

Conda user cheat sheet



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) <i>TIP: To avoid dependency conflicts, install all programs in the environment (snowflakes) at the same time.</i> <i>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.</i>
source activate snowflakes (Linux, Mac) activate snowflakes (Windows)	Activate the new environment to use it <i>TIP: Activate prepends the path to the snowflakes environment.</i>
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 <i>TIP: Activate prepends the path to the snakes environment.</i>

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 <i>NOTE: If you do not include the name of the new environment (-n bunnies) it will install in the current active environment.</i> <i>TIP: To view list of all packages available through conda install, visit http://docs.continuum.io/anaconda/pkg-docs.html.</i>
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) <i>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.</i>
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 CHEAT SHEET

Command line package and environment manager

Learn to use conda in 30 minutes at bit.ly/tryconda

TIP: Anaconda Navigator is a graphical interface to use conda. Double-click the Navigator icon on your desktop or in a Terminal or at the Anaconda prompt, type `anaconda-navigator`

Conda basics

Verify conda is installed, check version number	<code>conda info</code>
Update conda to the current version	<code>conda update conda</code>
Install a package included in Anaconda	<code>conda install PACKAGENAME</code>
Run a package after install, example Spyder*	<code>spyder</code>
Update any installed program	<code>conda update PACKAGENAME</code>
Command line help	<code>COMMANDNAME --help</code> <code>conda install --help</code>

*Must be installed and have a deployable command, usually PACKAGENAME

Using environments

Create a new environment named py35, install Python 3.5	<code>conda create --name py35 python=3.5</code>
Activate the new environment to use it	WINDOWS: <code>activate py35</code> LINUX, macOS: <code>source activate py35</code>
Get a list of all my environments, active environment is shown with *	<code>conda env list</code>
Make exact copy of an environment	<code>conda create --clone py35 --name py35-2</code>
List all packages and versions installed in active environment	<code>conda list</code>
List the history of each change to the current environment	<code>conda list --revisions</code>
Restore environment to a previous revision	<code>conda install --revision 2</code>
Save environment to a text file	<code>conda list --explicit > bio-env.txt</code>
Delete an environment and everything in it	<code>conda env remove --name bio-env</code>
Deactivate the current environment	WINDOWS: <code>deactivate</code> macOS, LINUX: <code>source deactivate</code>
Create environment from a text file	<code>conda env create --file bio-env.txt</code>
Stack commands: create a new environment, name it bio-env and install the biopython package	<code>conda create --name bio-env biopython</code>

Finding conda packages

Use conda to search for a package	<code>conda search PACKAGENAME</code>
See list of all packages in Anaconda	https://docs.anaconda.com/anaconda/packages/pkg-docs

Installing and updating packages

Install a new package (Jupyter Notebook) in the active environment	<code>conda install jupyter</code>
Run an installed package (Jupyter Notebook)	<code>jupyter-notebook</code>
Install a new package (toolz) in a different environment (bio-env)	<code>conda install --name bio-env toolz</code>
Update a package in the current environment	<code>conda update scikit-learn</code>
Install a package (boltons) from a specific channel (conda-forge)	<code>conda install --channel conda-forge boltons</code>
Install a package directly from PyPI into the current active environment using pip	<code>pip install boltons</code>
Remove one or more packages (toolz, boltons) from a specific environment (bio-env)	<code>conda remove --name bio-env toolz boltons</code>

Managing multiple versions of Python

Install different version of Python in a new environment named py34	<code>conda create --name py34 python=3.4</code>
Switch to the new environment that has a different version of Python	Windows: <code>activate py34</code> Linux, macOS: <code>source activate py34</code>
Show the locations of all versions of Python that are currently in the path NOTE: The first version of Python in the list will be executed.	Windows: <code>where python</code> Linux, macOS: <code>which -a python</code>
Show version information for the current active Python	<code>python --version</code>

Specifying version numbers

Ways to specify a package version number for use with `conda create` or `conda install` commands, and in `meta.yaml` files.

Constraint type	Specification	Result
Fuzzy	<code>numpy=1.11</code>	1.11.0, 1.11.1, 1.11.2, 1.11.18 etc.
Exact	<code>numpy==1.11</code>	1.11.0
Greater than or equal to	<code>"numpy>=1.11"</code>	1.11.0 or higher
OR	<code>"numpy=1.11.1 1.11.3"</code>	1.11.1, 1.11.3
AND	<code>"numpy>=1.8,<2"</code>	1.8, 1.9, not 2.0

NOTE: Quotation marks must be used when your specification contains a space or any of these characters: `>` `<` `|` `*`

MORE RESOURCES

Free Community Support	groups.google.com/a/continuum.io/forum/#!forum/conda
Online Documentation	conda.io/docs
Command Reference	conda.io/docs/commands
Paid Support Options	anaconda.com/support
Anaconda Onsite Training Courses	anaconda.com/training
Anaconda Consulting Services	anaconda.com/consulting

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