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====== Linux ======

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==== freesurfer ====

## run this, where doug.nii is T1 image

mkdir FREESURFER;recon-all -all -subjid doug -sd ./FREESURFER -i doug.nii

## then go to surf directory

mris\_convert lh.pial lh.pial.stl

mris\_convert rh.pial rh.pial.stl

mris\_convert lh.white lh.white.stl

mris\_convert rh.white rh.white.stl

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===== MeshLab =====

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File 🡪 Import Mesh

Do rh.pial.stl and lh.pial.stl separately

Filters 🡪 Remeshing, Simplification and Reconstruction 🡪 Quadratic Edge Collapse Decimation

Set target number of faces to 99,999

Click apply

Click close

File 🡪 Export Mesh As

Use .stl format

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==== MeshMixer ====

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Import 🡪 .stl file

Select 🡪 cover the subcortical medial wall, adjust brush size as needed

Click Edit 🡪 Discard

Edit 🡪 Hollow (use default settings)

Click accept

Select 🡪 check box for ‘Allow Back Faces’

cover the same portion of medial wall

Click Edit 🡪 Discard

Clean up any floating ‘scraps’

Export 🡪 use .stl binary format

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===== Netfabb =====

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Project 🡪 Open 🡪 .stl file

Repair (red cross in the top right) 🡪 Actions 🡪 Stitch Triangles

Set tolerance to 10.0mm

Click OK

Click Apply Repair

Click Remove old part

Part 🡪 Export Part 🡪 as STL

If caution window comes up, click optimize and then export

Can also use netfabb to scale down dimensions

Part 🡪 Scale