

pip

Usage

[Unix/macOS](#) [Windows](#)

```
python -m pip <command> [options]
```

Description

Logging

Console logging

pip offers [-v, --verbose](#) and [-q, --quiet](#) to control the console log level. By default, some messages (error and warnings) are colored in the terminal. If you want to suppress the colored output use [--no-color](#).

File logging

pip offers the [--log](#) option for specifying a file where a maximum verbosity log will be kept. This option is empty by default. This log appends to previous logging.

Like all pip options, `--log` can also be set as an environment variable, or placed into the pip config file. See the [Configuration](#) section.

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--exists-action option

This option specifies default behavior when path already exists. Possible cases: downloading files or checking out repositories for installation, creating archives. If `--exists-action` is not defined, pip will prompt when decision is needed.

(s)witch

Only relevant to VCS checkout. Attempt to switch the checkout to the appropriate URL and/or revision.

(i)gnore

Abort current operation (e.g. don't copy file, don't create archive, don't modify a checkout).

(w)ipe

Delete the file or VCS checkout before trying to create, download, or checkout a new one.

(b)ackup

Rename the file or checkout to `{name}-{ '.bak' * n }`, where n is some number of `.bak` extensions, such that the file didn't exist at some point. So the most recent backup will be the one with the largest number after `.bak`.

(a)bort

Abort pip and return non-zero exit status.

Build System Interface

This is now covered in [Build System Interface](#).

General Options

-h, --help

Show help.

(environment variable: `PIP_HELP`)

--debug

Let unhandled exceptions propagate outside the main subroutine, instead of logging them to stderr.

(environment variable: `PIP_DEBUG`)

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--isolated

Run pip in an isolated mode, ignoring environment variables and user configuration.

(environment variable: `PIP_ISOLATED`)

--require-virtualenv

Allow pip to only run in a virtual environment; exit with an error otherwise.

(environment variable: `PIP_REQUIRE_VIRTUALENV` , `PIP_REQUIRE_VENV`)

--python <python>

Run pip with the specified Python interpreter.

(environment variable: `PIP_PYTHON`)

-v, --verbose

Give more output. Option is additive, and can be used up to 3 times.

(environment variable: `PIP_VERBOSE`)

-V, --version

Show version and exit.

(environment variable: `PIP_VERSION`)

-q, --quiet

Give less output. Option is additive, and can be used up to 3 times (corresponding to WARNING, ERROR, and CRITICAL logging levels).

(environment variable: `PIP_QUIET`)

--log <path>

Path to a verbose appending log.

(environment variable: `PIP_LOG` , `PIP_LOG_FILE` , `PIP_LOCAL_LOG`)

--no-input

Disable prompting for input.

(environment variable: `PIP_NO_INPUT`)

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--keyring-provider <keyring_provider>

Enable the credential lookup via the keyring library if user input is allowed. Specify which mechanism to use [disabled, import, subprocess]. (default: disabled)

(environment variable: `PIP_KEYRING_PROVIDER`)

--proxy <proxy>

Specify a proxy in the form scheme://[user:passwd@]proxy.server:port.

(environment variable: `PIP_PROXY`)

--retries <retries>

Maximum number of retries each connection should attempt (default 5 times).

(environment variable: `PIP_RETRIES`)

--timeout <sec>

Set the socket timeout (default 15 seconds).

(environment variable: `PIP_TIMEOUT` , `PIP_DEFAULT_TIMEOUT`)

--exists-action <action>

Default action when a path already exists: (s)witch, (i)gnore, (w)ipe, (b)ackup, (a)bort.

(environment variable: `PIP_EXISTS_ACTION`)

--trusted-host <hostname>

Mark this host or host:port pair as trusted, even though it does not have valid or any HTTPS.

(environment variable: `PIP_TRUSTED_HOST`)

--cert <path>

Path to PEM-encoded CA certificate bundle. If provided, overrides the default. See 'SSL Certificate Verification' in pip documentation for more information.

(environment variable: `PIP_CERT`)

--client-cert <path>

Path to SSL client certificate, a single file containing the private key and the certificate in PEM format.

[Skip to content](#) variable: `PIP_CLIENT_CERT`)

--cache-dir <dir>

Store the cache data in <dir>.

(environment variable: `PIP_CACHE_DIR`)

--no-cache-dir

Disable the cache.

(environment variable: `PIP_NO_CACHE_DIR`)

--disable-pip-version-check

Don't periodically check PyPI to determine whether a new version of pip is available for download. Implied with --no-index.

(environment variable: `PIP_DISABLE_PIP_VERSION_CHECK`)

--no-color

Suppress colored output.

(environment variable: `PIP_NO_COLOR`)

--no-python-version-warning

Silence deprecation warnings for upcoming unsupported Pythons.

(environment variable: `PIP_NO_PYTHON_VERSION_WARNING`)

--use-feature <feature>

Enable new functionality, that may be backward incompatible.

(environment variable: `PIP_USE_FEATURE`)

--use-deprecated <feature>

Enable deprecated functionality, that will be removed in the future.

(environment variable: `PIP_USE_DEPRECATED`)