Module Description **Documentation** Future statement definitions https://docs.python.org/3/library/\_\_future\_\_.html#module-\_\_future\_\_ \_\_future\_ The environment where top-level code is run. Covers command-line interfaces, import-time behavior, and ``\_\_name\_\_ == '\_\_main\_\_'``. https://docs.python.org/3/library/\_\_main\_\_.html#module-\_\_main\_\_ main https://docs.python.org/3/library/ thread.html#module- thread thread Low-level threading API. tkinter A binary module that contains the low-level interface to Tcl/Tk. https://docs.python.org/3/library/tkinter.html#module-\_tkinter https://docs.python.org/3/library/abc.html#module-abc abc Abstract base classes according to :pep:\3119\. Read and write audio files in AIFF or AIFC format. https://docs.python.org/3/library/aifc.html#module-aifc aifc https://docs.python.org/3/library/argparse.html#module-argparse Command-line option and argument parsing library. argparse Space efficient arrays of uniformly typed numeric values. https://docs.python.org/3/library/array.html#module-array array Abstract Syntax Tree classes and manipulation. https://docs.python.org/3/library/ast.html#module-ast ast https://docs.python.org/3/library/asyncio.html#module-asyncio asyncio Asynchronous I/O. Register and execute cleanup functions. https://docs.python.org/3/library/atexit.html#module-atexit atexit Manipulate raw audio data. https://docs.python.org/3/library/audioop.html#module-audioop audioop RFC 4648: Base16, Base32, Base64 Data Encodings; base64 Base85 and Ascii85 https://docs.python.org/3/library/base64.html#module-base64 https://docs.python.org/3/library/bdb.html#module-bdb bdb Debugger framework. Tools for converting between binary and various ASCII-encoded binary https://docs.python.org/3/library/binascii.html#module-binascii binascii representations. Array bisection algorithms for binary searching. https://docs.python.org/3/library/bisect.html#module-bisect bisect https://docs.python.org/3/library/builtins.html#module-builtins The module that provides the built-in namespace. builtins bz2 Interfaces for bzip2 compression and decompression. https://docs.python.org/3/library/bz2.html#module-bz2 Functions for working with calendars, including some emulation https://docs.python.org/3/library/calendar.html#module-calendar calendar of the Unix cal program. https://docs.python.org/3/library/cgi.html#module-cgi cgi Helpers for running Python scripts via the Common Gateway Interface. Configurable traceback handler for CGI scripts. https://docs.python.org/3/library/cgitb.html#module-cgitb cgitb https://docs.python.org/3/library/chunk.html#module-chunk Module to read IFF chunks. chunk cmath Mathematical functions for complex numbers. https://docs.python.org/3/library/cmath.html#module-cmath https://docs.python.org/3/library/cmd.html#module-cmd cmd Build line-oriented command interpreters. Facilities to implement read-eval-print loops. https://docs.python.org/3/library/code.html#module-code code Encode and decode data and streams. https://docs.python.org/3/library/codecs.html#module-codecs codecs codeop Compile (possibly incomplete) Python code. https://docs.python.org/3/library/codeop.html#module-codeop collections Container datatypes https://docs.python.org/3/library/collections.html#module-collections Abstract base classes for containers https://docs.python.org/3/library/collections.abc.html#module-collections.abc collections.abc https://docs.python.org/3/library/colorsys.html#module-colorsys colorsys Conversion functions between RGB and other color systems. Tools for byte-compiling all Python source files in a directory tree. compileall https://docs.python.org/3/library/compileall.html#module-compileall concurrent.futures https://docs.python.org/3/library/concurrent.futures.html#module-concurrent.fu Execute computations concurrently using threads or processes. https://docs.python.org/3/library/configparser.html#module-configparser configparser contextlib https://docs.python.org/3/library/contextlib.html#module-contextlib Configuration file parser. https://docs.python.org/3/library/contextvars.html#module-contextvars contextvars Utilities for with-statement contexts. 