

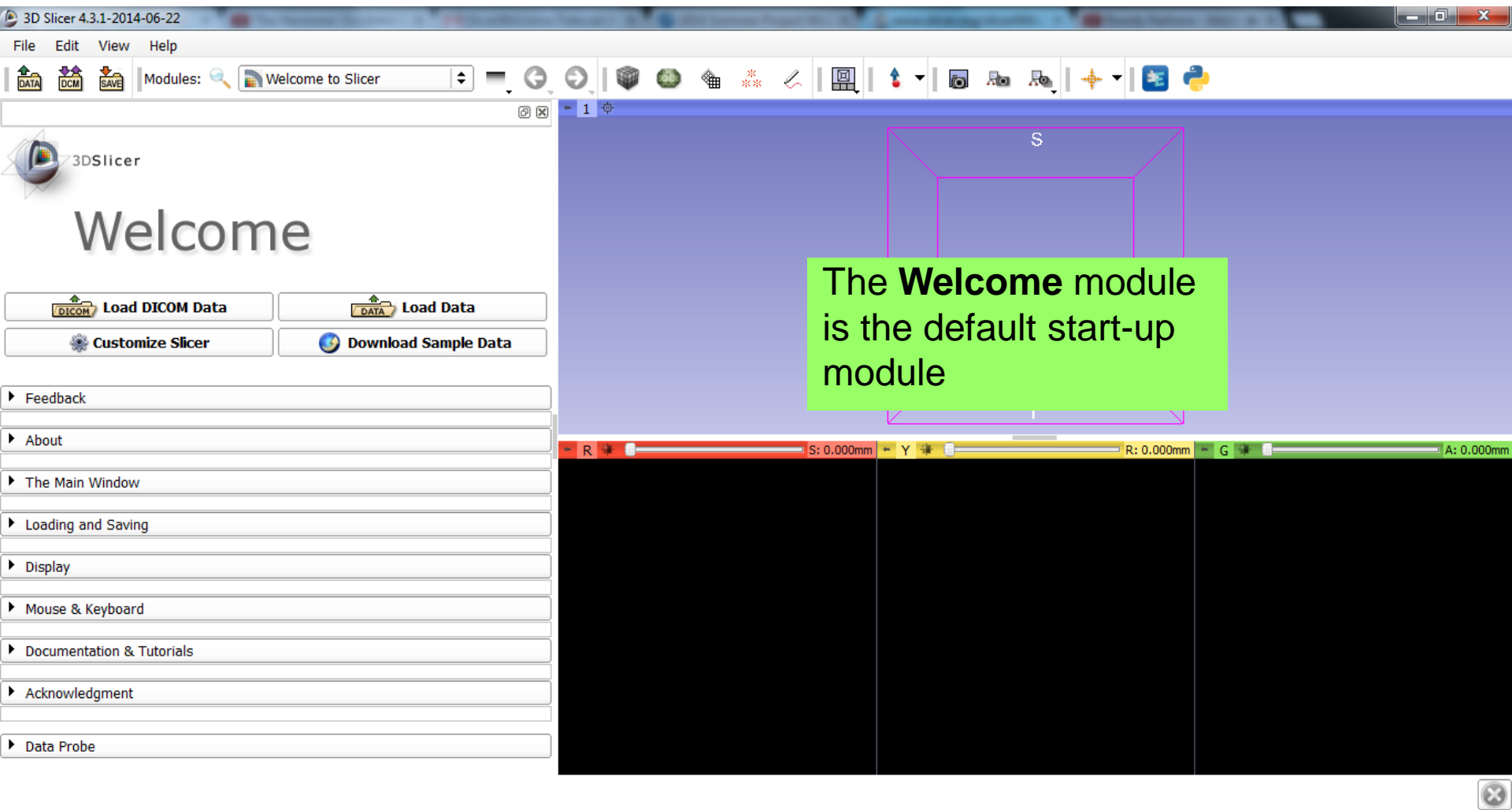


SlicerWelcome Tutorial

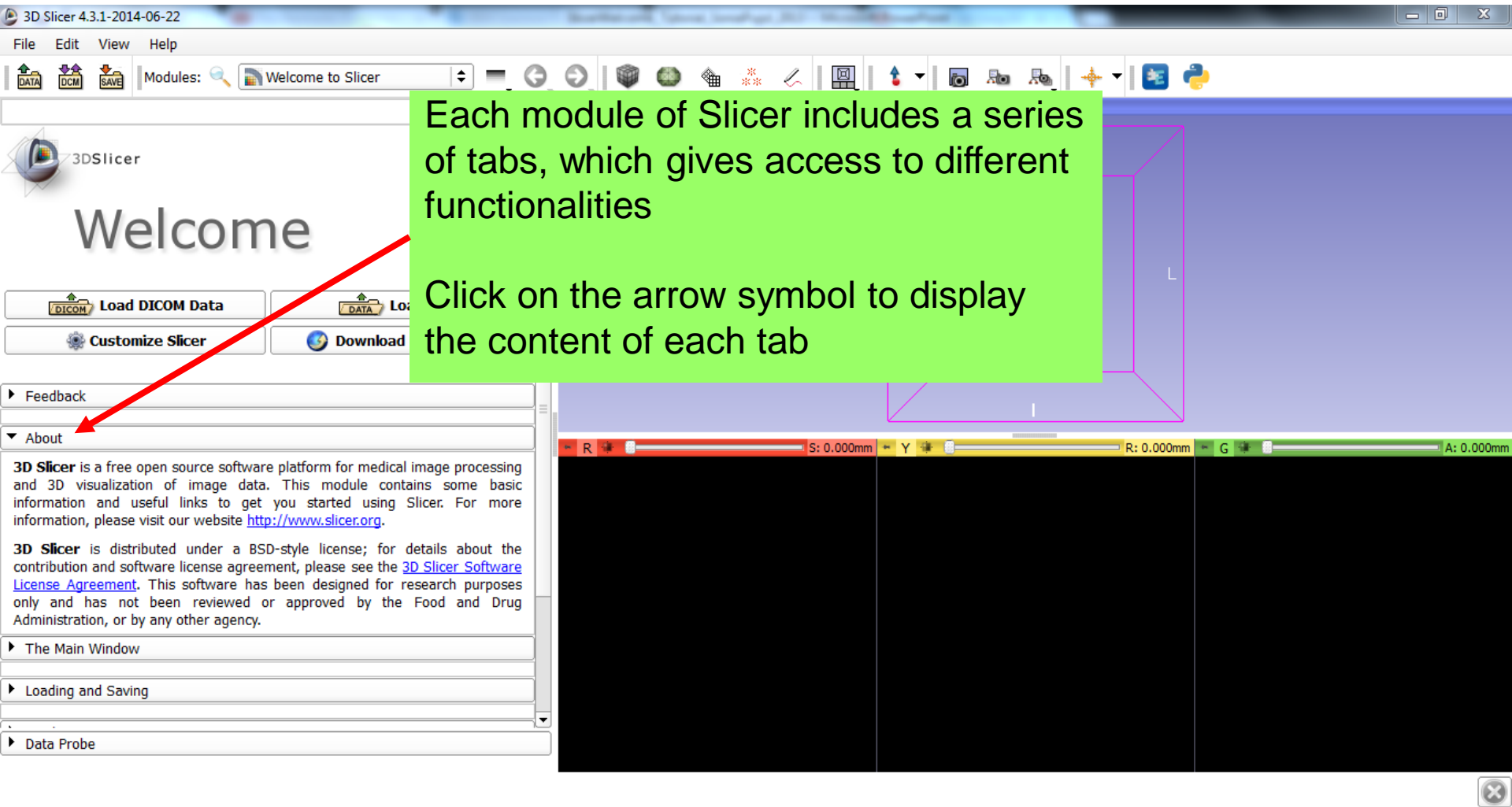
Sonia Pujol, Ph.D.

