

# SimNIBS 2.0 Tutorials

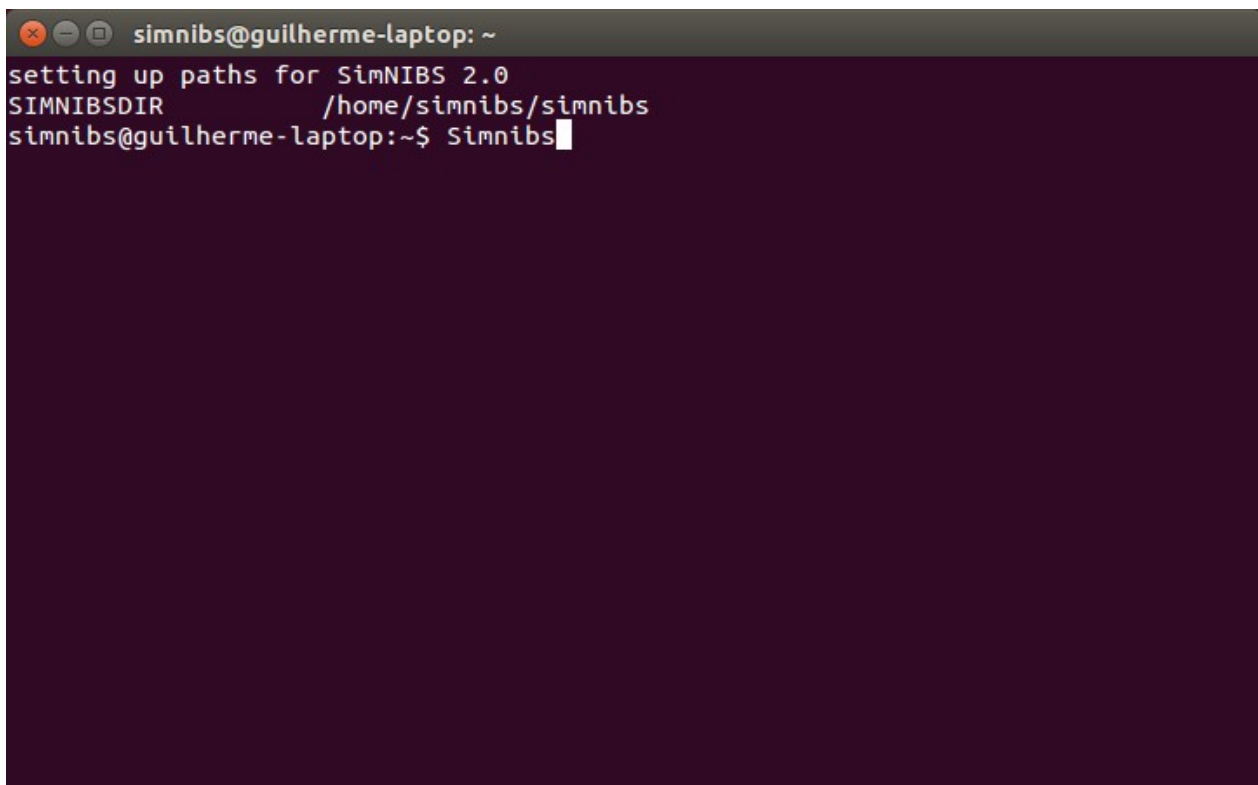
## TMS Simulation

Once SimNIBS is properly installed you should get the message:

```
setting up paths for SimNIBS 2.0
```

