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")

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

Package

Cache](../configuration/custom-env-and-pkg-locations.html) * [Improving interoperability with pip](../configuration/pip-interoperability.html) * [Using the free channel](../configuration/free-channel.html) * [Concepts](../concepts/index.html) * [Commands](../concepts/conda-commands.html) * [Packages](../concepts/packages.html) * [Package specification](../concepts/pkg-specs.html) * [Package search and install specifications](../concepts/pkg-search.html) * [Channels](../concepts/channels.html) * [Environments](../concepts/environments.html) * [Installing with conda](../concepts/installing-with-conda.html) * [Performance](../concepts/conda-performance.html) * [Conda for data scientists](../concepts/data-science.html) * [Plugins](../concepts/conda-plugins.html) * [Troubleshooting](../troubleshooting.html) * [Cheatsheet](../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](../../dev-guide/index.html) ___ * [Architecture](../../dev-guide/architecture.html) * [Contributing to conda](../../dev-guide/contributing.html) * [Development Environment](../../dev-guide/development-environment.html) * [Deep dives](../../dev-guide/deep-dives/index.html) ___ * [` conda install`](../../dev-quide/deep-dives/install.html) * [`conda init` and `conda activate`](../../dev-guide/deep-dives/activation.html)

```
* [`conda config` and context](../../dev-guide/deep-dives/context.html)
 * [Solvers](../../dev-guide/deep-dives/solvers.html)
 * [Logging](../../dev-guide/deep-dives/logging.html)
* [Writing Tests](../../dev-guide/writing-tests/index.html)
 * [Integration Tests](../../dev-guide/writing-tests/integration-tests.html)
* [Deprecations](../../dev-guide/deprecations.html)
* [Releasing](../../dev-guide/releasing.html)
* [Plugins](../../dev-guide/plugins/index.html)
 * [Auth Handlers](../../dev-guide/plugins/auth handlers.html)
 * [Health Checks](../../dev-guide/plugins/health_checks.html)
 * [Request Headers](../../dev-guide/plugins/request headers.html)
 * [Post-commands](../../dev-guide/plugins/post_commands.html)
 * [Pre-commands](../../dev-guide/plugins/pre_commands.html)
 * [Reporter Backends](../../dev-guide/plugins/reporter_backends.html)
 * [Settings](../../dev-guide/plugins/settings.html)
 * [Solvers](../../dev-guide/plugins/solvers.html)
 * [Subcommands](../../dev-guide/plugins/subcommands.html)
 * [Virtual Packages](../../dev-guide/plugins/virtual packages.html)
* [Specifications](../../dev-quide/specs/index.html)
 * [Technical specification: solver state](../../dev-guide/specs/solver-state.html)
* [API](../../dev-guide/api.html)
 * [` conda`](../../dev-guide/api/conda/index.html) ___
  * [` __main__`](../../dev-guide/api/conda/__main__/index.html)
  * [`_vendor`](../../dev-guide/api/conda/_vendor/index.html) ___
   * [`frozendict`](../../dev-guide/api/conda/ vendor/frozendict/index.html)
  * [`version`](../../dev-guide/api/conda/version/index.html)
  * [`activate`](../../dev-guide/api/conda/activate/index.html)
```

