",
        "class": "type"
    },
    "maxaccess": "read-write"
},
...
}
```

```

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

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

For example, JSON index for

[IP-MIB.json](<https://mibs.pysnmp.com/json/asn1/IP-MIB>),

[TCP-MIB.json](<https://mibs.pysnmp.com/json/asn1/TCP-MIB>) and

[UDP-MIB.json](<https://mibs.pysnmp.com/json/asn1/UDP-MIB>)

modules would keep information like this:

```

...
{
  "compliance": {
    "1.3.6.1.2.1.48.2.1.1": [
      "IP-MIB"
    ],
    "1.3.6.1.2.1.49.2.1.1": [
      "TCP-MIB"
    ],
    "1.3.6.1.2.1.50.2.1.1": [
      "UDP-MIB"
    ]
  },
  "identity": {
    "1.3.6.1.2.1.48": [
      "IP-MIB"
    ],
    "1.3.6.1.2.1.49": [
      "TCP-MIB"
    ],
    "1.3.6.1.2.1.50": [
      "UDP-MIB"
    ]
  },
}

```

```

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

```

With this example, *\*compliance\** and *\*identity\** keys point to *\*MODULE-COMPLIANCE\** and *\*MODULE-IDENTITY\** MIB objects, *\*oids\** list top-level OIDs branches defined in MIB modules. Full index build over thousands of MIBs could be seen [\[here\]\(https://mibs.pysnmp.com/json/index.json\)](https://mibs.pysnmp.com/json/index.json).

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

How to get PySMI

-----

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

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

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

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SNMP SMI compiler

=====

.. toctree::  
:maxdepth: 2

The PySMI library and tools are designed to parse, verify and transform `SNMP SMI <[https://en.wikipedia.org/wiki/Management\\_information\\_base](https://en.wikipedia.org/wiki/Management_information_base)>` \_ MIB modules from their original ASN.1 form into JSON or `pysnmp <<https://www.pysnmp.com/pysnmp/>>` \_ representation.

Documentation

-----

.. toctree::  
:maxdepth: 2

/documentation

Source code & Changelog

-----

Project source code is hosted at `GitHub <<https://github.com/lexstudio/pysmi>>` \_ . Everyone is welcome to fork and contribute back!

We maintain the detailed :doc:`log of changes </changelog>` to our software.

Download & Install

-----

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Changes

-----

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-----

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```

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MIB files archive

-----

The PySMI project maintains a `collection <<https://mibs.pysnmp.com/asn1/>>` of publicly available ASN.1 MIB files collected on the Internet. You are welcome to use this MIBs archive however we can't guarantee any degree of consistency or reliability when it comes to these MIB modules.

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

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

Contact

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In case of questions or troubles using SNMP SMI library, please open up an `issue <<https://github.com/lexstudio/pysnmp/issues>>` at GitHub or ask at `Stack Overflow <<https://stackoverflow.com/questions/tagged/pysnmp>>` .

Found in path(s):

```
* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/docs/source/index.rst
```

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

SNMP MIB parser

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```
[![PyPI](https://img.shields.io/pypi/v/pysmi-lexstudio.svg?maxAge=2592000)](https://pypi.org/project/pysmi-lexstudio)  
[![PyPI Downloads](https://img.shields.io/pypi/dd/pysmi-lexstudio)](https://pypi.python.org/pypi/pysmi-lexstudio/  
[![Python Versions](https://img.shields.io/pypi/pyversions/pysmi-lexstudio.svg)](https://pypi.org/project/pysmi-lexstudio/  
[![GitHub license](https://img.shields.io/badge/license-BSD-blue.svg)](https://raw.githubusercontent.com/lexstudio/pysmi/master/LICENSE.rst)
```

PySMI is a pure-Python implementation of [SNMP SMI]([https://en.wikipedia.org/wiki/Management\\_information\\_base](https://en.wikipedia.org/wiki/Management_information_base)) MIB parser. This tool is designed to turn ASN.1 MIBs into various formats. As of this moment, JSON and [pysnmp](<https://github.com/lexstudio/pysnmp>) modules can be generated from ASN.1 MIBs.

## Features

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- \* Understands SMIV1, SMIV2 and de-facto SMI dialects
- \* Turns MIBs into pysnmp classes and JSON documents
- \* Maintains an index of MIB objects over many MIB modules
- \* Automatically pulls ASN.1 MIBs from local directories, ZIP archives, HTTP and FTP servers
- \* 100% Python, works with Python 3.7+

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

## How to use PySMI

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

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

---

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

Created/updated MIBs: IANAifType-MIB, IF-MIB, SNMPv2-MIB

Pre-compiled MIBs borrowed:

Up to date MIBs: SNMPv2-CONF, SNMPv2-SMI, SNMPv2-TC

Missing source MIBs:

Ignored MIBs:

Failed MIBs:

---

JSON document build from

[IF-MIB module](<https://mibs.pysnmp.com/asn1/IF-MIB>)

would hold information such as:

---

```
{
  "ifMIB": {
    "name": "ifMIB",
    "oid": "1.3.6.1.2.1.31",
    "class": "moduleidentity",
    "revisions": [
      "2007-02-15 00:00",
      "1996-02-28 21:55",
      "1993-11-08 21:55"
    ]
  },
  ...
  "ifTestTable": {
    "name": "ifTestTable",
    "oid": "1.3.6.1.2.1.31.1.3",
    "nodetype": "table",
    "class": "objecttype",
    "maxaccess": "not-accessible"
  },
  "ifTestEntry": {
    "name": "ifTestEntry",
    "oid": "1.3.6.1.2.1.31.1.3.1",
    "nodetype": "row",
    "class": "objecttype",
    "maxaccess": "not-accessible",
    "augmentation": {
      "name": "ifTestEntry",
      "module": "IF-MIB",
      "object": "ifEntry"
    }
  },
  "ifTestId": {
    "name": "ifTestId",
    "oid": "1.3.6.1.2.1.31.1.3.1.1",
    "nodetype": "column",
```

```

    "class": "objecttype",
    "syntax": {
        "type": "TestAndIncr",
        "class": "type"
    },
    "maxaccess": "read-write"
},
...
}
```

```

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

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

For example, JSON index for

[IP-MIB.json](<https://mibs.pysnmp.com/json/asn1/IP-MIB>),

[TCP-MIB.json](<https://mibs.pysnmp.com/json/asn1/TCP-MIB>) and

[UDP-MIB.json](<https://mibs.pysnmp.com/json/asn1/UDP-MIB>)

modules would keep information like this:

```

...
{
  "compliance": {
    "1.3.6.1.2.1.48.2.1.1": [
      "IP-MIB"
    ],
    "1.3.6.1.2.1.49.2.1.1": [
      "TCP-MIB"
    ],
    "1.3.6.1.2.1.50.2.1.1": [
      "UDP-MIB"
    ]
  },
  "identity": {
    "1.3.6.1.2.1.48": [
      "IP-MIB"
    ],
    "1.3.6.1.2.1.49": [
      "TCP-MIB"
    ],
    "1.3.6.1.2.1.50": [
      "UDP-MIB"
    ]
  },
}

```

```

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

```

With this example, *\*compliance\** and *\*identity\** keys point to *\*MODULE-COMPLIANCE\** and *\*MODULE-IDENTITY\** MIB objects, *\*oids\** list top-level OIDs branches defined in MIB modules. Full index build over thousands of MIBs could be seen [here](https://mibs.pysnmp.com/json/index.json)(<https://mibs.pysnmp.com/json/index.json>).

