:mod:`site` --- Site-specific configuration hook

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

Unknown directive type "module".

```
.. module:: site
   :synopsis: Module responsible for site-specific configuration.
```

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

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)site.rst`, line 7); *backlink*

Unknown interpreted text role "source".

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)site.rst`, line 11)

Unknown directive type "highlight".

```
.. highlight:: none
```

This module is automatically imported during initialization. The automatic import can be suppressed using the interpreter's :option:`-S` option.

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)site.rst`, line 13); *backlink*

Unknown interpreted text role "option".

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)site.rst`, line 16)

Unknown directive type "index".

```
.. index:: triple: module; search; path
```

Importing this module will append site-specific paths to the module search path and add a few builtins, unless :option:`-S` was used. In that case, this module can be safely imported with no automatic modifications to the module search path or additions to the builtins. To explicitly trigger the usual site-specific additions, call the :func:`site.main` function.

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)site.rst`, line 18); *backlink*

Unknown interpreted text role "option".

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)site.rst`, line 18); *backlink*

Unknown interpreted text role "func".

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)site.rst`, line 24)

Unknown directive type "versionchanged".

```
.. versionchanged:: 3.3
   Importing the module used to trigger paths manipulation even when using
   :option:`-S`.
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)site.rst`**, line 28)**

Unknown directive type "index".

```
.. index::
   pair: site-packages; directory
```

It starts by constructing up to four directories from a head and a tail part. For the head part, it uses `sys.prefix` and `sys.exec_prefix`; empty heads are skipped. For the tail part, it uses the empty string and then :file:`lib/site-packages` (on Windows) or :file:`lib/python{X.Y}/site-packages` (on Unix and macOS). For each of the distinct head-tail combinations, it sees if it refers to an existing directory, and if so, adds it to `sys.path` and also inspects the newly added path for configuration files.

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)site.rst`**, line 31);** *backlink*

Unknown interpreted text role "file".

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)site.rst`**, line 31);** *backlink*

Unknown interpreted text role "file".

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)site.rst`**, line 40)**

Unknown directive type "versionchanged".

```
.. versionchanged:: 3.5
   Support for the "site-python" directory has been removed.
```

If a file named "pyvenv.cfg" exists one directory above sys.executable, sys.prefix and sys.exec_prefix are set to that directory and it is also checked for site-packages (sys.base_prefix and sys.base_exec_prefix will always be the "real" prefixes of the Python installation). If "pyvenv.cfg" (a bootstrap configuration file) contains the key "include-system-site-packages" set to anything other than "true" (case-insensitive), the system-level prefixes will not be searched for site-packages; otherwise they will.

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)site.rst`**, line 52)**

Unknown directive type "index".

```
.. index::
   single: # (hash); comment
   statement: import
```

A path configuration file is a file whose name has the form :file:`{name}.pth` and exists in one of the four directories mentioned above; its contents are additional items (one per line) to be added to `sys.path`. Non-existing items are never added to `sys.path`, and no check is made that the item refers to a directory rather than a file. No item is added to `sys.path` more than once. Blank lines and lines beginning with # are skipped. Lines starting with `import` (followed by space or tab) are executed.

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)site.rst`**, line 56);** *backlink*

Unknown interpreted text role "file".

Note

An executable line in a :file:`.pth` file is run at every Python startup, regardless of whether a particular module is actually going to be used. Its impact should thus be kept to a minimum. The primary intended purpose of executable lines is to make the corresponding module(s) importable (load 3rd-party import hooks, adjust :envvar:`PATH` etc). Any other initialization is supposed to be done upon a module's actual import, if and when it happens. Limiting a code

chunk to a single line is a deliberate measure to discourage putting anything more complex here.