- * [`api`](../../dev-guide/api/conda/api/index.html) * [`auxlib`](../../dev-guide/api/conda/auxlib/index.html) ___ * [`collection`](../../dev-guide/api/conda/auxlib/collection/index.html) * [`compat`](../../dev-guide/api/conda/auxlib/compat/index.html) * [`decorators`](../../dev-guide/api/conda/auxlib/decorators/index.html) * [`entity`](../../dev-guide/api/conda/auxlib/entity/index.html) * [`exceptions`](../../dev-guide/api/conda/auxlib/exceptions/index.html) * [`ish`](../../dev-guide/api/conda/auxlib/ish/index.html) * [`logz`](../../dev-guide/api/conda/auxlib/logz/index.html) * [`type_coercion`](../../dev-guide/api/conda/auxlib/type_coercion/index.html) * [`base`](../../dev-guide/api/conda/base/index.html) ___ * [` constants`](../../dev-guide/api/conda/base/constants/index.html) * [`context`](../../dev-quide/api/conda/base/context/index.html) * [`cli`](../../dev-guide/api/conda/cli/index.html) ___ * [`actions`](../../dev-guide/api/conda/cli/actions/index.html) * [`common`](../../dev-guide/api/conda/cli/common/index.html) * [`conda_argparse`](../../dev-guide/api/conda/cli/conda_argparse/index.html) * [`find_commands`](../../dev-guide/api/conda/cli/find_commands/index.html) * [`helpers`](../../dev-quide/api/conda/cli/helpers/index.html) * [`install`](../../dev-guide/api/conda/cli/install/index.html) * [`main`](../../dev-guide/api/conda/cli/main/index.html) * [`main_clean`](../../dev-guide/api/conda/cli/main_clean/index.html) * [`main_commands`](../../dev-guide/api/conda/cli/main_commands/index.html) * [`main_compare`](../../dev-guide/api/conda/cli/main_compare/index.html) * [`main_config`](../../dev-guide/api/conda/cli/main_config/index.html)
- * [`main_env`](../../dev-guide/api/conda/cli/main_env/index.html)

* [`main create`](../../dev-guide/api/conda/cli/main create/index.html)

- * [`main_env_config`](../../dev-guide/api/conda/cli/main_env_config/index.html)
- * [`main_env_create`](../../dev-guide/api/conda/cli/main_env_create/index.html)
- * [`main_env_export`](../../dev-guide/api/conda/cli/main_env_export/index.html)
- * [`main_env_list`](../../dev-guide/api/conda/cli/main_env_list/index.html)
- * [`main_env_remove`](../../dev-guide/api/conda/cli/main_env_remove/index.html)
- * [`main_env_update`](../../dev-guide/api/conda/cli/main_env_update/index.html)
- * [`main_env_vars`](../../dev-guide/api/conda/cli/main_env_vars/index.html)
- * [`main_export`](../../dev-guide/api/conda/cli/main_export/index.html)
- * [`main info`](../../dev-guide/api/conda/cli/main info/index.html)
- * [`main_init`](../../dev-guide/api/conda/cli/main_init/index.html)
- * [`main_install`](../../dev-guide/api/conda/cli/main_install/index.html)
- * [`main_list`](../../dev-guide/api/conda/cli/main_list/index.html)
- * [`main_mock_activate`](../../dev-guide/api/conda/cli/main_mock_activate/index.html)
- * [`main_mock_deactivate`](../../dev-guide/api/conda/cli/main_mock_deactivate/index.html)
- * [`main_notices`](../../dev-guide/api/conda/cli/main_notices/index.html)
- * [`main_package`](../../dev-guide/api/conda/cli/main_package/index.html)
- * [`main_pip`](../../dev-guide/api/conda/cli/main_pip/index.html)
- * [`main remove`](../../dev-guide/api/conda/cli/main remove/index.html)
- * [`main_rename`](../../dev-guide/api/conda/cli/main_rename/index.html)
- * [`main run`](../../dev-guide/api/conda/cli/main run/index.html)
- * [`main_search`](../../dev-guide/api/conda/cli/main_search/index.html)
- * [`main_update`](../../dev-guide/api/conda/cli/main_update/index.html)
- * [`python_api`](../../dev-guide/api/conda/cli/python_api/index.html)
- * [`common`](../../dev-guide/api/conda/common/index.html) ___
 - * [`_logic`](../../dev-guide/api/conda/common/_logic/index.html)
 - * [`_os`](../../dev-guide/api/conda/common/_os/index.html) ___
 - * [`linux`](../../dev-guide/api/conda/common/_os/linux/index.html)

