



Fill Holes

The fill holes function performs a flood-fill operation on the selected object. The operation reassigns voxels belonging to other objects to the selected object. The fill operation stops when it reaches the boundary of the object.



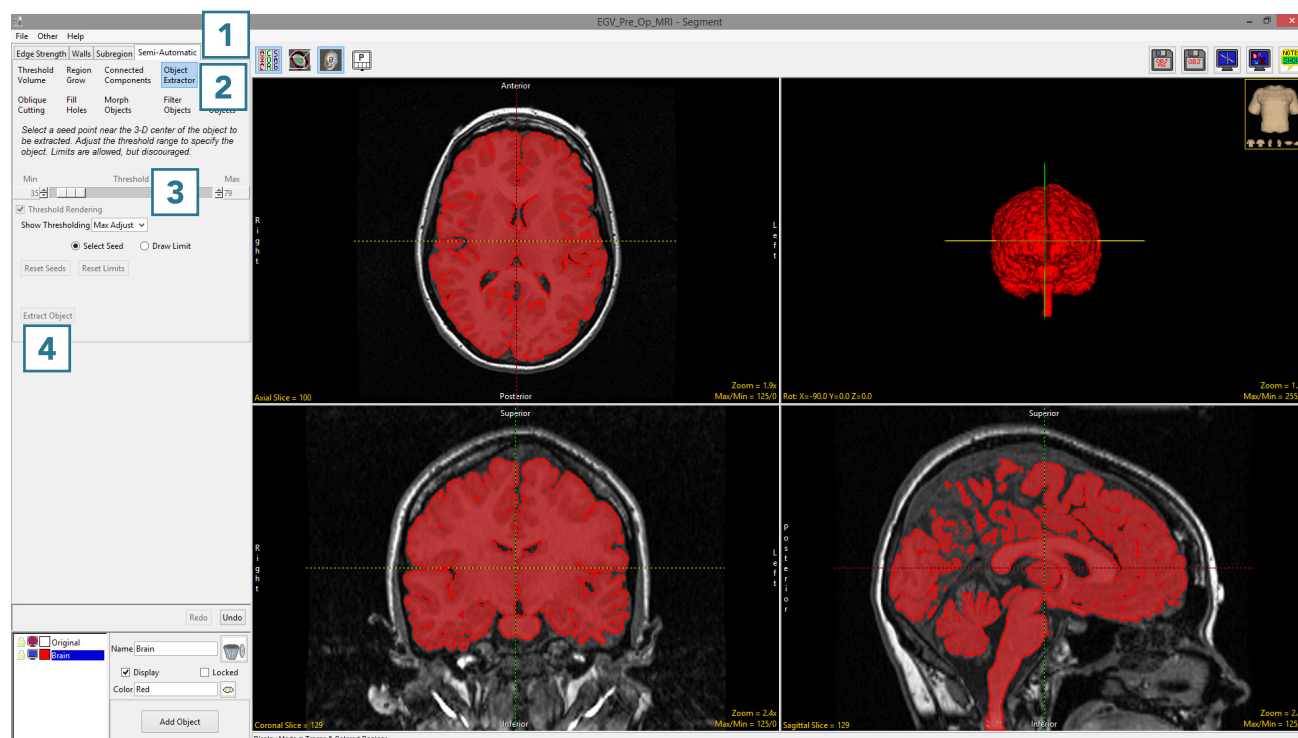
13. Filling Holes in Objects

After the initial segmentation, an object may contain holes, which are voxels belonging to the Original object. To obtain an accurate volume measurement and to ensure the object is whole, it may be necessary to apply a fill holes operation on the object.

