

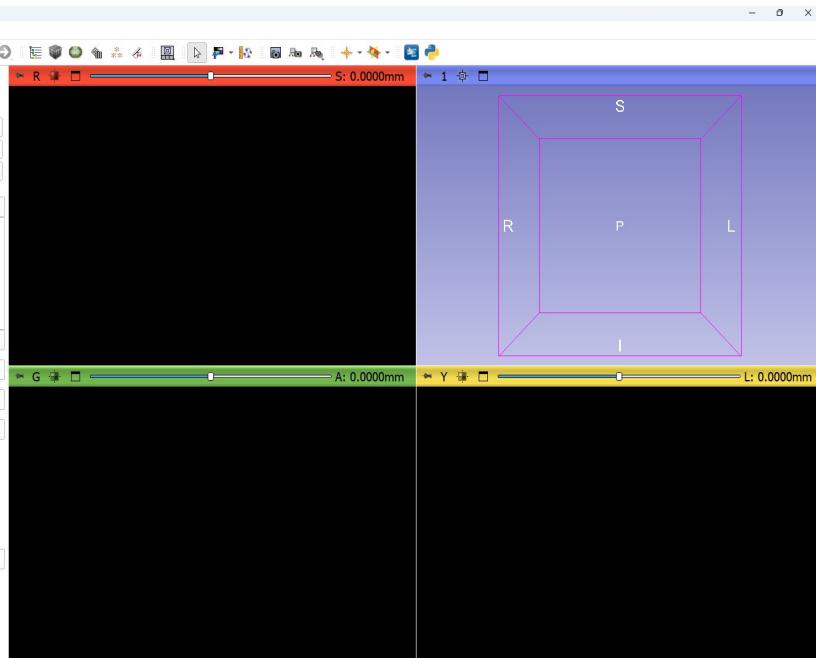
Bem-vindos ao *Slicer*

Dra. Sonia Pujol
Professora Adjunta de Radiologia

Hospital de Mulheres de Brigham
Faculdade de Medicina de Harvard

Objetivo

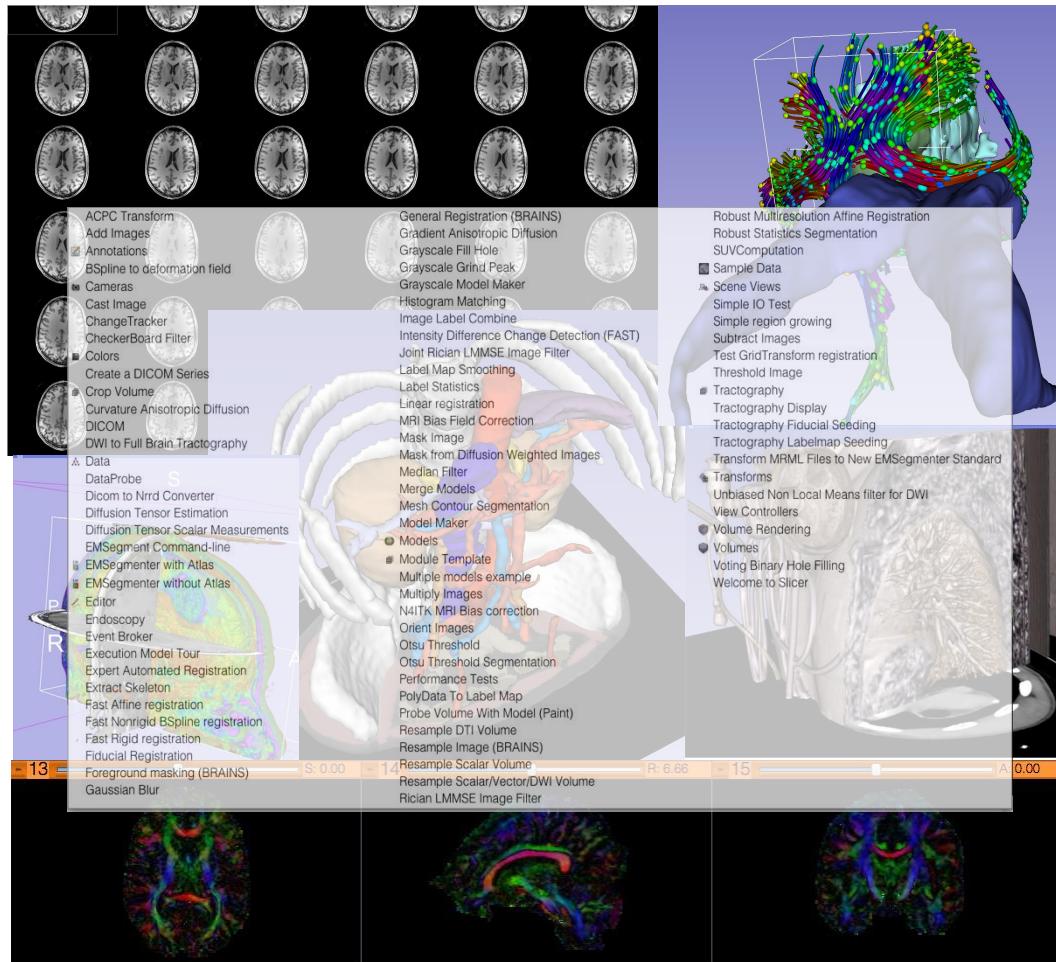
Este tutorial é uma breve introdução ao módulo de boas-vindas do programa de código aberto *Slicer*.



