Slicer Prostate Workflow

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Learning Objective

Segment prostate images using the Slicer Prostate Extension

**Audience:** End-users

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1. Download the SlicerProstate Extension

https://github.com/SlicerProstate/SlicerProstate

2. Download the Publicly Available Dataset

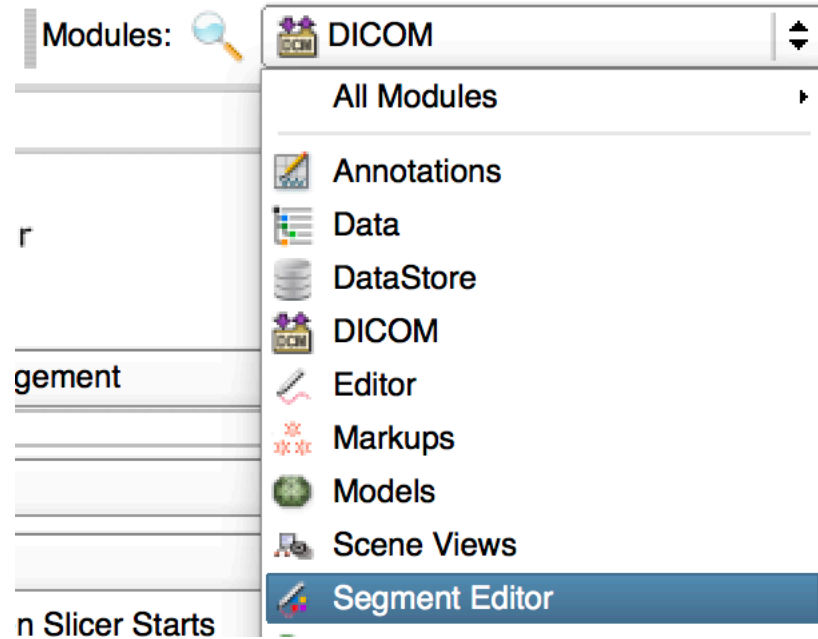http://www.insight-journal.org/midas/collection/view/178

3. Load DICOM images in 3D Slicer by clicking the DICOM button, clicking import, and selecting the appropriate DICOM folder
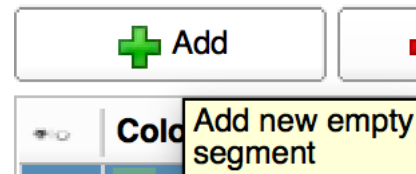

