

CONDA CHEATSHEET

QUICK START

Tip: It is recommended to create a new environment for any new project or workflow.

| | |
|--|---|
| verify conda install and check version | <code>conda info</code> |
| update conda in base environment | <code>conda update -n base conda</code> |
| install latest anaconda distribution (see release notes) | <code>conda install anaconda=2022.05</code> |
| create a new environment (tip: name environment descriptively) | <code>conda create --name ENVNAME</code> |
| activate environment (do this before installing packages) | <code>conda activate ENVNAME</code> |

CHANNELS AND PACKAGES

Tip: Package dependencies and platform specifics are automatically resolved when using conda.

| | |
|--|--|
| list installed packages | <code>conda list</code> |
| list installed packages with source info | <code>conda list --show-channel-urls</code> |
| update all packages | <code>conda update --all</code> |
| install packages from specified channel | <code>conda install -c CHANNELNAME PKG1 PKG2</code> |
| install specific version of package | <code>conda install PKGNAME=3.1.4</code> |
| install a package from specific channel | <code>conda install CHANNELNAME::PKGNAME</code> |
| install package with AND logic | <code>conda install "PKGNAME>2.5,<3.2"</code> |
| install package with OR logic | <code>conda install "PKGNAME [version='2.5 3.2']"</code> |
| uninstall package | <code>conda uninstall PKGNAME</code> |
| view channel sources | <code>conda config --show-sources</code> |
| add channel | <code>conda config --add channels CHANNELNAME</code> |
| set default channel for pkg fetching (targets first channel in channel sources) | <code>conda config --set channel_priority strict</code> |

WORKING WITH CONDA ENVIRONMENTS

Tip: List environments at the beginning of your session. Environments with an asterisk are active.

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|-------------------------------------|--|
| list all environments and locations | <code>conda env list</code> |
| list all packages + source channels | <code>conda list -n ENVNAME --show-channel-urls</code> |
| install packages in environment | <code>conda install -n ENVNAME PKG1 PKG2</code> |
| remove package from environment | <code>conda uninstall PKGNAME -n ENVNAME</code> |
| update all packages in environment | <code>conda update --all -n ENVNAME</code> |

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ENVIRONMENT MANAGEMENT

Tip: Specifying the environment name confines conda commands to that environment.

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|---|---|
| create environment with Python version | <code>conda create -n ENVNAME python=3.10</code> |
| clone environment | <code>conda create --clone ENVNAME -n NEWENV</code> |
| rename environment | <code>conda rename -n ENVNAME NEWENVNAME</code> |
| delete environment by name | <code>conda remove -n ENVNAME --all</code> |
| list revisions made to environment | <code>conda list -n ENVNAME --revisions</code> |
| restore environment to a revision | <code>conda install -n ENVNAME --revision NUMBER</code> |
| uninstall package from specific channel | <code>conda remove -n ENVNAME -c CHANNELNAME PKGNAME</code> |

EXPORTING ENVIRONMENTS

Recommendation: Name the export file "environment." Environment name will be preserved.

| | |
|---------------------------------------|---|
| cross-platform compatible | <code>conda env export --from-history>ENV.yml</code> |
| platform + package specific | <code>conda env export ENVNAME>ENV.yml</code> |
| platform + package + channel specific | <code>conda list --explicit>ENV.txt</code> |

IMPORTING ENVIRONMENTS

Tip: When importing an environment, conda resolves platform and package specifics.

| | |
|------------------|---|
| from a .yml file | <code>conda env create -n ENVNAME --file ENV.yml</code> |
| from a .txt file | <code>conda create -n ENVNAME --file ENV.txt</code> |

ADDITIONAL HINTS

| | |
|--|--|
| get help for any command | <code>conda COMMAND --help</code> |
| get info for any package | <code>conda search PKGNAME --info</code> |
| run commands w/o user prompt eg, installing multiple packages | <code>conda COMMAND ARG --yes</code> <code>conda install PKG1 PKG2 --yes</code> |
| remove all unused files | <code>conda clean --all</code> |
| examine conda configuration | <code>conda config --show</code> |

MORE RESOURCES

Full Conda Documentation
Learning Resources
Community Support
Anaconda Support Portal
Consulting Services

conda.io
anaconda.cloud
community.anaconda.cloud
anaconda.cloud/support
anaconda.com/consulting

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