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

How to get PySMI

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

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

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

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Found in path(s):

\* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/README.md

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

```
'long_description': '\nSNMP MIB parser\n-----\n\n[PyPI](https://img.shields.io/pypi/v/pysmi-lexstudio.svg?maxAge=2592000)[(https://pypi.org/project/pysmi-lexstudio)\n\n[PyPI Downloads](https://img.shields.io/pypi/dd/pysmi-lexstudio)[(https://pypi.python.org/pypi/pysmi-lexstudio/)\n\n[Python Versions](https://img.shields.io/pypi/pyversions/pysmi-lexstudio.svg)](https://pypi.org/project/pysmi-lexstudio/)\n\n[GitHub license](https://img.shields.io/badge/license-BSD-blue.svg)](https://raw.githubusercontent.com/lexstudio/pysmi/master/LICENSE.rst)\n\nPySMI is a pure-Python implementation of [SNMP SMI](https://en.wikipedia.org/wiki/Management_information_base) MIB parser.\n\nThis tool is designed to turn ASN.1 MIBs into various formats. As of this moment,\n\nJSON and [pysnmp](https://github.com/lexstudio/pysnmp) modules can be generated\n\nfrom ASN.1 MIBs.\n\n\nFeatures\n\n-----\n\n\n* Understands SMIv1, SMIv2 and de-facto SMI dialects\n* Turns MIBs into pysnmp classes and JSON documents\n* Maintains an index of MIB objects over many MIB modules\n* Automatically pulls ASN.1 MIBs from local directories, ZIP archives,\n\nHTTP and FTP servers\n* 100% Python, works with Python 3.7+\n\n\nRendered PySMI documentation can be found at [pysmi site](https://www.pysnmp.com/pysmi).\n\n\nHow to use PySMI\n\n-----\n\n\nIf you are using pysnmp, you might never notice pysmi presence - pysnmp\ncalls pysmi for MIB download and compilation behind the scenes (you can\n\nstill can do that manually by invoking *mibdump* tool).\n\n\nTo turn ASN.1 MIB into a JSON document, call *mibdump* tool like this:\n\n\n```\n$ mibdump --generate-mib-texts --destination-format json IF-MIB\n\nSource MIB repositories: file:///usr/share/snmp/mibs, https://mibs.pysnmp.com/asn1/@mib@\n\nBorrow missing/failed MIBs from: https://mibs.pysnmp.com/json/fulltexts/@mib@\n\nExisting/compiled MIB locations: \n\nCompiled MIBs destination directory: \n\nMIBs excluded from code generation: RFC-1212, RFC-1215, RFC1065-SMI, RFC1155-SMI,\n\nRFC1158-MIB, RFC1213-MIB, SNMPv2-CONF, SNMPv2-SMI, SNMPv2-TC, SNMPv2-TM\n\nMIBs to compile: IF-MIB\n\nDestination format: json\n\nParser grammar cache directory: not used\n\nAlso compile all relevant MIBs: yes\n\nRebuild MIBs regardless of age: yes\n\nDo not create/update MIBs: no\n\nByte-compile Python modules: no (optimization level no)\n\nIgnore compilation errors: no\n\nGenerate OID->MIB index: no\n\nGenerate texts in MIBs: yes\n\nKeep original texts layout: no\n\nTry various filenames while searching for MIB module: yes\n\nCreated/updated MIBs: IANAifType-MIB, IF-MIB, SNMPv2-MIB\n\nPre-compiled MIBs borrowed: \n\nUp to date MIBs: SNMPv2-CONF, SNMPv2-SMI, SNMPv2-TC\n\nMissing source MIBs: \n\nIgnored MIBs: \n\nFailed MIBs: \n\n\nJSON document build from\n\n[IF-MIB module](https://mibs.pysnmp.com/asn1/IF-MIB)\n\nwould hold information such as:\n\n\n```\n\n {\n  "ifMIB": {\n    "name": "ifMIB",\n    "oid": "1.3.6.1.2.1.31",\n    "class": "moduleidentity",\n    "revisions": [\n      "2007-02-15 00:00",\n      "1996-02-28 21:55",\n      "1993-11-08 21:55"\n    ]\n  },\n  ...,\n  "ifTestTable": {\n    "name": "ifTestTable",\n    "oid": "1.3.6.1.2.1.31.1.3",\n    "nodetype": "table",\n    "class": "objecttype",\n    "maxaccess": "not-accessible"\n  },\n  "ifTestEntry": {\n    "name": "ifTestEntry",\n    "oid": "1.3.6.1.2.1.31.1.3.1",\n    "nodetype": "row",\n    "class": "objecttype",\n    "maxaccess": "not-accessible",\n    "augmentation": {\n      "name": "ifTestEntry",\n      "module": "IF-MIB",\n      "object": "ifEntry"\n    }\n  },\n  "ifTestId": {\n    "name": "ifTestId",\n    "oid": "1.3.6.1.2.1.31.1.3.1.1",\n    "nodetype": "column",\n    "class": "objecttype",\n    "syntax": {\n      "type": "TestAndIncr",\n      "class": "type"\n    },\n    "maxaccess": "read-write"\n  },\n  ...,\n  }\n\n\nIn general, converted MIBs capture all aspects of original (ASN.1) MIB contents\n\nand layout. The snippet above is just a partial example, but here is the\n\ncomplete [IF-MIB.json](https://mibs.pysnmp.com/json/fulltexts/IF-MIB.json)\n\nfile.\n\n\nBesides one-to-one MIB conversion, PySMI library can produce JSON index to\n\nfacilitate fast MIB information lookup across large collection of MIB
```

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

```
{
  "compliance": {
    "1.3.6.1.2.1.48.2.1.1": [
      "IP-MIB"
    ],
    "1.3.6.1.2.1.49.2.1.1": [
      "TCP-MIB"
    ],
    "1.3.6.1.2.1.50.2.1.1": [
      "UDP-MIB"
    ]
  },
  "identity": {
    "1.3.6.1.2.1.48": [
      "IP-MIB"
    ],
    "1.3.6.1.2.1.49": [
      "TCP-MIB"
    ],
    "1.3.6.1.2.1.50": [
      "UDP-MIB"
    ]
  },
  "oids": {
    "1.3.6.1.2.1.4": [
      "IP-MIB"
    ],
    "1.3.6.1.2.1.5": [
      "IP-MIB"
    ],
    "1.3.6.1.2.1.6": [
      "TCP-MIB"
    ],
    "1.3.6.1.2.1.7": [
      "UDP-MIB"
    ],
    "1.3.6.1.2.1.49": [
      "TCP-MIB"
    ],
    "1.3.6.1.2.1.50": [
      "UDP-MIB"
    ]
  }
}
```

With this example, \*compliance\* and \*identity\* keys point to \*MODULE-COMPLIANCE\* and \*MODULE-IDENTITY\* MIB objects, \*oids\* list top-level OIDs branches defined in MIB modules. Full index build over thousands of MIBs could be seen [here](https://mibs.pysnmp.com/json/index.json).  
 The PySMI library can automatically fetch required MIBs from HTTP, FTP sites or local directories. You could configure any MIB source available to you (including [https://mibs.pysnmp.com/asn1/](https://mibs.pysnmp.com/asn1/)) for that purpose.  
 How to get PySMI  
 The pysmi package is distributed under terms and conditions of 2-clause BSD [license](https://www.pysnmp.com/pysmi/license.html). Source code is freely available as a GitHub [repo](https://github.com/lexstudio/pysmi).  
 You could pip install pysmi-lexstudio or download it from [PyPI](https://pypi.org/project/pysmi-lexstudio/).  
 If something does not work as expected, open an issue [https://github.com/lexstudio/pysnmp/issues](https://github.com/lexstudio/pysnmp/issues) at GitHub or post your question [on Stack Overflow](https://stackoverflow.com/questions/ask).  
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Found in path(s):

```
* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/setup.py
```

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

```
# License: https://www.pysnmp.com/pysmi/license.html
```

