

Setup for macs in lab

I would love to set them up to use their NVIDIA graphics card but it is really fraught with problems so Ill just give a cpu list.

1. Install anaconda (conda)

- a. <https://www.continuum.io/downloads>
- b. <https://conda.io/docs/download/conda-cheatsheet.pdf>
 - i. this is a conda cheatsheet to help you use it
- c. `conda create -n myenv` (to create an environment for software)(will be in `~/anaconda/envs/` where `~` is your home directory)
- d. see cheat sheet to activate environment and activate it

2. Install the following packages using conda

- `conda install python`
 - `openssl: 1.0.2l-0`
 - `pip: 9.0.1-py36_1`
 - `python: 3.6.2-0`
 - `readline: 6.2-2`
 - `setuptools: 27.2.0-py36_0`
 - `sqlite: 3.13.0-0`
 - `tk: 8.5.18-0`
 - `wheel: 0.29.0-py36_0`
 - `xz: 5.2.2-1`
 - `zlib: 1.2.8-3`
- `conda install numpy`
 - `mkl: 2017.0.3-0`
 - `numpy: 1.13.1-py36_0`
- `conda install scipy`
 - `scipy: 0.19.1-np113py36_0`
- `conda install matplotlib`
 - `cycler: 0.10.0-py36_0`
 - `freetype: 2.5.5-2`
 - `icu: 54.1-0`
 - `libpng: 1.6.27-0`
 - `matplotlib: 2.0.2-np113py36_0`
 - `pyparsing: 2.2.0-py36_0`
 - `pyqt: 5.6.0-py36_2`
 - `python-dateutil: 2.6.1-py36_0`
 - `pytz: 2017.2-py36_0`
 - `qt: 5.6.2-2`
 - `sip: 4.18-py36_0`
 - `six: 1.10.0-py36_0`
- `conda install scikit-learn`

- scikit-learn: 0.18.2-np113py36_0
- conda install scikit-image
 - decorator: 4.1.2-py36_0
 - jbig: 2.1-0
 - jpeg: 9b-0
 - libtiff: 4.0.6-3
 - networkx: 1.11-py36_0
 - olefile: 0.44-py36_0
 - pillow: 4.2.1-py36_0
 - pywavelets: 0.5.2-np113py36_0
 - scikit-image: 0.13.0-np113py36_0
- conda install graphviz
 - graphviz: 2.38.0-4

3. Install tensorflow—you may want to look at the webpage in case they change anything https://www.tensorflow.org/install/install_mac

For now the following works (August 7)

```
pip install --ignore-installed --upgrade \
```

```
https://storage.googleapis.com/tensorflow/mac/cpu/tensorflow-1.2.1-py3-none-any.whl
```

- Successfully installed backports.weakref-1.0rc1 bleach-1.5.0 html5lib-0.9999999 markdown-2.6.8 numpy-1.13.1 protobuf-3.3.0 setuptools-36.2.7 six-1.10.0 tensorflow-1.2.1 werkzeug-0.12.2 wheel-0.29.0
- This will install the cpu version. They no longer support the gpu version for macs

4. Install IPython(could have done earlier)

- conda install ipython
 - appnope: 0.1.0-py36_0
 - ipython: 6.1.0-py36_0
 - ipython_genutils: 0.2.0-py36_0
 - jedi: 0.10.2-py36_2
 - path.py: 10.3.1-py36_0
 - pexpect: 4.2.1-py36_0
 - pickleshare: 0.7.4-py36_0
 - prompt_toolkit: 1.0.14-py36_0
 - ptyprocess: 0.5.2-py36_0
 - pygments: 2.2.0-py36_0
 - simplegeneric: 0.8.1-py36_1
 - traitlets: 4.3.2-py36_0
 - wcwidth: 0.1.7-py36_0

5. Install latest version of eclipse with java

6. Install PyDev from

<http://www.pydev.org/download.html>

Make sure to link Pydev to the python you have installed in the environment

- Preferences->PyDev->Python Interpreters->New
- Find your environment and source for python. If your environment is myenv then the source will be in myenv->bin->python
- Let it auto-config
- Move it to the top if you have other environments

7. set the perspective in eclipse to python Window->open perspective->other->pydev

8. In Eclipse Preferences->PyDev->Interpreters->Python Interpreter use New to install interpreter in your environment