

:mod:`zipimport` --- Import modules from Zip archives

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) zipimport.rst, line 1); [backlink](#)

Unknown interpreted text role "mod".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) zipimport.rst, line 4)

Unknown directive type "module".

```
.. module:: zipimport
   :synopsis: Support for importing Python modules from ZIP archives.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) zipimport.rst, line 7)

Unknown directive type "moduleauthor".

```
.. moduleauthor:: Just van Rossum <just@lettererror.com>
```

Source code: :source:`Lib/zipimport.py`

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) zipimport.rst, line 9); [backlink](#)

Unknown interpreted text role "source".

This module adds the ability to import Python modules (:file:`*.py`, :file:`*.pyc`) and packages from ZIP-format archives. It is usually not needed to use the :mod:`zipimport` module explicitly; it is automatically used by the built-in :keyword:`import` mechanism for :data:`sys.path` items that are paths to ZIP archives.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) zipimport.rst, line 13); [backlink](#)

Unknown interpreted text role "file".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) zipimport.rst, line 13); [backlink](#)

Unknown interpreted text role "file".

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Unknown interpreted text role "mod".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) zipimport.rst, line 13); [backlink](#)

Unknown interpreted text role "keyword".

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Unknown interpreted text role "data".

Typically, :data:`sys.path` is a list of directory names as strings. This module also allows an item of :data:`sys.path` to be a string naming a ZIP file archive. The ZIP archive can contain a subdirectory structure to support package imports, and a path within the archive can be specified to only import from a subdirectory. For example, the path :file:`example.zip/lib/` would only import from the :file:`lib/` subdirectory within the archive.

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Unknown interpreted text role "data".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) zipimport.rst, line 19); [backlink](#)

Unknown interpreted text role "data".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) zipimport.rst, line 19); [backlink](#)

Unknown interpreted text role "file".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) zipimport.rst, line 19); [backlink](#)

Unknown interpreted text role "file".

Any files may be present in the ZIP archive, but importers are only invoked for `:file:'.py'` and `:file:'.pyc'` files. ZIP import of dynamic modules (`:file:'.pyd'`, `:file:'.so'`) is disallowed. Note that if an archive only contains `:file:'.py'` files, Python will not attempt to modify the archive by adding the corresponding `:file:'.pyc'` file, meaning that if a ZIP archive doesn't contain `:file:'.pyc'` files, importing may be rather slow.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) zipimport.rst, line 26); [backlink](#)

Unknown interpreted text role "file".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) zipimport.rst, line 26); [backlink](#)

Unknown interpreted text role "file".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) zipimport.rst, line 26); [backlink](#)

Unknown interpreted text role "file".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) zipimport.rst, line 26); [backlink](#)

Unknown interpreted text role "file".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) zipimport.rst, line 26); [backlink](#)

Unknown interpreted text role "file".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) zipimport.rst, line 26); [backlink](#)

Unknown interpreted text role "file".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) zipimport.rst, line 26); [backlink](#)

Unknown interpreted text role "file".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) zipimport.rst, line 33)

Unknown directive type "versionchanged".

```
.. versionchanged:: 3.8
    Previously, ZIP archives with an archive comment were not supported.
```

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Unknown directive type "seealso".

```
.. seealso::

    `PKZIP Application Note <https://pkware.cachefly.net/webdocs/casestudies/APPNOTE.TXT>`_
    Documentation on the ZIP file format by Phil Katz, the creator of the format and
    algorithms used.

:pep:`273` - Import Modules from Zip Archives
    Written by James C. Ahlstrom, who also provided an implementation. Python 2.3
    follows the specification in :pep:`273`, but uses an implementation written by Just
    van Rossum that uses the import hooks described in :pep:`302`.

:mod:`importlib` - The implementation of the import machinery
    Package providing the relevant protocols for all importers to
    implement.
```

This module defines an exception:

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Unknown directive type "exception".

```
.. exception:: ZipImportError

    Exception raised by zipimporter objects. It's a subclass of :exc:`ImportError`,
    so it can be caught as :exc:`ImportError`, too.
```

zipimporter Objects

`class: 'zipimport'` is the class for importing ZIP files.

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Unknown interpreted text role "class".

Create a new `zipimporter` instance. *archivepath* must be a path to a ZIP file, or to a specific path within a ZIP file. For example, an *archivepath* of `:file:'foo/bar.zip/lib'` will look for modules in the `:file:'lib'` directory inside the ZIP file `:file:'foo/bar.zip'` (provided that it exists).

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Unknown interpreted text role "file".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) zipimport.rst, line 69); [backlink](#)

Unknown interpreted text role "file".

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Unknown interpreted text role "file".

`:exc:'ZipImportError'` is raised if *archivepath* doesn't point to a valid ZIP archive.

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Unknown interpreted text role "exc".

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Unknown directive type "method".