- * [`osx`](../../dev-guide/api/conda/common/_os/osx/index.html)
- * [`unix`](../../dev-guide/api/conda/common/_os/unix/index.html)
- * [`windows`](../../dev-guide/api/conda/common/_os/windows/index.html)
- * [`compat`](../../dev-guide/api/conda/common/compat/index.html)
- * [`configuration`](../../dev-guide/api/conda/common/configuration/index.html)
- * [`constants`](../../dev-guide/api/conda/common/constants/index.html)
- * [`disk`](../../dev-guide/api/conda/common/disk/index.html)
- * [`io`](../../dev-guide/api/conda/common/io/index.html)
- * [`iterators`](../../dev-guide/api/conda/common/iterators/index.html)
- * [`logic`](../../dev-guide/api/conda/common/logic/index.html)
- * [`path`](../../dev-guide/api/conda/common/path/index.html) ___
 - * [`_cygpath`](../../dev-guide/api/conda/common/path/_cygpath/index.html)
 - * [`directories`](../../dev-guide/api/conda/common/path/directories/index.html)
 - * [`python`](../../dev-guide/api/conda/common/path/python/index.html)
 - * [`windows`](../../dev-guide/api/conda/common/path/windows/index.html)
- * [`pkg_formats`](../../dev-guide/api/conda/common/pkg_formats/index.html) ___
 - * [` python`](../../dev-guide/api/conda/common/pkg_formats/python/index.html)
- * [`serialize`](../../dev-guide/api/conda/common/serialize/index.html)
- * [`signals`](../../dev-quide/api/conda/common/signals/index.html)
- * [`toposort`](../../dev-guide/api/conda/common/toposort/index.html)
- * [`url`](../../dev-guide/api/conda/common/url/index.html)
- * [`core`](../../dev-guide/api/conda/core/index.html) ___
 - * [` envs_manager`](../../dev-guide/api/conda/core/envs_manager/index.html)
 - * [`index`](../../dev-guide/api/conda/core/index/index.html)
 - * [`initialize`](../../dev-guide/api/conda/core/initialize/index.html)
 - * [`link`](../../dev-quide/api/conda/core/link/index.html)
- * [`package_cache_data`](../../dev-guide/api/conda/core/package_cache_data/index.html)

```
* [`path_actions`](../../dev-guide/api/conda/core/path_actions/index.html)
 * [`portability`](../../dev-guide/api/conda/core/portability/index.html)
 * [`prefix_data`](../../dev-guide/api/conda/core/prefix_data/index.html)
 * [`solve`](../../dev-guide/api/conda/core/solve/index.html)
 * [`subdir_data`](../../dev-guide/api/conda/core/subdir_data/index.html)
* [`deprecations`](../../dev-guide/api/conda/deprecations/index.html)
* [`env`](../../dev-guide/api/conda/env/index.html) ___
 * [`env`](../../dev-guide/api/conda/env/env/index.html)
 * [`installers`](../../dev-guide/api/conda/env/installers/index.html)
  * [`base`](../../dev-guide/api/conda/env/installers/base/index.html)
  * [`conda`](../../dev-guide/api/conda/env/installers/conda/index.html)
  * [`pip`](../../dev-guide/api/conda/env/installers/pip/index.html)
 * [`pip_util`](../../dev-guide/api/conda/env/pip_util/index.html)
 * [`specs`](../../dev-guide/api/conda/env/specs/index.html) ___
  * [`binstar`](../../dev-guide/api/conda/env/specs/binstar/index.html)
  * [`requirements`](../../dev-guide/api/conda/env/specs/requirements/index.html)
  * [`yaml_file`](../../dev-guide/api/conda/env/specs/yaml_file/index.html)
* [`exception_handler`](../../dev-guide/api/conda/exception_handler/index.html)
* [`exceptions`](../../dev-guide/api/conda/exceptions/index.html)
* [`exports`](../../dev-guide/api/conda/exports/index.html)
* [`gateways`](../../dev-guide/api/conda/gateways/index.html) ___
 * [` anaconda_client`](../../dev-guide/api/conda/gateways/anaconda_client/index.html)
 * [`connection`](../../dev-guide/api/conda/gateways/connection/index.html) ___
  * [`adapters`](../../dev-guide/api/conda/gateways/connection/adapters/index.html) ___
   * [`ftp`](../../dev-guide/api/conda/gateways/connection/adapters/ftp/index.html)
   * [`http`](../../dev-guide/api/conda/gateways/connection/adapters/http/index.html)
   * [`localfs`](../../dev-guide/api/conda/gateways/connection/adapters/localfs/index.html)
```

```
