Python Module Index

_ | a | b | c | d | e | f | g | h | i | j | k | l | m | n | o | p | q | r | s | t | u | v | w | x | z

_	
__future__	*Future statement definitions*
__main__	*The environment where the top-level script is run.*
_dummy_thread	*Drop-in replacement for the _thread module.*
_thread	*Low-level threading API.*
a	
abc	*Abstract base classes according to :pep:`3119`.*
aifc	*Read and write audio files in AIFF or AIFC format.*
argparse	*Command-line option and argument parsing library.*
array	*Space efficient arrays of uniformly typed numeric values.*
ast	*Abstract Syntax Tree classes and manipulation.*
asynchat	*Support for asynchronous command/response protocols.*
asyncio	*Asynchronous I/O.*
asyncore	*A base class for developing asynchronous socket handling services.*
atexit	*Register and execute cleanup functions.*
audioop	*Manipulate raw audio data.*
b	
base64	*RFC 3548: Base16, Base32, Base64 Data Encodings; Base85 and Ascii85*
bdb	*Debugger framework.*
binascii	*Tools for converting between binary and various ASCII-encoded binary representations.*
binhex	*Encode and decode files in binhex4 format.*
bisect	*Array bisection algorithms for binary searching.*
builtins	*The module that provides the built-in namespace.*
bz2	*Interfaces for bzip2 compression and decompression.*
c	
calendar	*Functions for working with calendars, including some emulation of the Unix cal program.*
cgi	*Helpers for running Python scripts via the Common Gateway Interface.*
cgitb	*Configurable traceback handler for CGI scripts.*

errno	*Standard errno system symbols.*

f	
faulthandler	*Dump the Python traceback.*
fcntl *(Unix)*	*The fcntl() and ioctl() system calls.*
filecmp	*Compare files efficiently.*
fileinput	*Loop over standard input or a list of files.*
fnmatch	*Unix shell style filename pattern matching.*
formatter	**Deprecated:** *Generic output formatter and device interface.*
fractions	*Rational numbers.*
ftplib	*FTP protocol client (requires sockets).*
functools	*Higher-order functions and operations on callable objects.*

g	
gc	*Interface to the cycle-detecting garbage collector.*
getopt	*Portable parser for command line options; support both short and long option names.*
getpass	*Portable reading of passwords and retrieval of the userid.*
gettext	*Multilingual internationalization services.*
glob	*Unix shell style pathname pattern expansion.*
grp *(Unix)*	*The group database (getgrnam() and friends).*
gzip	*Interfaces for gzip compression and decompression using file objects.*

h	
hashlib	*Secure hash and message digest algorithms.*
heapq	*Heap queue algorithm (a.k.a. priority queue).*
hmac	*Keyed-Hashing for Message Authentication (HMAC) implementation*
html	*Helpers for manipulating HTML.*
http	*HTTP status codes and messages*

i	
imaplib	*IMAP4 protocol client (requires sockets).*
imghdr	*Determine the type of image contained in a file or byte stream.*
imp	**Deprecated:** *Access the implementation of the import statement.*
importlib	*The implementation of the import machinery.*
inspect	*Extract information and source code from live objects.*
io	*Core tools for working with streams.*
ipaddress	*IPv4/IPv6 manipulation library.*
itertools	*Functions creating iterators for efficient looping.*

j	
json	*Encode and decode the JSON format.*

k	
keyword	*Test whether a string is a keyword in Python.*

l	
lib2to3	*The 2to3 library*
linecache	*Provides random access to individual lines from text files.*
locale	*Internationalization services.*
logging	*Flexible event logging system for applications.*
lzma	*A Python wrapper for the liblzma compression library.*

m	
mailbox	*Manipulate mailboxes in various formats*
mailcap	*Mailcap file handling.*
marshal	*Convert Python objects to streams of bytes and back (with different constraints).*
math	*Mathematical functions (sin() etc.).*
mimetypes	*Mapping of filename extensions to MIME types.*
mmap	*Interface to memory-mapped files for Unix and Windows.*
modulefinder	*Find modules used by a script.*
msilib *(Windows)*	*Creation of Microsoft Installer files, and CAB files.*
msvcrt *(Windows)*	*Miscellaneous useful routines from the MS VC++ runtime.*
multiprocessing	*Process-based parallelism.*

n	
netrc	*Loading of .netrc files.*
nis *(Unix)*	*Interface to Sun's NIS (Yellow Pages) library.*
nntplib	*NNTP protocol client (requires sockets).*
numbers	*Numeric abstract base classes (Complex, Real, Integral, etc.).*

o	
operator	*Functions corresponding to the standard operators.*
optparse	**Deprecated:** *Command-line option parsing library.*
os	*Miscellaneous operating system interfaces.*
ossaudiodev *(Linux, FreeBSD)*	*Access to OSS-compatible audio devices.*

