	Future statement
future	definitions

\_thread Low-level threading API.

а

abc
aifc
Abstract base classes according to PEP 3119.
Read and write audio files in AIFF or AIFC format.
Command-line option and argument parsing library.
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 binar

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.

chunk Module to read IFF chunks.

cmath Mathematical functions for complex numbers.

cmd Build line-oriented command interpreters.

Facilities to implement read-eval-print loops. code codecs Encode and decode data and streams. codeop Compile (possibly incomplete) Python code. + collections Container datatypes colorsys Conversion functions between RGB and other color systems. compileall Tools for byte-compiling all Python source files in a directory tree. + concurrent configparser Configuration file parser. contextlib Utilities for with-statement contexts. Context Variables contextvars Shallow and deep copy operations. сору Register pickle support functions. copyreg cProfile The crypt() function used to check Unix passwords. crypt (Unix) Write and read tabular data to and from delimited files. csv A foreign function library for Python. ctypes + curses (Unix) An interface to the curses library, providing portable terminal handling. d dataclasses Generate special methods on user-defined classes. datetime Basic date and time types. + Interfaces to various Unix "database" formats. dbm decimal Implementation of the General Decimal Arithmetic Specification. difflib Helpers for computing differences between objects. dis Disassembler for Python bytecode. + distutils Support for building and installing Python modules into an existing Python installation. doctest Test pieces of code within docstrings. dummy threading Drop-in replacement for the threading module. е email Package supporting the parsing, manipulating, and generating email messages. + encodings

virtual environment.

Implementation of an enumeration class.

Standard errno system symbols.

Bootstrapping the "pip" installer into an existing Python installation or

ensurepip

enum

errno

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). Higher-order functions and operations on callable objects. functools g qc Interface to the cycle-detecting garbage collector. Portable parser for command line options; support both short and long getopt option names. Portable reading of passwords and retrieval of the userid. getpass gettext Multilingual internationalization services. Unix shell style pathname pattern expansion. glob 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 imaplib IMAP4 protocol client (requires sockets). imghdr Determine the type of image contained in a file or byte stream. **Deprecated:** Access the implementation of the import statement. imp

The implementation of the import machinery.

Core tools for working with streams.

Extract information and source code from live objects.

+

importlib

inspect

io

itertools Functions creating iterators for efficient looping. Encode and decode the JSON format. json k keyword Test whether a string is a keyword in Python. lib2to3 the 2to3 library linecache This module provides random access to individual lines from text files. locale Internationalization services. logging Flexible event logging system for applications. 1zma A Python wrapper for the liblzma compression library. macpath Mac OS 9 path manipulation functions. mailbox Manipulate mailboxes in various formats mailcap Mailcap file handling. Convert Python objects to streams of bytes and back (with different marshal 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. Creation of Microsoft Installer files, and CAB files. msilib (Windows) Miscellaneous useful routines from the MS VC++ runtime. msvcrt (Windows) multiprocessing Process-based parallelism. n netrc Loading of .netrc files. Interface to Sun's NIS (Yellow Pages) library. nis (Unix)

NNTP protocol client (requires sockets).

Numeric abstract base classes (Complex, Real, Integral, etc.).

IPv4/IPv6 manipulation library.

ipaddress

nntplib

numbers

operator Functions corresponding to the standard operators. **Deprecated:** Command-line option parsing library. optparse + Miscellaneous operating system interfaces. OS Access to OSS-compatible audio devices. ossaudiodev (Linux, FreeBSD) Access parse trees for Python source code. parser Object-oriented filesystem paths pathlib The Python debugger for interactive interpreters. pdb Convert Python objects to streams of bytes and back. pickle Contains extensive comments about the pickle protocols and picklepickletools machine opcodes, as well as some useful functions. A Python interface to Unix shell pipelines. pipes (Unix) 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). The most common POSIX system calls (normally used via module os) posix (Unix) pprint Data pretty printer. profile Python source profiler. Statistics object for use with the profiler. pstats Pseudo-Terminal Handling for Linux. pty (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 class browser. pydoc Documentation generator and online help system. q A synchronized queue class. queue Encode and decode files using the MIME quoted-printable encoding. quopri

Regular expression operations.

Generate pseudo-random numbers with various common distributions

random

re

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.

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 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).
	CALTIA	Support for type filling (See F. El. 181).
	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.