Surgical Planning Laboratory
Harvard University

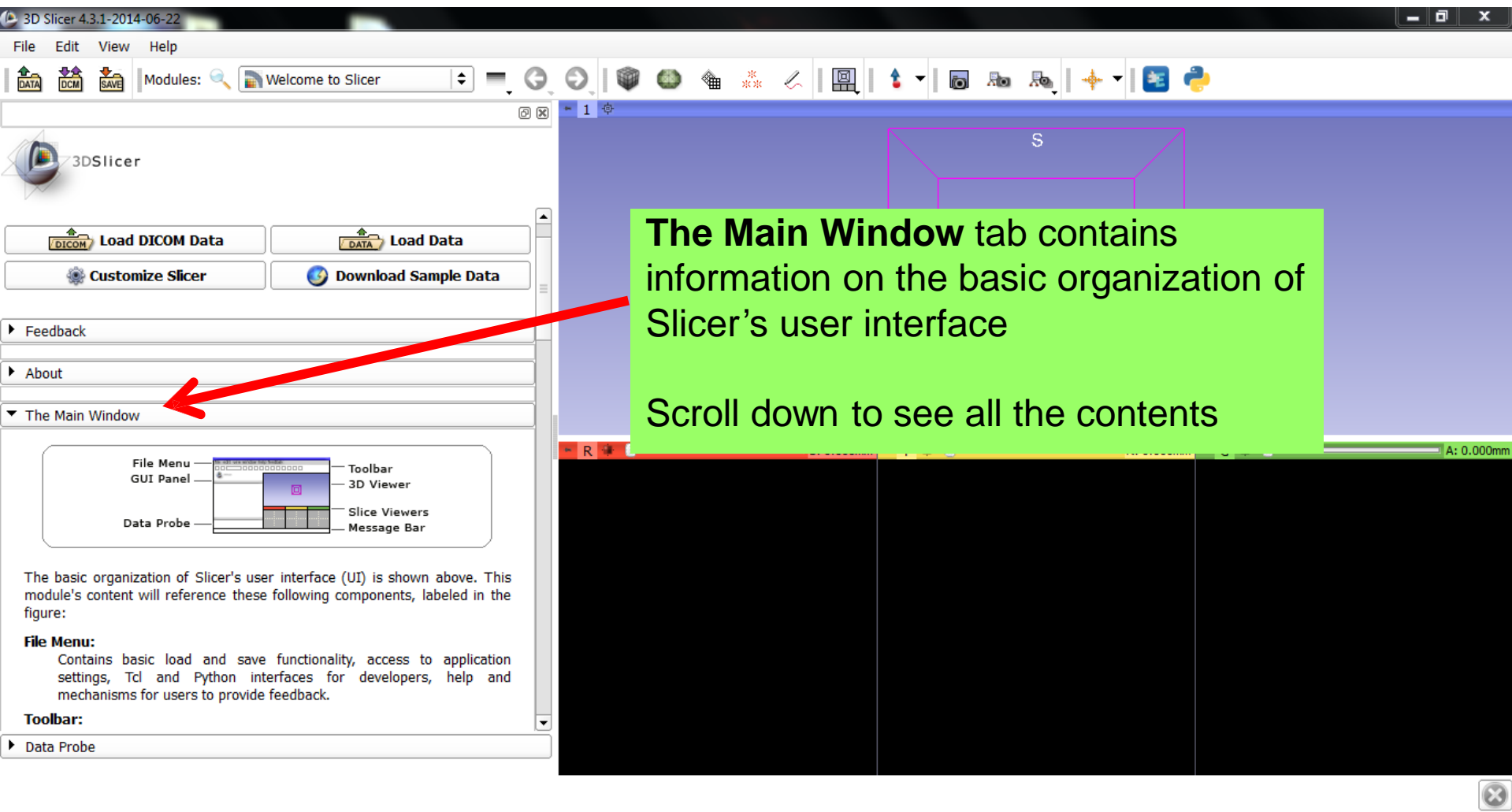
3DSlicer Version 4.3.1



3DSlicer Version 4.3.1



3DSlicer Version 4.3.1



The Main Window tab contains information on the basic organization of Slicer's user interface

