

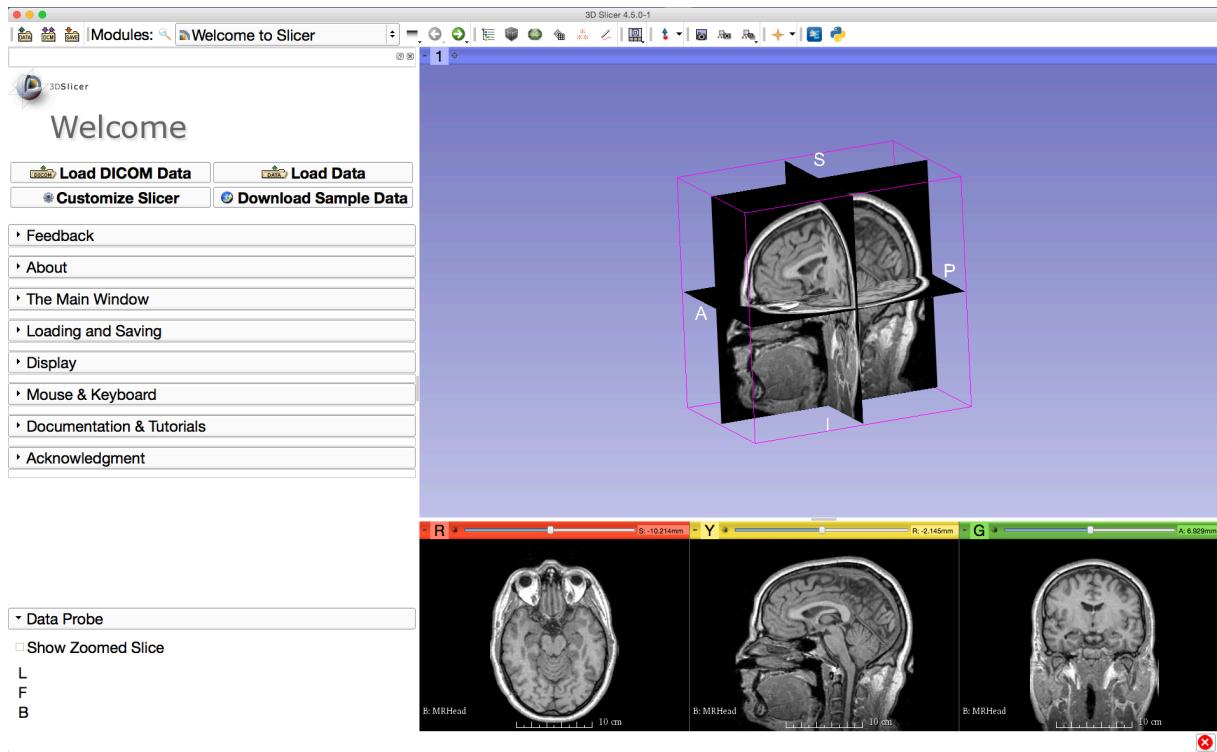
# Slicer Welcome

Sonia Pujol, Ph.D.

Brigham and Women's Hospital

Harvard Medical School

# Goal

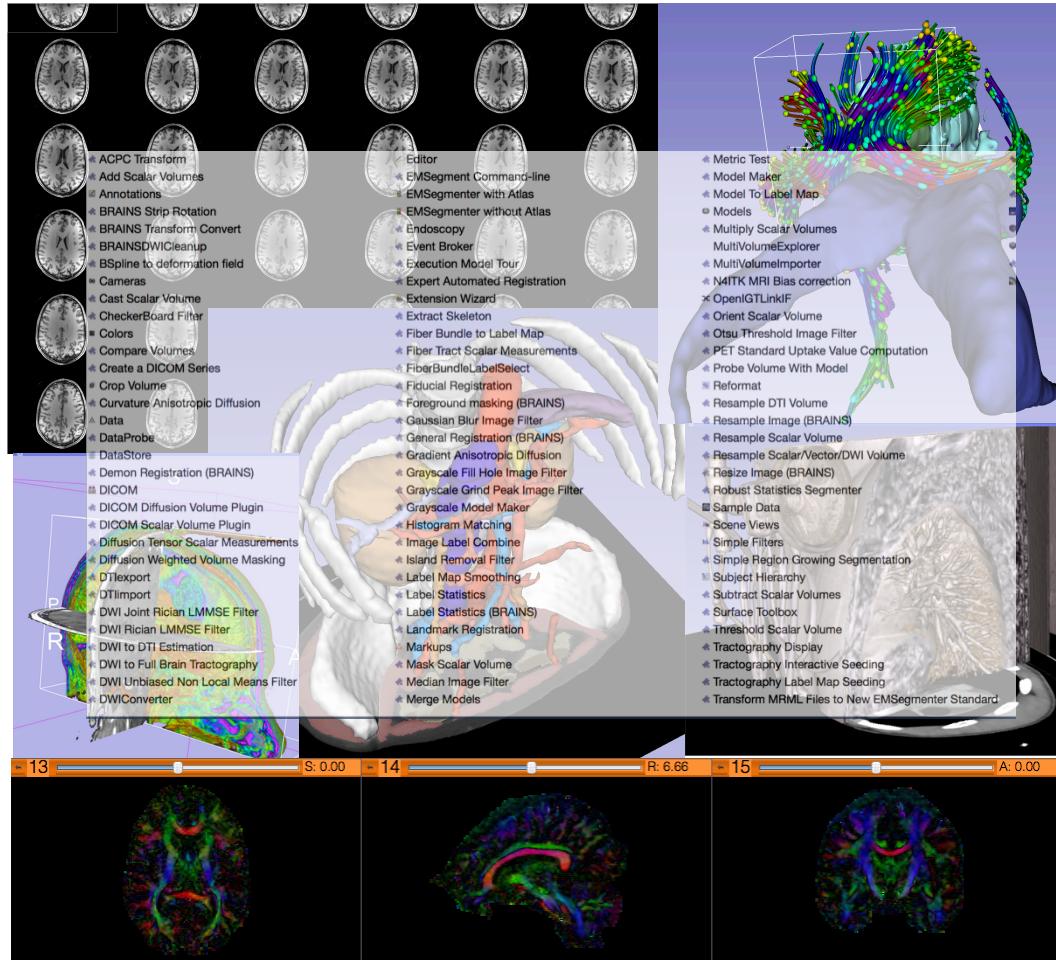


This tutorial is a short introduction to the Welcome module of the Slicer open-source software.

# Slicer4 Basics

- Slicer is an open-source software for segmentation, registration and visualization of medical imaging data
- The platform is developed through a multi-institution effort of several NIH funded large-scale consortia.
- Slicer is for medical research only, and is not FDA approved

