MNE Setup

Obtaining MNE

Installing MNE

Local MNE Configuration
Setting up MNE with Python/iPython

Over the past several months (written in early 2016), MNE has undergone a shift from being primarily a command-line tool to being primarily a Python library. In order to fully use MNE with python, you'll need to install several packages. I suggest using Python anaconda and ipython.

These packages should be installed by hand; i.e., they cannot be installed using Python's easy_install to the best of my knowledge as of when this page was written:

- **iPython notebook interface** ([install page](https://ipython.org/contents.html))
- **Python**: [Anaconda](https://anaconda.org) core installation ([install page](https://anaconda.org))
- **VTK**: the [VTK toolkit](http://www.vtk.org) is somewhat tricky to install; the only installation instructions I found for building the library and its python wrapper were [here](http://www.vtk.org). If possible, use apt-get or MacPorts (or similar) to install this package along with mayavi: `sudo port install vtk py27-mayavi`

Assuming the above packages are installed, these can be installed from within python using pip:

- mayavi, a visualization toolbox: port install py27-mayavi OR pip install mayavi
- MNE itself: pip install mne
- Matplotlib for various plotting features: pip install matplotlib
- PySurfer for Freesurfer integration; you can use pip to install this or the command `easy_install PySurfer` but this caused multiple warnings due to dependency issues between numpy and PySurfer for me. Rather, I used the following command to install PySurfer from the terminal, which worked file:
  
  ```bash
  pip install 'git+https://github.com/nipy/pysurfer.git#egg=pysurfer'
  ```

  If you already have PySurfer installed, add a `-U` after the `install`