Scroll down to see all the contents

File Menu
Contains basic load and save functionality, access to application settings, Tcl and Python interfaces for developers, help and mechanisms for users to provide feedback.

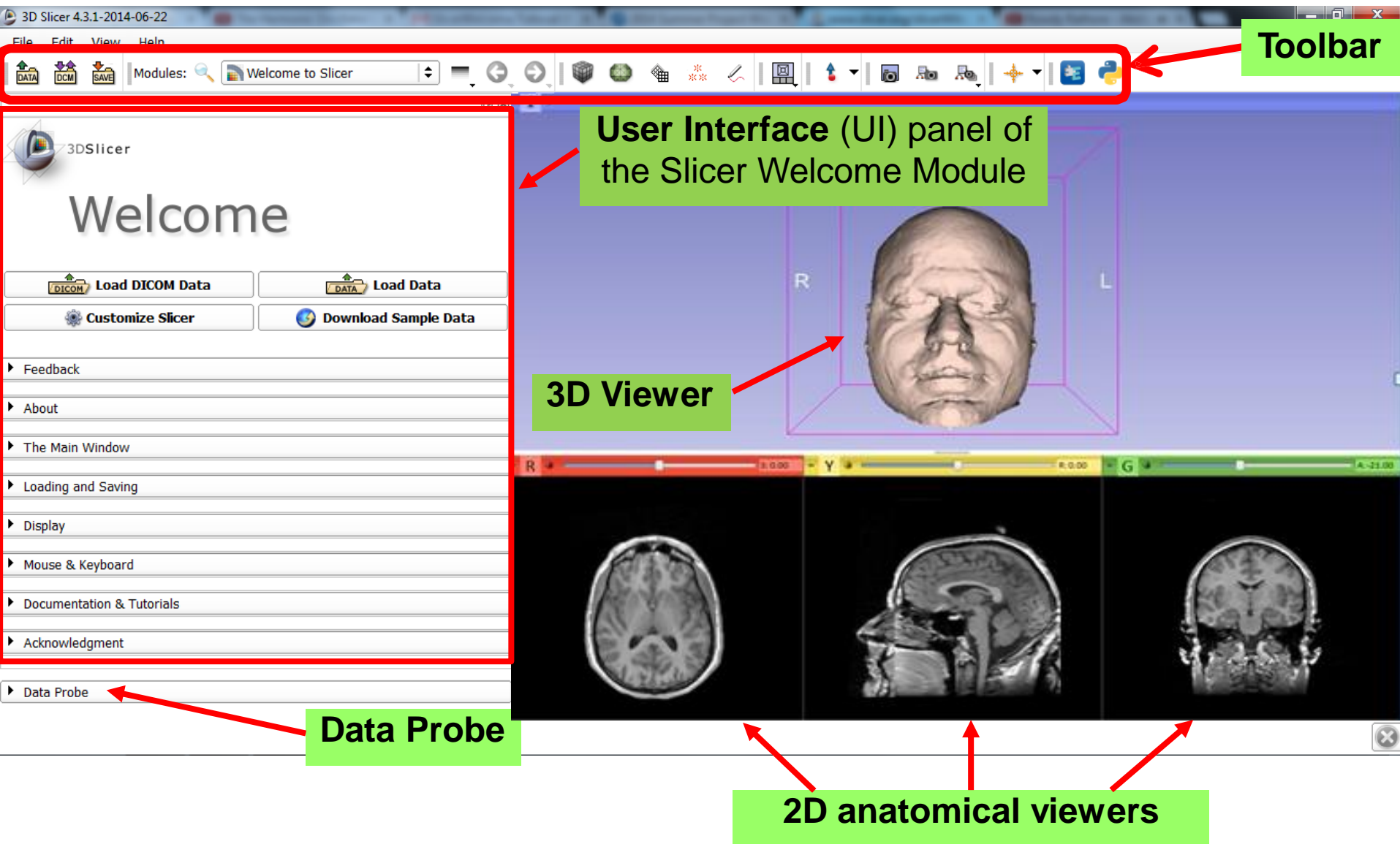
Toolbar:

Data Probe

File Menu
GUI Panel
Data Probe

Toolbar
3D Viewer
Slice Viewers
Message Bar

Slicer User Interface



Welcome Module

3D Slicer 4.3.1-2014-06-22

File Edit View Help

Modules: Welcome to Slicer

3DSlicer

- ▶ The Main Window
- ▶ Loading and Saving
- ▶ Display
- ▶ Mouse & Keyboard
- ▼ Documentation & Tutorials

Application- and Module-Specific Documentation

- [Slicer4 Documentation Wiki pages..](#)

Help For Performing Common Tasks:

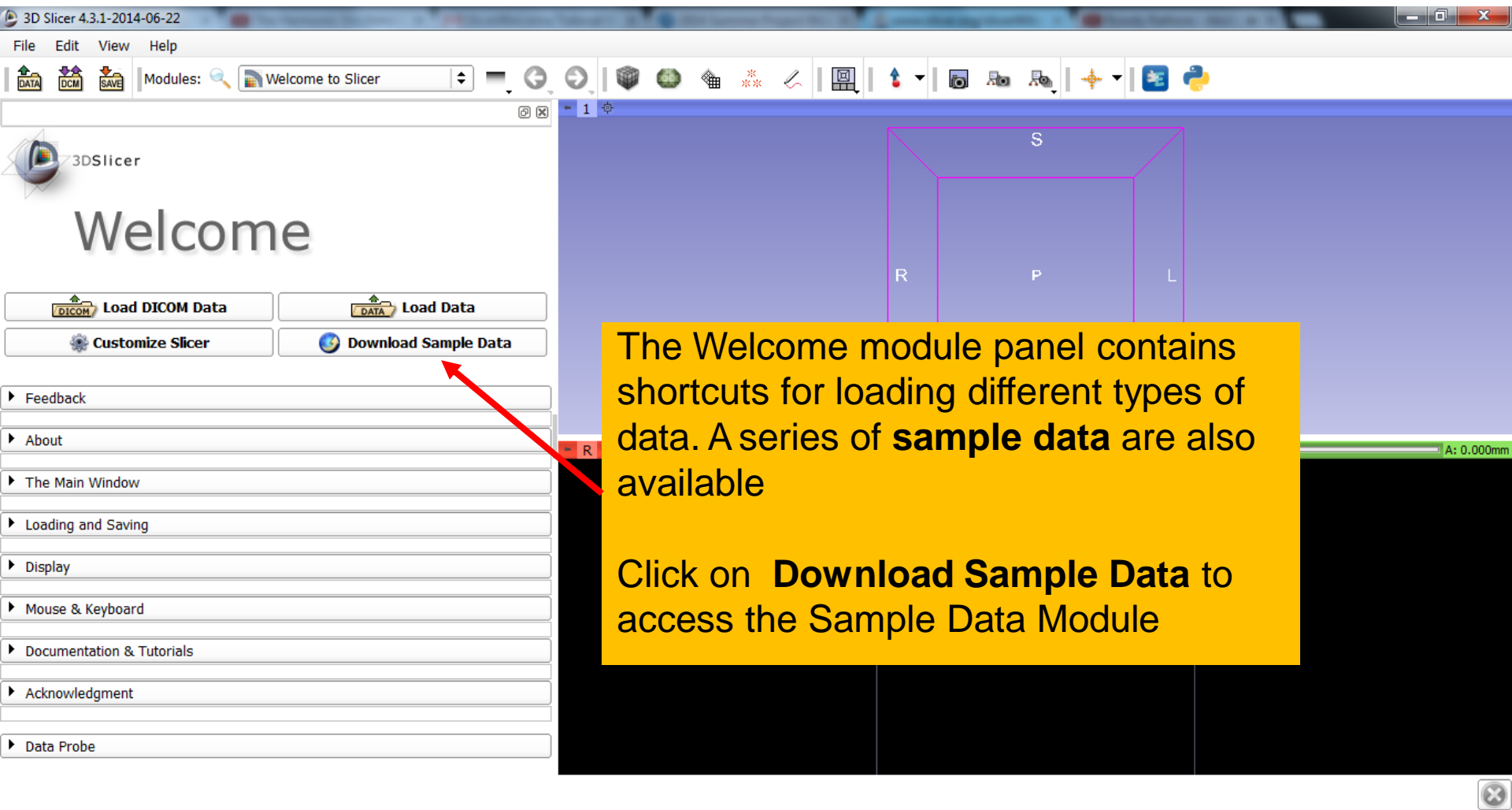
- [General application and specific module documentation.](#)
- Information on [loading data.](#)
- Information on [saving data.](#)
- Information on [creating and editing annotations using the Annotations Module.](#)
- Information about [using the Editor Module for manual segmentation of image data.](#)
- Information about [capturing and restoring Scene Views.](#)
- Information about [volume rendering in Slicer.](#)