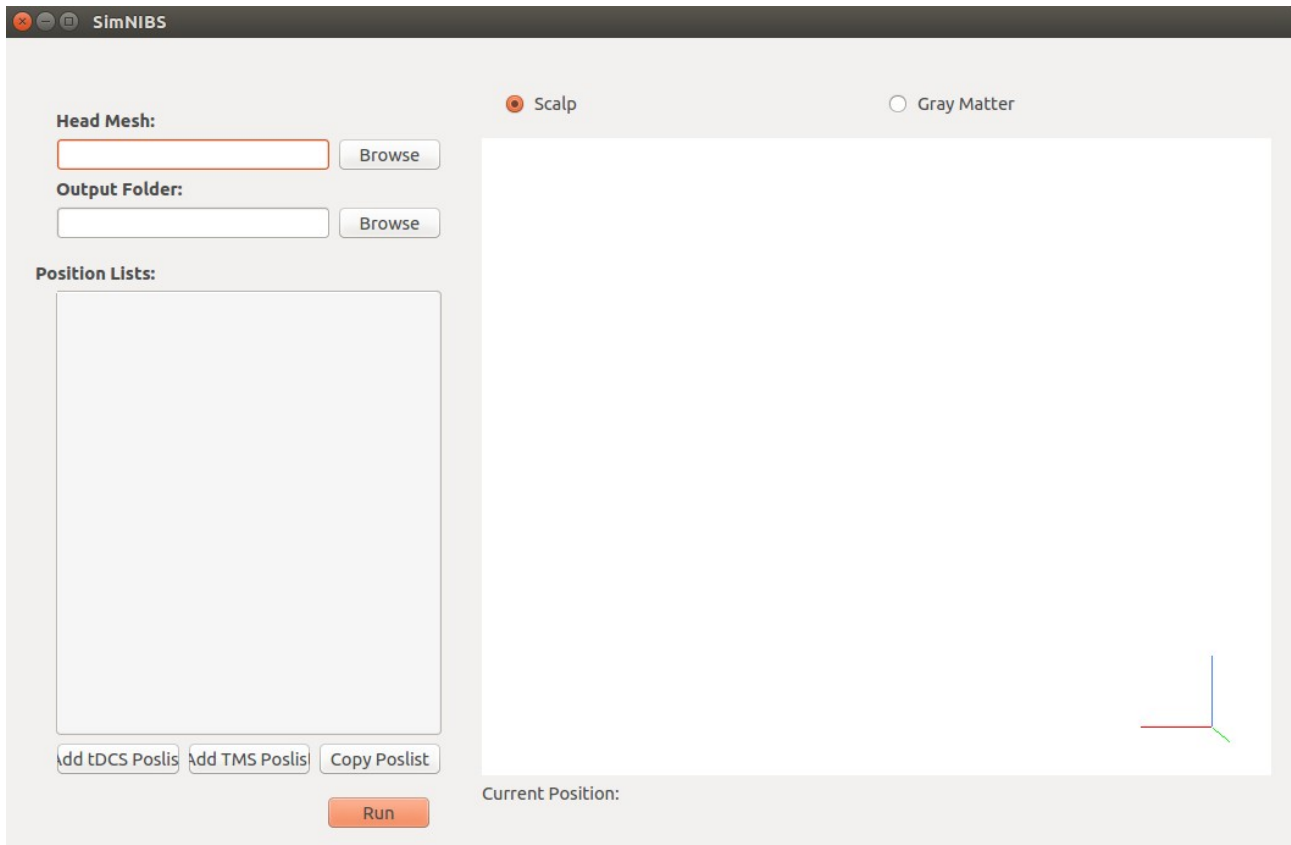
```
SIMNIBSDIR      /path/to/simnibs/folder
```

Start the SimNIBS Graphical User Interface by typing “Simnibs” (with capital S) in the terminal.