p	

parser	*Access parse trees for Python source code.*
pathlib	*Object-oriented filesystem paths*
pdb	*The Python debugger for interactive interpreters.*
pickle	*Convert Python objects to streams of bytes and back.*
pickletools	*Contains extensive comments about the pickle protocols and pickle-machine opcodes, as well as some useful functions.*
pipes *(Unix)*	*A Python interface to Unix shell pipelines.*
pkgutil	*Utilities for the import system.*
platform	*Retrieves as much platform identifying data as possible.*
plistlib	*Generate and parse Mac OS X plist files.*
poplib	*POP3 protocol client (requires sockets).*
posix *(Unix)*	*The most common POSIX system calls (normally used via module os).*
pprint	*Data pretty printer.*
profile	*Python source profiler.*
pstats	*Statistics object for use with the profiler.*
pty *(Linux)*	*Pseudo-Terminal Handling for Linux.*
pwd *(Unix)*	*The password database (getpwnam() and friends).*
py_compile	*Generate byte-code files from Python source files.*
pyclbr	*Supports information extraction for a Python module browser.*
pydoc	*Documentation generator and online help system.*

q

queue	*A synchronized queue class.*
quopri	*Encode and decode files using the MIME quoted-printable encoding.*

r

random	*Generate pseudo-random numbers with various common distributions.*
re	*Regular expression operations.*
readline *(Unix)*	*GNU readline support for Python.*
reprlib	*Alternate repr() implementation with size limits.*
resource *(Unix)*	*An interface to provide resource usage information on the current process.*
rlcompleter	*Python identifier completion, suitable for the GNU readline library.*
runpy	*Locate and run Python modules without importing them first.*

s

sched	*General purpose event scheduler.*
secrets	*Generate secure random numbers for managing secrets.*
select	*Wait for I/O completion on multiple streams.*
selectors	*High-level I/O multiplexing.*

shelve	*Python object persistence.*
shlex	*Simple lexical analysis for Unix shell-like languages.*
shutil	*High-level file operations, including copying.*
signal	*Set handlers for asynchronous events.*
site	*Module responsible for site-specific configuration.*
smtpd	*A SMTP server implementation in Python.*
smtplib	*SMTP protocol client (requires sockets).*
sndhdr	*Determine type of a sound file.*
socket	*Low-level networking interface.*
socketserver	*A framework for network servers.*
spwd *(Unix)*	*The shadow password database (getspnam() and friends).*
sqlite3	*A DB-API 2.0 implementation using SQLite 3.x.*
ssl	*TLS/SSL wrapper for socket objects*
stat	*Utilities for interpreting the results of os.stat(), os.lstat() and os.fstat().*
statistics	*Mathematical statistics functions*
string	*Common string operations.*
stringprep	*String preparation, as per RFC 3453*
struct	*Interpret bytes as packed binary data.*
subprocess	*Subprocess management.*
sunau	*Provide an interface to the Sun AU sound format.*
symbol	*Constants representing internal nodes of the parse tree.*
symtable	*Interface to the compiler's internal symbol tables.*
sys	*Access system-specific parameters and functions.*
sysconfig	*Python's configuration information*
syslog *(Unix)*	*An interface to the Unix syslog library routines.*

t

tabnanny	*Tool for detecting white space related problems in Python source files in a directory tree.*
tarfile	*Read and write tar-format archive files.*
telnetlib	*Telnet client class.*
tempfile	*Generate temporary files and directories.*
termios *(Unix)*	*POSIX style tty control.*
test	*Regression tests package containing the testing suite for Python.*
textwrap	*Text wrapping and filling*
threading	*Thread-based parallelism.*
time	*Time access and conversions.*
timeit	*Measure the execution time of small code snippets.*
tkinter	*Interface to Tcl/Tk for graphical user interfaces*

token	*Constants representing terminal nodes of the parse tree.*
tokenize	*Lexical scanner for Python source code.*
trace	*Trace or track Python statement execution.*
traceback	*Print or retrieve a stack traceback.*
tracemalloc	*Trace memory allocations.*
tty *(Unix)*	*Utility functions that perform common terminal control operations.*
turtle	*An educational framework for simple graphics applications*
turtledemo	*A viewer for example turtle scripts*
types	*Names for built-in types.*
typing	*Support for type hints (see :pep:`484`).*

u

unicodedata	*Access the Unicode Database.*
unittest	*Unit testing framework for Python.*
urllib	
uu	*Encode and decode files in uuencode format.*
uuid	*UUID objects (universally unique identifiers) according to RFC 4122*

v

venv	*Creation of virtual environments.*

w

warnings	*Issue warning messages and control their disposition.*
wave	*Provide an interface to the WAV sound format.*
weakref	*Support for weak references and weak dictionaries.*
webbrowser	*Easy-to-use controller for Web browsers.*
winreg *(Windows)*	*Routines and objects for manipulating the Windows registry.*
winsound *(Windows)*	*Access to the sound-playing machinery for Windows.*
wsgiref	*WSGI Utilities and Reference Implementation.*

x

xdrlib	*Encoders and decoders for the External Data Representation (XDR).*
xml	*Package containing XML processing modules*
xmlrpc	

z

zipapp	*Manage executable Python zip archives*
zipfile	*Read and write ZIP-format archive files.*
zipimport	*Support for importing Python modules from ZIP archives.*

zlib	*Low-level interface to compression and decompression routines compatible with gzip.*