AutoPipeline Demo 5/23/14

Rename sample (input) to DREAM.3D data file

Instead of entering parameters as a MATLAB array, possibly have min step and max fields

Option to output individual DREAM.3D data files or one with multiple data containers in it

Have library steps (modular) on the git repository, e.g. just the plotter for MATLAB

Add ignore greater than in the plotter

Fminopt -> example optimization toolkit in MATLAB -> roll into optimization tool, address sensitivity of each parameter

Keep an eye towards generic function library and generic labeling

Overall goal is to make this usable for SOCHE-type people

Next task: make 5-6 synthetic structures at different volumes and see when size converges

Another task (more complicated): generate a high resolution synthetic structure -> surface mesh, smooth, resample to voxels -> perform various virtual experiments <- just keep in mind, talk to Groeber more about this later

Make a GUI builder -> For generic version, ask which filter(s) you want to iterate over -> essentially create design of experiments (DOE)

To do this… edit pipeline in a secondary window with dropdowns and scroll bars

Sketch out what you want the GUI to look like (do this on a PPT and send around to Groeber and Pilchak for input)

Meet with Sosa (GUI expert) at OSU, June 3-6 was the window identified