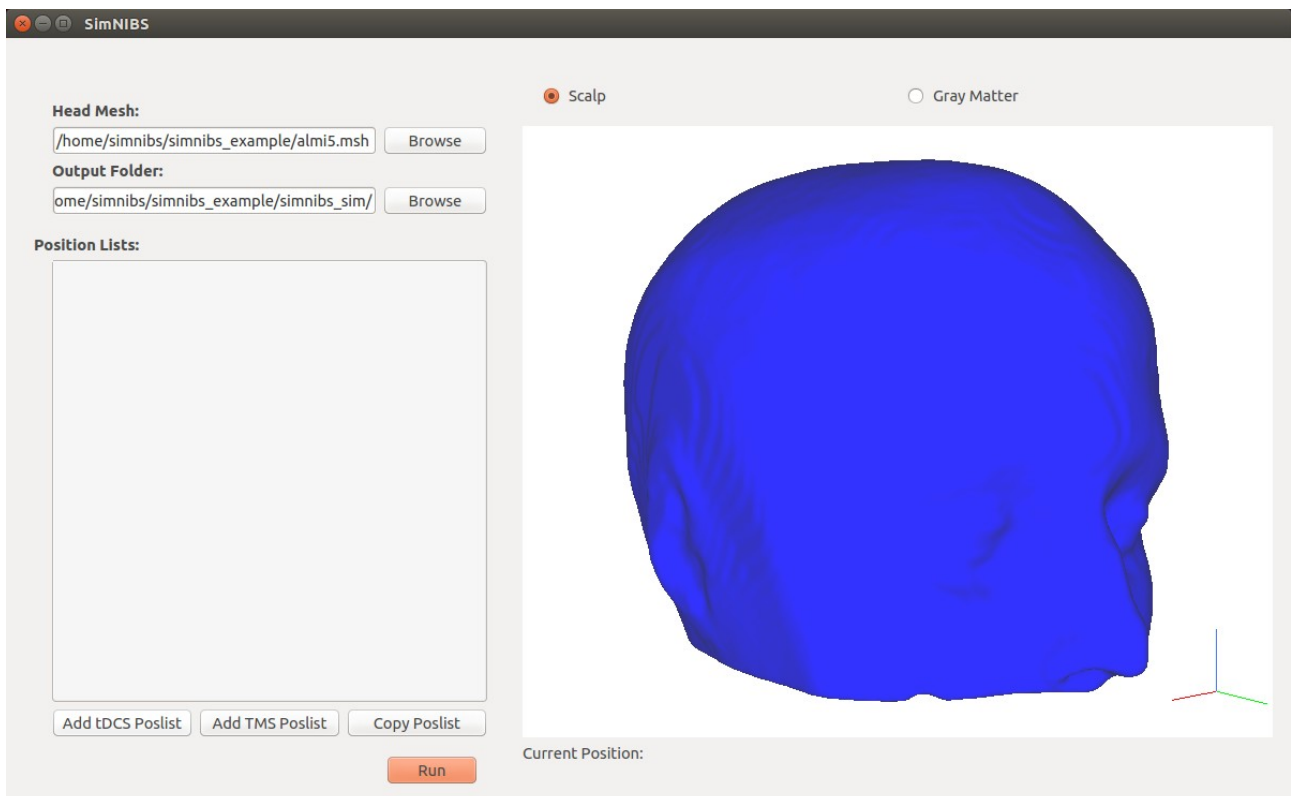
```
simnibs@guilherme-laptop: ~  
setting up paths for SimNIBS 2.0  
SIMNIBSDIR      /home/simnibs/simnibs  
simnibs@guilherme-laptop:~$ Simnibs
```

The following window should appear:

