Conda and some fun @ContinuumIO projects

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Conda

conda.pydata.org (conda.pydata.org)

A cross-platform Python-agnostic binary package manager: Linux, OSX, Windows.

~ homebrew + pip + virtualenv -> conda

Available: Anaconda: https://store.continuum.io/cshop/anaconda/ (https://store.continuum.io/cshop/anaconda/)

Miniconda (conda + python): http://conda.pydata.org/miniconda.html (https://store.continuum.io/cshop/anaconda/)

Create an environment

conda create -n pybcn python=2.7 numpy=1.9

Activate environment

source activate pybcn

What packages are in the enviroment?

conda list

Store the file

conda list -e > myenv.txt

Deactivate environment

source deactivate

Recreate the environment

conda create --name newpybcn --file myenv.txt

Activate new enviroment

source activate newpybcn

Installing other packages

conda install bokeh mongodb mongod --dbpath ~/data/db/

Switching Python interpreters

source activate test conda install python=3.4 conda update --all

Back to my newpybcn

source activate newpybcn

Install more weird things

conda install scala conda install spark

anaconda/envs/pybcn2/./bin/pyspark

Show all my environments

conda info -e

Binstar

http://docs.binstar.org/ (http://docs.binstar.org/)

Package management service which allows you to host software packages of all kinds.

Binstar is a social website that allows you to test, create or distribute software packages.

~Github for binaries/Multi-software PyPI + TravisCI

Bokeh

http://bokeh.pydata.org/ (http://bokeh.pydata.org/)

A Python interactive visualization library that targets modern web browsers.

~D3.js without having to write JS :)

http://nbviewer.ipython.org/ (http://nbviewer.ipython.org/)

http://nbviewer.ipython.org/github/bokeh/bokeh-notebooks/blob/master/index.ipynb
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Bokeh Examples (I)

Interactivity - Sliders app

cd /Users/cdoig/anaconda/envs/pybcn2/Examples/bokeh/app/sliders_applet

To view this applet directly from a bokeh server, you simply need to run a bokeh-server and point it at the stock example script:

```
bokeh-server --script sliders_app.py
```

Now navigate to the following URL in a browser:

```
http://localhost:5006/bokeh/sliders
```

Interactivity

cd /Users/cdoig/anaconda/envs/pybcn2/Examples/bokeh/glyphs

- Taylor approximation !Remember bokeh-server

```
python taylor_server.py
```

```
python population_server.py
```

Bokeh Examples (II)

Charts

cd /Users/cdoig/anaconda/envs/pybcn2/Examples/bokeh/charts

ipython notebook

Bokeh Examples(III)

- Matplotlib compatibility

ipython notebook

test.ipynb

- Plotting (file, server, notebook)

Blaze

http://blaze.pydata.org/docs/latest/index.html (http://blaze.pydata.org/docs/latest/index.html)

Blaze provides a familiar interface to various computational resources.

Blaze extends the usability of NumPy and Pandas to distributed and out-of-core computing.