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Dump the Python traceback. https://docs.python.org/3/library/ftplib.html#module-ftplib ftplib https://docs.python.org/3/library/functools.html#module-functools functools (Unix) The fcntl() and ioctl() system calls. https://docs.python.org/3/library/gc.html#module-gc Compare files efficiently. https://docs.python.org/3/library/getopt.html#module-getopt getopt getpass Loop over standard input or a list of files. https://docs.python.org/3/library/getpass.html#module-getpass Unix shell style filename pattern matching. https://docs.python.org/3/library/gettext.html#module-gettext gettext Rational numbers. https://docs.python.org/3/library/glob.html#module-glob glob FTP protocol client (requires sockets). https://docs.python.org/3/library/graphlib.html#module-graphlib graphlib Higher-order functions and operations on callable objects. https://docs.python.org/3/library/grp.html#module-grp Interface to the cycle-detecting garbage collector. https://docs.python.org/3/library/gzip.html#module-gzip gzip Portable parser for command line options; support both short and https://docs.python.org/3/library/hashlib.html#module-hashlib hashlib long option names. Portable reading of passwords and retrieval of the userid. https://docs.python.org/3/library/heapq.html#module-heapq heapq hmac Multilingual internationalization services. https://docs.python.org/3/library/hmac.html#module-hmac Unix shell style pathname pattern expansion. https://docs.python.org/3/library/html.html#module-html html https://docs.python.org/3/library/html.entities.html#module-html.entities html.entities Functionality to operate with graph-like structures https://docs.python.org/3/library/html.parser.html#module-html.parser html.parser The group database (getgrnam() and friends). https://docs.python.org/3/library/http.html#module-http http http.client Interfaces for gzip compression and decompression using file objects. https://docs.python.org/3/library/http.client.html#module-http.client http.cookiejar Secure hash and message digest algorithms. https://docs.python.org/3/library/http.cookiejar.html#module-http.cookiejar http.cookies Heap queue algorithm (a.k.a. priority queue). https://docs.python.org/3/library/http.cookies.html#module-http.cookies http.server Keyed-Hashing for Message Authentication (HMAC) implementation https://docs.python.org/3/library/http.server.html#module-http.server https://docs.python.org/3/library/idle.html#module-idlelib idlelib Helpers for manipulating HTML. imaplib Definitions of HTML general entities. https://docs.python.org/3/library/imaplib.html#module-imaplib imghdr A simple parser that can handle HTML and XHTML. https://docs.python.org/3/library/imghdr.html#module-imghdr importlib HTTP status codes and messages https://docs.python.org/3/library/importlib.html#module-importlib HTTP and HTTPS protocol client (requires sockets). https://docs.python.org/3/library/importlib.html#module-importlib.abc importlib.abc Classes for automatic handling of HTTP cookies. importlib.machinery https://docs.python.org/3/library/importlib.html#module-importlib.machinery https://docs.python.org/3/library/importlib.metadata.html#module-importlib.metadata.html#module-importlib.metadata.html importlib.metadata Support for HTTP state management (cookies). importlib.resources https://docs.python.org/3/library/importlib.resources.html#module-importlib.res HTTP server and request handlers. 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Command-line option parsing library. plistlib https://docs.python.org/3/library/plistlib.html#module-plistlib Miscellaneous operating system interfaces. https://docs.python.org/3/library/poplib.html#module-poplib poplib Operations on pathnames. https://docs.python.org/3/library/posix.html#module-posix posix pprint (Linux, FreeBSD) https://docs.python.org/3/library/pprint.html#module-pprint Access to OSS-compatible audio devices. profile https://docs.python.org/3/library/profile.html#module-profile pstats Object-oriented filesystem paths https://docs.python.org/3/library/profile.html#module-pstats The Python debugger for interactive interpreters. https://docs.python.org/3/library/pty.html#module-pty Convert Python objects to streams of bytes and back. https://docs.python.org/3/library/pwd.html#module-pwd