3d slicer logo

#### 3D Slicer

Yow the slice views are linked. If you click the 'Toggle slice visibility in 3D view' button.

Then all slices will show up.

## Data Loading and Visualization Tutorial

#### **Tutorial Dataset**

### Please download the following datasets:

https://github.com/PerkLab/PerkLabBootcamp/raw/master/Data/VisualizationTutorial\_HeadScene.mrb

#### Main user interface

#### Load Sample MRI Data

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The axial, sagittal, and coronal views automatically show the loaded volume

## Adjust window/level

Switch to window/level mouse mode

## Adjust window/level

Adjust window/level (brightness/contrast) using the left mouse button on a slice view

### Switch back to view/transform mode

#### Maximize view

# Slice view options

Position your mouse cursor over the pin icon to display the slice view toolbar

# Slice view options

Once the slice viewer toolbar is shown, click on the ">>".

#### Show ruler

#### Rotate to volume plane

Often, MRI volumes are not axis-aligned. To show the true axial view, click the 'Rotate to volume plane' button.

Note: This image will not be affected, but many DICOM MR images need to be aligned.

## Switch to conventional layout

#### Link views

After linking views, if any setting is changed in a 2D view, all others follow.

### Show slices in 3D

Now the slice views are linked. If you click the 'Toggle slice visibility in 3D view' button, then all slices will show up.

## Show slices in 3D

All three anatomical slices are shown in the 3D view.

## Navigating the 3D view

Use the left mouse button to **rotate**, and the right mouse button to **zoom** in and out.

#### Close the scene

### Part 2: 3D visualization of surface models of the brain

#### Load tutorial scene

Drag and drop the file VisualizationTutorial\_H eadScene.mrb into Slicer, then click **OK**.

## Center view

Click on the small box icon to center the view, in 3D or in 2D

## Explore loaded data

You can use the module list, or the favorite module toolbar to switch to the **Data module** 

### Explore loaded data

The Data module shows all the data in the scene.

The data items ("nodes") can be shown/hidden, renamed, deleted, cloned, etc.

Hide the 'skin' model by clicking the eye icon.