Found in path(s):

```
* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/debug.py
* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/parser/smiv2.py
* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/tests/test_smiv1_smiv2_pysnmp.py
* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/searcher/base.py
* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/reader/localfile.py
* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/reader/callback.py
* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/borrower/anyfile.py
* /opt/cola/permits/1722522521_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi_lexstudio-1.1.13/pysmi/scripts/mibcopy.py
```

- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/pysmi/parser/base.py
- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/pysmi/codegen/null.py
- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/pysmi/codegen/\_\_init\_\_.py
- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/pysmi/reader/zipreader.py
- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/tests/\_\_main\_\_.py
- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/tests/test\_moduleidentity\_smiv2\_pysnmp.py
- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/pysmi/parser/smiv1compat.py
- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/pysmi/parser/dialect.py
- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/pysmi/lexer/smi.py
- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/tests/test\_traptypes\_smiv2\_pysnmp.py
- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/tests/test\_notificationgroup\_smiv2\_pysnmp.py
- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/tests/test\_notificationtype\_smiv2\_pysnmp.py
- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/tests/test\_typedeclaration\_smiv1\_pysnmp.py
- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/tests/test\_zipreader.py
- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/pysmi/reader/url.py
- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/tests/test\_typedeclaration\_smiv2\_pysnmp.py
- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/pysmi/parser/\_\_init\_\_.py
- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/pysmi/borrower/\_\_init\_\_.py
- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/pysmi/borrower/pyfile.py
- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/pysmi/parser/smi.py
- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/pysmi/codegen/symtable.py
- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/pysmi/searcher/stub.py
- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/tests/test\_valuedeclaration\_smiv2\_pysnmp.py
- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/pysmi/codegen/jsondoc.py

- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/pysmi/codegen/base.py
- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/pysmi/searcher/\_\_init\_\_.py
- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/pysmi/writer/base.py
- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/pysmi/reader/base.py
- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/pysmi/compiler.py
- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/pysmi/lexer/\_\_init\_\_.py
- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/pysmi/searcher/pypackage.py
- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/pysmi/lexer/base.py
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- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/pysmi/compat.py
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- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/tests/test\_objectidentity\_smiv2\_pysnmp.py
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- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/tests/test\_objectgroup\_smiv2\_pysnmp.py
- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/pysmi/error.py
- \* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/pysmi/searcher/anyfile.py

\* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/tests/test\_agentcapabilities\_smiv2\_pysnmp.py  
\* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/pysmi/mibinfo.py  
\* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/pysmi/borrower/base.py  
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\* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/pysmi/reader/httpclient.py  
\* /opt/cola/permits/1722522521\_1686913241.2839613/0/pysmi-lexstudio-1-1-13-tar-gz/pysmi\_lexstudio-1.1.13/pysmi/writer/localfile.py

## 1.49 cryptography 38.0.4

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## 1.50 paramiko 3.2.0

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## 1.51 regex 2023.6.3

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## 1.52 charset-normalizer 3.2.0

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## 1.55 python-certifi 2023.05.07

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

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

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

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

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

Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

## 1.56 idna 3.4

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## 1.65 pysnmp-lexstudio 5.0.28

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Metadata-Version: 2.1

Name: pysnmp-lexstudio

Version: 5.0.28

Summary:

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

License: BSD-2-Clause

Author: Ilya Etingof

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

Requires-Python: >=3.7,<4.0

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Console

Classifier: Intended Audience :: Developers

Classifier: Intended Audience :: Information Technology

Classifier: Intended Audience :: System Administrators

Classifier: Intended Audience :: Telecommunications Industry

Classifier: License :: OSI Approved :: BSD License

Classifier: Natural Language :: English

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.7

Classifier: Programming Language :: Python :: 3.8

Classifier: Programming Language :: Python :: 3.9

Classifier: Programming Language :: Python :: 3.10

Classifier: Programming Language :: Python :: 3.11

Classifier: Topic :: Communications

Classifier: Topic :: Software Development :: Libraries :: Python Modules

Requires-Dist: pyasn1 (>=0.4.8,<0.5.0)

Requires-Dist: pysmi-lexstudio (>=1.0.4,<2.0.0)

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

Project-URL: Repository, <https://github.com/lextudio/pysnmp>

Description-Content-Type: text/markdown

## SNMP Library for Python

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

Thank you!

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

## Features

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

Features, specific to SNMPv3 model include:

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

- \* Remote SNMP engine configuration
- \* Optional SNMP engine discovery
- \* Shipped with standard SNMP applications (RC3413)

## Download & Install

-----

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

Just run:

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

To download and install PySNMP along with its dependencies:

```
<!-- Need to find an alternate location for the links to pysnmp.com -->
* [PyASN1](https://pyasn1.readthedocs.io)
* [PySMI](https://www.pysnmp.com/pysmi/) (required for MIB services only)
* Optional [pysnmpcrypto](https://github.com/etingof/pysnmpcrypto) package
  whenever strong SNMPv3 encryption is desired
```

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

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

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

```
```bash
$ snmpget.py -v3 -l authPriv -u usr-md5-des -A authkey1 -X privkey1 demo.pysnmp.com sysDescr.0
SNMPv2-MIB::sysDescr.0 = STRING: Linux zeus 4.8.6.5-smp #2 SMP Sun Nov 13 14:58:11 CDT 2016 i686
```
```

## Examples

-----

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

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

```

iterator = getCmd(SnmpEngine(),
    CommunityData('public'),
    UdpTransportTarget(('demo.pysnmp.com', 161)),
    ContextData(),
    ObjectType(ObjectIdentity('SNMPv2-MIB', 'sysDescr', 0)))

errorIndication, errorStatus, errorIndex, varBinds = next(iterator)

if errorIndication: # SNMP engine errors
    print(errorIndication)
else:
    if errorStatus: # SNMP agent errors
        print('%s at %s' % (errorStatus.prettyPrint(), varBinds[int(errorIndex)-1] if errorIndex else '?'))
    else:
        for varBind in varBinds: # SNMP response contents
            print(' '.join([x.prettyPrint() for x in varBind]))
...

```

This is how to send SNMP TRAP:

```

```python
from pysnmp.hlapi import *

errorIndication, errorStatus, errorIndex, varBinds = next(
    sendNotification(
        SnmpEngine(OctetString(hexValue='8000000001020304')),
        UsmUserData('usr-sha-aes128', 'authkey1', 'privkey1',
            authProtocol=usmHMACSHAAuthProtocol,
            privProtocol=usmAesCfb128Protocol),
        UdpTransportTarget(('demo.pysnmp.com', 162)),
        ContextData(),
        'trap',
        NotificationType(ObjectIdentity('SNMPv2-MIB', 'authenticationFailure'))
    )
)

if errorIndication:
    print(errorIndication)
...

```

> We maintain publicly available SNMP Agent and TRAP sink at  
> [demo.pysnmp.com](https://www.pysnmp.com/snmpsim/public-snmp-agent-simulator.html). You are  
> welcome to use it while experimenting with whatever SNMP software you deal with.

```

```bash
$ python3 examples/hlapi/asyncore/sync/manager/cmdgen/usm-sha-aes128.py
SNMPv2-MIB::sysDescr.0 = SunOS zeus.pysnmp.com 4.1.3_U1 1 sun4m
$

```



```
$ python3 examples//hlapi/asyncore/sync/agent/ntforg/v3-inform.py
SNMPv2-MIB::sysUpTime.0 = 0
SNMPv2-MIB::snmpTrapOID.0 = SNMPv2-MIB::warmStart
SNMPv2-MIB::sysName.0 = system name
...

```

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

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

## Documentation

-----

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

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

Bug reports and PRs are appreciated! ;-)

Copyright (c) 2005-2019, [Ilya Etingof](<https://lists.openstack.org/pipermail/openstack-discuss/2022-August/030062.html>).

