CONDA Cheatsheet

conda 26.11.0.dev60

Quickstart

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

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

Channels and Packages

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

list installed packages	conda list
list installed packages with source info	conda list --show-channel-urls
update all packages	conda update --all
install a package from specific channel	conda install --channel CHANNELNAME PKGNAME conda install CHANNELNAME::PKGNAME
install specific version of package	conda install PKGNAME=3.1.4
install package with AND logic	conda install "PKGNAME>2.5, <3.2"
install package with OR logic	conda install "PKGNAME [version='2.5|3.2']"
uninstall package	conda uninstall PKGNAME
view channel sources	conda config --show-sources
add channel	conda config --add channels CHANNELNAME

Working with Conda Environments

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

list all environments and locations	conda info --envs
list all packages + source channels	conda list --name ENVNAME --show-channel-urls
install packages in environment	conda install --name ENVNAME PKGNAME1 PKGNAME2
remove package from environment	conda uninstall --name ENVNAME PKGNAME
update all packages in environment	conda update --all --name ENVNAME

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Environment Management

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

create environment with Python version	conda create --name ENVNAME python=3.12
clone environment	conda create --clone ENVNAME --name NEWENV
rename environment	conda rename --name ENVNAME NEWENVNAME
delete environment by name	conda remove --name ENVNAME --all
list revisions made to environment	conda list --name ENVNAME --revisions
restore environment to a revision	conda install --name ENVNAME --revision NUMBER
uninstall package from specific channel	conda remove --name ENVNAME --channel CHANNELNAME PKGNAME

Exporting Environments

Tip: Name your export file after your environment to preserve your environment name.

cross-platform compatible (YAML)	conda export --format=environment-yaml
cross-platform compatible (JSON)	conda export --format=environment-json
cross-platform from history	conda export --from-history
platform + package specific (explicit)	conda export --format=explicit
platform + package specific (requirements)	conda export --format=requirements
auto-detect format by filename	conda export --file=environment.yaml
traditional env export	conda env export > environment.yml

Importing Environments

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

from a .yml file	conda create --file ENV.yml
from a .txt file	conda create --name 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, e.g., installing multiple packages	conda COMMAND ARG --yes conda install PKGNAME1 PKGNAME2 --yes
remove all unused files	conda clean --all
examine conda configuration	conda config --show