```
.. index::
   single: package
   triple: path; configuration; file
```

For example, suppose `sys.prefix` and `sys.exec_prefix` are set to :file:`/usr/local`. The Python X.Y library is then installed in :file:`/usr/local/lib/python{X.Y}`. Suppose this has a subdirectory :file:`/usr/local/lib/python{X.Y}/site-packages` with three subsubdirectories, :file:`foo`, :file:`bar` and :file:`spam`, and two path configuration files, :file:`foo.pth` and :file:`bar.pth`. Assume :file:`foo.pth` contains the following:

```
# foo package configuration

foo
bar
bletch
```

and :file:`bar.pth` contains:

```
# bar package configuration

bar
```

Then the following version-specific directories are added to `sys.path`, in this order:

```
/usr/local/lib/pythonX.Y/site-packages/bar
/usr/local/lib/pythonX.Y/site-packages/foo
```

Note that :file:`bletch` is omitted because it doesn't exist; the :file:`bar` directory precedes the :file:`foo` directory because :file:`bar.pth` comes alphabetically before :file:`foo.pth`; and :file:`spam` is omitted because it is not mentioned in either path configuration file.

main\Doc\library\(cpython-main) (Doc) (library)site.rst, line 112)

Unknown directive type "index".

```
.. index:: module: sitecustomize
```

After these path manipulations, an attempt is made to import a module named :mod:`sitecustomize`, which can perform arbitrary site-specific customizations. It is typically created by a system administrator in the site-packages directory. If this import fails with an :exc:`ImportError` or its subclass exception, and the exception's :attr:`name` attribute equals to 'sitecustomize', it is silently ignored. If Python is started without output streams available, as with :file:`pythonw.exe` on Windows (which is used by default to start IDLE), attempted output from :mod:`sitecustomize` is ignored. Any other exception causes a silent and perhaps mysterious failure of the process.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)site.rst, line 114); *backlink*

Unknown interpreted text role "mod".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)site.rst, line 114); *backlink*

Unknown interpreted text role "exc".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)site.rst, line 114); *backlink*

Unknown interpreted text role "attr".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)site.rst, line 114); *backlink*

Unknown interpreted text role "file".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)site.rst, line 114); *backlink*

Unknown interpreted text role "mod".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)site.rst, line 124)

Unknown directive type "index".

```
.. index:: module: usercustomize
```

After this, an attempt is made to import a module named :mod:`usercustomize`, which can perform arbitrary user-specific customizations, if :data:`ENABLE_USER_SITE` is true. This file is intended to be created in the user site-packages directory (see below), which is part of sys.path unless disabled by :option:`-s`. If this import fails with an :exc:`ImportError` or its subclass exception, and the exception's :attr:`name` attribute equals to 'usercustomize', it is silently ignored.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)site.rst, line 126); *backlink*

Unknown interpreted text role "mod".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)site.rst, line 126); *backlink*

Unknown interpreted text role "data".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)site.rst, line 126); *backlink*

Unknown interpreted text role "option".

Note that for some non-Unix systems, `sys.prefix` and `sys.exec_prefix` are empty, and the path manipulations are skipped; however the import of :mod:`sitecustomize` and :mod:`usercustomize` is still attempted.

Readline configuration

On systems that support :mod:`readline`, this module will also import and configure the :mod:`rlcompleter` module, if Python is started in :ref:`interactive mode <tut-interactive>` and without the :option:`-S` option. The default behavior is enable tab-completion and to use :file:`~/.python_history` as the history save file. To disable it, delete (or override) the :data:`sys.__interactivehook__` attribute in your :mod:`sitecustomize` or :mod:`usercustomize` module or your :envvar:`PYTHONSTARTUP` file.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)site.rst**, line 144);** *backlink*

Unknown interpreted text role "mod".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)site.rst**, line 144);** *backlink*

Unknown interpreted text role "envvar".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)site.rst**, line 153)**

Unknown directive type "versionchanged".

```
.. versionchanged:: 3.4
   Activation of rlcompleter and history was made automatic.
```

Module contents

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)site.rst**, line 160)**

Unknown directive type "data".

```
.. data:: PREFIXES

   A list of prefixes for site-packages directories.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)site.rst**, line 165)**

Unknown directive type "data".

```
.. data:: ENABLE_USER_SITE

   Flag showing the status of the user site-packages directory.  ``True`` means
   that it is enabled and was added to ``sys.path``.  ``False`` means that it
   was disabled by user request (with :option:`-s` or
   :envvar:`PYTHONNOUSERSITE`).  ``None`` means it was disabled for security
   reasons (mismatch between user or group id and effective id) or by an
   administrator.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)site.rst**, line 175)**

Unknown directive type "data".