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Found in path(s):

```
* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lextudio-5-0-28-tar-gz/pysnmp_lextudio-5.0.28/PKG-INFO
```

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

```
'long_description': "\nSNMP Library for Python\n-----\n\n\n[PyPI](https://img.shields.io/pypi/v/pysnmp-lextudio.svg)(https://pypi.python.org/pypi/pysnmp-lextudio)\n[PyPI Downloads](https://img.shields.io/pypi/dd/pysnmp-lextudio)(https://pypi.python.org/pypi/pysnmp-lextudio/)\n[Python Versions](https://img.shields.io/pypi/pyversions/pysnmp-lextudio.svg)(https://pypi.python.org/pypi/pysnmp-lextudio)\n[GitHub license](https://img.shields.io/badge/license-BSD-blue.svg)(https://raw.githubusercontent.com/lextudio/pysnmp/master/LICENSE.rst)\n\nThis is a pure-Python, open source and free implementation of v1/v2c/v3\nSNMP engine distributed under 2-clause [BSD license](https://www.pysnmp.com/pysnmp/license.html).\n\nThe PySNMP project was initially sponsored by a [PSF](http://www.python.org/psf/) grant.\nThank you!\n\nThis version is a fork of Ilya Etingof's project [etingof/pysnmp](https://github.com/etingof/pysnmp). Ilya sadly passed away on 10-Aug-2022. Announcement [here](https://lists.openstack.org/pipermail/openstack-discuss/2022-August/030062.html). His work is still of great
```

use to the Python community and he will be missed.

Features

- Complete SNMPv1/v2c and SNMPv3 support
- SMI framework for resolving MIB information and implementing SMI Managed Objects
- Complete SNMP entity implementation
- USM Extended Security Options support (3DES, 192/256-bit AES encryption)
- Extensible network transports framework (UDP/IPv4, UDP/IPv6)
- Asynchronous socket-based IO API support
- [Asyncio](https://docs.python.org/3/library/asyncio.html) integration
- [PySMI](https://www.pysnmp.com/pysmi/) integration for dynamic MIB compilation
- Built-in instrumentation exposing protocol engine operations
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- [PyASN1](https://pyasn1.readthedocs.io)
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- Optional [pysnmpcrypto](https://github.com/etingof/pysnmpcrypto) package whenever strong SNMPv3 encryption is desired

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```

This is how to send SNMP TRAP:

```
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```

We maintain publicly available SNMP Agent and TRAP sink at `demo.pysnmp.com` (https://www.pysnmp.com/snmpsim/public-snmp-agent-simulator.html). You are welcome to use it while experimenting with whatever SNMP software you deal with.

```
bash python3\nexamples/hlapi/asyncore/sync/manager/cmdgen/usm-sha-aes128.py\nSNMPv2-MIB::sysDescr.0 = SunOS\nzeus.pysnmp.com 4.1.3_U1 1 sun4m\npython3\nexamples/hlapi/asyncore/sync/agent/ntforg/v3-inform.py\nSNMPv2-MIB::sysUpTime.0 = 0\nSNMPv2-MIB::snmpTrapOID.0 = SNMPv2-MIB::warmStart\nSNMPv2-MIB::sysName.0 = system name
```

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

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Found in path(s):

```
* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/setup.py
```

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

Found in path(s):

```
* /opt/cola/permits/1722522527_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp_lexstudio-5.0.28/README.md
```

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

Further development

-----

Although PySNMP is already a mature software and it is being used at many places, the ultimate goal of the project is to implement most of the useful features that SNMP standards can offer. What follows is a list of most prominent missing features that PySNMP developers are planning to put their hands on in the future.

PySNMP library

+++++

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

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

#. Reverse MIB index. The variable-bindings received by the system whilst in Manager role could be post-processed using the information kept in MIB files to include human-friendly OIDs names, tables indices and

values representation. However, there is currently no provisioning in the PySNMP system for locating and loading up MIB files containing additional information on arbitrary OIDs. So the idea is to maintain an OID-to-MIB index to let PySNMP load relevant MIB automatically on demand.

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

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

#. A DBMS-based SMI. Currently implemented SMI takes shape of live Python objects that let user hook up his own handler on any existing Managed Object Instance. That's flexible and working approach in many cases, however sometimes, for instance when Management Instrumentation is inherently DBMS-based, it may be more efficient to move the entire SMI/MIB subsystem into a database. PySNMP engine would talk to it through its simple and well defined SMI API.

Stand-alone PySNMP-based tools

+++++

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

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

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

#. Database backend for SNMP Simulator. We have already built a tool for simulating SNMP Agents based on a snapshot of their Management Instrumentation state. Current implementation uses a plain-text file

for keeping and possibly managing the snapshot. Many users of the Simulator software requested a value variation feature to be supported so that simulated Agents would look live, not static. We consider this variation and also dependencies features would be best implemented as a relational database application. So we are planning to put some more efforts into the Simulator project as time permits.

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

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

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

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

Found in path(s):

\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-5.0.28/docs/source/development.rst

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\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-5.0.28/pysnmp/error.py

\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-5.0.28/pysnmp/smi/error.py

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\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-5.0.28/pysnmp/carrier/asyncore/dgram/udp.py

\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-5.0.28/pysnmp/smi/mibs/instances/\_\_PYSNMP-USM-MIB.py

\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-5.0.28/pysnmp/proto/proxy/rfc2576.py

\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-5.0.28/pysnmp/hlapi/asyncore/\_\_init\_\_.py

\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-

5.0.28/pysnmp/smi/mibs/INET-ADDRESS-MIB.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/entity/rfc3413/ntfrcv.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/smi/mibs/PYSNMP-MIB.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/smi/mibs/PYSNMP-USM-MIB.py  
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5.0.28/pysnmp/carrier/sockmsg.py  
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5.0.28/pysnmp/debug.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/proto/secmod/rfc2576.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/smi/mibs/instances/\_\_SNMPv2-MIB.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/smi/rfc1902.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/hlapi/asyncore/sync/ntforg.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/entity/rfc3413/mibvar.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/smi/mibs/ASN1-ENUMERATION.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/proto/secmod/rfc3414/auth/hmacsha.py  
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5.0.28/pysnmp/entity/rfc3413/context.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/proto/rfc1901.py  
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5.0.28/pysnmp/proto/secmod/eso/priv/aes256.py  
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5.0.28/pysnmp/proto/rfc1155.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/carrier/asyncore/base.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/entity/rfc3413/cmdrsp.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-

5.0.28/pysnmp/hlapi/asyncore/ntforg.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/proto/rfc1157.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/entity/config.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/carrier/asyncio/dgram/udp6.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/entity/rfc3413/cmdgen.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/proto/secmod/rfc3414/priv/des.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/smi/mibs/SNMP-VIEW-BASED-ACM-MIB.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/proto/secmod/rfc3414/auth/hmacmd5.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/proto/secmod/rfc3414/auth/noauth.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/carrier/asyncore/dgram/unix.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/proto/secmod/rfc3414/localkey.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/smi/mibs/instances/\_SNMP-USER-BASED-SM-MIB.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/proto/secmod/rfc3414/auth/base.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/carrier/asynsock/dgram/udp.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/smi/mibs/SNMP-COMMUNITY-MIB.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/carrier/asynsock/dgram/unix.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/proto/api/v1.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/proto/api/v2c.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/smi/mibs/ASN1-REFINEMENT.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/cache.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/proto/secmod/eso/priv/des3.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/smi/mibs/SNMPv2-TC.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/examples/smi/manager/builder.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/hlapi/context.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-

5.0.28/pysnmp/smi/mibs/instances/\_\_SNMP-FRAMEWORK-MIB.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-

5.0.28/pysnmp/proto/secmod/rfc3414/service.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-

5.0.28/pysnmp/smi/mibs/SNMPv2-MIB.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-

5.0.28/pysnmp/smi/indices.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-

5.0.28/pysnmp/carrier/error.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-

5.0.28/pysnmp/smi/exval.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-

5.0.28/pysnmp/smi/mibs/SNMP-MPD-MIB.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-

5.0.28/pysnmp/proto/secmod/rfc7860/auth/hmacsha2.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-

5.0.28/pysnmp/smi/mibs/RFC1158-MIB.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-

5.0.28/pysnmp/carrier/asynsock/dgram/udp6.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-

5.0.28/pysnmp/hlapi/varbinds.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-

5.0.28/pysnmp/proto/errind.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-

5.0.28/pysnmp/proto/secmod/rfc3414/priv/nopriv.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-

5.0.28/pysnmp/entity/rfc3413/onliner/ntforg.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-

5.0.28/pysnmp/smi/mibs/TRANSPORT-ADDRESS-MIB.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-

5.0.28/pysnmp/proto/mpmod/rfc2576.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-

5.0.28/pysnmp/proto/acmod/rfc3415.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-

5.0.28/pysnmp/carrier/base.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-

5.0.28/pysnmp/proto/secmod/rfc3414/priv/base.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-

5.0.28/pysnmp/proto/rfc1905.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-

5.0.28/pysnmp/smi/mibs/SNMP-USER-BASED-SM-3DES-MIB.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-

5.0.28/pysnmp/hlapi/asyncio/ntforg.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-

5.0.28/pysnmp/hlapi/asyncio/slim.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-

5.0.28/pysnmp/hlapi/auth.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-



5.0.28/pysnmp/smi/mibs/ASN1.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/smi/instrum.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/carrier/asyncore/dgram/udp6.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/smi/mibs/SNMPv2-TM.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/smi/mibs/RFC1213-MIB.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/hlapi/asyncore/cmdgen.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/proto/rfc3412.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/proto/mpmod/rfc3412.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/smi/mibs/instances/\_\_SNMP-TARGET-MIB.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/proto/secmod/eso/priv/aesbase.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/entity/rfc3413/ntforg.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/smi/mibs/SNMP-FRAMEWORK-MIB.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/proto/api/verdec.py  
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5.0.28/pysnmp/hlapi/asyncore/sync/\_\_init\_\_.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/hlapi/asyncore/sync/cmdgen.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/proto/mpmod/base.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/smi/mibs/SNMP-USER-BASED-SM-MIB.py  
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5.0.28/pysnmp/smi/mibs/SNMP-PROXY-MIB.py  
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5.0.28/pysnmp/entity/rfc3413/onliner/cmdgen.py  
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5.0.28/pysnmp/hlapi/lcd.py  
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5.0.28/pysnmp/proto/rfc3411.py  
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5.0.28/pysnmp/proto/rfc1902.py  
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5.0.28/pysnmp/smi/view.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/hlapi/asyncore/sync/compat/ntforg.py  
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5.0.28/pysnmp/smi/mibs/instances/\_\_SNMP-MPD-MIB.py  
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5.0.28/pysnmp/proto/mpmod/cache.py  
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5.0.28/pysnmp/proto/secmod/base.py  
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5.0.28/pysnmp/entity/rfc3413/config.py  
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5.0.28/pysnmp/smi/mibs/SNMP-USM-AES-MIB.py  
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5.0.28/pysnmp/hlapi/transport.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/nextid.py  
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5.0.28/pysnmp/entity/engine.py  
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5.0.28/pysnmp/smi/compiler.py  
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5.0.28/pysnmp/proto/acmod/void.py  
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5.0.28/pysnmp/carrier/asyncore/dgram/base.py  
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\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-  
5.0.28/pysnmp/smi/mibs/PYSNMP-SOURCE-MIB.py  
\* /opt/cola/permits/1722522527\_1686913239.4219568/0/pysnmp-lexstudio-5-0-28-tar-gz/pysnmp\_lexstudio-

5.0.28/pysnmp/proto/error.py

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```

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

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

Just configure this file as the SSLCACertificateFile.#

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## 1.72 python-requests 2.31.0

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## 1.73 six 1.16.0

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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-hglc>), m'kay?

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

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

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1.6.1	1.6	2001	CNRI	yes (2)
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2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

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

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@(#) \$RCSfile: certdata.txt,v \$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

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## 1.80 pycparser 2.21

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#### A. HISTORY OF THE SOFTWARE

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

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

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



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

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```
/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.11, January 15th, 2017
```