pwd Contains extensive comments about the pickle protocols and py\_compile pickle-machine opcodes, as well as some useful functions. https://docs.python.org/3/library/py\_compile.html#module-py\_compile https://docs.python.org/3/library/pyclbr.html#module-pyclbr pyclbr pydoc A Python interface to Unix shell pipelines. https://docs.python.org/3/library/pydoc.html#module-pydoc Utilities for the import system. https://docs.python.org/3/library/queue.html#module-queue queue Retrieves as much platform identifying data as possible. quopri https://docs.python.org/3/library/quopri.html#module-quopri random Generate and parse Apple plist files. https://docs.python.org/3/library/random.html#module-random POP3 protocol client (requires sockets). https://docs.python.org/3/library/re.html#module-re re readline (Unix) https://docs.python.org/3/library/readline.html#module-readline The most common POSIX system calls (normally used via module os). https://docs.python.org/3/library/reprlib.html#module-reprlib reprlib https://docs.python.org/3/library/resource.html#module-resource resource Data pretty printer. rlcompleter Python source profiler. https://docs.python.org/3/library/rlcompleter.html#module-rlcompleter Statistics object for use with the profiler. https://docs.python.org/3/library/runpy.html#module-runpy runpy sched https://docs.python.org/3/library/sched.html#module-sched Pseudo-Terminal Handling for Unix. https://docs.python.org/3/library/secrets.html#module-secrets secrets (Unix) https://docs.python.org/3/library/select.html#module-select select The password database (getpwnam() and friends). https://docs.python.org/3/library/selectors.html#module-selectors selectors shelve Generate byte-code files from Python source files. https://docs.python.org/3/library/shelve.html#module-shelve shlex Supports information extraction for a Python module browser. https://docs.python.org/3/library/shlex.html#module-shlex Documentation generator and online help system. https://docs.python.org/3/library/shutil.html#module-shutil shutil https://docs.python.org/3/library/signal.html#module-signal signal A synchronized queue class. Encode and decode files using the MIME quoted-printable encoding. https://docs.python.org/3/library/site.html#module-site site sitecustomize Generate pseudo-random numbers with various common distributions. https://docs.python.org/3/library/site.html#module-sitecustomize smtplib Regular expression operations. https://docs.python.org/3/library/smtplib.html#module-smtplib sndhdr (Unix) https://docs.python.org/3/library/sndhdr.html#module-sndhdr GNU readline support for Python. https://docs.python.org/3/library/socket.html#module-socket socket socketserver Alternate repr() implementation with size limits. https://docs.python.org/3/library/socketserver.html#module-socketserver https://docs.python.org/3/library/spwd.html#module-spwd (Unix) spwd An interface to provide resource usage information on the current process. https://docs.python.org/3/library/sqlite3.html#modulehttps://docs.python.org/3/library/ssl.html#module-ssl ssl Python identifier completion, suitable for the GNU readline library. Locate and run Python modules without importing them first. https://docs.python.org/3/library/stat.html#module-stat stat https://docs.python.org/3/library/statistics.html#module-statistics statistics General purpose event scheduler. string Generate secure random numbers for managing secrets. https://docs.python.org/3/library/string.html#module-string Wait for I/O completion on multiple streams. stringprep https://docs.python.org/3/library/stringprep.html#module-stringprep High-level I/O multiplexing. https://docs.python.org/3/library/struct.html#module-struct struct https://docs.python.org/3/library/subprocess.html#module-subprocess subprocess Python object persistence. sunau Simple lexical analysis for Unix shell-like languages. https://docs.python.org/3/library/sunau.html#module-sunau symtable High-level file operations, including copying. https://docs.python.org/3/library/symtable.html#module-symtable Set handlers for asynchronous events. https://docs.python.org/3/library/sys.html#module-sys sys sys.monitoring Module responsible for site-specific