# **Anaconda distribution for Python**

A quick introduction

Magnus V. Persson

# **Anaconda distribution for Python**

- A distribution
  - Comes with pre-built and pre-configured collection of packages
  - Package manager (Conda)
  - Version management
  - o + more
- Freemium software from Continuum Analytics
- Works basically the same on Win, Mac and Linux
- Self-contained, install and maintain as user (i.e. w/o admin rights)
- Separate from your system Python installation (so you don't mess it up)
- www.continuum.io/why-anaconda
- <u>jakevdp.github.io/blog/2016/08/25/conda-myths-and-misconceptions/</u>

# How to install it

32-Bit Installer (450 MB) Go to: Python 2.7 version \* **丛** Download https://www.anaconda.com/download 64-Bit (x86) Installer (533 MB) (?) 64-Bit (Power8) Installer (267 MB) 32-Bit Installer (431 MB) \*How to get Python 3.5 or other Python versions How to Install ANACONDA Detailed guide: https://docs.anaconda.com/anaconda/install/

Download for Your Preferred Platform Anaconda 5.1 For Linux Installer

Python 3.6 version \*

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64-Bit (x86) Installer (551 MB) (?) 64-Bit (Power8) Installer (286 MB)

# **Anaconda distribution for Python**

# Conda package manager

Install various packages, including non-python based.

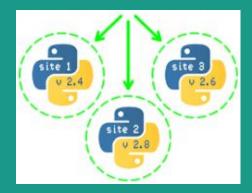
## **Environment management**

Create separate environments with distinct versions of python or packages

## **Anaconda Navigator**

A GUI to manage packages, channels, environments, notebooks

# Conda environment management



# Conda-env

\$ conda-env
or
\$ conda env

Remember that the path to the old python stuff (like iPython will still be there, just lower in the list).

- Installing IPython in the base environment and then creating a second environment and starting ipython will start the base env version (show what I mean?).

#### List environments

\$ conda env list/conda info --envs

#### Create environments

\$ conda create --name YourEnv

Optionally add python=3.4/5/6 or 2.7

#### Switch env

\$ source activate YourEnv
orin Windows
\$ activate YourEnv

#### Deactivate env

\$ source deactivate

## Check which python you are using

\$ where/which python

### Remove env and all everything in it

\$ conda env remove --name YourEnv



## Conda is a package manager

- A tool that automates the process of installing, updating, and removing packages
- Operates on current active environment

- \$ conda info
- \$ conda install PackageName
- \$ conda update PackageName
- \$ conda list
- \$ conda develop package/to/install



## Conda is not limited to Python packages

- Different from python-pip
- conda search --canonical | grep -v py
  - e.g. zlib, xorg, tmux, tk, texlive, openmpi, nodejs, gnuplot, etc.
- Within Anaconda Python you can still use "pip" to install packages.

# Conda cheat sheet

https://conda.io/docs/\_downloads/conda-cheatsheet.pdf



# **Anaconda Navigator**

A graphical interface to **conda-env** and conda package manager + more.

Will just show how it runs, what's there etc