

Skip to main content

__Back to top

__ `Ctrl` + `K`

[![conda 25.1.2.dev29 documentation -
Home](../../../../_static/conda_logo_full.svg)
(../../../../index.html)

- * [Conda](https://docs.conda.io/projects/conda/)
- * [Conda-build](https://docs.conda.io/projects/conda-build)
- * [Miniconda](https://docs.anaconda.com/free/miniconda/)
- * conda.org

- * [__ GitHub](https://github.com/conda/conda "GitHub")
- * [![Element](../../../../_static/element_logo.svg)](http://bit.ly/conda-chat-room "Element")
- * [__ Discourse](https://conda.discourse.group/ "Discourse")

- * [Conda](https://docs.conda.io/projects/conda/)
- * [Conda-build](https://docs.conda.io/projects/conda-build)
- * [Miniconda](https://docs.anaconda.com/free/miniconda/)
- * conda.org

- * [__ GitHub](https://github.com/conda/conda "GitHub")
- * [![Element](../../../../_static/element_logo.svg)](http://bit.ly/conda-chat-room "Element")
- * [__ Discourse](https://conda.discourse.group/ "Discourse")

Navigation

- * [User guide](../user-guide/index.html) __
- * [Getting started with conda](../user-guide/getting-started.html)
- * [Installing conda](../user-guide/install/index.html) __
- * [Installing on Windows](../user-guide/install/windows.html)
- * [Installing on macOS](../user-guide/install/macos.html)
- * [Installing on Linux](../user-guide/install/linux.html)
- * [RPM and Debian Repositories for Miniconda](../user-guide/install/rpm-debian.html)
- * [Tasks](../user-guide/tasks/index.html) __
- * [Managing conda](../user-guide/tasks/manage-conda.html)
- * [Managing environments](../user-guide/tasks/manage-environments.html)
- * [Managing channels](../user-guide/tasks/manage-channels.html)
- * [Managing packages](../user-guide/tasks/manage-pkgs.html)
- * [Managing Python](../user-guide/tasks/manage-python.html)
- * [Managing virtual packages](../user-guide/tasks/manage-virtual.html)
- * [Creating custom channels](../user-guide/tasks/create-custom-channels.html)
- * [Creating projects](../user-guide/tasks/creating-projects.html)
- * [Viewing command-line help](../user-guide/tasks/view-command-line-help.html)
- * [Configuration](../user-guide/configuration/index.html) __
- * [Using the .condarc conda configuration file](../user-guide/configuration/use-condarc.html)
- * [Settings](../user-guide/configuration/settings.html)
- * [Administering a multi-user conda installation](../user-guide/configuration/admin-multi-user-install.html)
- * [Mirroring channels](../user-guide/configuration/mirroring.html)

- * [Disabling SSL verification](../../../../../user-guide/configuration/disable-ssl-verification.html)
- * [Using non-standard certificates](../../../../../user-guide/configuration/non-standard-certs.html)
 - * [Using Custom Locations for Environment and Package Cache](../../../../../user-guide/configuration/custom-env-and-pkg-locations.html)
 - * [Improving interoperability with pip](../../../../../user-guide/configuration/pip-interoperability.html)
- * [Using the free channel](../../../../../user-guide/configuration/free-channel.html)
- * [Concepts](../../../../../user-guide/concepts/index.html) __
 - * [Commands](../../../../../user-guide/concepts/conda-commands.html)
 - * [Packages](../../../../../user-guide/concepts/packages.html)
 - * [Package specification](../../../../../user-guide/concepts/pkg-specs.html)
 - * [Package search and install specifications](../../../../../user-guide/concepts/pkg-search.html)
 - * [Channels](../../../../../user-guide/concepts/channels.html)
 - * [Environments](../../../../../user-guide/concepts/environments.html)
 - * [Installing with conda](../../../../../user-guide/concepts/installing-with-conda.html)
 - * [Performance](../../../../../user-guide/concepts/conda-performance.html)
 - * [Conda for data scientists](../../../../../user-guide/concepts/data-science.html)
 - * [Plugins](../../../../../user-guide/concepts/conda-plugins.html)
- * [Troubleshooting](../../../../../user-guide/troubleshooting.html)
- * [Cheatsheet](../../../../../user-guide/cheatsheet.html)
- * [Configuration](../../../../../configuration.html)
- * [Commands](../../../../../commands/index.html) __
 - * [``conda clean``](../../../../../commands/clean.html)
 - * [``conda compare``](../../../../../commands/compare.html)
 - * [``conda config``](../../../../../commands/config.html)
 - * [``conda create``](../../../../../commands/create.html)
 - * [``conda doctor``](../../../../../commands/doctor.html)