▶ Data Probe

The **Documentation & Tutorials** tab contains links to the Slicer4 training compendium and documentation

R: 0.000mm Y: 0.000mm G: 0.000mm A: 0.000mm

Welcome Module



Sample Data

The screenshot shows the 3D Slicer 4.3.1-2014-06-22 interface. The 'Sample Data' module is selected in the top toolbar. The left sidebar shows the 'Help & Acknowledgement' section with a 'BuiltIn' category. A red rounded rectangle highlights a list of download links for various sample datasets. A yellow callout box with a red arrow pointing to the list contains the text: 'The **Sample Data** module contains links to eleven different sample datasets that can be downloaded into Slicer'. The main 3D view area is currently empty, showing a blue background with a purple box labeled 'S' and a white box labeled 'I'. The bottom status bar shows 'Status: Idle' and 'Data Probe'.

3D Slicer 4.3.1-2014-06-22

File Edit View Help

Modules: Sample Data

3DSlicer

Help & Acknowledgement

BuiltIn

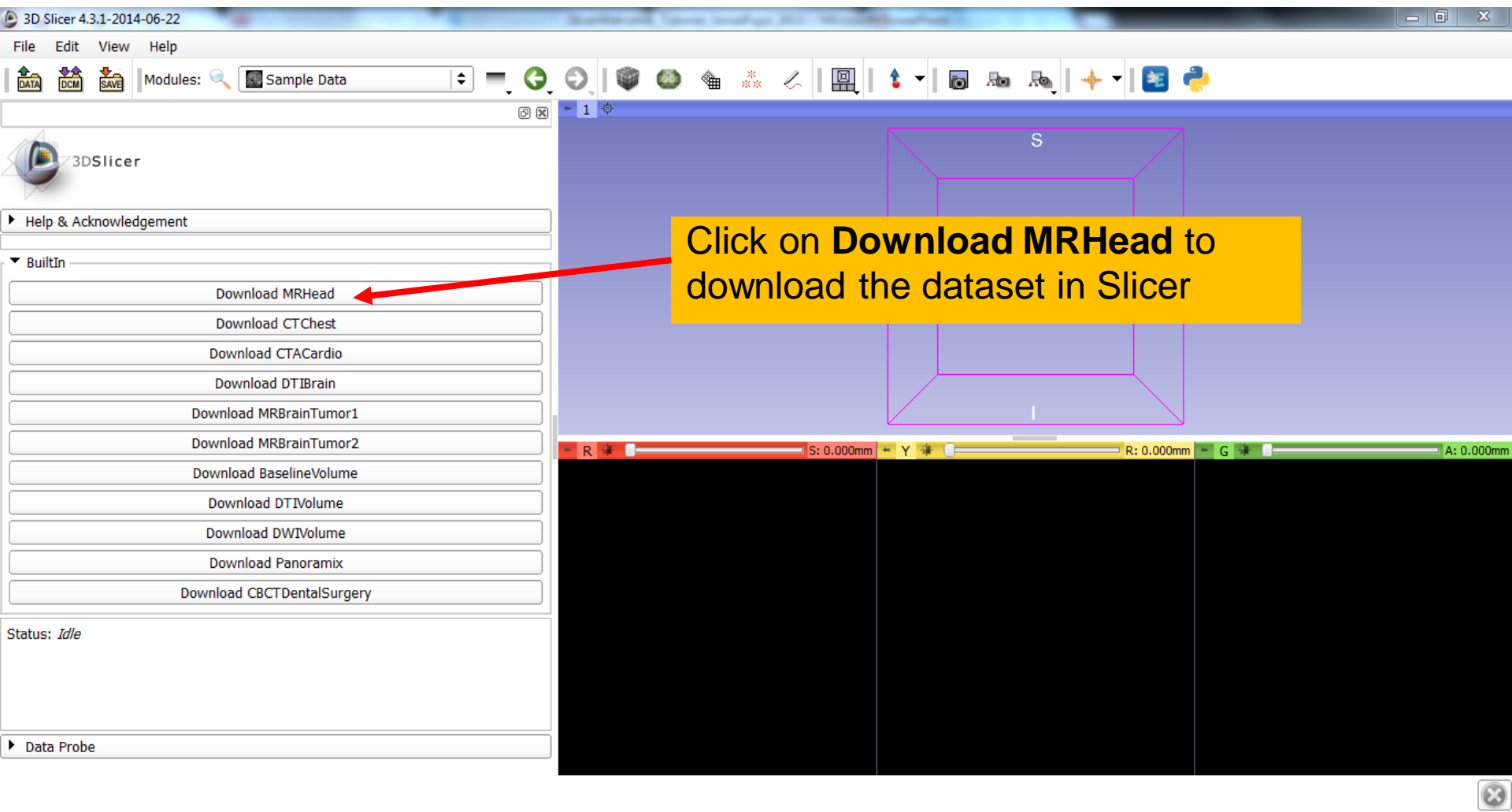
- Download MRHead
- Download CT Chest
- Download CTACardio
- Download DTIBrain
- Download MRBrainTumor1
- Download MRBrainTumor2
- Download BaselineVolume
- Download DTIVolume
- Download DWIVolume
- Download Panoramix
- Download CBCTDentalSurgery

