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	`conda info`
update conda in base environment	`conda update -n base conda`
install latest anaconda distribution (see release notes)	`conda install anaconda=2022.05`
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.

install packages from specified channel	`conda install -c CHANNELNAME PKG1 PKG2`
list installed packages	`conda list`
uninstall package	`conda uninstall PKGNAME`
update all packages	`conda update --all`
install specific version of package	`conda install PKGNAME=3.1.4`
install a package from specific channel	`conda install CHANNELNAME::PKGNAME`
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']"`
list installed packages with source info	`conda list --show-channel-urls`
view channel sources	`conda config --show-sources`
add channel	`conda config --add channels CHANNELNAME`
set default channel for pkg fetching (targets first channel in channel sources)	`conda config --set channel_priority strict`

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 env list`
update all packages in environment	`conda update --all --name ENVNAME`
install packages in environment	`conda install --name ENVNAME PKG1 PKG2`
remove package from environment	`conda uninstall PKGNAME --name ENVNAME`
reactivate base environment (recommended for end of session)	`conda activate base`

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ENVIRONMENT MANAGEMENT

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

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

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	conda.io
Learning Resources	anaconda.cloud
Commuity Support	community.anaconda.cloud
Anaconda Support Portal	anaconda.cloud/support
Consulting Services	anaconda.com/consulting

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