- Select a data set and open Segment.
- Select Semi-Automatic **1** and choose Object Extractor. **2**
- Click on the image data to set a seed point.
- Adjust the minimum and maximum threshold values **3** to define the structure and select Extract Object. **4**

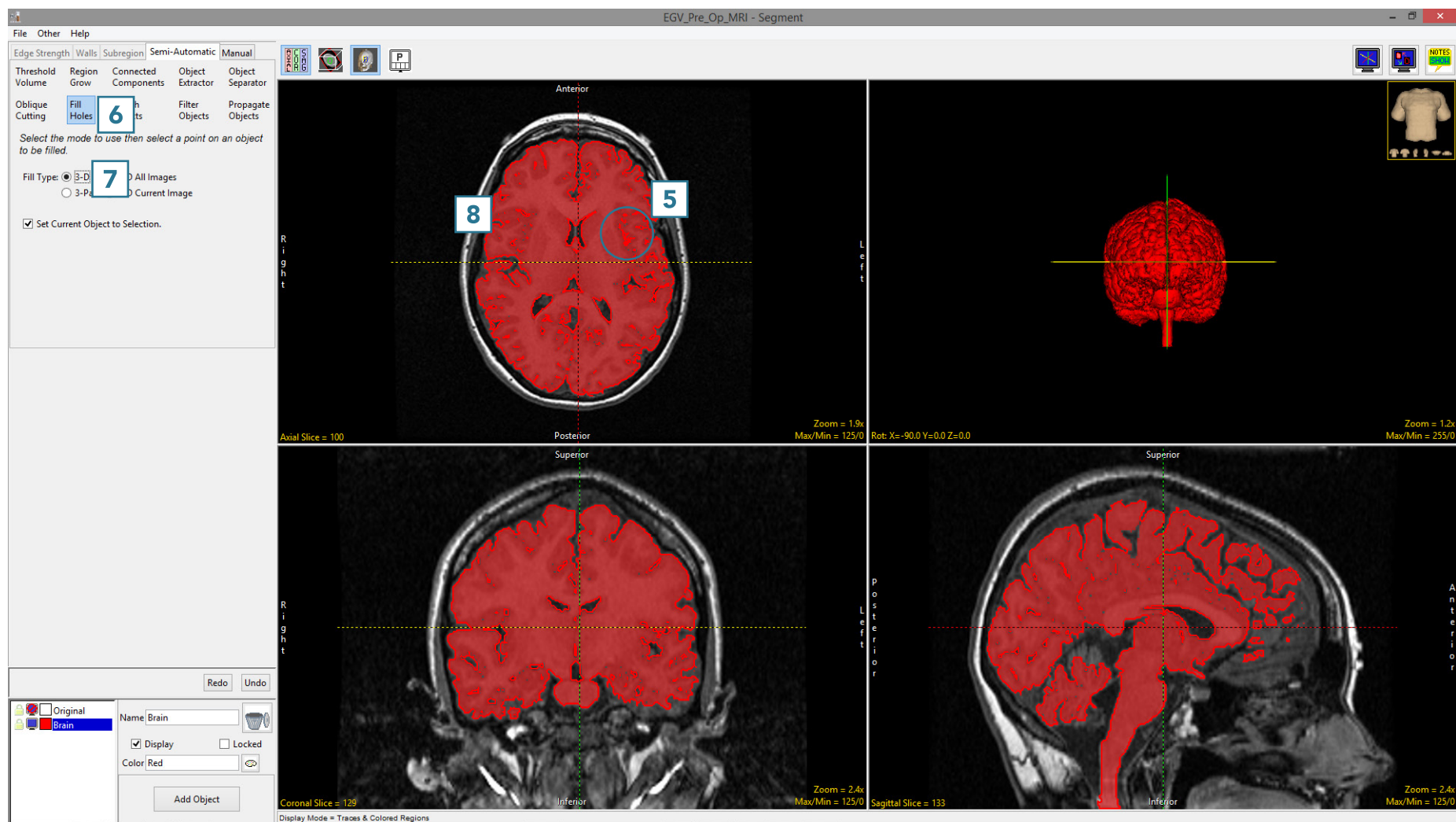


Download the EGV_MRI data set to follow along <http://analyzedirect.com/data/>





- To remove small holes in the object **5** which are a result of the segmentation parameters, select Fill Holes. **6**
- With the Fill Type set to 3D, **7** click on the object to fill smaller holes in the object. **8**





- To fill larger holes, such as the ventricular CSF, use the 3-Pass Fill Type **9** and click on the brain. **10** All larger holes will be filled and assigned to the object.
- Select File > Save Object Map to save your work.