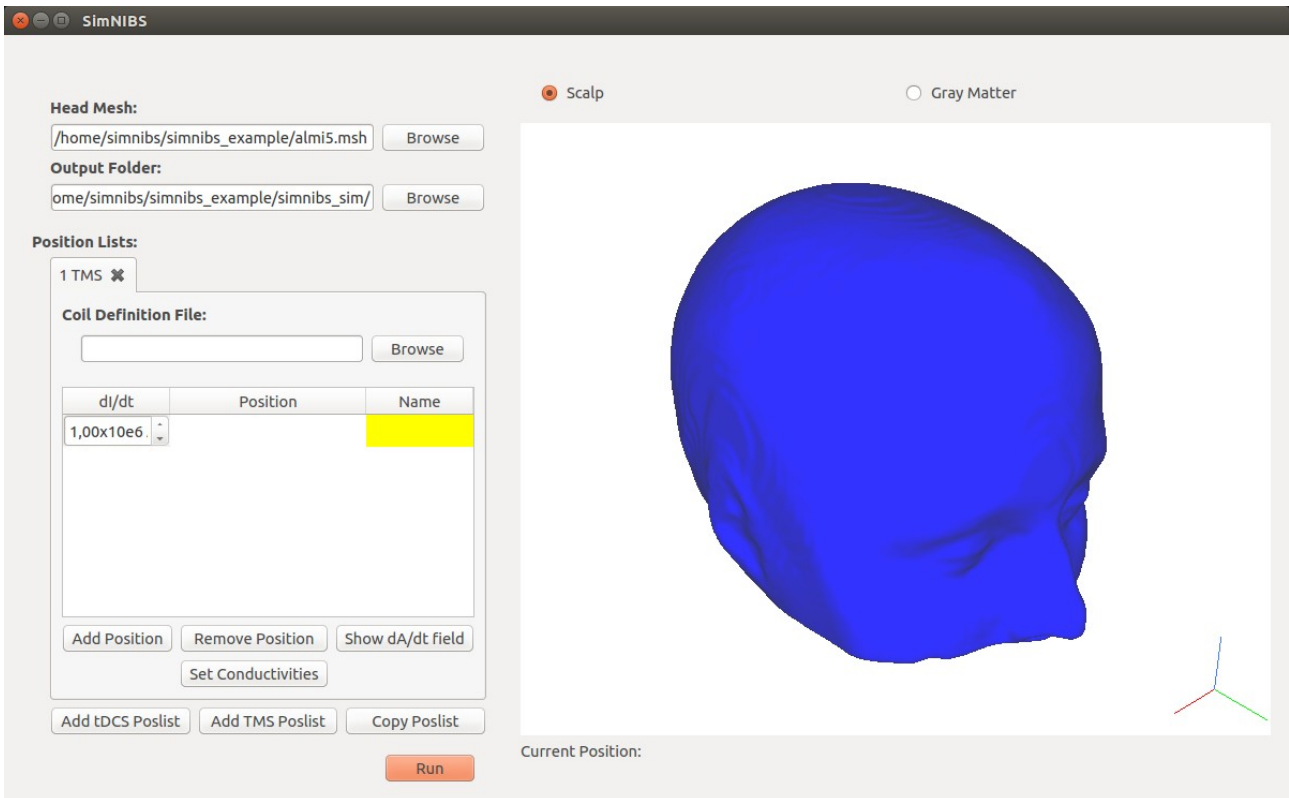


Click on “Browse” next to the highlighted area in order to select a head model “.msh” file