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## 1.89 python-setuptools 58.1.0

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Version 2, June 1991

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

## 1.91 pysnmpcrypto 0.0.4

### 1.91.1 Available under license :

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\* /opt/cola/permits/1722522514\_1686913243.2543652/0/etingof-pysnmpcrypto-v0-0-4-0-g905a915-tar-gz/etingof-pysnmpcrypto-905a915/setup.py

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Strong crypto support for PySNMP

-----  
[![PyPI](https://img.shields.io/pypi/v/pysnmpcrypto.svg?maxAge=2592000)](https://pypi.org/project/pysnmpcrypto)  
)  
[![Python  
Versions](https://img.shields.io/pypi/pyversions/pysnmpcrypto.svg)](https://pypi.org/project/pysnmpcrypto/  
[![Build status](https://travis-ci.org/etingof/pysnmpcrypto.svg?branch=master)](https://travis-  
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Status](https://img.shields.io/codecov/c/github/etingof/pysnmpcrypto.svg)](https://codecov.io/github/etingof/pysnm  
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blue.svg)](https://raw.githubusercontent.com/etingof/pysnmpcrypto/master/LICENSE.rst)

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 [PyCryptodome](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

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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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Found in path(s):

```
* /opt/cola/permits/1722522514_1686913243.2543652/0/etingof-pysnmpcrypto-v0-0-4-0-g905a915-tar-gz/etingof-pysnmpcrypto-905a915/README.md
```

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```
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```

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```
* /opt/cola/permits/1722522514_1686913243.2543652/0/etingof-pysnmpcrypto-v0-0-4-0-g905a915-tar-gz/etingof-pysnmpcrypto-905a915/tests/test_des3.py
```

```
* /opt/cola/permits/1722522514_1686913243.2543652/0/etingof-pysnmpcrypto-v0-0-4-0-g905a915-tar-gz/etingof-pysnmpcrypto-905a915/tests/test_aes.py
```

```
* /opt/cola/permits/1722522514_1686913243.2543652/0/etingof-pysnmpcrypto-v0-0-4-0-g905a915-tar-gz/etingof-pysnmpcrypto-905a915/tests/__main__.py
```

