

How to visualize results with Gmsh

NOTE: If you haven't done so already, replace the gmsh options by the ones provided by simnibs (automatically done when using the installation script):

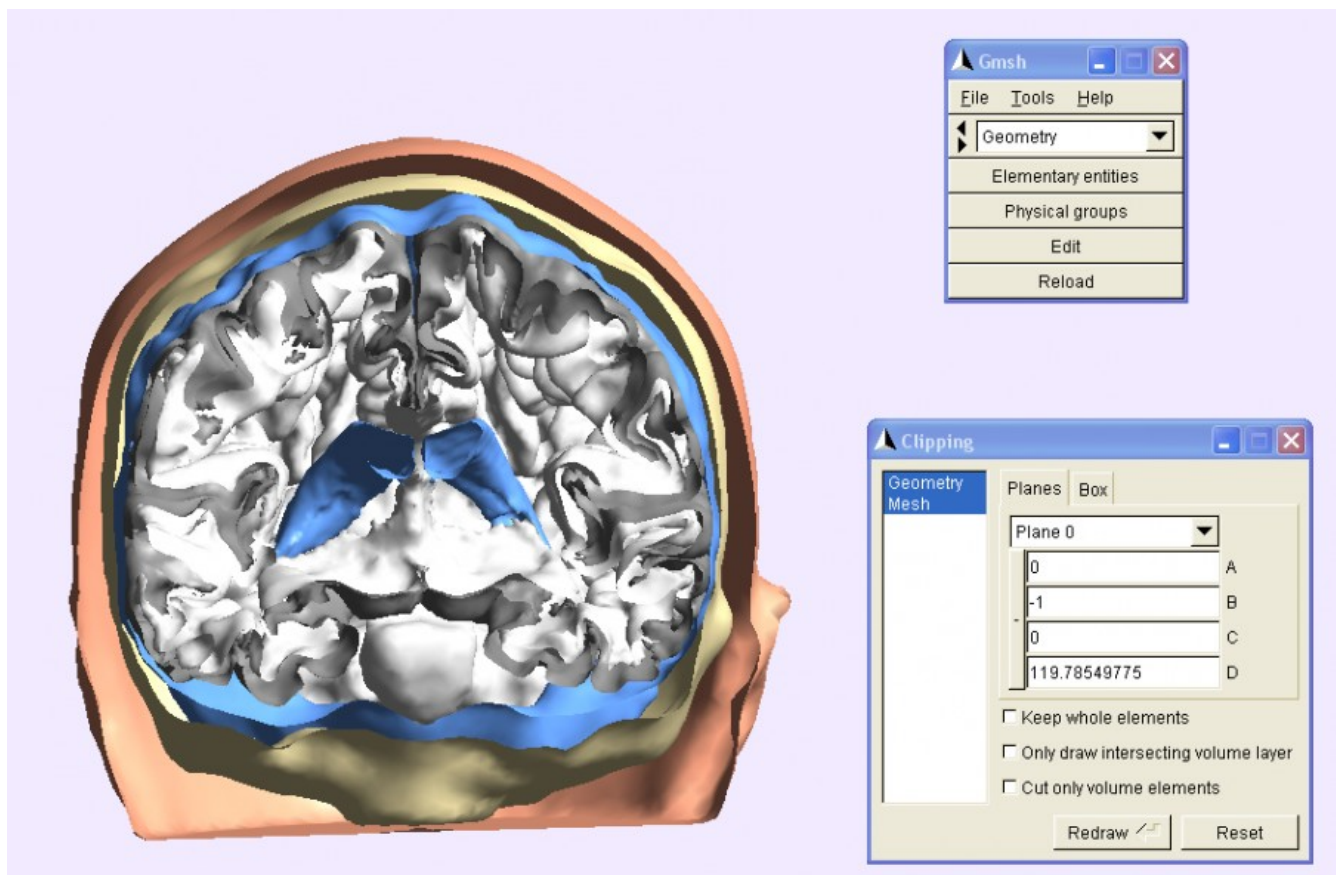
```
cp $SIMNIBSDIR/gmsh-options_simnibsdefault ~/.gmsh-options
```

1. Open a terminal and go to the directory of the SimNIBS example data set
2. Open the file almi5.msh with gmsh

You can rotate the head by clicking on it with the mouse and drag the mouse from left to right.