When selected, the model will appear in the right-hand side

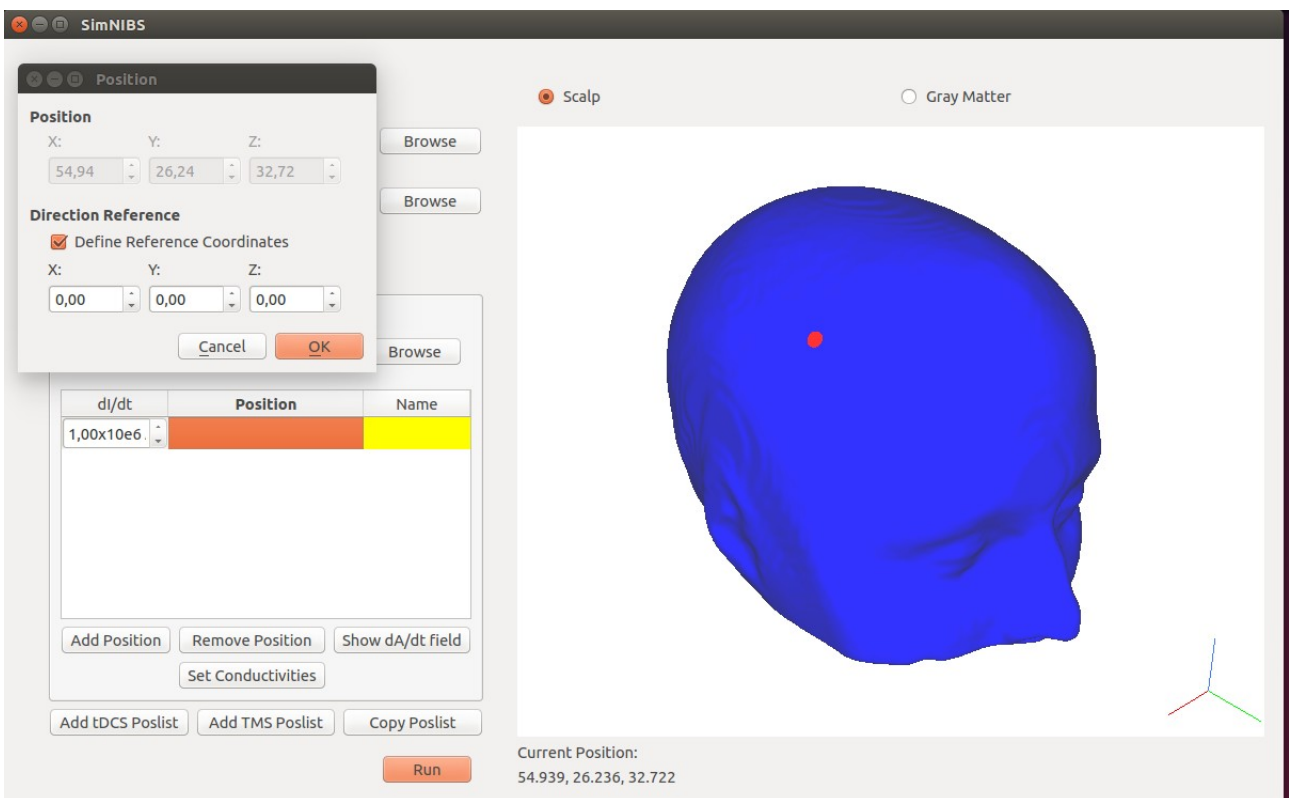


For setting up a TMS simulation, click on “Add TMS Poslist”