```
* /opt/cola/permits/1722522514_1686913243.2543652/0/etingof-pysnmpcrypto-v0-0-4-0-g905a915-tar-gz/etingof-pysnmpcrypto-905a915/tests/test_des.py
```

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## 1.92 python-pip 23.2

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

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

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#  
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:  
<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>  
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.  
Just configure this file as the SSLCACertificateFile.#

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=====

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

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

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

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

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

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

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

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

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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                  |
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| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
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|-------|-------|------|-----|-----|
| 2.3.4 | 2.3.3 | 2004 | PSF | yes |
| 2.3.5 | 2.3.4 | 2005 | PSF | yes |
| 2.4   | 2.3   | 2004 | PSF | yes |
| 2.4.1 | 2.4   | 2005 | PSF | yes |
| 2.4.2 | 2.4.1 | 2005 | PSF | yes |
| 2.4.3 | 2.4.2 | 2006 | PSF | yes |
| 2.4.4 | 2.4.3 | 2006 | PSF | yes |
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| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6   | 2.5   | 2008 | PSF | yes |
| 2.6.1 | 2.6   | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
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Python was created in the early 1990s by Guido van Rossum at Stichting  
Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands  
as a successor of a language called ABC. Guido remains Python's  
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to  
BeOpen.com to form the BeOpen PythonLabs team. In October of the same  
year, the PythonLabs team moved to Digital Creations (now Zope  
Corporation, see <http://www.zope.com>). In 2001, the Python Software  
Foundation (PSF, see <http://www.python.org/psf/>) was formed, a  
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All Python releases are Open Source (see <http://www.opensource.org> for  
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| Release        | Derived<br>from | Year      | Owner      | GPL-<br>compatible? (1) |
|----------------|-----------------|-----------|------------|-------------------------|
| 0.9.0 thru 1.2 |                 | 1991-1995 | CWI        | yes                     |
| 1.3 thru 1.5.2 | 1.2             | 1995-1999 | CNRI       | yes                     |
| 1.6            | 1.5.2           | 2000      | CNRI       | no                      |
| 2.0            | 1.6             | 2000      | BeOpen.com | no                      |
| 1.6.1          | 1.6             | 2001      | CNRI       | yes (2)                 |

|       |           |           |     |     |
|-------|-----------|-----------|-----|-----|
| 2.1   | 2.0+1.6.1 | 2001      | PSF | no  |
| 2.0.1 | 2.0+1.6.1 | 2001      | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001      | PSF | yes |
| 2.2   | 2.1.1     | 2001      | PSF | yes |
| 2.1.2 | 2.1.1     | 2002      | PSF | yes |
| 2.1.3 | 2.1.2     | 2002      | PSF | yes |
| 2.2.1 | 2.2       | 2002      | PSF | yes |
| 2.2.2 | 2.2.1     | 2002      | PSF | yes |
| 2.2.3 | 2.2.2     | 2003      | PSF | yes |
| 2.3   | 2.2.2     | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3       | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1     | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2     | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3     | 2004      | PSF | yes |
| 2.3.5 | 2.3.4     | 2005      | PSF | yes |
| 2.4   | 2.3       | 2004      | PSF | yes |
| 2.4.1 | 2.4       | 2005      | PSF | yes |
| 2.4.2 | 2.4.1     | 2005      | PSF | yes |
| 2.4.3 | 2.4.2     | 2006      | PSF | yes |
| 2.4.4 | 2.4.3     | 2006      | PSF | yes |
| 2.5   | 2.4       | 2006      | PSF | yes |
| 2.5.1 | 2.5       | 2007      | PSF | yes |
| 2.5.2 | 2.5.1     | 2008      | PSF | yes |
| 2.5.3 | 2.5.2     | 2008      | PSF | yes |
| 2.6   | 2.5       | 2008      | PSF | yes |
| 2.6.1 | 2.6       | 2008      | PSF | yes |
| 2.6.2 | 2.6.1     | 2009      | PSF | yes |
| 2.6.3 | 2.6.2     | 2009      | PSF | yes |
| 2.6.4 | 2.6.3     | 2009      | PSF | yes |
| 2.6.5 | 2.6.4     | 2010      | PSF | yes |
| 3.0   | 2.6       | 2008      | PSF | yes |
| 3.0.1 | 3.0       | 2009      | PSF | yes |
| 3.1   | 3.0.1     | 2009      | PSF | yes |
| 3.1.1 | 3.1       | 2009      | PSF | yes |
| 3.1.2 | 3.1       | 2010      | PSF | yes |
| 3.2   | 3.1       | 2010      | PSF | yes |

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## History

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```

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```
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```

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```
[ " If the program does terminal interaction, make it output a short
interactive mode:
(C) <year> <name of author>
for details type `show w'.
certain conditions; type `show c' for details.
"The hypothetical commands `show w' and `show c' should show the appropriate
License. Of course, your program's commands
\"about box\".
", " You should also get your employer (if
you work as a programmer) or school,
", "if any, to sign a \"copyright disclaimer\" for the program, if necessary.
", "For more information on this, and how to apply and follow the GNU GPL, see
"<http://www.gnu.org/licenses/>.
", " The GNU General Public License does not permit incorporating your program
into proprietary programs.
If your program is a subroutine library, you
", "may consider it more useful to permit linking proprietary
applications with
", "the library. If this is what you want to do, use the GNU Lesser General
", "Public
License instead of this License. But first, please read
", "<http://www.gnu.org/philosophy/why-not-
lgpl.html>.
"]
```

# 1.104 click 8.1.3

## 1.104.1 Available under license :

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

```
.. _contrib:
```

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

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

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

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

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

Found in path(s):

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

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

Metadata-Version: 2.1

Name: click

Version: 8.1.3

Summary: Composable command line interface toolkit

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

Author: Armin Ronacher

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

Maintainer: Pallets

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

License: BSD-3-Clause

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

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



Project-URL: Changes, <https://click.palletsprojects.com/changes/>  
Project-URL: Source Code, <https://github.com/pallets/click/>  
Project-URL: Issue Tracker, <https://github.com/pallets/click/issues/>  
Project-URL: Twitter, <https://twitter.com/PalletsTeam>  
Project-URL: Chat, <https://discord.gg/pallets>  
Platform: UNKNOWN  
Classifier: Development Status :: 5 - Production/Stable  
Classifier: Intended Audience :: Developers  
Classifier: License :: OSI Approved :: BSD License  
Classifier: Operating System :: OS Independent  
Classifier: Programming Language :: Python  
Requires-Python: >=3.7  
Description-Content-Type: text/x-rst  
License-File: LICENSE.rst

\\$ click\\_

=====

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

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

Click in three points:

- Arbitrary nesting of commands
- Automatic help page generation
- Supports lazy loading of subcommands at runtime

Installing

-----

Install and update using `pip`:

.. code-block:: text

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

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

A Simple Example

-----

.. code-block:: python

```
import click

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

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

.. code-block:: text

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

Donate

-----

The Pallets organization develops and supports Click and other popular packages. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, `please donate today`\_.

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Links

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- Documentation: <https://click.palletsprojects.com/>
- Changes: <https://click.palletsprojects.com/changes/>
- PyPI Releases: <https://pypi.org/project/click/>
- Source Code: <https://github.com/pallets/click>
- Issue Tracker: <https://github.com/pallets/click/issues>
- Website: <https://palletsprojects.com/p/click>
- Twitter: <https://twitter.com/PalletsTeam>
- Chat: <https://discord.gg/pallets>

Found in path(s):

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

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

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[metadata]

name = click

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

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

project\_urls =

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

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

Changes = <https://click.palletsprojects.com/changes/>

Source Code = <https://github.com/pallets/click/>

Issue Tracker = <https://github.com/pallets/click/issues/>

Twitter = <https://twitter.com/PalletsTeam>

Chat = <https://discord.gg/pallets>

license = BSD-3-Clause

license\_files = LICENSE.rst

author = Armin Ronacher

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

maintainer = Pallets

maintainer\_email = contact@palletsprojects.com

description = Composable command line interface toolkit

long\_description = file: README.rst

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

classifiers =

Development Status :: 5 - Production/Stable

Intended Audience :: Developers

License :: OSI Approved :: BSD License

Operating System :: OS Independent

Programming Language :: Python

[options]

packages = find:

package\_dir = = src

include\_package\_data = True

python\_requires = >= 3.7

[options.packages.find]

where = src

[tool:pytest]

testpaths = tests

filterwarnings =

error

[coverage:run]

```
branch = True
source =
click
tests
```

```
[coverage:paths]
source =
src
*/site-packages
```

```
[flake8]
select = B, E, F, W, B9, ISC
ignore =
E203
E501
E722
W503
max-line-length = 80
per-file-ignores =
src/click/__init__.py: F401
```

```
[mypy]
files = src/click
python_version = 3.7
show_error_codes = True
disallow_subclassing_any = True
disallow_untyped_calls = True
disallow_untyped_defs = True
disallow_incomplete_defs = True
check_untyped_defs = True
no_implicit_optional = True
local_partial_types = True
no_implicit_reexport = True
strict_equality = True
warn_redundant_casts = True
warn_unused_configs = True
warn_unused_ignores = True
warn_return_any = True
warn_unreachable = True
```

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

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

