

[Skip to main content](#)

[__Back to top](#)

[__`Ctrl`+`K`](#)

[[!conda 25.1.2.dev29 documentation -](#)

[Home\]\(../../../../_static/conda_logo_full.svg\) \]\(../../../../index.html\)](#)

* [\[Conda\]\(https://docs.conda.io/projects/conda/\)](#)

* [\[Conda-build\]\(https://docs.conda.io/projects/conda-build\)](#)

* [\[Miniconda\]\(https://docs.anaconda.com/free/miniconda/\)](#)

* [\[conda.org\]\(https://conda.org\)](#)

* [\[__ GitHub\]\(https://github.com/conda/conda "GitHub"\)](#)

* [\[!\[Element\]\(../../../../_static/element_logo.svg\)\]\(http://bit.ly/conda-chat-room "Element"\)](#)

* [\[__ Discourse\]\(https://conda.discourse.group/ "Discourse"\)](#)

* [\[Conda\]\(https://docs.conda.io/projects/conda/\)](#)

* [\[Conda-build\]\(https://docs.conda.io/projects/conda-build\)](#)

* [\[Miniconda\]\(https://docs.anaconda.com/free/miniconda/\)](#)

* [\[conda.org\]\(https://conda.org\)](#)

* [\[__ GitHub\]\(https://github.com/conda/conda "GitHub"\)](#)

* [\[!\[Element\]\(../../../../_static/element_logo.svg\)\]\(http://bit.ly/conda-chat-room "Element"\)](#)

* [\[__ Discourse\]\(https://conda.discourse.group/ "Discourse"\)](#)

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

- * [`_os``](../_os/index.html) __
- * [`linux``](../_os/linux/index.html)
- * [`osx``](../_os/osx/index.html)
- * [`unix``](../_os/unix/index.html)
- * [`windows``](../_os/windows/index.html)
- * [`compat``](../compat/index.html)
- * [`configuration``](../configuration/index.html)
- * [`constants``](../constants/index.html)
- * [`disk``](../disk/index.html)
- * [`io``](../io/index.html)
- * [`iterators``](../iterators/index.html)
- * [`logic``](../logic/index.html)
- * [`path``](../path/index.html) __
- * [`_cygpath``](../path/_cygpath/index.html)
- * [`directories``](../path/directories/index.html)
- * [`python``](../path/python/index.html)
- * [`windows``](../path/windows/index.html)
- * [`pkg_formats``](../pkg_formats/index.html) __
- * [`python``](../pkg_formats/python/index.html)
- * `serialize``
- * [`signals``](../signals/index.html)
- * [`toposort``](../toposort/index.html)
- * [`url``](../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`](../../gateways/index.html) ____
- * [anaconda_client`](../../gateways/anaconda_client/index.html)
- * [connection`](../../gateways/connection/index.html) ____
- * [adapters`](../../gateways/connection/adapters/index.html) ____
- * [ftp`](../../gateways/connection/adapters/ftp/index.html)

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

* `__`

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

*

``serialize``

YAML and JSON serialization and deserialization functions.

Functions#

``_yaml_round_trip`()` |

---|---

``_yaml_safe`()` |

``yaml_round_trip_load`()` (string) |

``yaml_safe_load`()` (string) |

``yaml_round_trip_dump`()` (object[, stream]) | Dump object to string or stream.

``yaml_safe_dump`()` (object[, stream]) | Dump object to string or stream.

``json_load`()` (string) |

``json_dump`()` (object) |

`_yaml_round_trip`()` #

`_yaml_safe()#`

`yaml_round_trip_load(_string_)#`

`yaml_safe_load(_string_)#`

Examples

```
>>> yaml_safe_load("key: value")
```

```
{'key': 'value'}
```

`yaml_round_trip_dump(_object_ , _stream =None_)#`

Dump object to string or stream.

`yaml_safe_dump(_object_ , _stream =None_)`#

Dump object to string or stream.

`json_load(_string_)`#

`json_dump(_object_)`#

__On this page

* Functions

* ``_yaml_round_trip()``

* ``_yaml_safe()``

* ``yaml_round_trip_load()``

* ``yaml_safe_load()``

* ``yaml_round_trip_dump()``

* ``yaml_safe_dump()``

* ``json_load()``

* ``json_dump()``

[__Edit on GitHub](https://github.com/conda/conda/edit/main/docs/source/dev-guide/api/conda/common/serialize/index.rst)

[__Show Source](../../../../_sources/dev-guide/api/conda/common/serialize/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.