Status of NeuroTools Modules
utilities and plotting
History: Both modules were rather orderless collections of user- and problem-specific helper functions.

For NT release 0.1: Code cleaning

- Some functions moved from utilities to plotting
- Others removed
- **utilities** now contains only one single submodule: SRB interface (by Andrew)
- For remaining **plotting** code:
  - commented according to NT style conventions
  - Wiki description
  - Unit tests written (coverage 93%... ok)
plotting: Functions and Classes

- **Class** `SimpleMultiplot`
  - object that creates and handles a figure consisting of multiple panels, all with the same datatype and the same x-range.
- **Function** `get_display`
  - returns a `pylab` object with a `plot()` function to draw the plots.
- **Function** `progress_bar`
  - prints a progress bar to stdout, filled to the given ratio.
- **Function** `pylab_params`
  - returns a dictionary with a set of parameters that help to nicely format figures by updating the `pylab` run command parameters dictionary 'pylab.rcParams'.
- **Function** `set_axis_limits`
  - defines the axis limits in a plot.
plotting: Functions and Classes

- **Function** `set_labels`
  
  defines the axis labels of a plot.

- **Function** `set_pylab_params`
  
  updates a set of parameters within the `pylab.rcParams` dictionary in order to achieve nicely formatted figures.

- **Function** `save_2D_image`
  
  saves a 2D numpy array of gray shades between 0 and 1 to a PNG file.

- **Function** `save_2D_movie`
  
  saves a list of 2D numpy arrays of gray shades between 0 and 1 to a zipped tree of PNG files.
This is not enough...

plotting and utilities could be great modules!

- More back-ends supported
- More flexible multi-panel plots
- Enhanced movie generation
- 3+x dimensional data
  - 2D color / gray-scale maps
  - 3D graphs
- Visualization of neuron positions / network connections in 3D
- Generic function plotEverything()
  - intelligently determines the type of the passed object and chooses an appropriate visualization
- Fitting support
- Histograms

... Your ideas!?