Example (1/2)

- Here we show code to generate a matlab script for drawing the mesh. First you write data as matlab arrays, like this
 - std::ofstream script;
 - •
 - script << "close all;" << std::endl;
 - script << "clear all;" << std::endl;
 - script << "clc;" << std::endl;
 - script << "T_" << count << " = " << matlab_write_mesh(triangles) << ";" << std::endl;
 - script << "px_" << count << " = " << util::matlab_write_vector(px) << ";" << std::endl;
 - script << "py_" << count << " = " << util::matlab_write_vector(py) << ";" << std::endl;
- Here "count" is supposed to be a integer variable that counts the number of frames that you
 have generated to far.

Example (2/2)

- Next you must generate script code for making a matlab figure. That could look like this
 - script << "figure('Visible','off');" << std::endl;
 - script << "clf;" << std::endl;
 - script << "triplot(T_" << count << ",px_" << count << ",py_" << count << ",'b');" << std::endl;
 - script << "xlabel('x');" << std::endl;
 - script << "ylabel('y');" << std::endl;
 - script << "title('Computational Mesh');" << std::endl;
 - script << "print(gcf,'-depsc2','" << "mesh_" << std::setw(8) << std::setfill('0') << count << "');" << std::endl;
- More advanced matlab scripts can be observed in various demos.