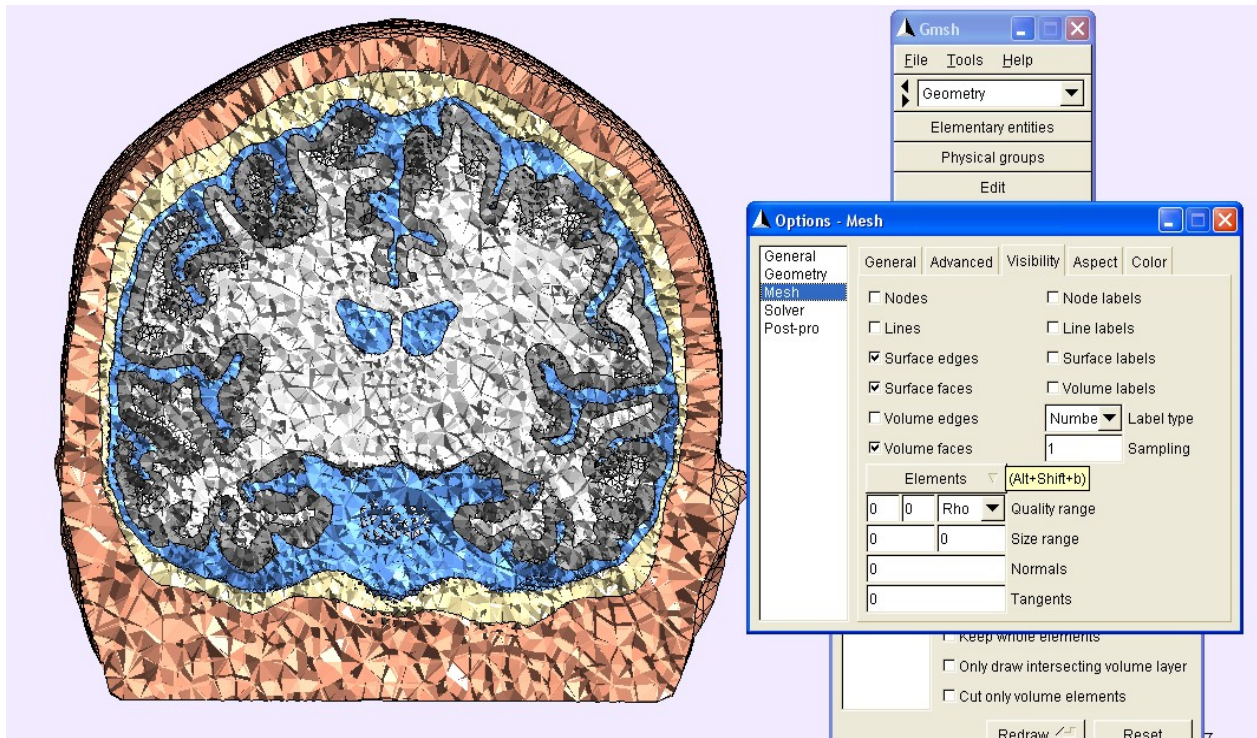
One important tool is the clipping tool. Tools → Clipping Select Geometry and Mesh and click in panel D with your mouse and move it from left to right to cut a plane. You can cut different planes by selecting different numbers for A, B, C.

Here is an example for a coronal cut.

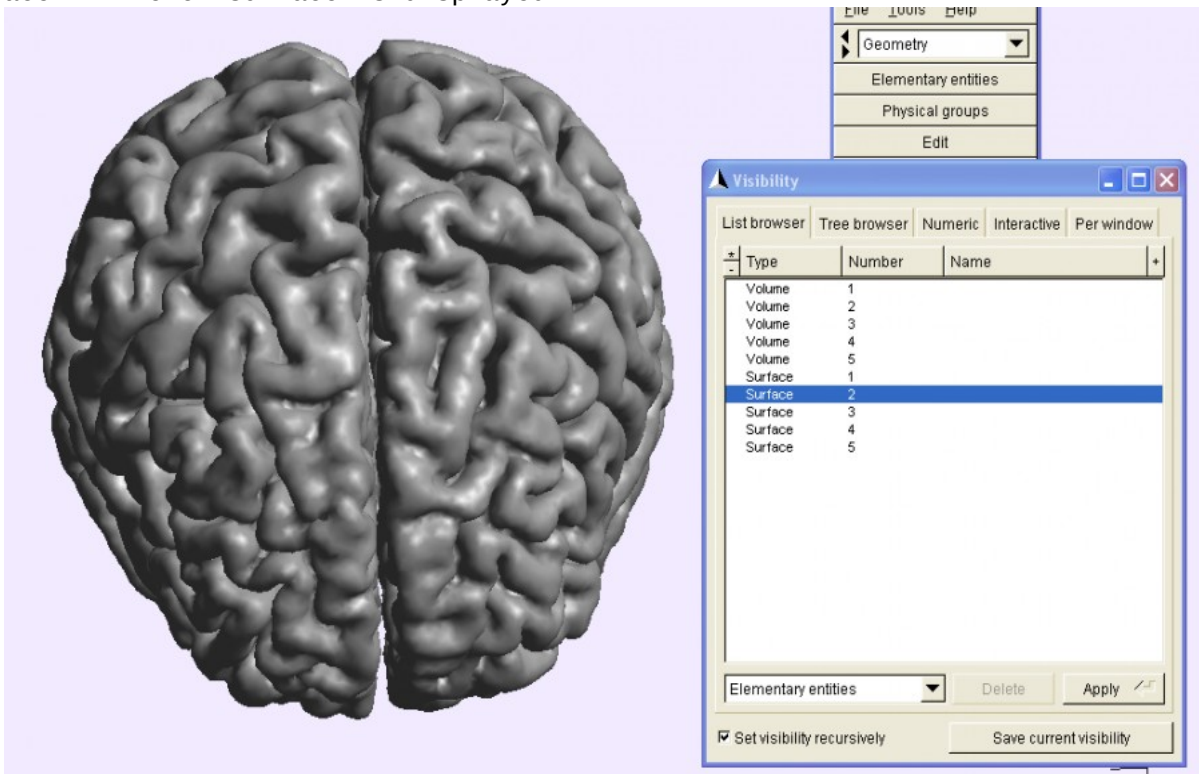


You can select different cut planes simultaneously by selecting an additional cutting plane.

Under Tools → Options → Mesh you can specify which elements of the mesh are displayed. If you select Surface faces and Volume faces you can see that the mesh consists of many little tetrahedra.



Another import tool is the Visibility tool. Tools → Visibility. Here you can select volumes and surfaces that should be displayed. For example if you select only surface 2. The GM surface is displayed.



To display results of a simulation.

Load the respective file. Here additionally to the mesh also the simulated values are displayed. Of most interest is usually the absolute electric field strength. Regions with high values are most likely subject to stimulation. Select `norm(E_fem)` to display the absolute electric field. You can change some display parameters under Options → View[0] or the respective view you are looking at.

