Workflow

(Using the pillbox cavity model as an example.)

Pythou AD

Write a base geometry in Python and define geometric parameter sweeps (pillbox_cavity.py)

Jext file

Define the links between the STL files and the material names used in the EM simulation. (geometry-material-map.txt)

Test files input
Test files input
Test files

Define the volume of the mesh. (mesh_definition.txt)
Define the location and settings of any ports. (port_definition.txt)

MATLAB

Write a file to define the base simulation setup, and any material sweeps or simulation parameter sweeps. (Testing_pillbox_cavity.m)



Run the framework.

This will generate a report for each unique parameter set, and also summary reports for any sweeps.

There are other examples in the test suite/FreeCAD input folder.