```
.. data:: USER_SITE

   Path to the user site-packages for the running Python.  Can be ``None`` if
   :func:`getusersitepackages` hasn't been called yet.  Default value is
   :file:`~/.local/lib/python{X.Y}/site-packages` for UNIX and non-framework
   macOS builds, :file:`~/Library/Python/{X.Y}/lib/python/site-packages` for macOS
   framework builds, and :file:`{%APPDATA%}\\Python\\Python{XY}\\site-packages`
   on Windows.  This directory is a site directory, which means that
   :file:`.pth` files in it will be processed.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)site.rst**, line 186)**

Unknown directive type "data".

```
.. data:: USER_BASE
```

```
Path to the base directory for the user site-packages.  Can be ``None`` if
:func:`getuserbase` hasn't been called yet.  Default value is
:file:`~/.local` for UNIX and macOS non-framework builds,
:file:`~/Library/Python/{X.Y}` for macOS framework builds, and
:file:`{%APPDATA%}\\Python` for Windows.  This value is used by Distutils to
compute the installation directories for scripts, data files, Python modules,
etc. for the :ref:`user installation scheme <inst-alt-install-user>`.
See also :envvar:`PYTHONUSERBASE`.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)site.rst, line 198)

Unknown directive type "function".

```
.. function:: main()

   Adds all the standard site-specific directories to the module search
   path.  This function is called automatically when this module is imported,
   unless the Python interpreter was started with the :option:`-S` flag.

   .. versionchanged:: 3.3
      This function used to be called unconditionally.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)site.rst, line 208)

Unknown directive type "function".

```
.. function:: addsitedir(sitedir, known_paths=None)

   Add a directory to sys.path and process its :file:`.pth` files.  Typically
   used in :mod:`sitecustomize` or :mod:`usercustomize` (see above).
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)site.rst, line 214)

Unknown directive type "function".

```
.. function:: getsitepackages()

   Return a list containing all global site-packages directories.

   .. versionadded:: 3.2
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)site.rst, line 221)

Unknown directive type "function".

```
.. function:: getuserbase()

   Return the path of the user base directory, :data:`USER_BASE`.  If it is not
   initialized yet, this function will also set it, respecting
   :envvar:`PYTHONUSERBASE`.

   .. versionadded:: 3.2
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)site.rst, line 230)

Unknown directive type "function".

```
.. function:: getusersitepackages()

   Return the path of the user-specific site-packages directory,
   :data:`USER_SITE`.  If it is not initialized yet, this function will also set
```

```
        it, respecting :data:`USER_BASE`.  To determine if the user-specific
        site-packages was added to ``sys.path`` :data:`ENABLE_USER_SITE` should be
        used.

        .. versionadded:: 3.2
```

Command Line Interface

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)site.rst`, **line 246**)

Unknown directive type "program".

```
    .. program:: site
```

The :mod:`site` module also provides a way to get the user directories from the command line:

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)site.rst`, **line 248**); *backlink*

Unknown interpreted text role "mod".

```
$ python3 -m site --user-site
/home/user/.local/lib/python3.3/site-packages
```

If it is called without arguments, it will print the contents of :data:`sys.path` on the standard output, followed by the value of :data:`USER_BASE` and whether the directory exists, then the same thing for :data:`USER_SITE`, and finally the value of :data:`ENABLE_USER_SITE`.

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)site.rst`, **line 256**); *backlink*

Unknown interpreted text role "data".

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)site.rst`, **line 256**); *backlink*

Unknown interpreted text role "data".

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)site.rst`, **line 256**); *backlink*

Unknown interpreted text role "data".

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)site.rst`, **line 256**); *backlink*

Unknown interpreted text role "data".

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)site.rst`, **line 261**)

Unknown directive type "cmdoption".

```
    .. cmdoption:: --user-base

        Print the path to the user base directory.
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)site.rst`, **line 265**)

Unknown directive type "cmdoption".

```
    .. cmdoption:: --user-site
```

```
        Print the path to the user site-packages directory.
```

If both options are given, user base and user site will be printed (always in this order), separated by :data:`os.pathsep`.

If any option is given, the script will exit with one of these values: `0` if the user site-packages directory is enabled, `1` if it was disabled by the user, `2` if it is disabled for security reasons or by an administrator, and a value greater than 2 if there is an error.