# Slicer4 Basics



Images courtesy of Ron Kikinis, MD

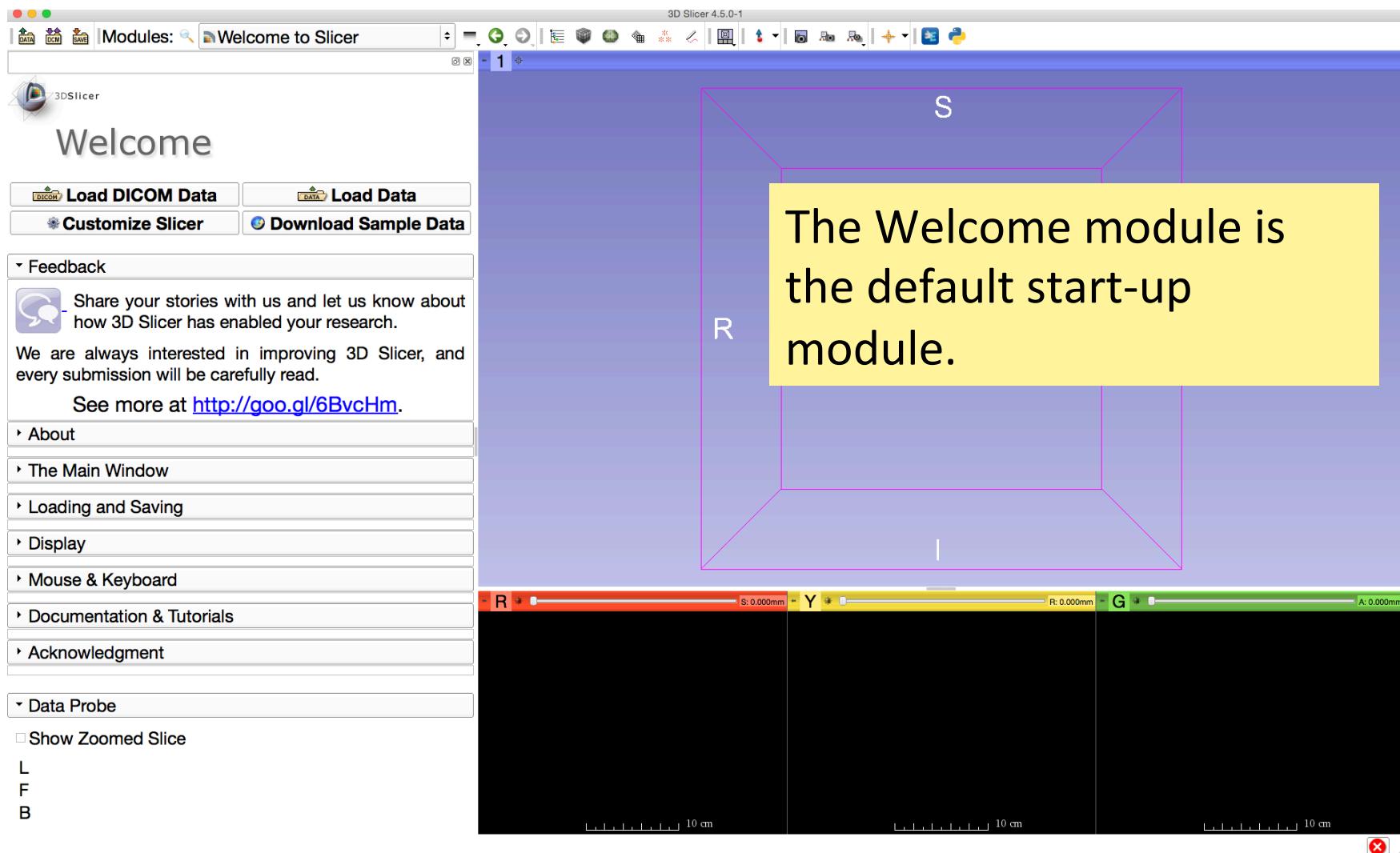
Slicer Welcome - Sonia Pujol, Ph.D., NA-MIC  
ARR 2011-2016

Slicer4 contains over 100 modules for image segmentation, registration and 3D visualization of medical imaging data.

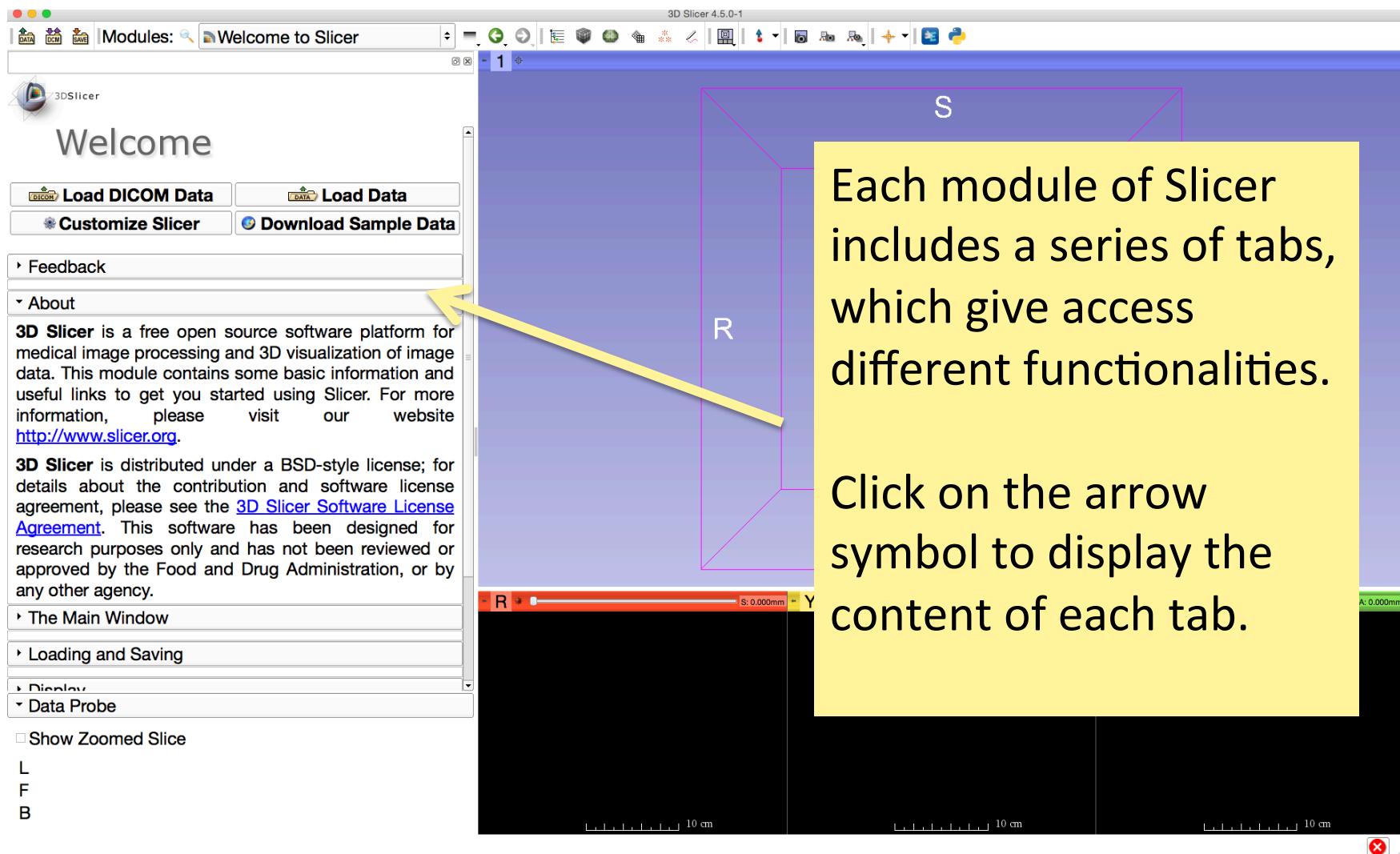
# Supported Platforms

- Slicer is a multi-platform software developed and maintained on Mac OSX, Linux 64 & 32, and Windows 64.
- Slicer requires a minimum of 2 GB of RAM and a dedicated graphic accelerator with 64 MB of on-board graphic memory.