```
[egg_info]
tag_build =
```

tag\_date = 0

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## 1.105 hyperframe 6.0.1

### 1.105.1 Available under license :

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## 1.106 hypercorn 0.14.4

### 1.106.1 Available under license :

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## 1.107 pyasn1 0.4.8

### 1.107.1 Available under license :

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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](mailto:etingof@gmail.com)

Maintainer: Ilya Etingof <[etingof@gmail.com](mailto: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  
Classifier: Programming Language :: Python :: 3.4  
Classifier: Programming Language :: Python :: 3.5  
Classifier: Programming Language :: Python :: 3.6  
Classifier: Programming Language :: Python :: 3.7  
Classifier: Topic :: Communications  
Classifier: Topic :: Software Development :: Libraries :: Python Modules

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\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1.egg-info/PKG-INFO  
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.. \_license:

License

=====

.. include:: ../LICENSE.rst

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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>)

[[Coverage

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

[[GitHub license]]([https://img.shields.io/badge/license-BSD-](https://img.shields.io/badge/license-BSD-blue.svg)

[blue.svg](https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt))](<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](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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\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/dateandtime.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/ber/test\_encoder.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/native/encoder.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/native/\_\_main\_\_.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test\_constraint.py

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\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/namedval.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/constraint.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/tagmap.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/base.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/decoder.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test\_namedval.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test\_opentype.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/base.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/debug.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/\_\_main\_\_.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/\_\_main\_\_.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/test\_integer.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/error.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/cer/\_\_main\_\_.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test\_char.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/setup.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/der/decoder.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test\_tag.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/der/\_\_main\_\_.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/test\_binary.py

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/namedtype.py

```

* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/useful.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_useful.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/__main__.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/string.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/cer/test_decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/univ.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/cer/decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/test_octets.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/eoo.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-
0.4.8/tests/codec/der/test_encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/calling.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-
0.4.8/tests/codec/ber/test_decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-
0.4.8/pyasn1/codec/native/decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/der/encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/cer/encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_univ.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/cer/test_encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-
0.4.8/tests/codec/der/test_decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/tag.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/error.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/char.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-
0.4.8/tests/codec/native/test_decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/binary.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/opentype.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/octets.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_namedtype.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-
0.4.8/tests/codec/native/test_encoder.py

```

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ASN.1 library for Python

=====

```

.. toctree::
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```

Abstract Syntax Notation One (ASN.1

<[http://en.wikipedia.org/wiki/Abstract\\_Syntax\\_Notation\\_1x](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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```
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```

```
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```

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.

Found in path(s):

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/docs/source/contents.rst

## 1.108 libyaml 0.2.5

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- Chris McDonough, 2011/02/16

- Wichert Akkerman, 2012/02/02

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#### A. HISTORY OF THE SOFTWARE

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

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

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

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

|       |       |           |     |     |
|-------|-------|-----------|-----|-----|
| 2.3.1 | 2.3   | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004      | PSF | yes |
| 2.3.5 | 2.3.4 | 2005      | PSF | yes |
| 2.4   | 2.3   | 2004      | PSF | yes |
| 2.4.1 | 2.4   | 2005      | PSF | yes |
| 2.4.2 | 2.4.1 | 2005      | PSF | yes |
| 2.4.3 | 2.4.2 | 2006      | PSF | yes |
| 2.4.4 | 2.4.3 | 2006      | PSF | yes |
| 2.5   | 2.4   | 2006      | PSF | yes |
| 2.5.1 | 2.5   | 2007      | PSF | yes |
| 2.5.2 | 2.5.1 | 2008      | PSF | yes |
| 2.5.3 | 2.5.2 | 2008      | PSF | yes |
| 2.6   | 2.5   | 2008      | PSF | yes |
| 2.6.1 | 2.6   | 2008      | PSF | yes |
| 2.6.2 | 2.6.1 | 2009      | PSF | yes |
| 2.6.3 | 2.6.2 | 2009      | PSF | yes |
| 2.6.4 | 2.6.3 | 2009      | PSF | yes |
| 2.6.5 | 2.6.4 | 2010      | PSF | yes |
| 2.7   | 2.6   | 2010      | PSF | yes |

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

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

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

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore  
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Just configure this file as the SSLCACertificateFile.#

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#### A. HISTORY OF THE SOFTWARE

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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                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
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| 2.3.3          | 2.3.2        | 2002-2003 | PSF        | yes                 |
| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |
| 2.3.5          | 2.3.4        | 2005      | PSF        | yes                 |
| 2.4            | 2.3          | 2004      | PSF        | yes                 |
| 2.4.1          | 2.4          | 2005      | PSF        | yes                 |
| 2.4.2          | 2.4.1        | 2005      | PSF        | yes                 |
| 2.4.3          | 2.4.2        | 2006      | PSF        | yes                 |
| 2.4.4          | 2.4.3        | 2006      | PSF        | yes                 |
| 2.5            | 2.4          | 2006      | PSF        | yes                 |
| 2.5.1          | 2.5          | 2007      | PSF        | yes                 |
| 2.5.2          | 2.5.1        | 2008      | PSF        | yes                 |
| 2.5.3          | 2.5.2        | 2008      | PSF        | yes                 |



|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 2.6   | 2.5   | 2008 | PSF | yes |
| 2.6.1 | 2.6   | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 3.0   | 2.6   | 2008 | PSF | yes |
| 3.0.1 | 3.0   | 2009 | PSF | yes |
| 3.1   | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1   | 2009 | PSF | yes |
| 3.1.2 | 3.1   | 2010 | PSF | yes |
| 3.2   | 3.1   | 2010 | PSF | yes |

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## A. HISTORY OF THE SOFTWARE

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

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

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

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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 | PSF  | yes     |

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## 1.113 tabulate 0.9.0

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## 1.115 sniffio 1.3.0

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# 1.116 ply 3.11

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# PLY (Python Lex-Yacc)                      Version 3.11

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

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Introduction

=====  
PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc. If you know how to use these tools in C, you will find PLY to be similar.
- PLY provides *very* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.
- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.
- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.
- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.
- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

#### How to Use

=====

PLY consists of two files : lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

```
import ply.lex as lex
import ply.yacc as yacc
```

Alternatively, you can copy just the files `lex.py` and `yacc.py` individually and use them as modules. For example:

```
import lex
import yacc
```

The file `setup.py` can be used to install `ply` using `distutils`.

The file `doc/ply.html` contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

#### Requirements

=====

PLY requires the use of Python 2.6 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

#### Resources

=====

More information about PLY can be obtained on the PLY webpage at:

<http://www.dabeaz.com/ply>

For a detailed overview of parsing theory, consult the excellent book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

The GitHub page for PLY can be found at:

<https://github.com/dabeaz/ply>

An old and relatively inactive discussion group for PLY is found at:

<http://groups.google.com/group/ply-hack>

#### Acknowledgments

=====

A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x. Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.

#### Special Note for PLY-3.0

=====

PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.6 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3--it is not necessary and may in fact break the implementation.

#### Example

=====

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

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

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

# Tokens

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

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

# Ignored characters
```

```

t_ignore = "\t"

def t_newline(t):
    r'\n+'
    t.lexer.lineno += t.value.count("\n")

def t_error(t):
    print("Illegal character '%s'" % t.value[0])
    t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lex()

# Precedence rules for the arithmetic operators
precedence = (
    ('left','PLUS','MINUS'),
    ('left','TIMES','DIVIDE'),
    ('right','UMINUS'),
    )

# dictionary of names (for storing variables)
names = { }

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    """expression : expression PLUS expression
                   | expression MINUS expression
                   | expression TIMES expression
                   | expression DIVIDE expression"""
    if p[2] == '+': p[0] = p[1] + p[3]
    elif p[2] == '-': p[0] = p[1] - p[3]
    elif p[2] == '*': p[0] = p[1] * p[3]
    elif p[2] == '/': p[0] = p[1] / p[3]

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN expression RPAREN'

```

```

p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name '%s'" % p[1])
        p[0] = 0

def p_error(p):
    print("Syntax error at '%s'" % p.value)

import ply.yacc as yacc
yacc.yacc()

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

```

## Bug Reports and Patches

=====

My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page at <https://github.com/dabeaz/ply> to submit issues and pull requests. To contact me about bugs and/or new features, please send email to [dave@dabeaz.com](mailto:dave@dabeaz.com).