- * [`conda env`](../.../commands/env/index.html) __
- * [`conda env config`](../.../commands/env/config/index.html) __
- * [`conda env config vars`](../.../commands/env/config/vars/index.html) __
- * [`conda env config vars list`](../.../commands/env/config/vars/list.html)
- * [`conda env config vars set`](../.../commands/env/config/vars/set.html)
- * [`conda env config vars unset`](../.../commands/env/config/vars/unset.html)
- * [`conda env create`](../.../commands/env/create.html)
- * [`conda env export`](../.../commands/env/export.html)
- * [`conda env list`](../.../commands/env/list.html)
- * [`conda env remove`](../.../commands/env/remove.html)
- * [`conda env update`](../.../commands/env/update.html)
- * [`conda info`](../.../commands/info.html)
- * [`conda init`](../.../commands/init.html)
- * [`conda install`](../.../commands/install.html)
- * [`conda list`](../.../commands/list.html)
- * [`conda notices`](../.../commands/notices.html)
- * [`conda package`](../.../commands/package.html)
- * [`conda remove`](../.../commands/remove.html)
- * [`conda rename`](../.../commands/rename.html)
- * [`conda run`](../.../commands/run.html)
- * [`conda search`](../.../commands/search.html)
- * [`conda update`](../.../commands/update.html)
- * [Release notes](../.../release-notes.html)
- * [Glossary](../.../glossary.html)
- * [Developer guide](../.../index.html) __
- * [Architecture](../.../architecture.html)
- * [Contributing to conda](../.../contributing.html)

- * [Development Environment](../../development-environment.html)
- * [Deep dives](../../deep-dives/index.html) __
 - * [`conda install`](../../deep-dives/install.html)
 - * [`conda init` and `conda activate`](../../deep-dives/activation.html)
 - * [`conda config` and context](../../deep-dives/context.html)
 - * [Solvers](../../deep-dives/solvers.html)
 - * [Logging](../../deep-dives/logging.html)
- * [Writing Tests](../../writing-tests/index.html) __
 - * [Integration Tests](../../writing-tests/integration-tests.html)
- * [Deprecations](../../deprecations.html)
- * [Releasing](../../releasing.html)
- * [Plugins](../../plugins/index.html) __
 - * [Auth Handlers](../../plugins/auth_handlers.html)
 - * [Health Checks](../../plugins/health_checks.html)
 - * [Request Headers](../../plugins/request_headers.html)
 - * [Post-commands](../../plugins/post_commands.html)
 - * [Pre-commands](../../plugins/pre_commands.html)
 - * [Reporter Backends](../../plugins/reporter_backends.html)
 - * [Settings](../../plugins/settings.html)
 - * [Solvers](../../plugins/solvers.html)
 - * [Subcommands](../../plugins/subcommands.html)
 - * [Virtual Packages](../../plugins/virtual_packages.html)
- * [Specifications](../../specs/index.html) __
 - * [Technical specification: solver state](../../specs/solver-state.html)
- * [API](../../api.html) __
 - * [`conda`](../../index.html) __
 - * [`__main__`](../../__main__/index.html)