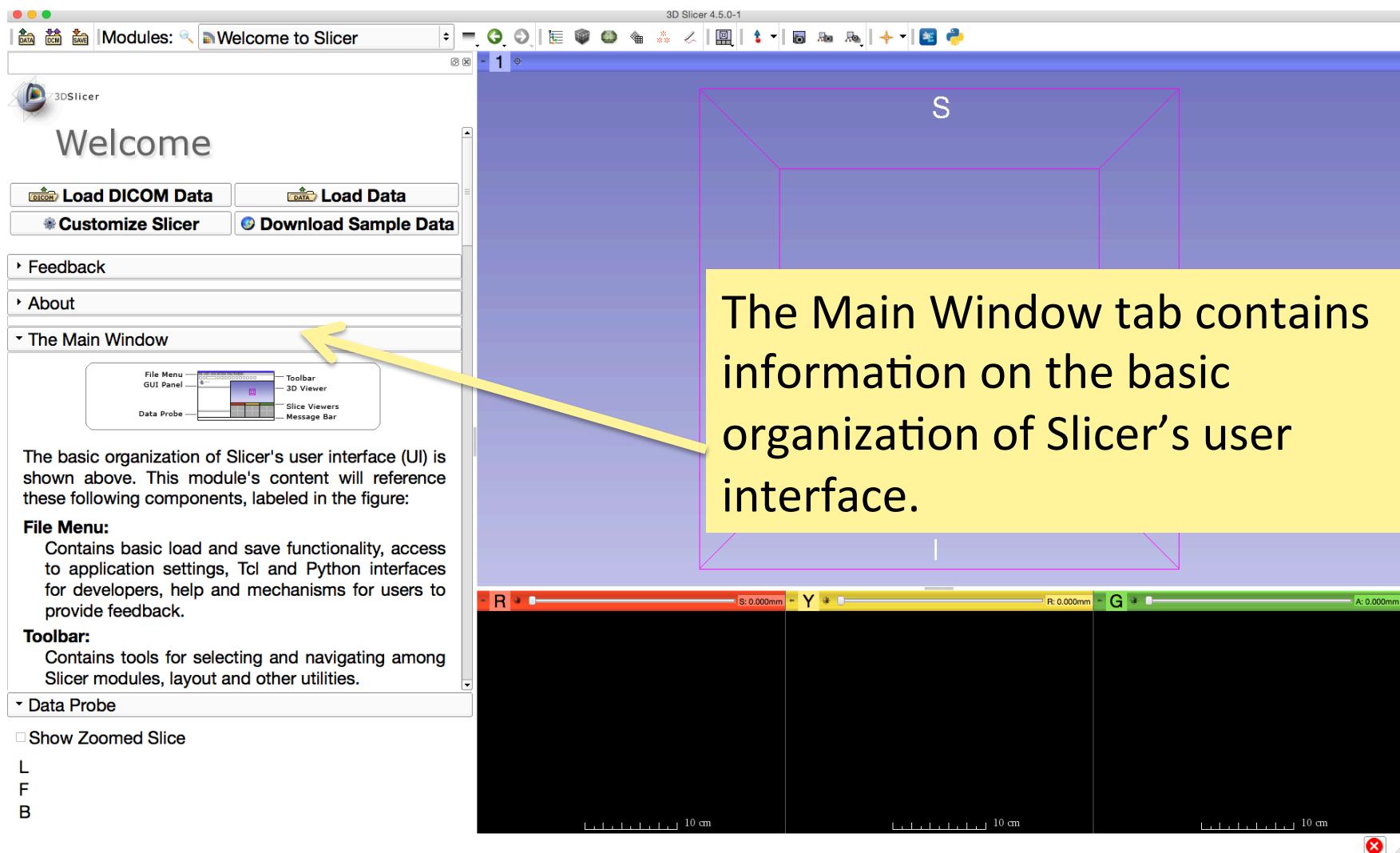
# 3DSlicer version 4.5



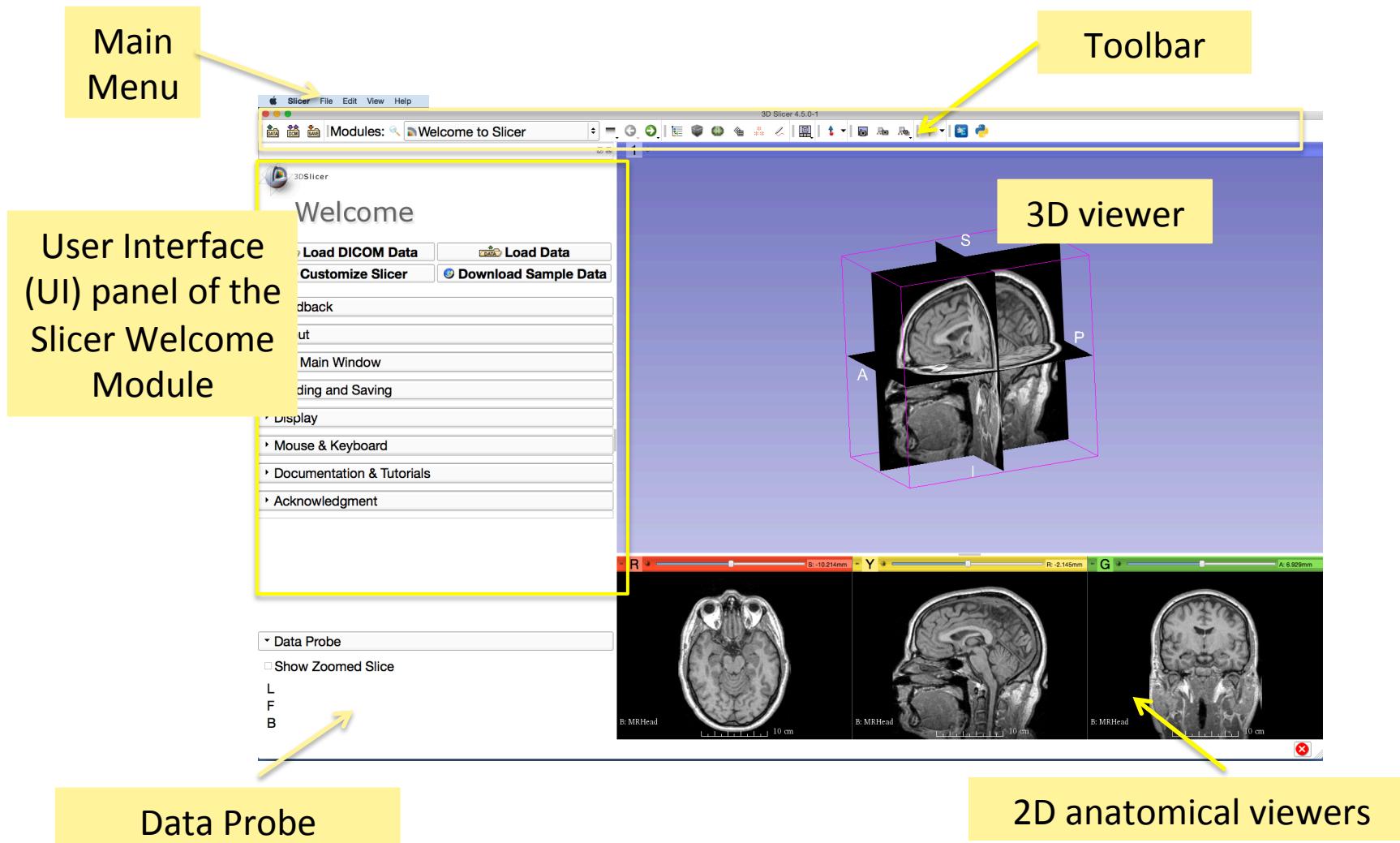
# Welcome to Slicer



# Slicer Welcome



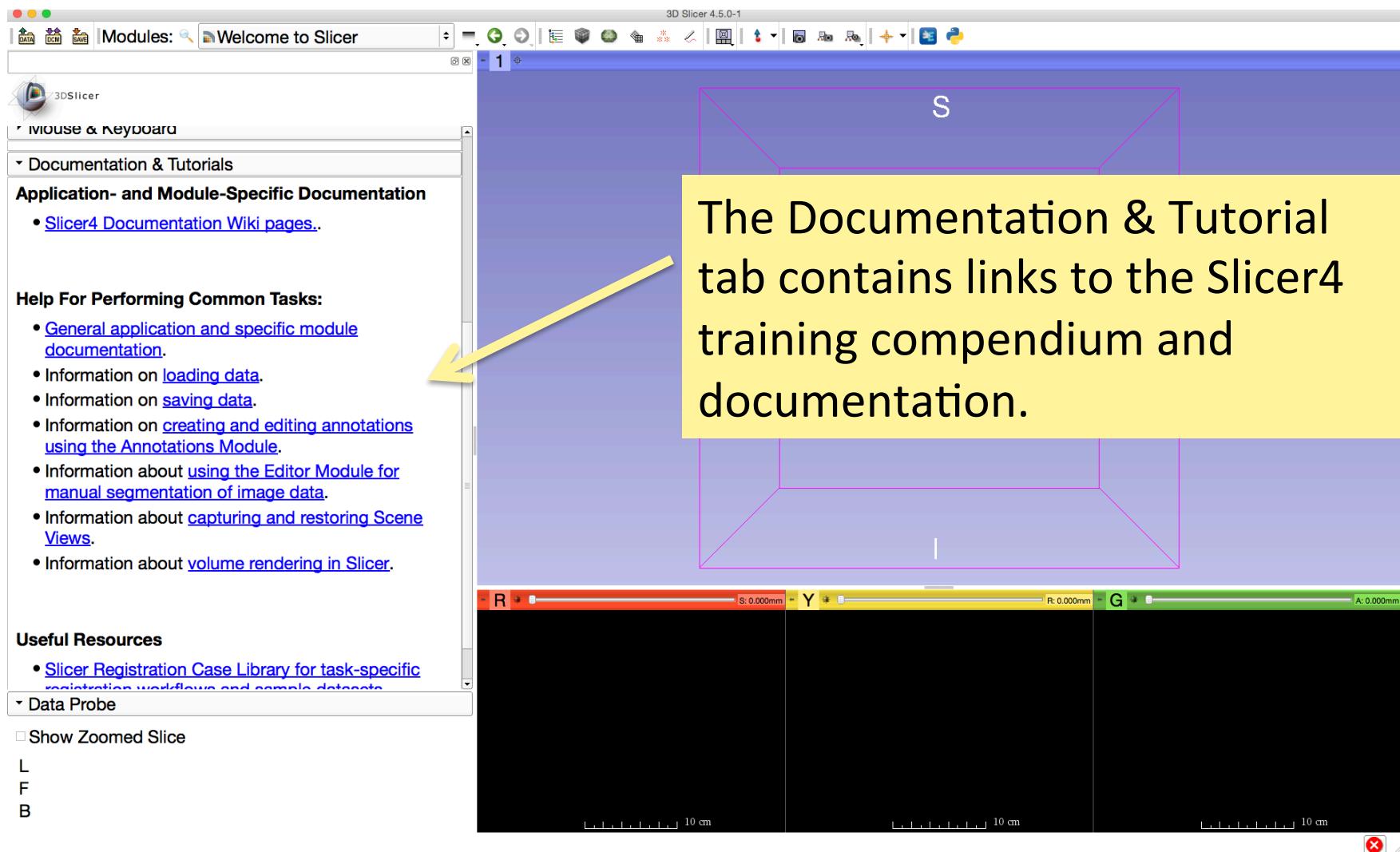
# Slicer User Interface



Data Probe

2D anatomical viewers

# Welcome Module



# Slicer4.5 Documentation & Training

page discussion edit history move watch

## Documentation/4.5

Home < Documentation < 4.5

Nightly 4.5 4.4 4.3 4.2 4.1 4.0 3.6 3.5 3.4 3.2 ALL VERSIONS

### Where to start ?

- [Training pages](#)  
Information on how to use Slicer 4.5
- [FAQ](#)  
Set of common questions/answers
- [Users mailing list](#) / [Sign-up](#) / [Browse archives](#)

### How to

- [Report a problem](#) / [Create a feature request](#) NEW

### Slicer Application

- [Main Application GUI](#)
- [Settings](#)
- [Extensions Manager](#)
- [Mouse Buttons, "Hot-keys" and Keyboard Shortcuts](#)
- [Recommended Computer Configurations](#)
- [Loading or Saving data and listing of supported data formats.](#)
- [Slicer Lookup Tables](#)
- [Setting up and using stereoscopic viewing](#)
- [QtTesting - Easy way to record and play macros](#)

### Modules and Extensions

- [Modules by category](#)
- [Modules by name](#)
- [Modules by contributing organization](#)
- [Modules by contributing individual](#)
- [Modules by type](#)
- [Modules by extension](#)
- [Extensions by category](#)
- [Extensions by name](#)
