CONDA

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

conda info Verify conda is installed, check version number

Update conda to the current version conda update conda

Install a package included in Anaconda conda install PACKAGENAME

Run a package after install, example Spyder* spyder

Update any installed program conda update PACKAGENAME

Command line help COMMANDNAME --help conda install --help

*Must be installed and have a deployable command,

usually PACKAGENAME

Create a new environment named py35, install Python 3.5 conda create --name py35 python=3.5

Activate the new environment to use it activate pv35 WINDOWS:

LINUX, macOS: source activate py35

Get a list of all my environments, active conda env list

environment is shown with *

Make exact copy of an environment

conda create --clone py35 --name py35-2

conda list

conda list --revisions

conda install -- revision 2

List all packages and versions installed in active environment

List the history of each change to the current environment

Restore environment to a previous revision

Save environment to a text file conda list --explicit > bio-env.txt

Delete an environment and everything in it conda env remove --name bio-env

Deactivate the current environment WINDOWS: deactivate

macOS, LINUX: source deactivate

Create environment from a text file conda env create --file bio-env.txt

Stack commands: create a new environment, name conda create -- name bio-env biopython

it bio-env and install the biopython package

Finding conda packages

conda search PACKAGENAME Use conda to search for a package

https://docs.anaconda.com/anaconda/packages/pkg-docs See list of all packages in Anaconda



| Installing and updating packages | | |
|--|--|--|
| Install a new package (Jupyter Notebook) in the active environment | conda install jupyter | |
| Run an installed package (Jupyter Notebook) | jupyter-notebook | |
| Install a new package (toolz) in a different environment (bio-env) | conda installname bio-env toolz | |
| Update a package in the current environment | conda update scikit-learn | |
| Install a package (boltons) from a specific channel (conda-forge) | conda installchannel conda-forge boltons | |
| Install a package directly from PyPI into the current active environment using pip | pip install boltons | |
| Remove one or more packages (toolz, boltons) from a specific environment (bio-env) | conda removename bio-env toolz boltons | |

Managing multiple versions of Python Install different version of Python in

| a new environment named py34 | |
|--|---|
| Switch to the new environment that has a different version of Python | Windows: activate py34 Linux, macOS: source activate py34 |
| 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: where python Linux, macOS: which -a python |

Show version information for the current active Python

python --version

conda create --name py34 python=3.4

Result

Specifying version numbers

Constraint type

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

| numpy=1.11 | 1.11.0, 1.11.1, 1.11.2, 1.11.18 etc. |
|-----------------------|---|
| numpy==1.11 | 1.11.0 |
| "numpy>=1.11" | 1.11.0 or higher |
| "numpy=1.11.1 1.11.3" | 1.11.1, 1.11.3 |
| "numpy>=1.8,<2" | 1.8, 1.9, not 2.0 |
| | numpy==1.11 "numpy>=1.11" "numpy=1.11.1 1.11.3" |

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

Specification

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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