Conda user cheat sheet

CONTINUUM ANALYTICS

For full documentation of any command, type the command followed by **`--help`**.

`conda create --help`

TIP: *Many options after two dashes (--) have shortcuts.*

`conda create --help` *or* **`conda create -h`**

Managing conda and anaconda

`conda info`	Verify conda is installed, check version #
`conda update conda`	Update conda package and environment manager to current version
`conda update andaconda`	Update the anaconda meta package (the library of packages ready to install with **`conda`** command)

Managing environments

`conda info --envs` *or* **`conda info -e`**	Get a list of all my environments, active environment shown with *
`conda create --name snowflakes biopython` *or* **`conda create -n snowflakes biopython`**	Create an environment and install program(s) ***TIP:*** *To avoid dependency conflicts, install all programs in the environment (snowflakes) at the same time.* ***TIP:*** *Environments install by default into the envs directory in your conda directory. You can specify a different path; see* **`conda create --help`** *for details.*
`source activate snowflakes` *(Linux, Mac)* **`activate snowflakes`** *(Windows)*	Activate the new environment to use it ***TIP:*** *Activate prepends the path to the snowflakes environment.*
`conda create -n bunnies python=3.4 astroid`	Create a new environment, specify Python version
`conda create -n flowers --clone snowflakes`	Make exact copy of an environment

Managing Python

`conda search --full-name python` *or* **`conda search -f python`**	Check versions of Python available to install
`conda create -n snakes python=3.4`	Install different version of Python in new environment
`source activate snakes` *(Linux, Mac)* **`activate snakes`** *(Windows)*	Switch to the new environment that has a different version of Python ***TIP:*** *Activate prepends the path to the snakes environment.*

Managing .condarc configuration

`conda config --get`	Get all keys and values from my .condarc file
`conda config --get channels`	Get value of the key channels from .condarc file
`conda config --add channels pandas`	Add a new value to channels so conda looks for packages in this location

Managing packages, including Python

`conda list`	View list of packages and versions installed in active environment
`conda search beautiful-soup`	Search for a package to see if it is available to conda install
`conda install -n bunnies beautiful-soup`	Install a new package ***NOTE:*** *If you do not include the name of the new environment (*__`-n bunnies`__*) it will install in the current active environment.* ***TIP:*** *To view list of all packages available through* **`conda install`**, *visit http://docs.continuum.io/anaconda/pkg-docs.html.*
`conda update beautiful-soup`	Update a package in the current environment
`conda search --override-channels -c pandas bottleneck`	Search for a package in a specific location (the pandas channel on Anaconda.org) ***NOTE:*** *Alternativley, go to Anaconda.org in the browser and search by package name. This will show the specific channel (owner) through which it is available.*
`conda install -c pandas bottleneck`	Install a package from a specific channel
`conda search --override-channels -c defaults beautiful-soup`	Search for a package to see if it is available from the Anaconda repository
`source activate bunnies` *(Linux, Mac)* **`activate bunnies`** *(Windows)* **`pip install see`**	Activate the environment where you want to install a package and install it with pip (included with Anaconda and Miniconda)
`conda install iopro accelerate`	Install commercial Continuum packages

Removing packages or environments

`conda remove --name bunnies beautiful-soup`	Remove one package from any named environment
`conda remove beautiful-soup`	Remove one package from the active environment
`conda remove --name bunnies beautiful-soup astroid`	Remove multiple packages from any environment
`conda remove --name snakes --all`	Remove an environment

More resources

Free community support	https://groups.google.com/a/continuum.io/forum/#!forum/anaconda
Full command documentation	command followed by **`--help`** or **`-h`**
Online documentation	http://conda.pydata.org/docs/
Paid support options	http://continuum.io/support
Continuum onsite training courses	https://store.continuum.io/cshop/training/
Continuum consulting services	http://continuum.io/consulting/

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.

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 -c CHANNELNAME PKG1 PKG2`
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']"`
uninstall package	`conda uninstall PKGNAME`
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`
list all packages + source channels	`conda list -n ENVNAME --show-channel-urls`
install packages in environment	`conda install -n ENVNAME PKG1 PKG2`
remove package from environment	`conda uninstall PKGNAME -n ENVNAME`
update all packages in environment	`conda update --all -n ENVNAME`

CONDA CHEATSHEET

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 — conda.io

Learning Resources — anaconda.cloud

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