configuration. https://docs.python.org/3/library/sys.monitoring.html#module-sys.monitoring sysconfig https://docs.python.org/3/library/sysconfig.html#module-sysconfig SMTP protocol client (requires sockets). https://docs.python.org/3/library/syslog.html#module-syslog syslog https://docs.python.org/3/library/tabnanny.html#module-tabnanny Determine type of a sound file. tabnanny https://docs.python.org/3/library/tarfile.html#module-tarfile tarfile Low-level networking interface. A framework for network servers. https://docs.python.org/3/library/telnetlib.html#module-telnetlib telnetlib tempfile (Unix) https://docs.python.org/3/library/tempfile.html#module-tempfile The shadow password database (getspnam() and friends). https://docs.python.org/3/library/termios.html#module-termios termios A DB-API 2.0 implementation using SQLite 3.x. https://docs.python.org/3/library/test.html#module-test test TLS/SSL wrapper for socket objects https://docs.python.org/3/library/test.html#module-test.regrtest test.regrtest Utilities for interpreting the results of os.stat(), os.lstat() and os.fstat(). https://docs.python.org/3/library/test.html#module-test.support test.support test.support.bytecode\_helper Mathematical statistics functions https://docs.python.org/3/library/test.html#module-test.support.bytecode help test.support.import\_helper Common string operations. https://docs.python.org/3/library/test.html#module-test.support.import\_helper https://docs.python.org/3/library/test.html#module-test.support.os\_helper test.support.os\_helper String preparation, as per RFC 3453 test.support.script helper Interpret bytes as packed binary data. https://docs.python.org/3/library/test.html#module-test.support.script helper test.support.socket\_helper Subprocess management. https://docs.python.org/3/library/test.html#module-test.support.socket\_helper test.support.threading\_helper Provide an interface to the Sun AU sound format. https://docs.python.org/3/library/test.html#module-test.support.threading\_help test.support.warnings\_helper Interface to the compiler's internal symbol tables. https://docs.python.org/3/library/test.html#module-test.support.warnings\_helpe Access system-specific parameters and functions. https://docs.pvthon.org/3/library/textwrap.html#module-textwrap textwrap Access and control event monitoring https://docs.python.org/3/library/threading.html#module-threading threading https://docs.python.org/3/library/time.html#module-time Python's configuration information time timeit (Unix) https://docs.python.org/3/library/timeit.html#module-timeit An interface to the Unix syslog library routines. https://docs.python.org/3/library/tkinter.html#module-tkinter tkinter Tool for detecting white space related problems in Python https://docs.pvthon.org/3/library/tkinter.colorchooser.html#module-tkinter.color tkinter.colorchooser source files in a directory tree. tkinter.commondialog Read and write tar-format archive files. https://docs.python.org/3/library/dialog.html#module-tkinter.commondialog https://docs.python.org/3/library/tkinter.dnd.html#module-tkinter.dnd tkinter.dnd Telnet client class. tkinter.filedialog Generate temporary files and directories. https://docs.python.org/3/library/dialog.html#module-tkinter.filedialog https://docs.python.org/3/library/tkinter.font.html#module-tkinter.font tkinter.font (Unix) POSIX style tty control. tkinter.messagebox 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https://docs.python.org/3/library/trace.html#module-trace trace Support for threading tests. https://docs.python.org/3/library/traceback.html#module-traceback traceback tracemalloc Support for warnings tests. https://docs.python.org/3/library/tracemalloc.html#module-tracemalloc https://docs.python.org/3/library/tty.html#module-ttv Text wrapping and filling tty https://docs.python.org/3/library/turtle.html#module-turtle Thread-based parallelism. turtle https://docs.python.org/3/library/turtle.html#module-turtledemo turtledemo Time access and conversions. https://docs.python.org/3/library/types.html#module-types Measure the execution time of small code snippets. types typing Interface to TcI/Tk for graphical user interfaces https://docs.python.org/3/library/typing.html#module-typing https://docs.python.org/3/library/unicodedata.html#module-unicodedata