* [`s3`](../../dev-guide/api/conda/gateways/connection/adapters/s3/index.html)
  * [`download`](../../dev-guide/api/conda/gateways/connection/download/index.html)
  * [`session`](../../dev-guide/api/conda/gateways/connection/session/index.html)
 * [`disk`](../../dev-guide/api/conda/gateways/disk/index.html)
  * [` create`](../../dev-guide/api/conda/gateways/disk/create/index.html)
  * [`delete`](../../dev-guide/api/conda/gateways/disk/delete/index.html)
  * [`link`](../../dev-guide/api/conda/gateways/disk/link/index.html)
  * [`lock`](../../dev-guide/api/conda/gateways/disk/lock/index.html)
  * [`permissions`](../../dev-guide/api/conda/gateways/disk/permissions/index.html)
  * [`read`](../../dev-guide/api/conda/gateways/disk/read/index.html)
  * [`test`](../../dev-guide/api/conda/gateways/disk/test/index.html)
  * [`update`](../../dev-guide/api/conda/gateways/disk/update/index.html)
 * [`logging`](../../dev-guide/api/conda/gateways/logging/index.html)
 * [`repodata`](../../dev-guide/api/conda/gateways/repodata/index.html) ___
  * [` jlap`](../../dev-guide/api/conda/gateways/repodata/jlap/index.html) ___
   * [`core`](../../dev-guide/api/conda/gateways/repodata/jlap/core/index.html)
   * [`fetch`](../../dev-guide/api/conda/gateways/repodata/jlap/fetch/index.html)
   * [`interface`](../../dev-guide/api/conda/gateways/repodata/jlap/interface/index.html)
  * [`lock`](../../dev-guide/api/conda/gateways/repodata/lock/index.html)
 * [`subprocess`](../../dev-guide/api/conda/gateways/subprocess/index.html)
* [`history`](../../dev-guide/api/conda/history/index.html)
* [`instructions`](../../dev-guide/api/conda/instructions/index.html)
* [`misc`](../../dev-guide/api/conda/misc/index.html)
* [`models`](../../dev-guide/api/conda/models/index.html) ___
 * [` channel`](../../dev-guide/api/conda/models/channel/index.html)
 * [`dist`](../../dev-quide/api/conda/models/dist/index.html)
 * [`enums`](../../dev-guide/api/conda/models/enums/index.html)
```

```
* [`leased_path_entry`](../../dev-guide/api/conda/models/leased_path_entry/index.html)
      * [`match_spec`](../../dev-guide/api/conda/models/match_spec/index.html)
      * [`package info`](../../dev-quide/api/conda/models/package info/index.html)
      * [`prefix graph`](../../dev-guide/api/conda/models/prefix graph/index.html)
      * [`records`](../../dev-guide/api/conda/models/records/index.html)
      * [`version`](../../dev-guide/api/conda/models/version/index.html)
     * [`notices`](../../dev-guide/api/conda/notices/index.html) ___
      * [`cache`](../../dev-guide/api/conda/notices/cache/index.html)
      * [`core`](../../dev-guide/api/conda/notices/core/index.html)
      * [`fetch`](../../dev-guide/api/conda/notices/fetch/index.html)
      * [`types`](../../dev-guide/api/conda/notices/types/index.html)
      * [`views`](../../dev-guide/api/conda/notices/views/index.html)
     * [`plan`](../../dev-guide/api/conda/plan/index.html)
     * [`plugins`](../../dev-guide/api/conda/plugins/index.html) ___
      * [` hookspec`](../../dev-guide/api/conda/plugins/hookspec/index.html)
      * [`manager`](../../dev-guide/api/conda/plugins/manager/index.html)
      * [`post_solves`](../../dev-guide/api/conda/plugins/post_solves/index.html) ___
                                                                                                     Į,
signature verification`](../../dev-guide/api/conda/plugins/post solves/signature verification/index.htm
      * [`reporter_backends`](../../dev-guide/api/conda/plugins/reporter_backends/index.html) ___
       * [`console`](../../dev-guide/api/conda/plugins/reporter_backends/console/index.html)
       * [`json`](../../dev-guide/api/conda/plugins/reporter_backends/json/index.html)
      * [`solvers`](../../dev-guide/api/conda/plugins/solvers/index.html)
      * [`subcommands`](../../dev-guide/api/conda/plugins/subcommands/index.html) ___
       * [`doctor`](../../dev-guide/api/conda/plugins/subcommands/doctor/index.html)
```