Status: Idle

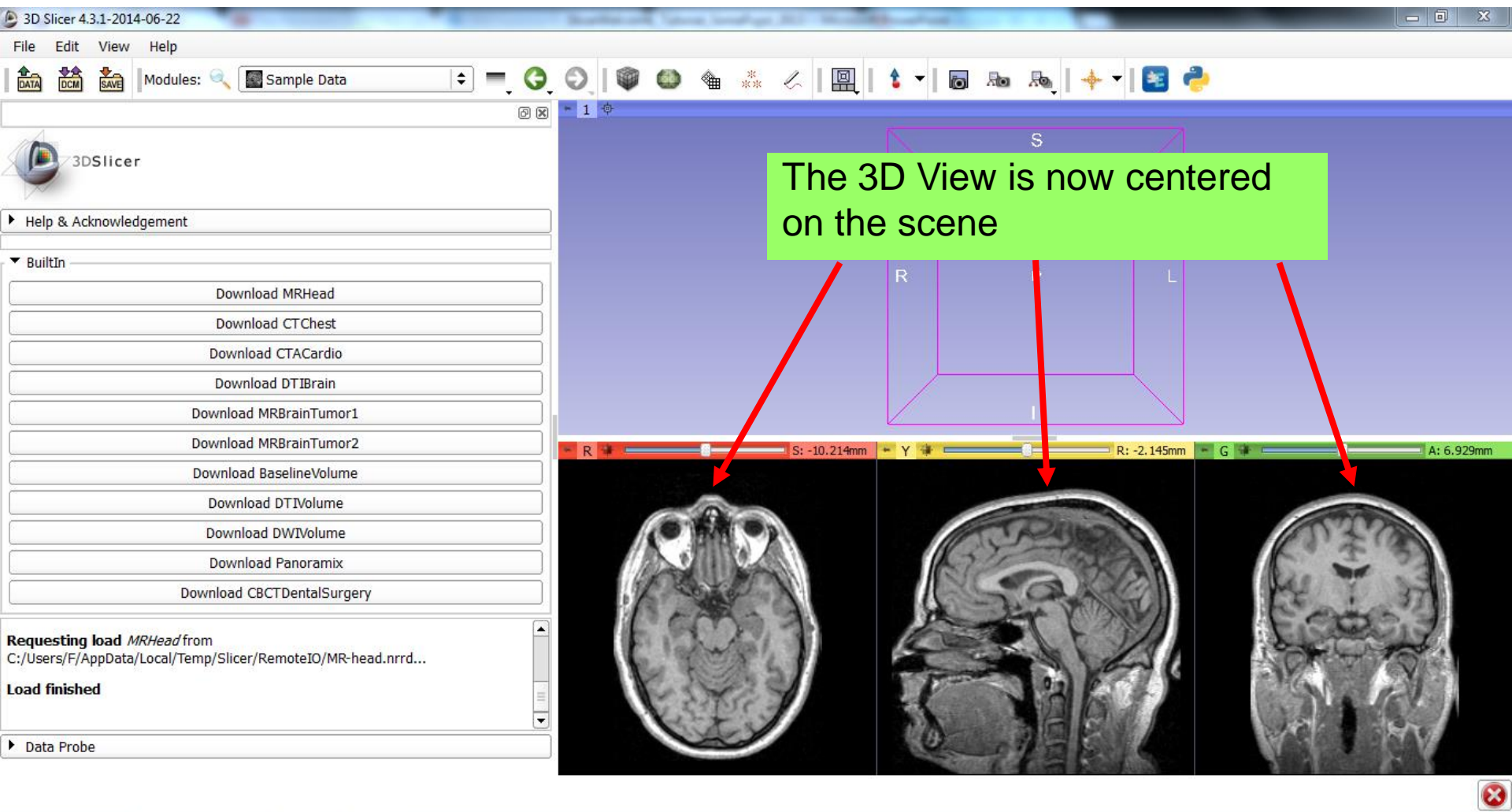
Data Probe

The **Sample Data** module contains links to eleven different sample datasets that can be downloaded into Slicer