unicodedata (Tk) Color choosing dialog https://docs.python.org/3/library/unittest.html#module-unittest unittest 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https://docs.python.org/3/library/venv.html#module-venv venv Text widget with a vertical scroll bar. https://docs.python.org/3/library/warnings.html#module-warnings warnings https://docs.python.org/3/library/wave.html#module-wave wave Simple dialog windows https://docs.python.org/3/library/weakref.html#module-weakref weakref Tk Extension Widgets for Tkinter https://docs.python.org/3/library/webbrowser.html#module-webbrowser webbrowser Tk themed widget set https://docs.python.org/3/library/winreg.html#module-winreg winreg winsound Constants representing terminal nodes of the parse tree. https://docs.python.org/3/library/winsound.html#module-winsound Lexical scanner for Python source code. https://docs.python.org/3/library/wsgiref.html#module-wsgiref wsgiref https://docs.python.org/3/library/wsgiref.html#module-wsgiref.handlers wsgiref.handlers Parse TOML files. Trace or track Python statement execution. wsgiref.headers https://docs.python.org/3/library/wsgiref.html#module-wsgiref.headers Print or retrieve a stack traceback. wsgiref.simple\_server https://docs.python.org/3/library/wsgiref.html#module-wsgiref.simple\_server wsgiref.types Trace memory allocations. https://docs.python.org/3/library/wsgiref.html#module-wsgiref.types https://docs.python.org/3/library/wsgiref.html#module-wsgiref.util wsgiref.util (Unix) Utility functions that perform common terminal control operations. wsgiref.validate https://docs.python.org/3/library/wsgiref.html#module-wsgiref.validate https://docs.python.org/3/library/xdrlib.html#module-xdrlib xdrlib An educational framework for simple graphics applications https://docs.python.org/3/library/xml.html#module-xml A viewer for example turtle scripts xml Names for built-in types. https://docs.python.org/3/library/xml.dom.html#module-xml.dom xml.dom xml.dom.minidom Support for type hints (see :pep:`484`). https://docs.python.org/3/library/xml.dom.minidom.html#module-xml.dom.mini xml.dom.pulldom Access the Unicode Database. https://docs.python.org/3/library/xml.dom.pulldom.html#module-xml.dom.pulld https://docs.python.org/3/library/xml.etree.elementtree.html#module-xml.etree xml.etree.ElementInclude Unit testing framework for Python. xml.etree.ElementTree Mock object library. https://docs.python.org/3/library/xml.etree.elementtree.html#module-xml.etree https://docs.python.org/3/library/pyexpat.html#module-xml.parsers.expat xml.parsers.expat xml.parsers.expat.errors Exception classes raised by urllib.request. https://docs.python.org/3/library/pyexpat.html#module-xml.parsers.expat.error Parse URLs into or assemble them from components. https://docs.python.org/3/library/pyexpat.html#module-xml.parsers.expat.mod xml.parsers.expat.model Extensible library for opening URLs. https://docs.python.org/3/library/xml.sax.html#module-xml.sax xml.sax https://docs.python.org/3/library/xml.sax.handler.html#module-xml.sax.handle xml.sax.handler Response classes used by urllib. Load a robots.txt file and answer questions about https://docs.python.org/3/library/xml.sax.utils.html#module-xml.sax.saxutils xml.sax.saxutils fetchability of other URLs. https://docs.python.org/3/library/xml.sax.reader.html#module-xml.sax.xmlread xml.sax.xmlreader Encode and decode files in uuencode format. https://docs.python.org/3/library/xmlrpc.client.html#module-xmlrpc.client xmlrpc.client xmlrpc.server UUID objects (universally unique identifiers) according to RFC 4122 https://docs.python.org/3/library/xmlrpc.server.html#module-xmlrpc.server https://docs.python.org/3/library/zipapp.html#module-zipapp Creation of virtual environments. zipapp https://docs.python.org/3/library/zipfile.html#module-zipfile zipfile Issue warning messages and control their disposition. Provide an interface to the WAV sound format. https://docs.python.org/3/library/zipimport.html#module-zipimport zipimport Support for weak references and weak dictionaries. https://docs.python.org/3/library/zlib.html#module-zlib zlib zoneinfo Easy-to-use controller for web browsers. https://docs.python.org/3/library/zoneinfo.html#module-zoneinfo