DICOM images should load and appear in all three planes on the right hand side of the user interface
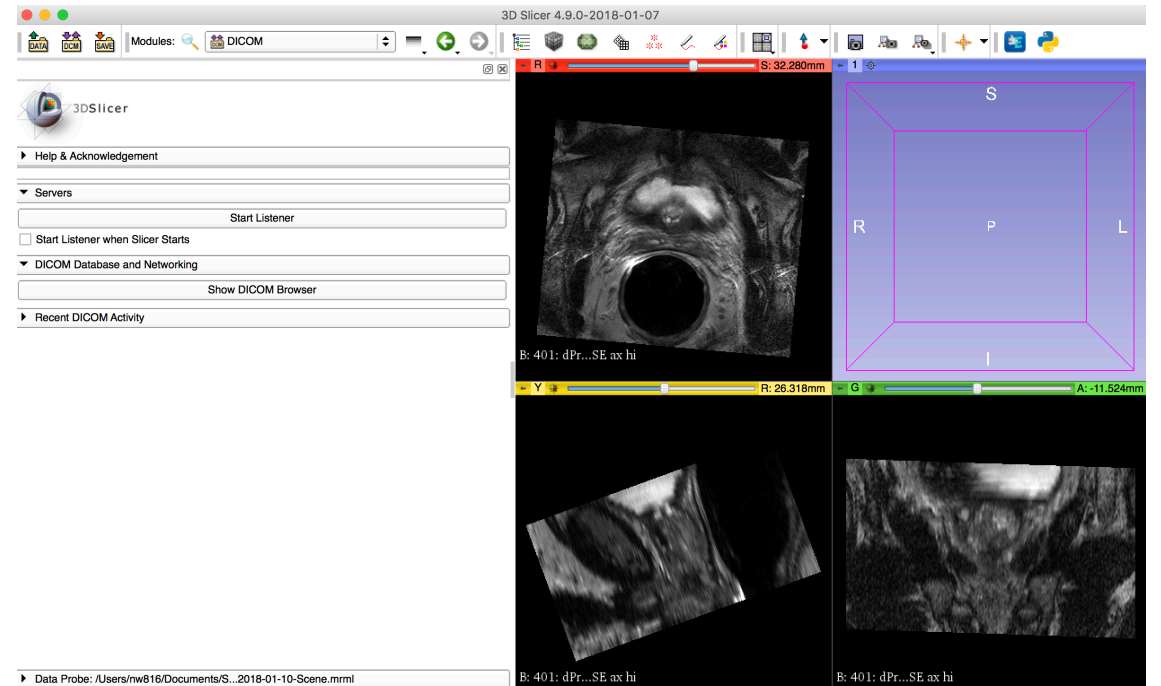
4. Switch Module to "Segment Editor"
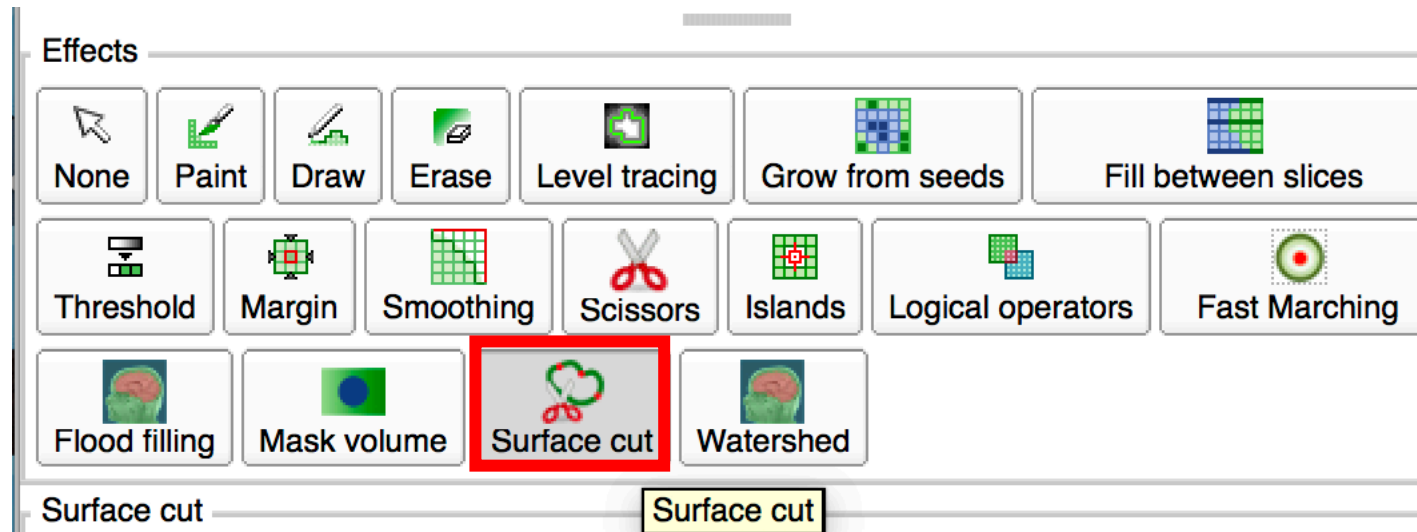

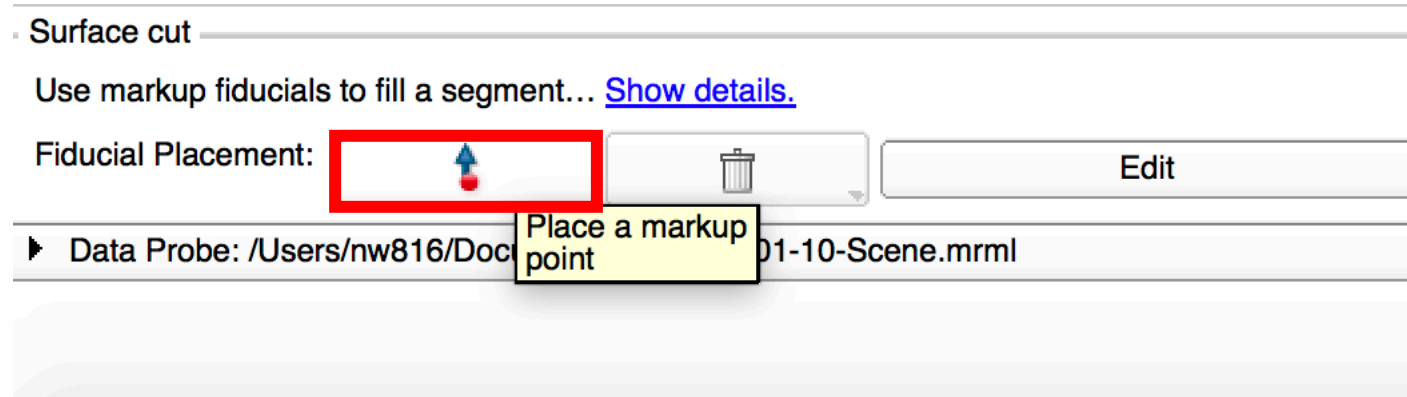5. Click "Add" to add a new region of interest