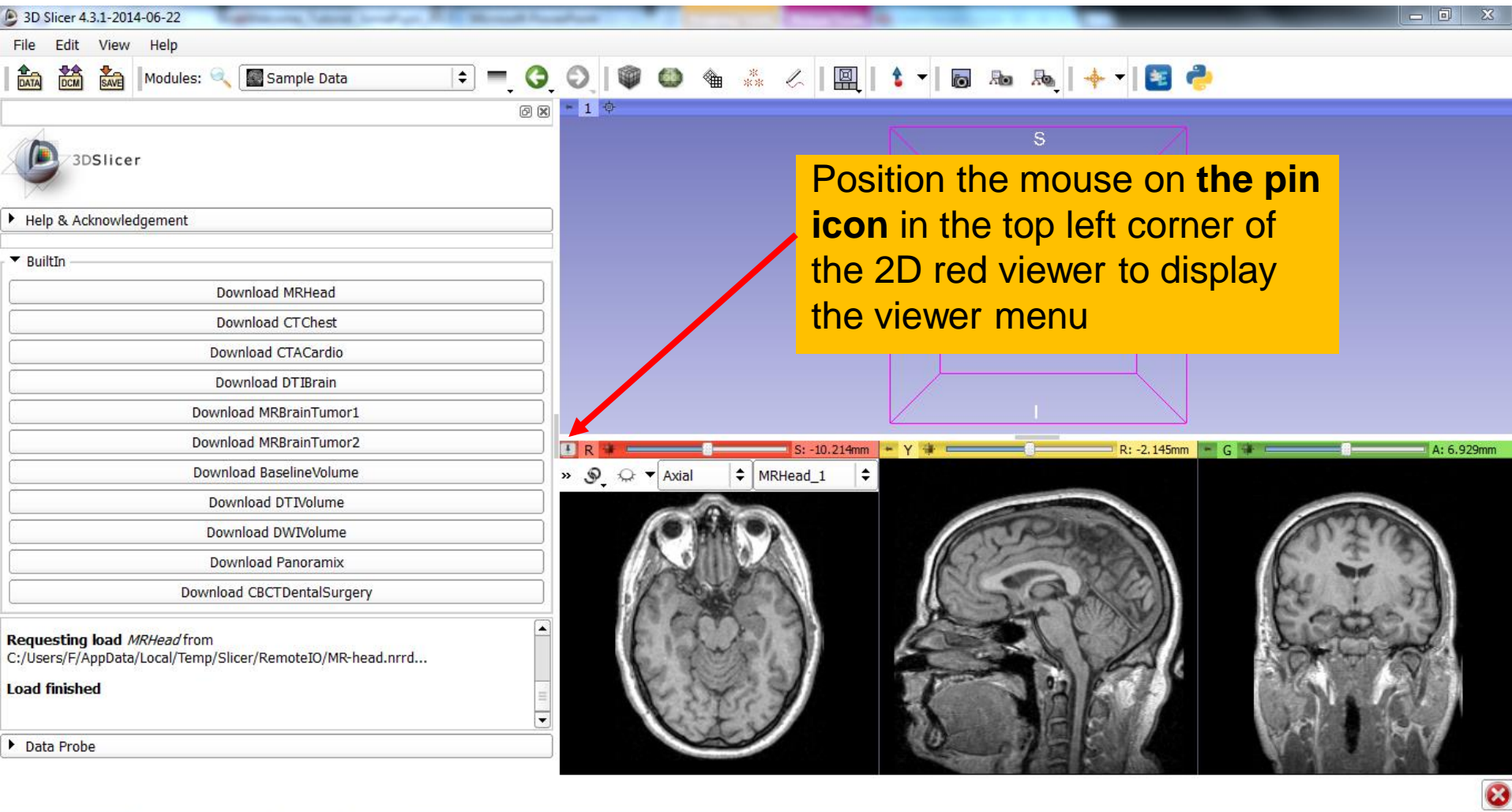
Sample Data



Volume Module



MR Brain Sample Dataset



MR Brain Sample Dataset

3D Slicer 4.3.1-2014-06-22

File Edit View Help

Modules: Sample Data

3DSlicer

Help & Acknowledgement

BuiltIn

- Download MRHead
- Download CT Chest
- Download CTACardio
- Download DTIBrain
- Download MRBrainTumor1
- Download MRBrainTumor2
- Download BaselineVolume
- Download DTIVolume
- Download DWIVolume
- Download Panoramix
- Download CBCTDentalSurgery

Requesting load *MRHead* from
C:/Users/F/AppData/Local/Temp/Slicer/RemoteIO/MR-head.nrrd...

