In this folder are the general files needed to go from the initial MATLAB scripts that take an image and create a \*.sm2 file to an image that can be used in COMSOL to construct a model of the nerve as a \*.mphtxt file

\*.sm2 🡪 sketch\_for\_COMSOL\_neural\_tissues.mphtxt

This is done by a single click of the file “sm2\_to\_COMSOL\_sketch.bat” and then entering the name of the \*.sm2 file without the extension

Ex: you have the file “ ThePrettiestUltrasoundEver.sm2 “

Text

Description automatically generated

Now the file “sketch\_for\_COMSOL\_neural\_tissues.mphtxt” will have the data from your \*.sm2 file in it in a format that COMSOL likes. Feel free to rename it.

That’s all you absolutely need to know to run this

Note that other functions also look to this file directory to run. Namely, functions that need to know fascicle borders like “PlotSecondSpatialDifference.m”

SIDE NOTES:

“sm2\_to\_COMSOL\_sketchreal.cpp” is the file used to make “sm2\_to\_COMSOL\_sketchreal.exe”

It’s included if you want to change things

“sm2\_to\_COMSOL\_sketchreal.bat” calls “sm2\_to\_COMSOL\_sketchreal.exe” in a nice, convenient way