[`

I)

```
health_checks`](../../dev-guide/api/conda/plugins/subcommands/doctor/health_checks/index.html)
      * [`types`](../../dev-guide/api/conda/plugins/types/index.html)
      * [`virtual_packages`](../../dev-guide/api/conda/plugins/virtual_packages/index.html) ___
        * [`archspec`](../../dev-guide/api/conda/plugins/virtual_packages/archspec/index.html)
        * [`conda`](../../dev-guide/api/conda/plugins/virtual_packages/conda/index.html)
        * [`cuda`](../../dev-guide/api/conda/plugins/virtual_packages/cuda/index.html)
        * [`freebsd`](../../dev-guide/api/conda/plugins/virtual_packages/freebsd/index.html)
        * [`linux`](../../dev-guide/api/conda/plugins/virtual_packages/linux/index.html)
        * [`osx`](../../dev-quide/api/conda/plugins/virtual_packages/osx/index.html)
        * [`windows`](../../dev-guide/api/conda/plugins/virtual_packages/windows/index.html)
     * [`reporters`](../../dev-guide/api/conda/reporters/index.html)
     * [`resolve`](../../dev-guide/api/conda/resolve/index.html)
     * [`testing`](../../dev-guide/api/conda/testing/index.html) ___
      * [` cases`](../../dev-guide/api/conda/testing/cases/index.html)
      * [`fixtures`](../../dev-guide/api/conda/testing/fixtures/index.html)
      * [`gateways`](../../dev-guide/api/conda/testing/gateways/index.html) ___
        * [` fixtures`](../../dev-guide/api/conda/testing/gateways/fixtures/index.html)
      * [`helpers`](../../dev-guide/api/conda/testing/helpers/index.html)
      * [`integration`](../../dev-guide/api/conda/testing/integration/index.html)
      * [`notices`](../../dev-guide/api/conda/testing/notices/index.html) ___
        * [` fixtures`](../../dev-guide/api/conda/testing/notices/fixtures/index.html)
        * [`helpers`](../../dev-guide/api/conda/testing/notices/helpers/index.html)
      * [`solver_helpers`](../../dev-guide/api/conda/testing/solver_helpers/index.html)
     * [`trust`](../../dev-guide/api/conda/trust/index.html) ___
      * [` constants`](../../dev-guide/api/conda/trust/constants/index.html)
      * [`signature verification`](../../dev-guide/api/conda/trust/signature verification/index.html)
     * [`utils`](../../dev-guide/api/conda/utils/index.html)
```