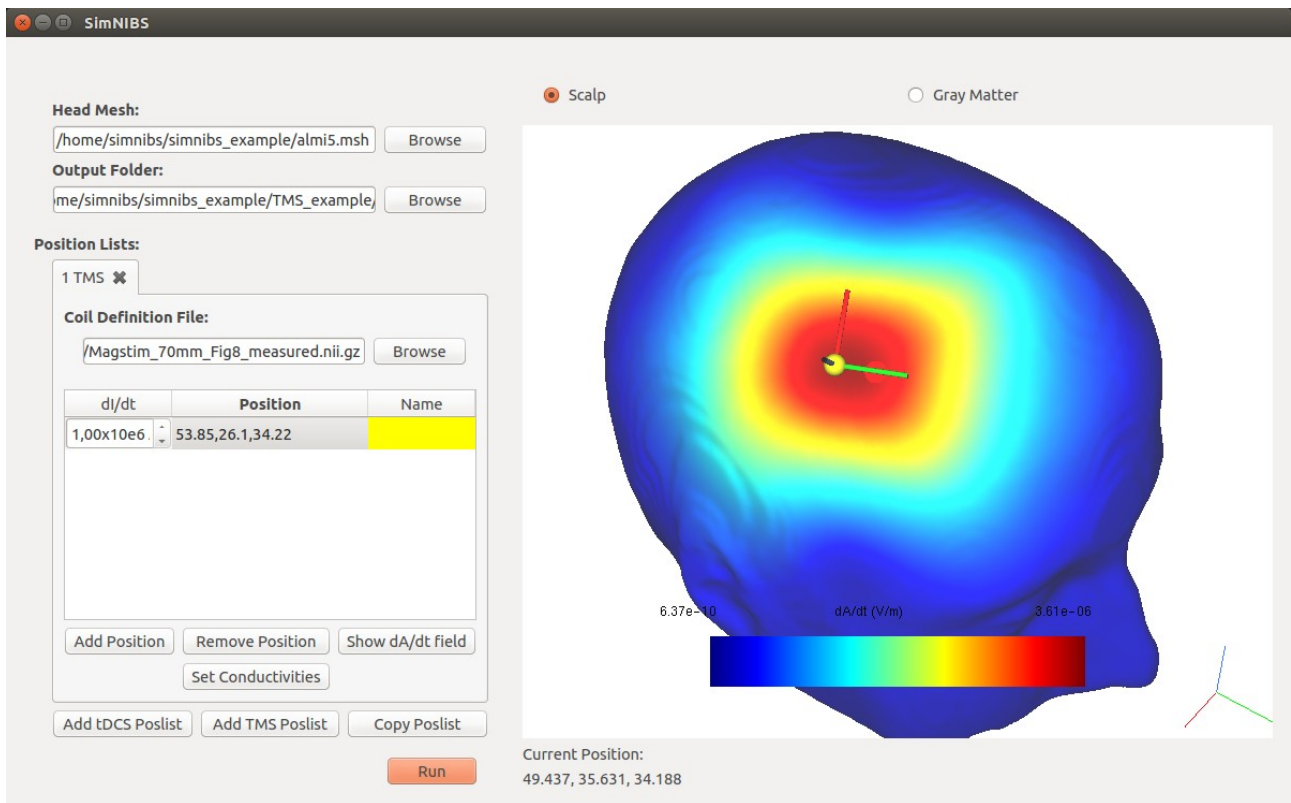


Select a coil file by clicking on “Browse” above the table

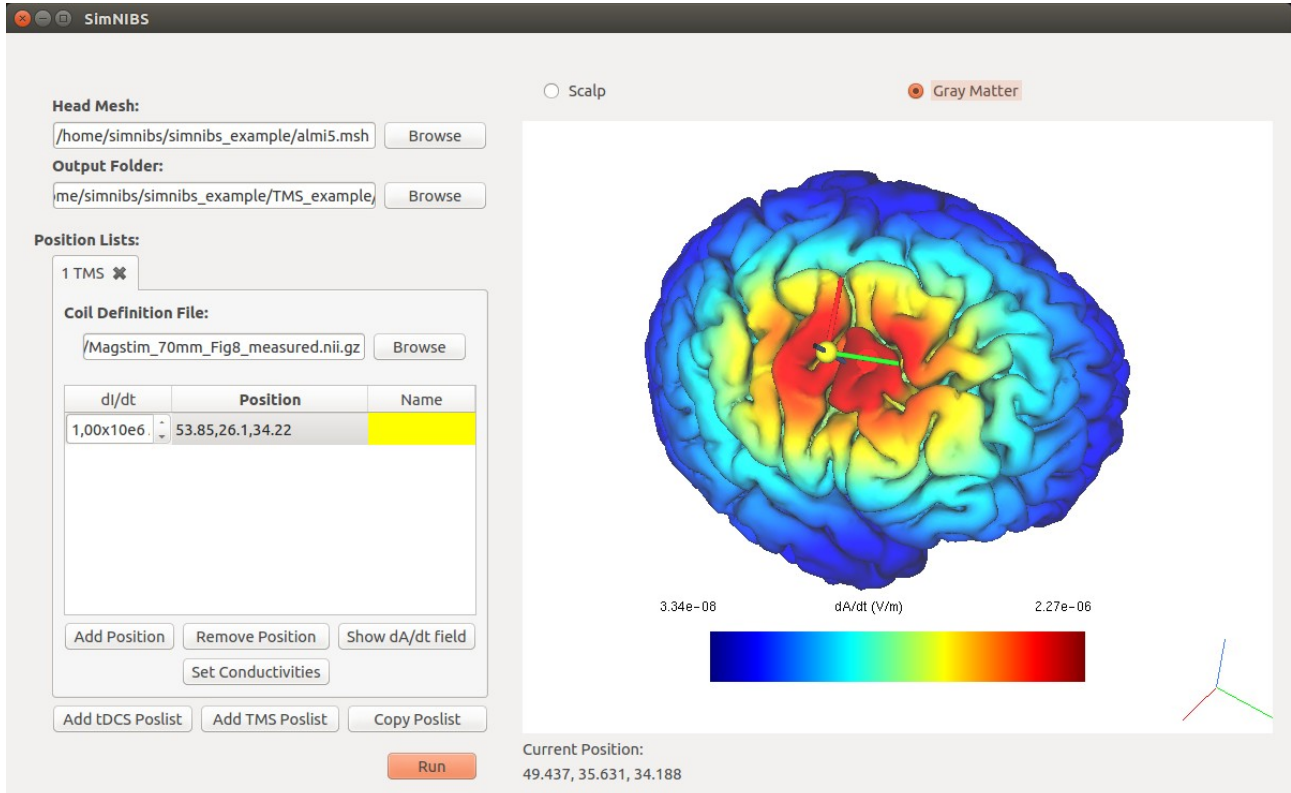
For selecting the coil position, click twice in the “Position” column. Click twice in the model for selecting the coil center position, and twice again for selecting the coil handle direction



