

Tips for working with Matlab with out too much trouble

- When generating matlab scripts from your GRIT applications then it may be worthwhile to remember the following tips and tricks:
 - Add matlab to your path environment so you can run matlab from command line. On OSX one adds to the file “.profile”
 - `export PATH=/Applications/MATLAB_R2014b.app/bin:$PATH`
 - Now on the command line one can now write
 - `matlab -nodesktop`
 - When generating matlab scripts for making plots then it is convenient to write
 - `figure(1, 'Visible', 'off')`
 - This way when running a script from the command line figures will not pop up and disturb one.
 - Split your generated matlab script into several files and then generate one script that runs all other scripts. Go to the folder where you generated your matlab scripts then write on the bash command line
 - `for f in *.m; do y=${f%.m}; echo ${y##*/}; done >> run_all.m`
 - Now in the no desktop command line version of matlab write run_all to start processing all matlab script files as one “background” batch job.

Easy matlab output

- To make it easier to get started writing code for generating a matlab script we have provided several utility functions to help
 - `util::write_matlab_vector`
 - `util::write_matlab_matrix`
 - `util::to_string(util::COOMatrix<T> ...)`
 - `util::generate_filename(...)`
- To help generate script data for meshes GLUE provides
 - `glue::matlab_write_mesh(...)`