- [Extensions by contributing organization](#)
- [Extensions by contributing individual](#)

List of extensions known to be broken

### Developers Corner

- [Information for Software Developers](#) UPDATED
- [Source code, contribute patch, develop modules](#)
- [Developers mailing list](#) / [Browse archives](#) Intended for discussion of programming related questions

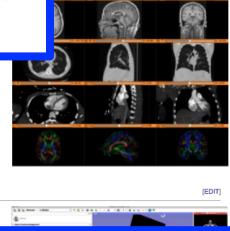
### Miscellaneous

- [Documentation guidelines](#)  
Slicer user documentation principle and guidelines
- [Visual blog](#)  
Set of screenshots showing Slicer in action.
- [Release Notes](#)  
Platform specific issues and considerations
- [Announcements & Acknowledgments](#)
- [Registration Library](#) NEW  
Real-life example cases of using the Slicer registration tools, incl. datasets and step-by-step instructions to follow and try yourself.

### Documentación en Español

- [Introducción a 3D Slicer en Español](#) NEW  
Breve descripción de proyecto y un breve viaje por sus principales herramientas y funcionalidades.
- [Reconstrucciones volumétricas con 3D Slicer](#)  
Guía de uso para la herramienta de creación de reconstrucciones volumétricas de 3D Slicer.
- [Crear modelos/contornos de órganos con 3D Slicer](#)  
Guía rápida introductoria para la creación de contornos de órganos para generar vistas volumétricas.
- [Endoscopias virtuales con 3D Slicer](#)