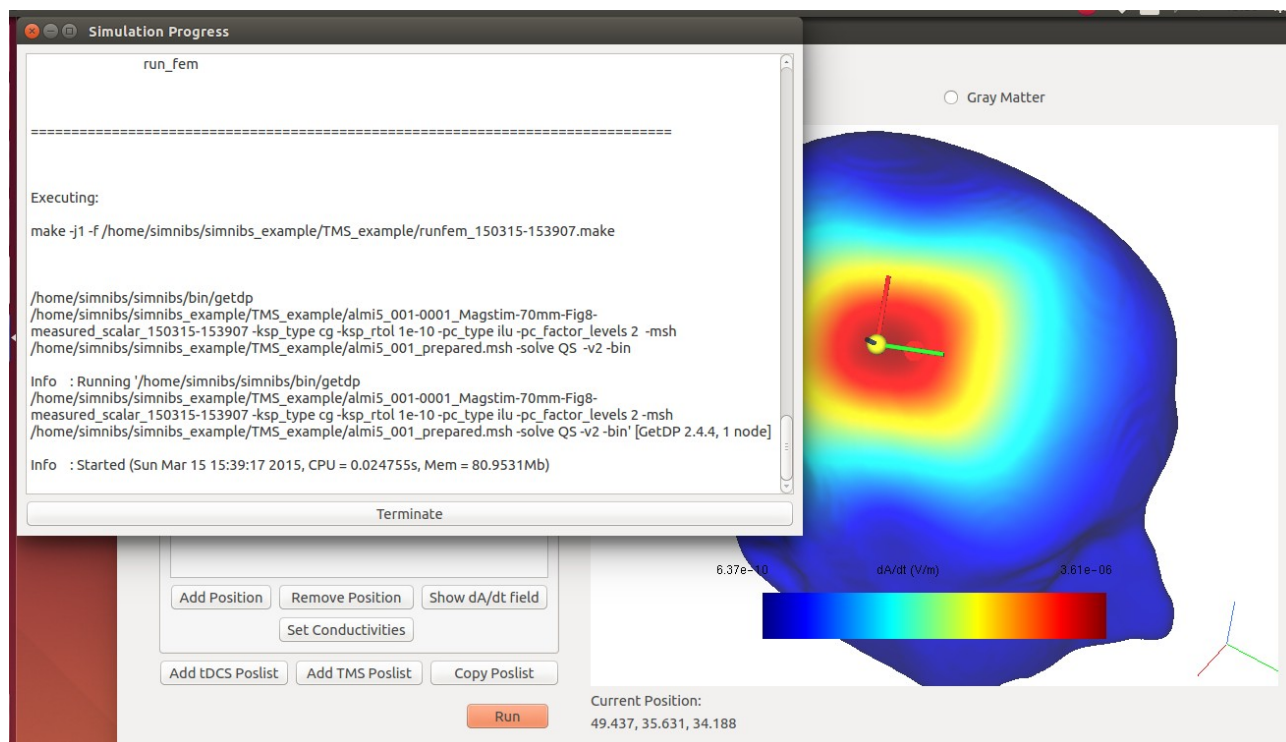
If you selected a nifti (.nii.gz) coil file, you can preview the variation in the magnetic vector potential ( $dA/dt$ )