- * [`conda_env`](../../dev-guide/api/conda_env/index.html) ___
 - * [`cli`](../../dev-guide/api/conda_env/cli/index.html)
 - * [`installers`](../../dev-guide/api/conda_env/installers/index.html)
- * [___](../../index.html)
- * [User guide](../index.html)
- * [Tasks](index.html)
- * Managing channels

Managing channels#

Conda channels are the locations where packages are stored. They serve as the base for hosting and managing packages. Conda packages are downloaded from remote channels, which are URLs to directories containing conda packages. The conda command searches a default set of channels and packages are automatically downloaded and updated from the [default channel](https://repo.anaconda.com/pkgs/). Read more about [conda channels](../concepts/channels.html) and the various terms of service for their use.

Different channels can have the same package, so conda must handle these channel collisions.

There will be no channel collisions if you use only the defaults channel.

There will also be no channel collisions if all of the channels you use only contain packages that do not exist in any of the other channels in your list.

The way conda resolves these collisions matters only when you have multiple

channels in your channel list that host the same package.

By default, conda prefers packages from a higher priority channel over any

version from a lower priority channel. Therefore, you can now safely put

channels at the bottom of your channel list to provide additional packages

that are not in the default channels and still be confident that these

channels will not override the core package set.

Conda collects all of the packages with the same name across all listed

channels and processes them as follows:

1. Sorts packages from highest to lowest channel priority.

2. Sorts tied packages---packages with the same channel priority---from highest to lowest version

number. For example, if channelA contains NumPy 1.12.0 and 1.13.1, NumPy 1.13.1 will be sorted

higher.

3. Sorts still-tied packages---packages with the same channel priority and same version---from

highest to lowest build number. For example, if channelA contains both NumPy 1.12.0 build 1 and

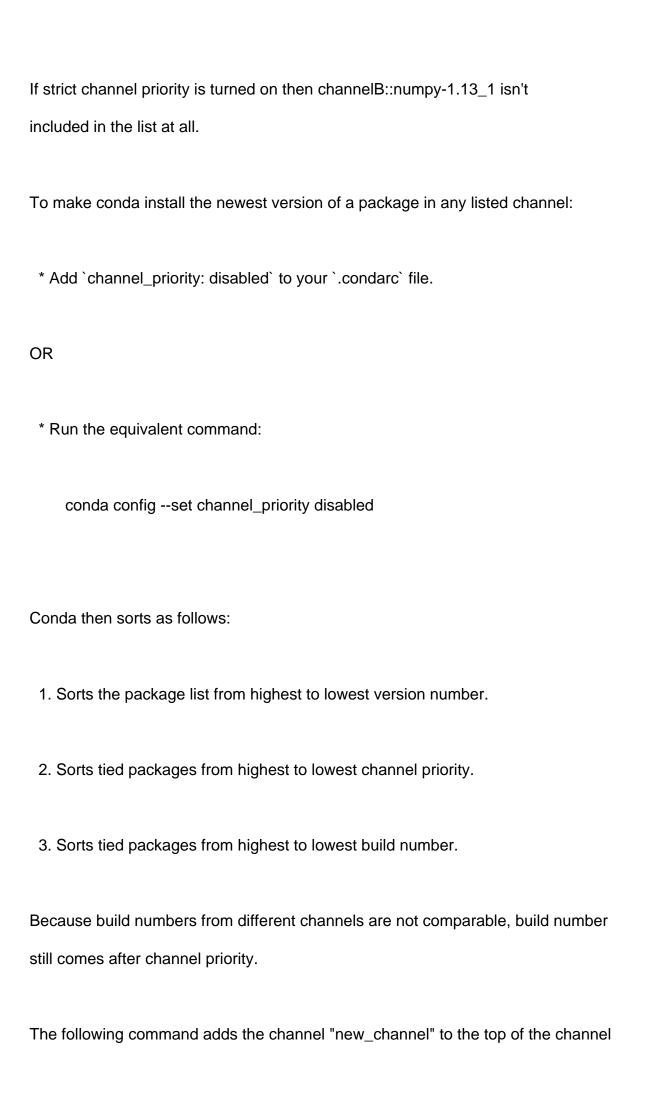
build 2, build 2 is sorted first. Any packages in channelB would be sorted below those in channelA.