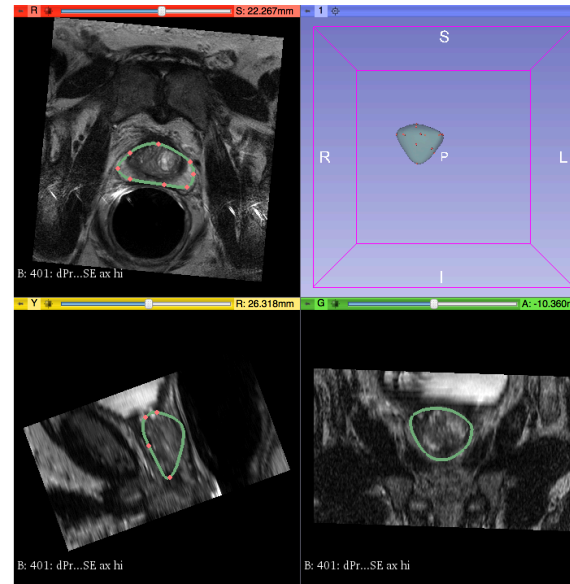6. Double click to change label name to "Prostate"

7. Click the "Surface Cut" button under the Effects tab on the bottom left of the screen
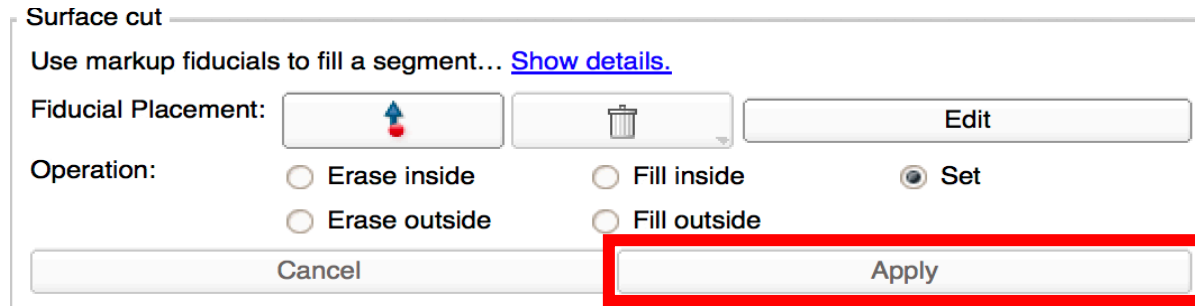
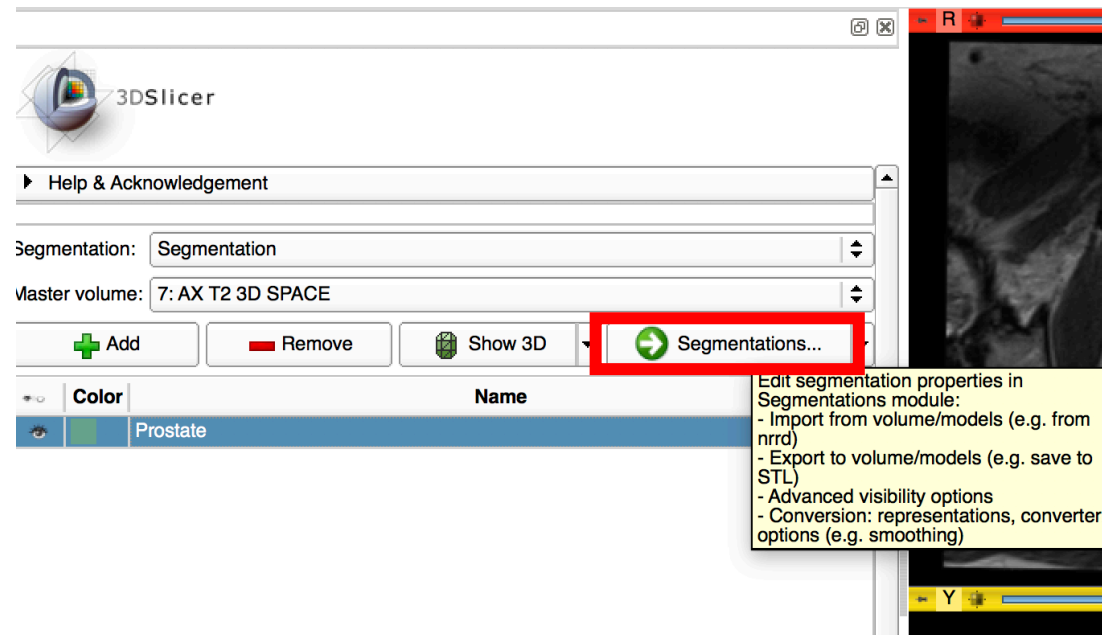8. Click the fiducial placement button located in the surface cut menu