Load finished

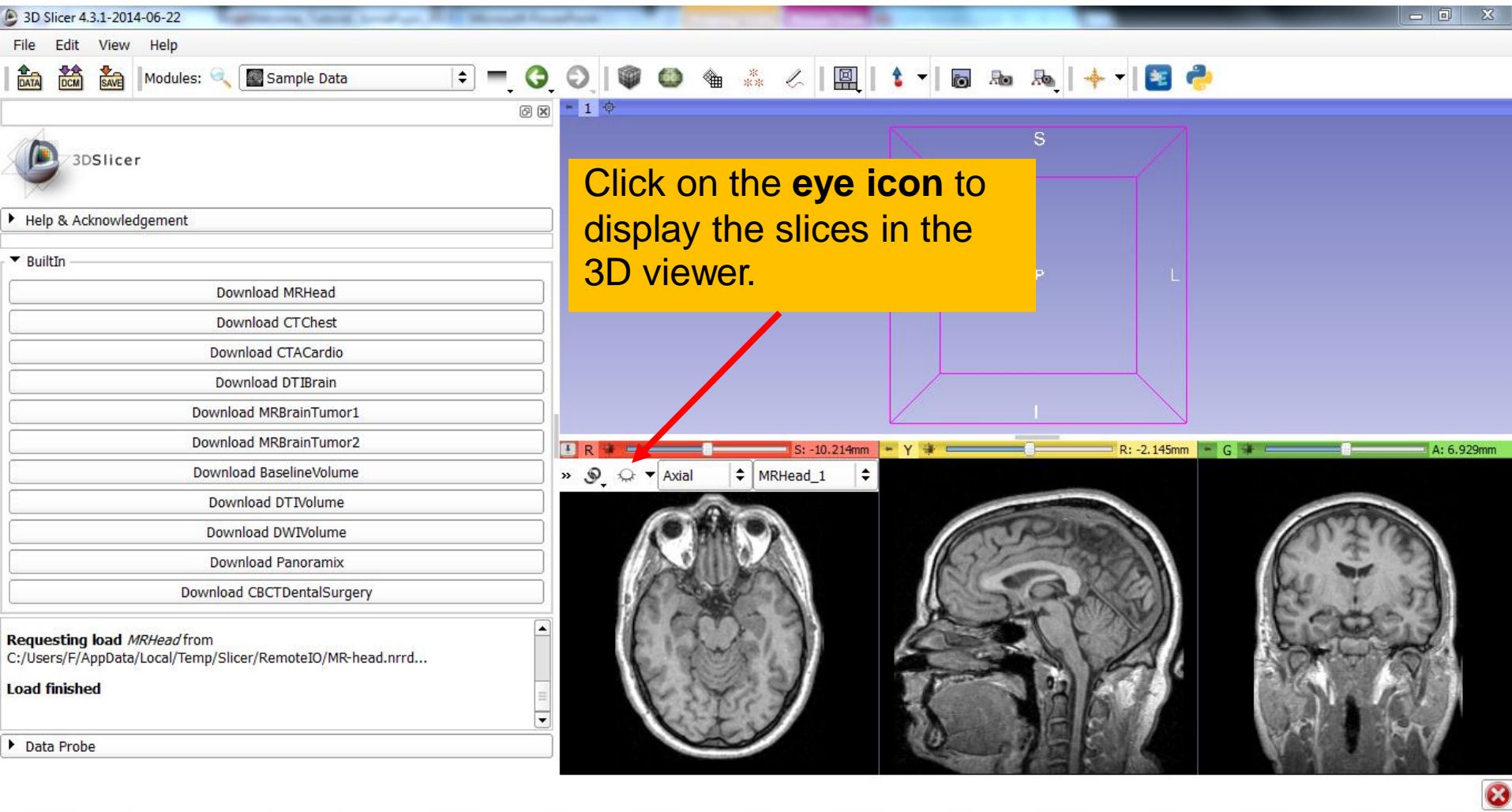
Data Probe

Click on the **link icon** to link all three 2D viewers

R: -10.214mm Y: R: -2.145mm G: A: 6.929mm

Axial MRHead_1

MR Brain Sample Dataset



MR Brain Sample Dataset

3D Slicer 4.3.1-2014-06-22

File Edit View Help

Modules: Sample Data

3DSlicer

Help & Acknowledgement

BuiltIn

- Download MRHead
- Download CT Chest
- Download CT Cardio
- Download DTI Brain
- Download MRBrainTumor1
- Download MRBrainTumor2
- Download BaselineVolume
- Download DTIVolume
- Download DWIVolume
- Download Panoramix
- Download CBCTDentalSurgery

Requesting load MRHead from
C:/Users/F/AppData/Local/Temp/Slicer/RemoteIO/MR-head.nrrd...

Load finished

Data Probe

Slicer displays the image in the 3D viewer after clicking the eye icon

R L

R S: -10.214mm Y R: -2.145mm G A: 6.929mm

Axial MRHead_1

MR Brain Sample Dataset

3D Slicer 4.3.1-2014-06-22

File Edit View Help

Modules: Sample Data

3DSlicer

Help & Acknowledgement

BuiltIn

Download MRBrainTumor2

Download BaselineVolume

Download DTIVolume

Download DWIVolume

Download Panoramix

Download CBCTDentalSurgery

The axial, coronal and sagittal slices appear in the 3D viewer

Go back to the Welcome module using the GREEN arrow in the toolbar

MRHead_1

Axial

S: -10.214mm R: -2.145mm A: 6.929mm

MR Brain Sample Dataset

3D Slicer 4.3.1-2014-06-22

File Edit View Help

Modules: Welcome to Slicer

3DSlicer

The Main Window

Loading and Saving

Display

Mouse & Keyboard

Below is basic information about how to use the three-, two-, and one-button mouse (or trackpad) on Windows, Mac, and Linux platforms to perform basic interaction operations in Slicer:

Adjusting Window & Level on All Platforms: Left-clicking and dragging the mouse in any Slice viewer is a quick way to adjust Window and Level. Adjust the middle value (level) of the greyscale window by moving the mouse up (increase level) or down (decrease level), and adjust the greyscale window size by moving the mouse to the left (decrease window) or to the right (increase window).

Data Probe

L
F
B

Click on the tab **Mouse & Keyboard** to learn the different mouse actions to rotate the images and zoom in and out.

R S: -10.214mm Y R: -2.145mm G A: 6.929mm

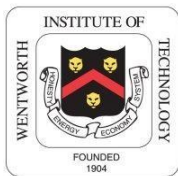
Acknowledgments



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