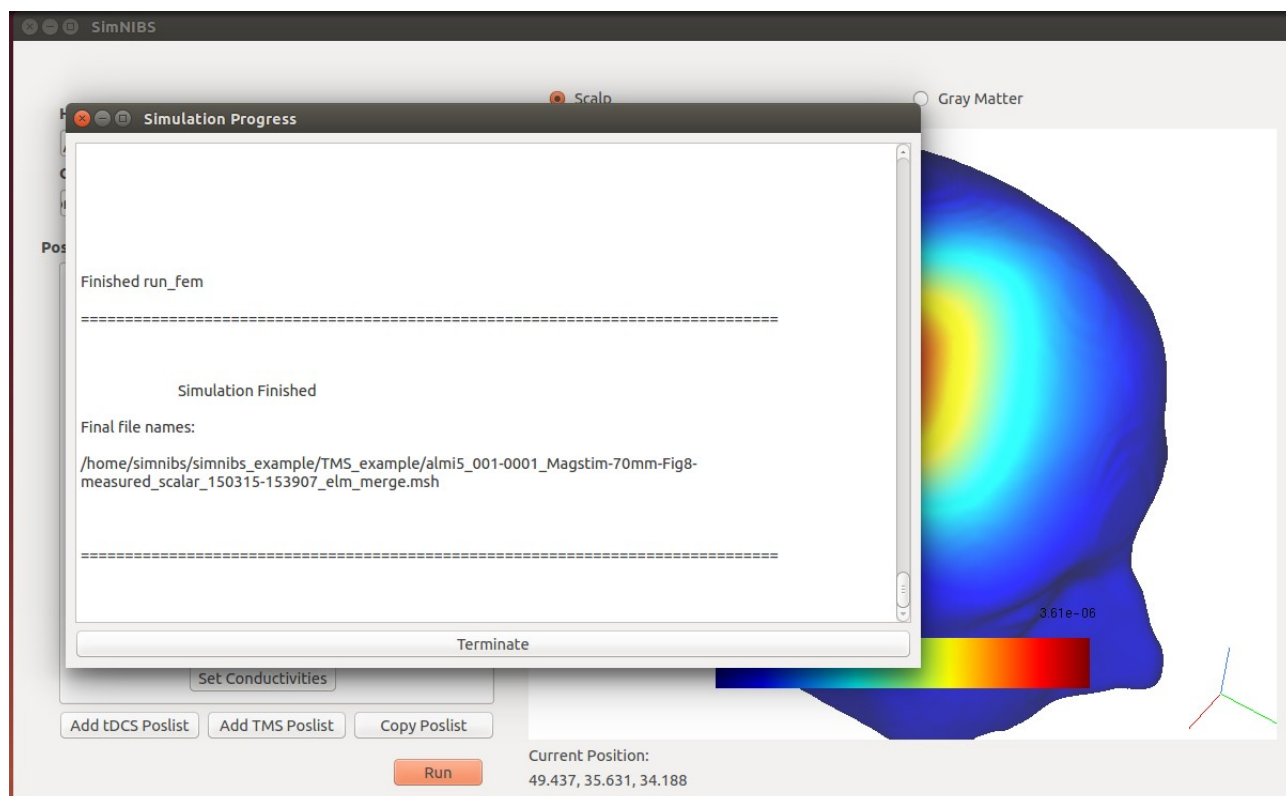
you can also view it in gray matter



Click in “Run” for starting the simulation



When the simulation is finished, this message will appear



You can open the final results using Gmsh. Type

```
gmsh <file_name>
```

In the Terminal.

For optimizing the visualization, we recommend using SimNIBS default Gmsh options. Just replace “~/gmsh-options” with the file we provide

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