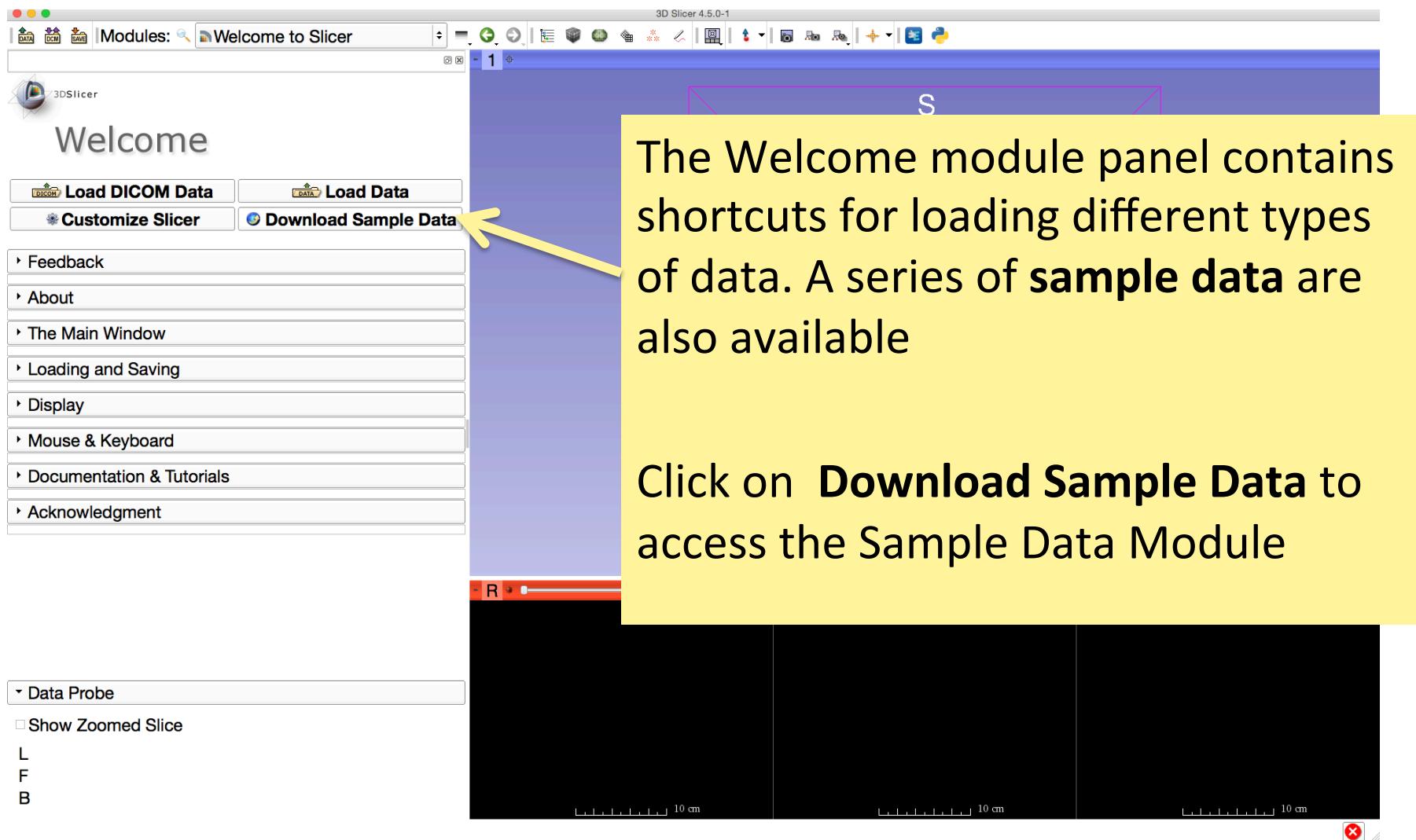
### Interface elements and



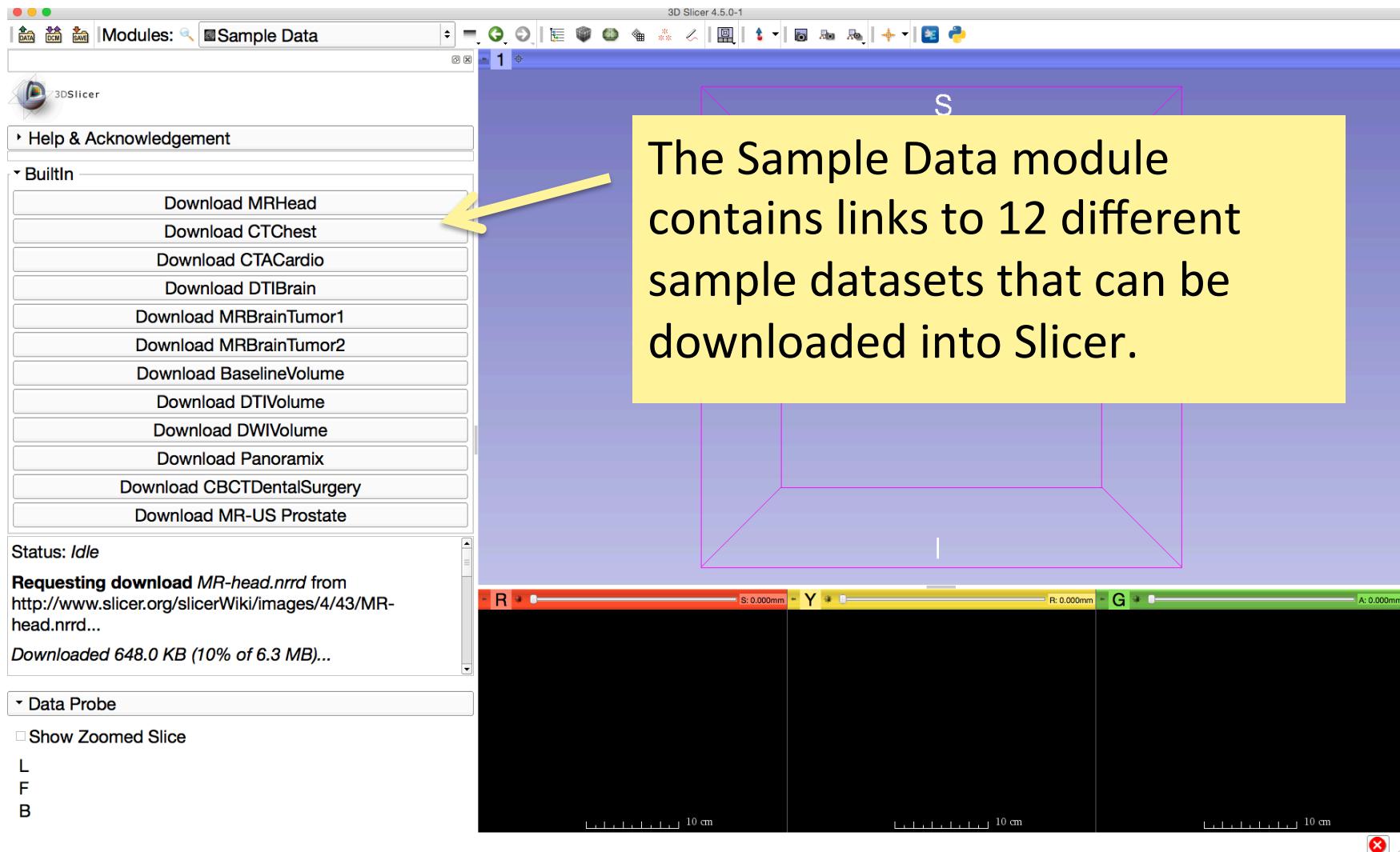
SLICER4MINUTE TUTORIAL

■ Author: Sonia Pujol, Ph.D.  
■ Audience: First time users who want a general introduction to the software.  
■ Modules: Welcome to Slicer, Sample Data  
■ Based on: 3D Slicer version 4.0