- * [`_vendor``](../../_vendor/index.html) __
- * [`frozendict``](../../_vendor/frozendict/index.html)
- * [`_version``](../../_version/index.html)
- * [`activate``](../../activate/index.html)
- * [`api``](../../api/index.html)
- * [`auxlib``](../../auxlib/index.html) __
- * [`collection``](../../auxlib/collection/index.html)
- * [`compat``](../../auxlib/compat/index.html)
- * [`decorators``](../../auxlib/decorators/index.html)
- * [`entity``](../../auxlib/entity/index.html)
- * [`exceptions``](../../auxlib/exceptions/index.html)
- * [`ish``](../../auxlib/ish/index.html)
- * [`logz``](../../auxlib/logz/index.html)
- * [`type_coercion``](../../auxlib/type_coercion/index.html)
- * [`base``](../../base/index.html) __
- * [`constants``](../../base/constants/index.html)
- * [`context``](../../base/context/index.html)
- * [`cli``](../../cli/index.html) __
- * [`actions``](../../cli/actions/index.html)
- * [`common``](../../cli/common/index.html)
- * [`conda_argparse``](../../cli/conda_argparse/index.html)
- * [`find_commands``](../../cli/find_commands/index.html)
- * [`helpers``](../../cli/helpers/index.html)
- * [`install``](../../cli/install/index.html)
- * [`main``](../../cli/main/index.html)
- * [`main_clean``](../../cli/main_clean/index.html)
- * [`main_commands``](../../cli/main_commands/index.html)

- * [main_compare](../../cli/main_compare/index.html)
- * [main_config](../../cli/main_config/index.html)
- * [main_create](../../cli/main_create/index.html)
- * [main_env](../../cli/main_env/index.html)
- * [main_env_config](../../cli/main_env_config/index.html)
- * [main_env_create](../../cli/main_env_create/index.html)
- * [main_env_export](../../cli/main_env_export/index.html)
- * [main_env_list](../../cli/main_env_list/index.html)
- * [main_env_remove](../../cli/main_env_remove/index.html)
- * [main_env_update](../../cli/main_env_update/index.html)
- * [main_env_vars](../../cli/main_env_vars/index.html)
- * [main_export](../../cli/main_export/index.html)
- * [main_info](../../cli/main_info/index.html)
- * [main_init](../../cli/main_init/index.html)
- * [main_install](../../cli/main_install/index.html)
- * [main_list](../../cli/main_list/index.html)
- * [main_mock_activate](../../cli/main_mock_activate/index.html)
- * [main_mock_deactivate](../../cli/main_mock_deactivate/index.html)
- * [main_notices](../../cli/main_notices/index.html)
- * [main_package](../../cli/main_package/index.html)
- * [main_pip](../../cli/main_pip/index.html)
- * [main_remove](../../cli/main_remove/index.html)
- * [main_rename](../../cli/main_rename/index.html)
- * [main_run](../../cli/main_run/index.html)
- * [main_search](../../cli/main_search/index.html)
- * [main_update](../../cli/main_update/index.html)
- * [python_api](../../cli/python_api/index.html)

- * [`common`](../../common/index.html) __
- * [`_logic`](../../common/_logic/index.html)
- * [`_os`](../../common/_os/index.html) __
- * [`linux`](../../common/_os/linux/index.html)
- * [`osx`](../../common/_os/osx/index.html)
- * [`unix`](../../common/_os/unix/index.html)
- * [`windows`](../../common/_os/windows/index.html)
- * [`compat`](../../common/compat/index.html)
- * [`configuration`](../../common/configuration/index.html)
- * [`constants`](../../common/constants/index.html)
- * [`disk`](../../common/disk/index.html)
- * [`io`](../../common/io/index.html)
- * [`iterators`](../../common/iterators/index.html)
- * [`logic`](../../common/logic/index.html)
- * [`path`](../../common/path/index.html) __
- * [`_cygpath`](../../common/path/_cygpath/index.html)
- * [`directories`](../../common/path/directories/index.html)
- * [`python`](../../common/path/python/index.html)
- * [`windows`](../../common/path/windows/index.html)
- * [`pkg_formats`](../../common/pkg_formats/index.html) __
- * [`python`](../../common/pkg_formats/python/index.html)
- * [`serialize`](../../common/serialize/index.html)
- * [`signals`](../../common/signals/index.html)
- * [`toposort`](../../common/toposort/index.html)
- * [`url`](../../common/url/index.html)
- * [`core`](../../core/index.html) __
- * [`envs_manager`](../../core/envs_manager/index.html)