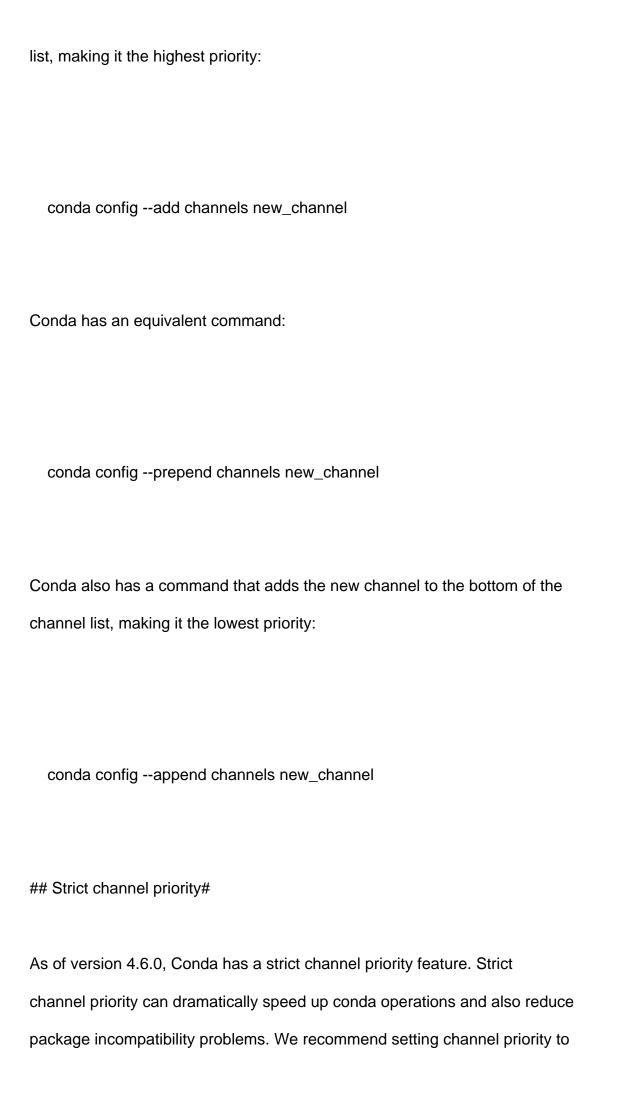
4. Installs the first package on the sorted list that satisfies the installation specifications.

Essentially, the order goes: channelA::numpy-1.13_1 > channelA::numpy-1.12.1_1

> channelA::numpy-1.12.1_0 > channelB::numpy-1.13_1

Note





"strict" when possible.

Details about it can be seen by typing `conda config --describe

channel priority`.

channel_priority (ChannelPriority)

Accepts values of 'strict', 'flexible', and 'disabled'. The default

value is 'flexible'. With strict channel priority, packages in lower

priority channels are not considered if a package with the same name

appears in a higher priority channel. With flexible channel priority,

the solver may reach into lower priority channels to fulfill

dependencies, rather than raising an unsatisfiable error. With channel

priority disabled, package version takes precedence, and the

configured priority of channels is used only to break ties. In

previous versions of conda, this parameter was configured as either

True or False. True is now an alias to 'flexible'.

channel_priority: flexible

On this page

* Strict channel priority

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

guide/tasks/manage-channels.rst)
[Show Source](//_sources/user-guide/tasks/manage-channels.rst.txt)
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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.