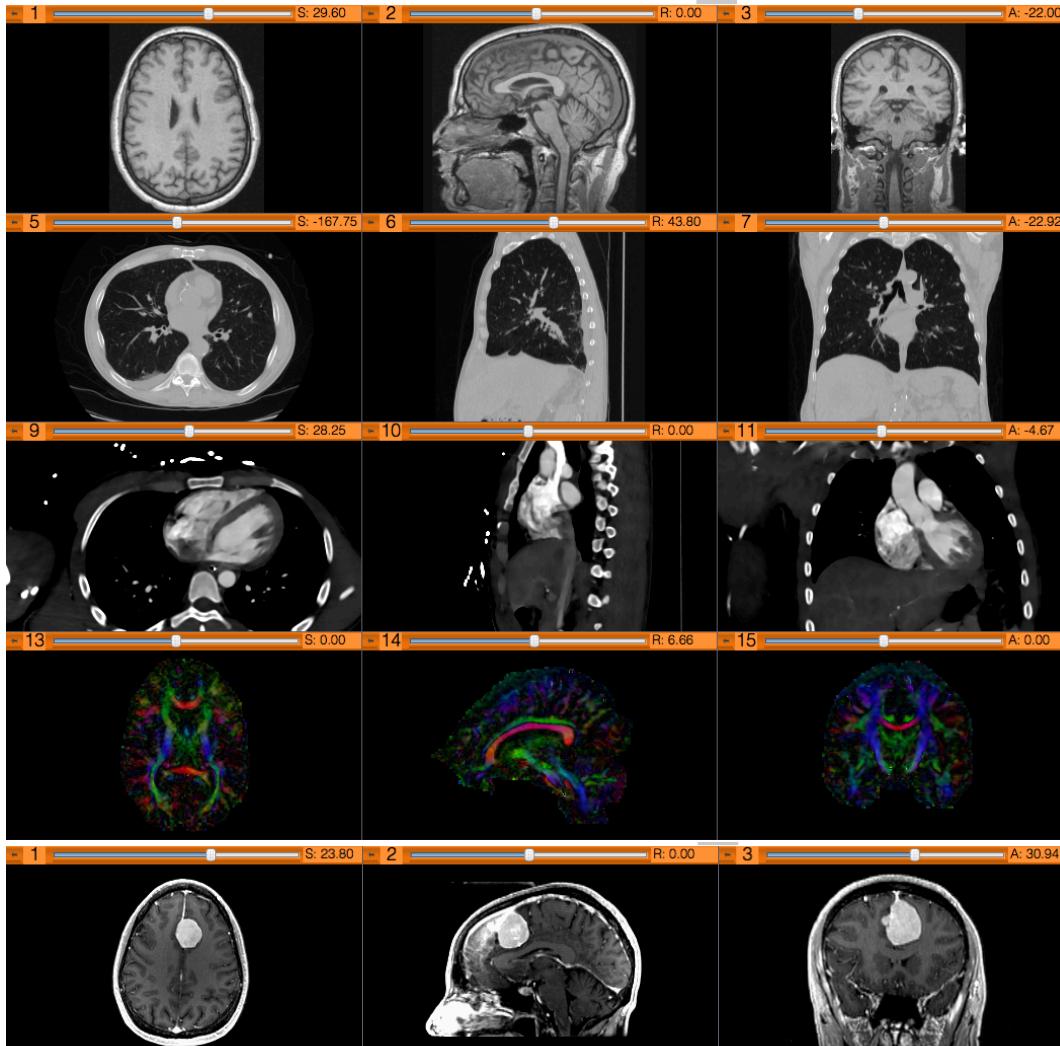
# Welcome Module



# Sample Data



# Sample Data



Brain MRI

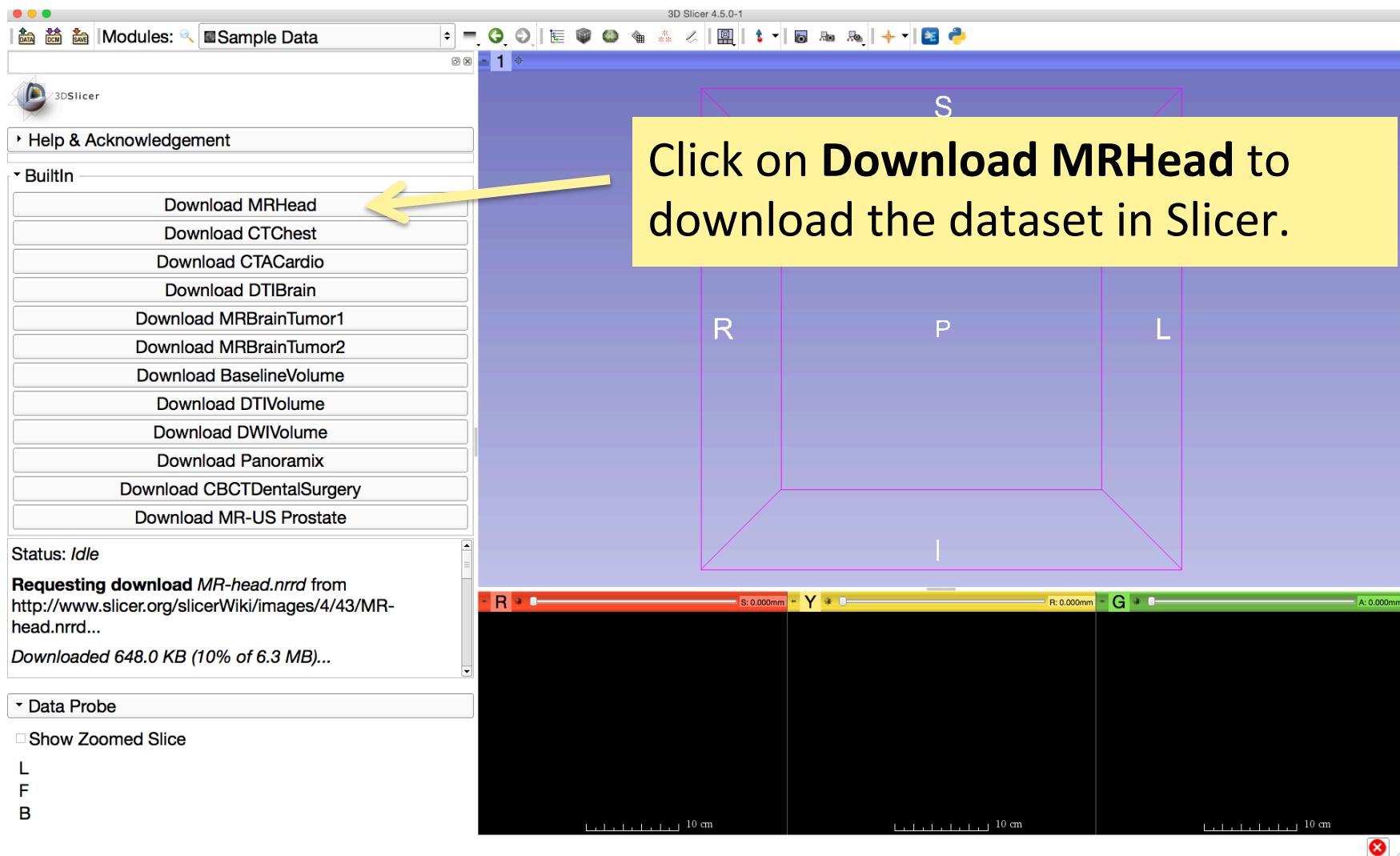
Chest CT

Cardiac CT

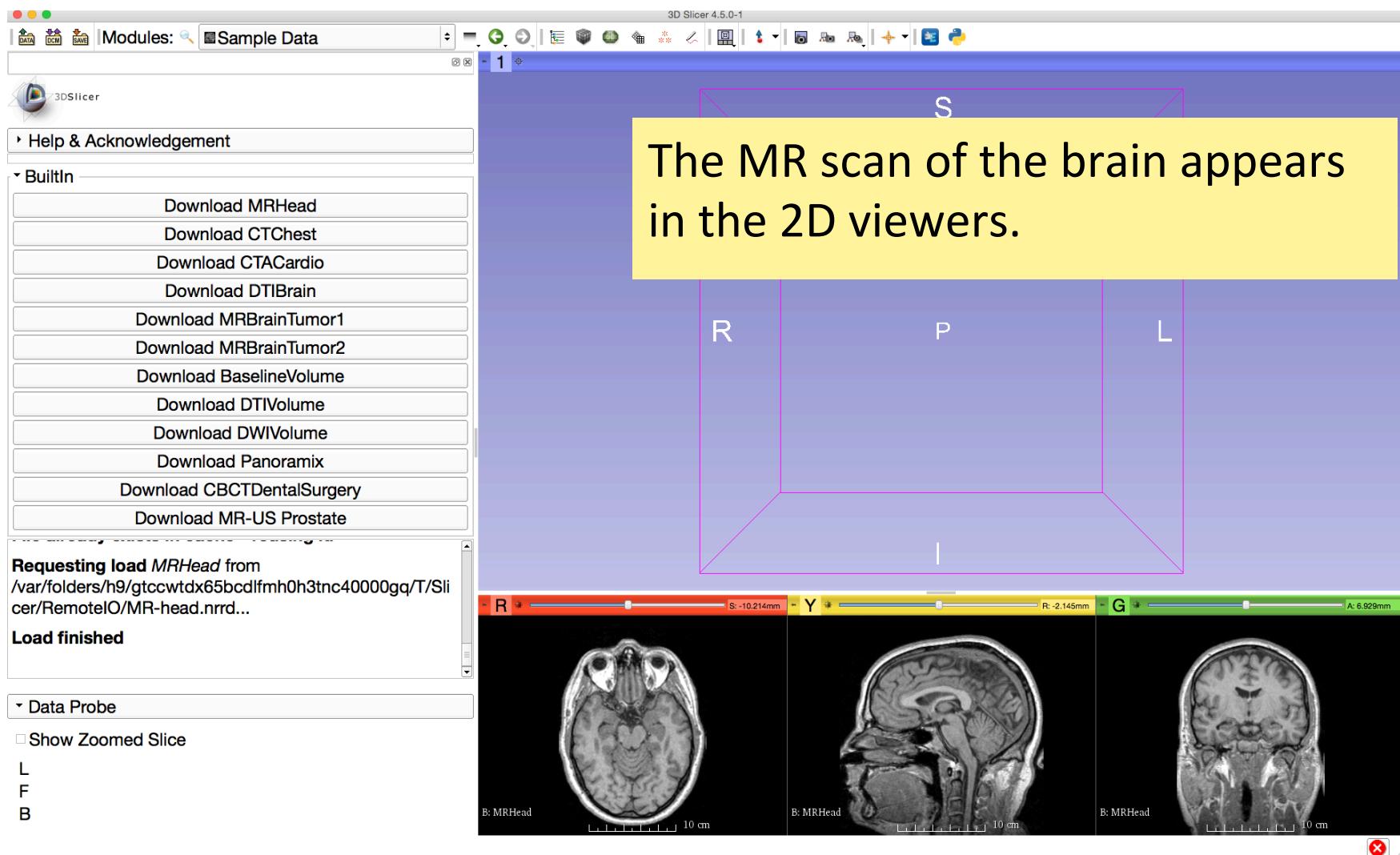
Diffusion Tensor  
Imaging (DTI) Dataset

Brain MRI  
(tumor patient)