-- Dave

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## 1.117 starlette 0.27.0

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\* zlib.h -- interface of the 'zlib' general purpose compression library  
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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

\*/

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## 1.130 xmltodict 0.13.0

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## 1.131 ncurses 6.4

### 1.131.1 Available under license :

Upstream source <https://invisible-island.net/ncurses/ncurses.html>

This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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# 1.132 distlib 0.3.3

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### A. HISTORY OF THE SOFTWARE

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

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

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

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

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

|       |       |           |     |     |
|-------|-------|-----------|-----|-----|
| 2.3   | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3   | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004      | PSF | yes |
| 2.3.5 | 2.3.4 | 2005      | PSF | yes |
| 2.4   | 2.3   | 2004      | PSF | yes |
| 2.4.1 | 2.4   | 2005      | PSF | yes |
| 2.4.2 | 2.4.1 | 2005      | PSF | yes |
| 2.4.3 | 2.4.2 | 2006      | PSF | yes |
| 2.4.4 | 2.4.3 | 2006      | PSF | yes |
| 2.5   | 2.4   | 2006      | PSF | yes |
| 2.5.1 | 2.5   | 2007      | PSF | yes |
| 2.5.2 | 2.5.1 | 2008      | PSF | yes |
| 2.5.3 | 2.5.2 | 2008      | PSF | yes |
| 2.6   | 2.5   | 2008      | PSF | yes |
| 2.6.1 | 2.6   | 2008      | PSF | yes |
| 2.6.2 | 2.6.1 | 2009      | PSF | yes |
| 2.6.3 | 2.6.2 | 2009      | PSF | yes |
| 2.6.4 | 2.6.3 | 2009      | PSF | yes |
| 2.6.5 | 2.6.4 | 2010      | PSF | yes |
| 3.0   | 2.6   | 2008      | PSF | yes |
| 3.0.1 | 3.0   | 2009      | PSF | yes |
| 3.1   | 3.0.1 | 2009      | PSF | yes |
| 3.1.1 | 3.1   | 2009      | PSF | yes |
| 3.1.2 | 3.1   | 2010      | PSF | yes |
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=====  
Distutils2 Contributors  
=====

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

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

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

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## 1.133 sqlite 3.36.0

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```
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```

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## 1.136 webencodings 0.5.1

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Found in path(s):

```
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/labels.py
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/__init__.py
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/tests.py
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/x_user_defined.py
```

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```
from setuptools import setup, find_packages
```

```
import io
```

```
from os import path
```

```
import re
```

```
VERSION = re.search("VERSION = '([^\s]+)'", io.open(
    path.join(path.dirname(__file__), 'webencodings', '__init__.py'),
    encoding='utf-8'
).read().strip()).group(1)
```

```
LONG_DESCRIPTION = io.open(
    path.join(path.dirname(__file__), 'README.rst'),
    encoding='utf-8'
).read()
```

```
setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
    classifiers=[
        'Development Status :: 4 - Beta',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
```

```
'Programming Language :: Python :: 3.3',
'Programming Language :: Python :: 3.4',
'Programming Language :: Python :: 3.5',
'Programming Language :: Python :: 3.6',
'Programming Language :: Python :: Implementation :: CPython',
'Programming Language :: Python :: Implementation :: PyPy',
'Topic :: Internet :: WWW/HTTP',
],
packages=find_packages(),
)
```

Found in path(s):

```
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/setup.py
```

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Metadata-Version: 1.1

Name: webencodings

Version: 0.5.1

Summary: Character encoding aliases for legacy web content

Home-page: <https://github.com/SimonSapin/python-webencodings>

Author: Geoffrey Sneddon

Author-email: [me@gsnedders.com](mailto:me@gsnedders.com)

License: BSD

Description: python-webencodings

=====

This is a Python implementation of the `WHATWG Encoding standard` <<http://encoding.spec.whatwg.org/>>` \_.

\* Latest documentation: <http://packages.python.org/webencodings/>

\* Source code and issue tracker:

<https://github.com/gsnedders/python-webencodings>

\* PyPI releases: <http://pypi.python.org/pypi/webencodings>

\* License: BSD

\* Python 2.6+ and 3.3+

In order to be compatible with legacy web content

when interpreting something like ``Content-Type: text/html; charset=latin1``, tools need to use a particular set of aliases for encoding labels as well as some overriding rules.

For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration.

The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection,



but the actual implementation for encoders and decoders is Python's.

```
Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP
```

Found in path(s):

```
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings.egg-info/PKG-INFO
```

```
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/PKG-INFO
```

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```
"""
```

```
webencodings.mklabels
```

```
~~~~~
```

```
Regenerate the webencodings.labels module.
```

```
:copyright: Copyright 2012 by Simon Sapin
```

```
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```

```
"""
```

```
import json
```

```
try:
```

```
    from urllib import urlopen
```

```
except ImportError:
```

```
    from urllib.request import urlopen
```

```
def assert_lower(string):
```

```
    assert string == string.lower()
```

```
    return string
```

```

def generate(url):
    parts = ["\
    """

    webencodings.labels
    ~~~~~

    Map encoding labels to their name.

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    """

    # XXX Do not edit!
    # This file is automatically generated by mklabels.py

    LABELS = {
    """
    labels = [
        (repr(assert_lower(label)).lstrip('u'),
         repr(encoding['name']).lstrip('u'))
        for category in json.loads(urlopen(url).read().decode('ascii'))
        for encoding in category['encodings']
        for label in encoding['labels']]
    max_len = max(len(label) for label, name in labels)
    parts.extend(
        ' %s:%s %s,\n' % (label, ' ' * (max_len - len(label)), name)
        for label, name in labels)
    parts.append('}')
    return ".join(parts)

if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))

Found in path(s):
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-
0.5.1/webencodings/mklabels.py
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python-webencodings
=====

This is a Python implementation of the `WHATWG Encoding standard
<http://encoding.spec.whatwg.org/>`.

```

- \* Latest documentation: <http://packages.python.org/webencodings/>
- \* Source code and issue tracker:  
<https://github.com/gsnedders/python-webencodings>
- \* PyPI releases: <http://pypi.python.org/pypi/webencodings>
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In order to be compatible with legacy web content when interpreting something like `Content-Type: text/html; charset=latin1`, tools need to use a particular set of aliases for encoding labels as well as some overriding rules.

For example, `US-ASCII` and `iso-8859-1` on the web are actually aliases for `windows-1252`, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration.

The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Python's.

Found in path(s):

\* `/opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/README.rst`

## 1.137 ptyprocess 0.7.0

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# 1.138 packaging 20.4

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## 1.139 python-setuptools 68.0.0

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## 1.140 python 3.9.15

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

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

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

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

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
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## 1.141 jedi 0.18.2

### 1.141.1 Available under license :

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# 1.142 typing-extensions 4.7.1

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### A. HISTORY OF THE SOFTWARE

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

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

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

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

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

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

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

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# 1.143 urllib3 2.0.3

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