- * [index`](../../core/index/index.html)
- * [initialize`](../../core/initialize/index.html)
- * [link`](../../core/link/index.html)
- * [package_cache_data`](../../core/package_cache_data/index.html)
- * [path_actions`](../../core/path_actions/index.html)
- * [portability`](../../core/portability/index.html)
- * [prefix_data`](../../core/prefix_data/index.html)
- * [solve`](../../core/solve/index.html)
- * [subdir_data`](../../core/subdir_data/index.html)
- * [deprecations`](../../deprecations/index.html)
- * [env`](../../env/index.html) __
- * [env`](../../env/env/index.html)
- * [installers`](../../env/installers/index.html) __
- * [base`](../../env/installers/base/index.html)
- * [conda`](../../env/installers/conda/index.html)
- * [pip`](../../env/installers/pip/index.html)
- * [pip_util`](../../env/pip_util/index.html)
- * [specs`](../../env/specs/index.html) __
- * [binstar`](../../env/specs/binstar/index.html)
- * [requirements`](../../env/specs/requirements/index.html)
- * [yaml_file`](../../env/specs/yaml_file/index.html)
- * [exception_handler`](../../exception_handler/index.html)
- * [exceptions`](../../exceptions/index.html)
- * [exports`](../../exports/index.html)
- * [gateways`](../../index.html) __
- * [anaconda_client`](../../anaconda_client/index.html)
- * [connection`](../../connection/index.html) __

- * [` adapters`](../../connection/adapters/index.html) ____
- * [` ftp`](../../connection/adapters/ftp/index.html)
- * [` http`](../../connection/adapters/http/index.html)
- * [` localfs`](../../connection/adapters/localfs/index.html)
- * [` s3`](../../connection/adapters/s3/index.html)
- * [` download`](../../connection/download/index.html)
- * [` session`](../../connection/session/index.html)
- * [` disk`](../index.html) ____
- * [` create`](../create/index.html)
- * [` delete`](../delete/index.html)
- * [` link`](../link/index.html)
- * [` lock`](../lock/index.html)
- * `permissions`
- * [` read`](../read/index.html)
- * [` test`](../test/index.html)
- * [` update`](../update/index.html)
- * [` logging`](../../logging/index.html)
- * [` repodata`](../../repodata/index.html) ____
- * [` jlap`](../../repodata/jlap/index.html) ____
 - * [` core`](../../repodata/jlap/core/index.html)
 - * [` fetch`](../../repodata/jlap/fetch/index.html)
 - * [` interface`](../../repodata/jlap/interface/index.html)
 - * [` lock`](../../repodata/lock/index.html)
- * [` subprocess`](../../subprocess/index.html)
- * [` history`](../../history/index.html)
- * [` instructions`](../../instructions/index.html)
- * [` misc`](../../misc/index.html)

- * [`models``](../../models/index.html) __
- * [`channel``](../../models/channel/index.html)
- * [`dist``](../../models/dist/index.html)
- * [`enums``](../../models/enums/index.html)
- * [`leased_path_entry``](../../models/leased_path_entry/index.html)
- * [`match_spec``](../../models/match_spec/index.html)
- * [`package_info``](../../models/package_info/index.html)
- * [`prefix_graph``](../../models/prefix_graph/index.html)
- * [`records``](../../models/records/index.html)
- * [`version``](../../models/version/index.html)
- * [`notices``](../../notices/index.html) __
- * [`cache``](../../notices/cache/index.html)
- * [`core``](../../notices/core/index.html)
- * [`fetch``](../../notices/fetch/index.html)
- * [`types``](../../notices/types/index.html)
- * [`views``](../../notices/views/index.html)
- * [`plan``](../../plan/index.html)
- * [`plugins``](../../plugins/index.html) __
- * [`hookspec``](../../plugins/hookspec/index.html)
- * [`manager``](../../plugins/manager/index.html)
- * [`post_solves``](../../plugins/post_solves/index.html) __
- * [`signature_verification``](../../plugins/post_solves/signature_verification/index.html)
- * [`reporter_backends``](../../plugins/reporter_backends/index.html) __
- * [`console``](../../plugins/reporter_backends/console/index.html)
- * [`json``](../../plugins/reporter_backends/json/index.html)
- * [`solvers``](../../plugins/solvers/index.html)
- * [`subcommands``](../../plugins/subcommands/index.html) __