```
.. method:: create_module(spec)

Implementation of :meth:`importlib.abc.Loader.create_module` that returns
:const:`None` to explicitly request the default semantics.
```

```
.. versionadded:: 3.10
```

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Unknown directive type "method".

```
.. method:: exec_module(module)

Implementation of :meth:`importlib.abc.Loader.exec_module`.
```

```
.. versionadded:: 3.10
```

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Unknown directive type "method".

```
.. method:: find_loader(fullname, path=None)

An implementation of :meth:`importlib.abc.PathEntryFinder.find_loader`.
```

```
.. deprecated:: 3.10
```

```
Use :meth:`find_spec` instead.
```

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Unknown directive type "method".

```
.. method:: find_module(fullname, path=None)

Search for a module specified by *fullname*. *fullname* must be the fully
qualified (dotted) module name. It returns the zipimporter instance itself
if the module was found, or :const:`None` if it wasn't. The optional
*path* argument is ignored---it's there for compatibility with the
importer protocol.
```

```
.. deprecated:: 3.10
```

```
Use :meth:`find_spec` instead.
```

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Unknown directive type "method".

```
.. method:: find_spec(fullname, target=None)

An implementation of :meth:`importlib.abc.PathEntryFinder.find_spec`.
```

```
.. versionadded:: 3.10
```

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Unknown directive type "method".

```
.. method:: get_code(fullname)
```

Return the code object for the specified module. Raise :exc:`ZipImportError` if the module couldn't be imported.

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Unknown directive type "method".

```
.. method:: get_data(pathname)
```

Return the data associated with *pathname*. Raise :exc:`OSError` if the file wasn't found.

```
.. versionchanged:: 3.3
   :exc:`IOError` used to be raised instead of :exc:`OSError`.
```

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Unknown directive type "method".

```
.. method:: get_filename(fullname)
```

Return the value ``__file__`` would be set to if the specified module was imported. Raise :exc:`ZipImportError` if the module couldn't be imported.

```
.. versionadded:: 3.1
```

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Unknown directive type "method".

```
.. method:: get_source(fullname)
```

Return the source code for the specified module. Raise :exc:`ZipImportError` if the module couldn't be found, return :const:`None` if the archive does contain the module, but has no source for it.

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Unknown directive type "method".

```
.. method:: is_package(fullname)
```

Return ``True`` if the module specified by *fullname* is a package. Raise :exc:`ZipImportError` if the module couldn't be found.

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Unknown directive type "method".

```
.. method:: load_module(fullname)
```

Load the module specified by **fullname**. **fullname** must be the fully qualified (dotted) module name. Returns the imported module on success, raises `:exc:`ZipImportError`` on failure.

```
.. deprecated:: 3.10
```

Use `:meth:`exec_module`` instead.

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Unknown directive type "method".

```
.. method:: invalidate_caches()
```

Clear out the internal cache of information about files found within the ZIP archive.

```
.. versionadded:: 3.10
```

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Unknown directive type "attribute".

```
.. attribute:: archive
```

The file name of the importer's associated ZIP file, without a possible subpath.

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Unknown directive type "attribute".

```
.. attribute:: prefix
```

The subpath within the ZIP file where modules are searched. This is the empty string for zipimporter objects which point to the root of the ZIP file.

The `:attr:`archive`` and `:attr:`prefix`` attributes, when combined with a slash, equal the original *archivepath* argument given to the `:class:`zipimporter`` constructor.

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Unknown interpreted text role "attr".

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Unknown interpreted text role "attr".

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Unknown interpreted text role "class".

Examples

Here is an example that imports a module from a ZIP archive - note that the `mod:'zipimport'` module is not explicitly used.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) zipimport.rst, line 200); [backlink](#)

Unknown interpreted text role "mod".

```
$ unzip -l example.zip
Archive:  example.zip
  Length      Date    Time    Name
-----
      8467   11-26-02  22:30   jwzthreading.py
-----
      8467                1 file

$ ./python
Python 2.3 (#1, Aug 1 2003, 19:54:32)
>>> import sys
>>> sys.path.insert(0, 'example.zip')  # Add .zip file to front of path
>>> import jwzthreading
>>> jwzthreading.__file__
'example.zip/jwzthreading.py'
```