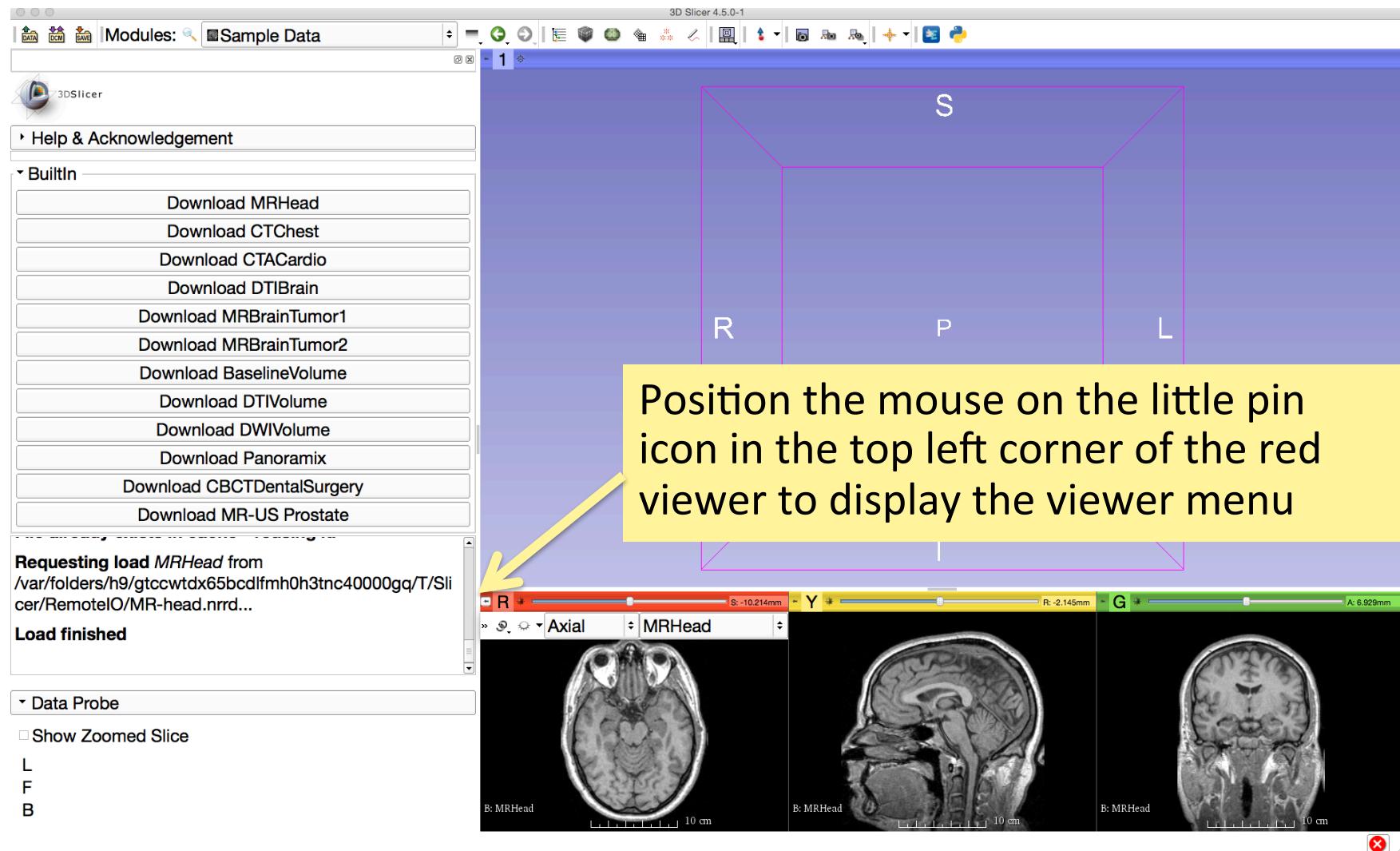
# Sample Data



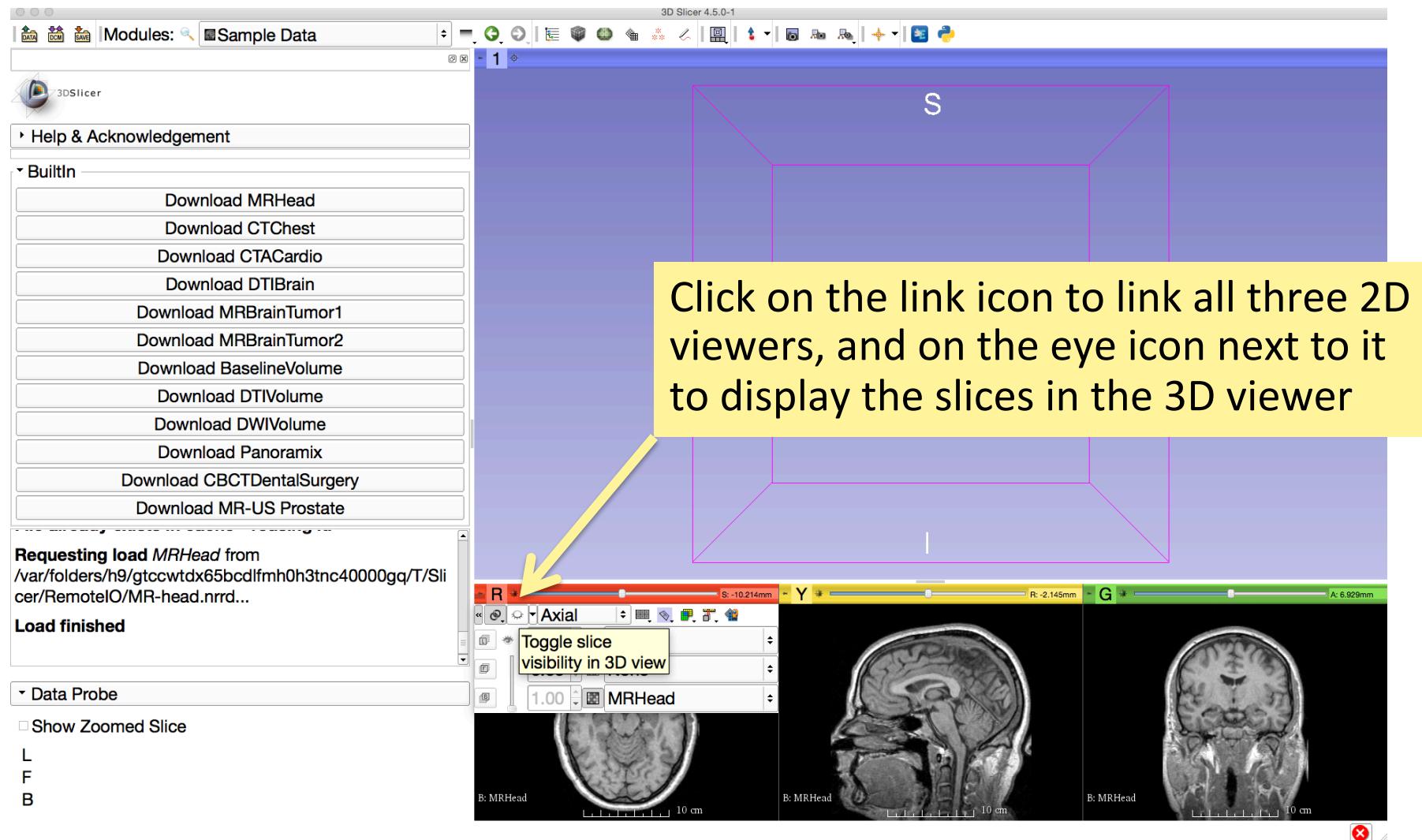
# Welcome Module



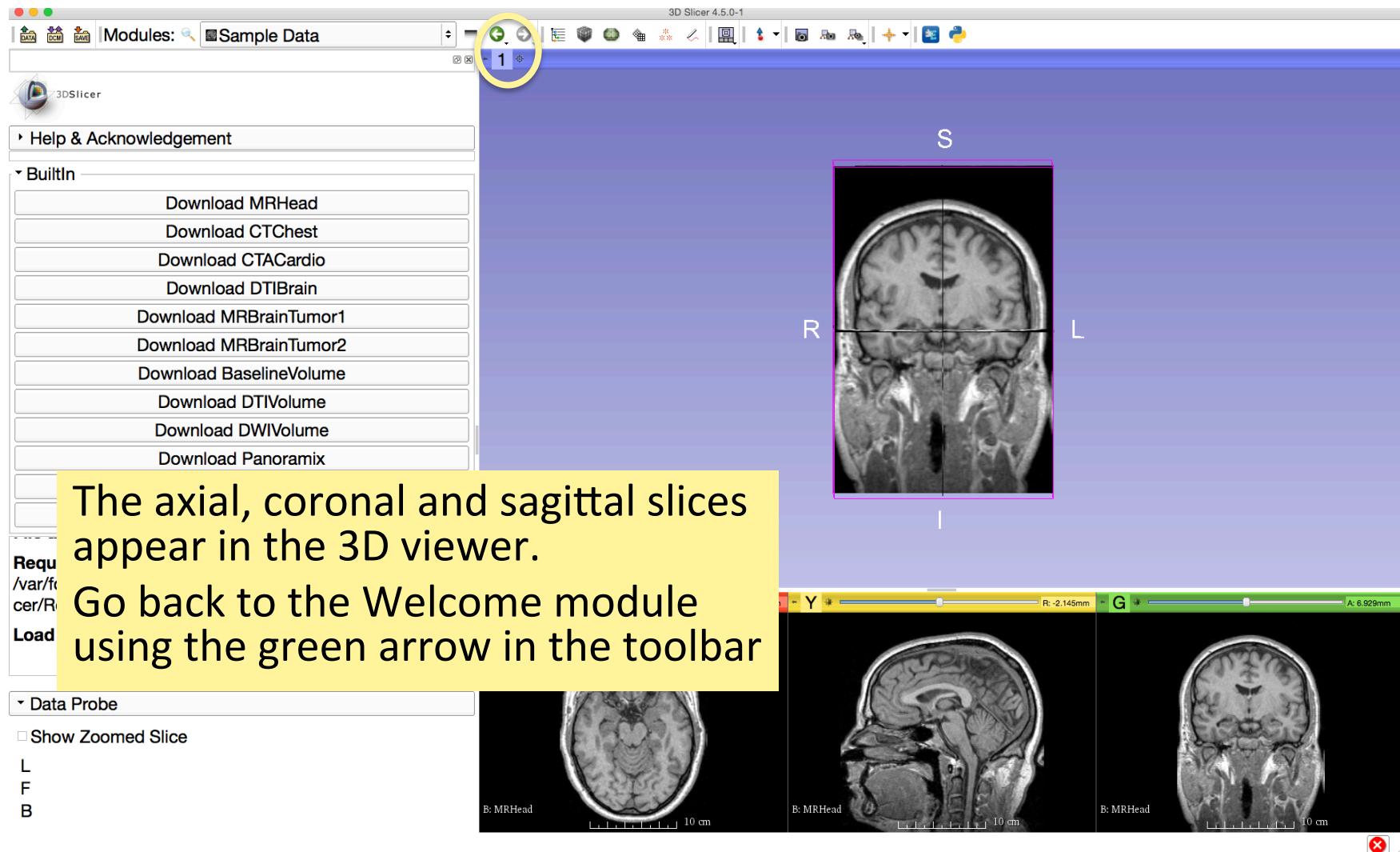
# MR Brain Sample Dataset



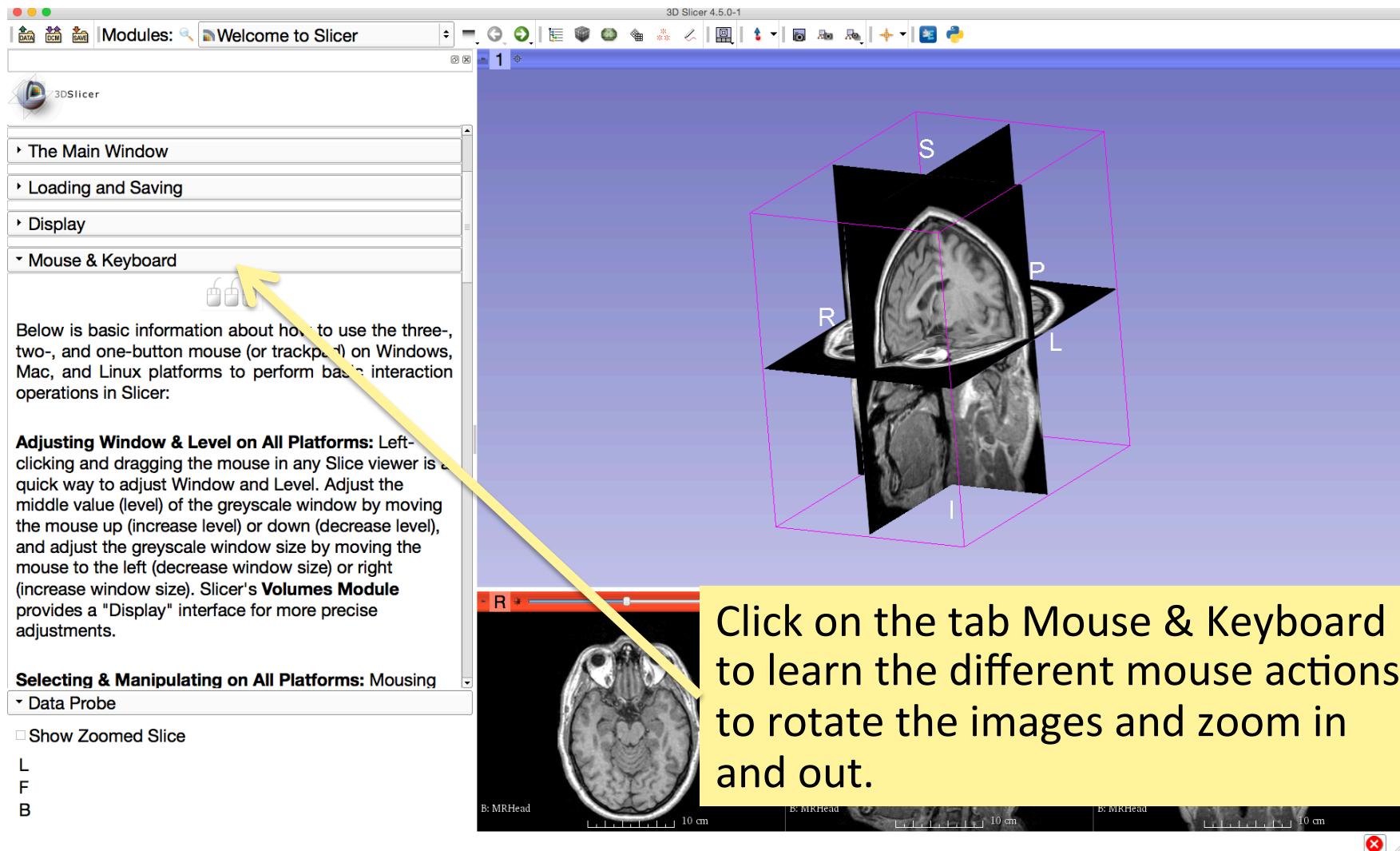
# MR Brain Sample Dataset



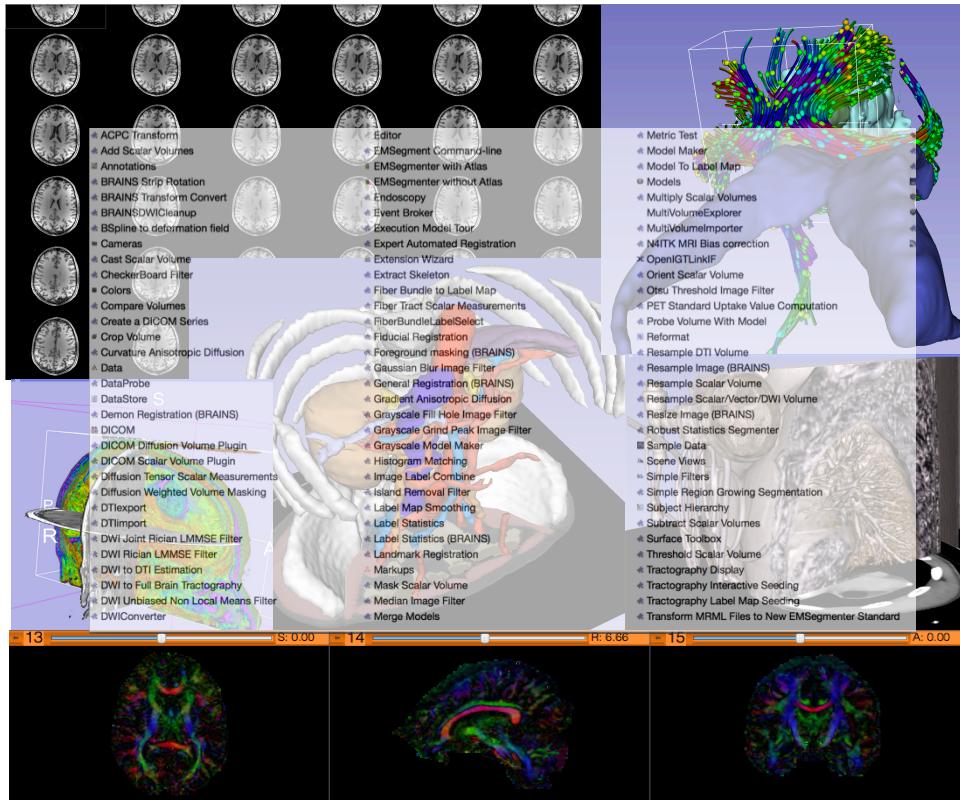
# MR Brain Sample Dataset



# MR Brain Sample Dataset



# Going Further



To learn more about Slicer and its different functionalities, please visit the Slicer4.5 compendium

<http://www.slicer.org/slicerWiki/index.php?title=Documentation/4.5>

# Acknowledgments



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NIH P41RR013218

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