- * [doctor](../../plugins/subcommands/doctor/index.html) __
- * [health_checks](../../plugins/subcommands/doctor/health_checks/index.html)
- * [types](../../plugins/types/index.html)
- * [virtual_packages](../../plugins/virtual_packages/index.html) __
- * [archspec](../../plugins/virtual_packages/archspec/index.html)
- * [conda](../../plugins/virtual_packages/conda/index.html)
- * [cuda](../../plugins/virtual_packages/cuda/index.html)
- * [freebsd](../../plugins/virtual_packages/freebsd/index.html)
- * [linux](../../plugins/virtual_packages/linux/index.html)
- * [osx](../../plugins/virtual_packages/osx/index.html)
- * [windows](../../plugins/virtual_packages/windows/index.html)
- * [reporters](../../reporters/index.html)
- * [resolve](../../resolve/index.html)
- * [testing](../../testing/index.html) __
- * [cases](../../testing/cases/index.html)
- * [fixtures](../../testing/fixtures/index.html)
- * [gateways](../../testing/gateways/index.html) __
- * [fixtures](../../testing/gateways/fixtures/index.html)
- * [helpers](../../testing/helpers/index.html)
- * [integration](../../testing/integration/index.html)
- * [notices](../../testing/notices/index.html) __
- * [fixtures](../../testing/notices/fixtures/index.html)
- * [helpers](../../testing/notices/helpers/index.html)
- * [solver_helpers](../../testing/solver_helpers/index.html)
- * [trust](../../trust/index.html) __
- * [constants](../../trust/constants/index.html)
- * [signature_verification](../../trust/signature_verification/index.html)

* [`utils`](../../utils/index.html)

* [`conda_env`](../../conda_env/index.html) __

* [`cli`](../../conda_env/cli/index.html)

* [`installers`](../../conda_env/installers/index.html)

* [__](../../index.html)

* [Developer guide](../../index.html)

* __

* [`disk`](../index.html)

*

`permissions`#

Disk utility functions for modifying file and directory permissions.

Functions#

`make_writable` (path) |

---|---

`make_read_only` (path) |

`recursive_make_writable` (path[, max_tries]) |

`make_executable` (path) |

`is_executable` (path) |

make_writable(_path_)#

`make_read_only(_path_)`#

`recursive_make_writable(_path_ , _max_tries =MAX_TRIES_)`#

`make_executable(_path_)`#

`is_executable(_path_)`#

__On this page

* Functions

* ``make_writable()``

* ``make_read_only()``

* ``recursive_make_writable()``

* ``make_executable()``

* ``is_executable()``

[__Edit on GitHub](<https://github.com/conda/conda/edit/main/docs/source/dev->

[guide/api/conda/gateways/disk/permissions/index.rst](#))

[[__Show Source](#)](../../../../../../_sources/dev-

[guide/api/conda/gateways/disk/permissions/index.rst.txt](#))

© Copyright 2017, Anaconda, Inc.

Created using [\[Sphinx\]\(https://www.sphinx-doc.org/\)](#) 7.4.7.

[[Analytics Dashboard __](#)](https://docs-conda-io.goatcounter.com "Analytics Dashboard")

Built with the [\[PyData Sphinx Theme\]\(https://pydata-sphinx-theme.readthedocs.io/en/stable/index.html\)](#) 0.15.4.