9. Mark edges of prostate in all 3 planes until it is appropriately segmented
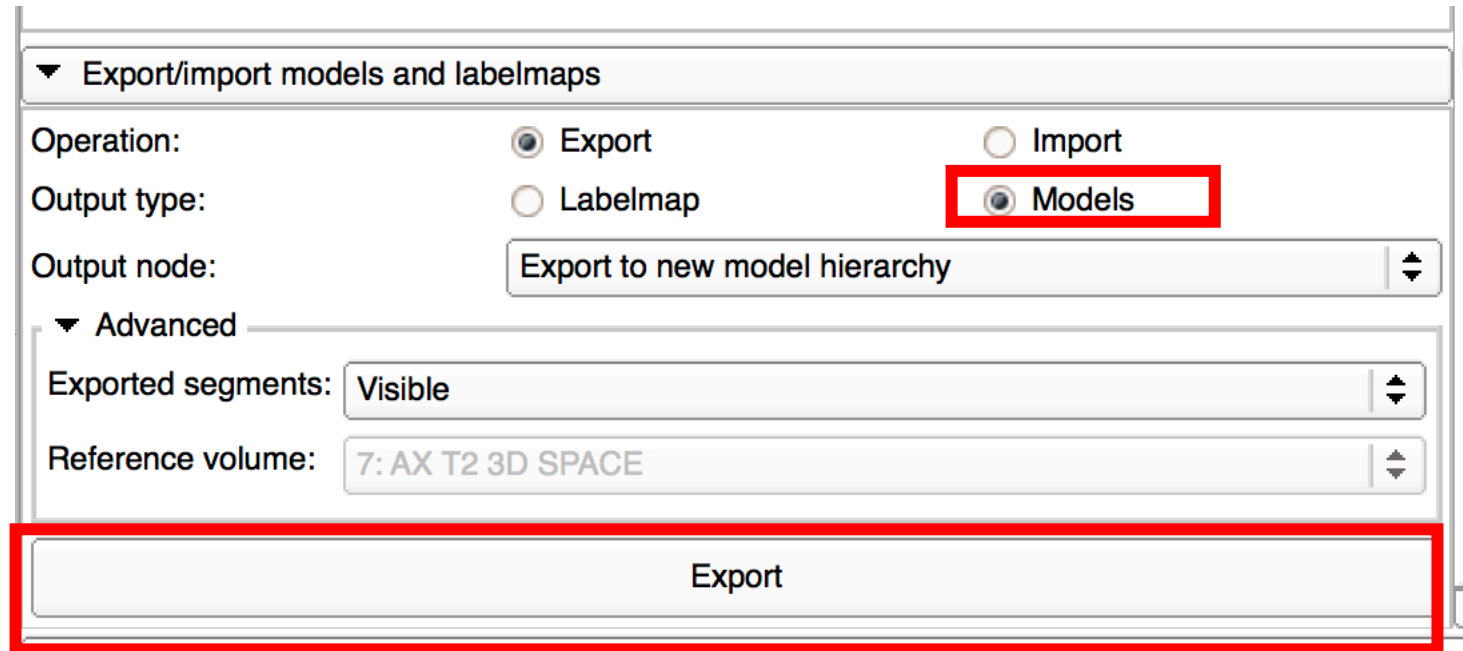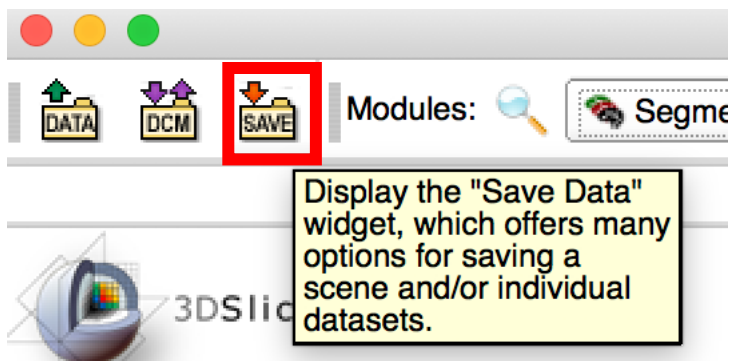
10. Click "Apply" to apply segmentation

11. To Export model, click "Segmentations"

12. Make sure "Models" is selected and click Export button

12. Click "Save" on the top left hand side of menu

13. Scroll down to prostate.vtk and save in preferred format