

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 a package from specific 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.

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.

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

EXPORTING ENVIRONMENTS

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

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

IMPORTING ENVIRONMENTS

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

from a .yml file	conda env create -n ENVNAME --file ENV.yml
from a .txt file	conda create -n ENVNAME --file ENV.txt

ADDITIONAL HINTS

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

MORE RESOURCES

Full Conda Documentation
Learning Resources

conda.io
anaconda.cloud

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