Noções básicas do *Slicer* 5.6.2

- *Slicer* é um programa de código aberto para segmentação, registro e visualização de dados de imagens médicas.
- A plataforma se desenvolve por meio de um esforço multi-institucional de vários consórcios de larga escala financiados pelos Institutos Nacionais de Saúde (*NHI*, em inglês).
- O *Slicer* destina-se apenas à pesquisa médica, não sendo aprovado pela Administração de Alimentos e Medicamentos (*FDA*, em inglês).

Noções básicas do *Slicer* 5.3.0



Imagens cedidas pelo Dr. Ron Kikins

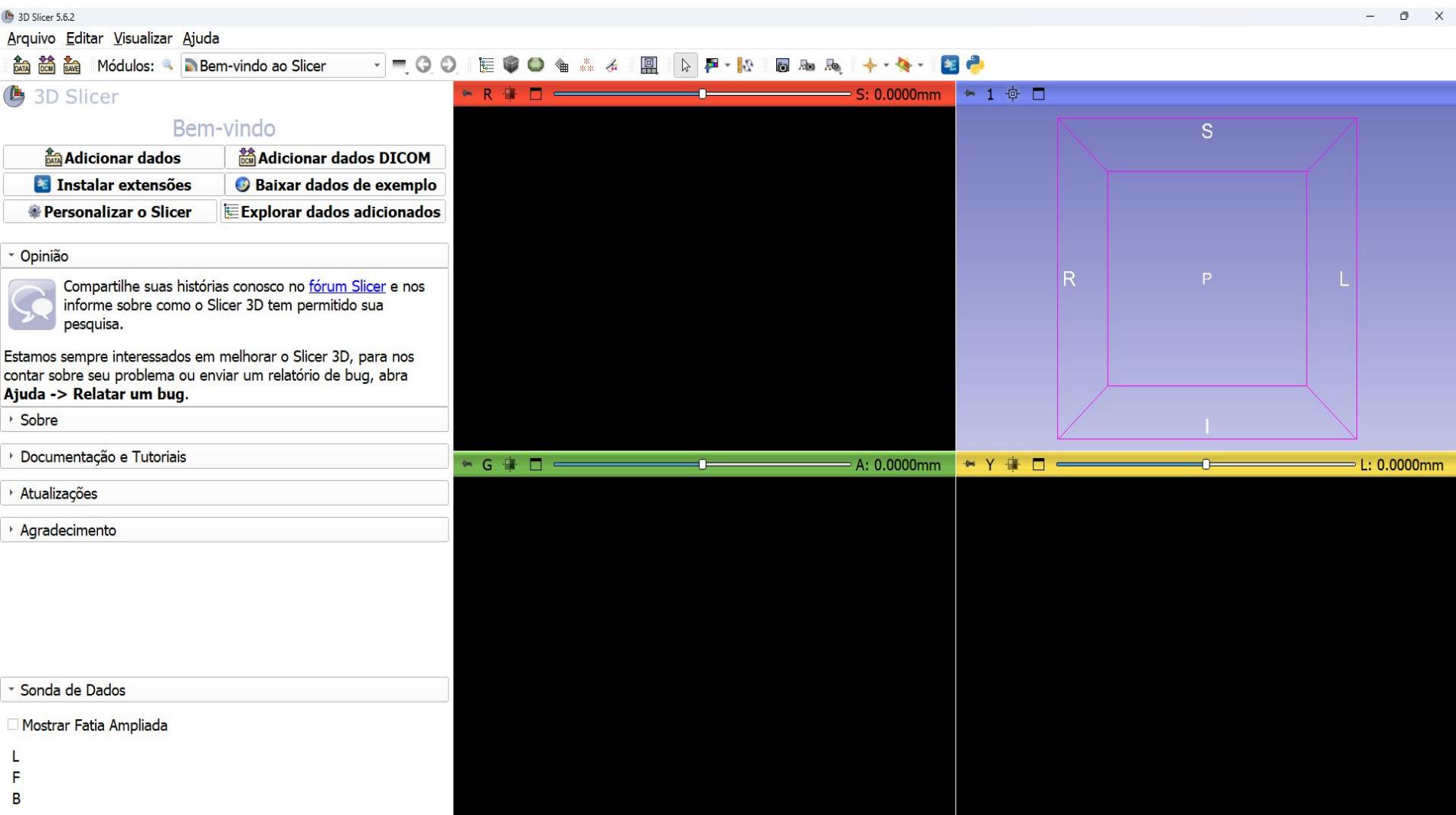
Bem-vindos ao *Slicer* – Dra. Sonia Pujol,
NA-MIC ARR 2011-2024

O 3D *Slicer*, em sua versão 4.8.1, inclui 130 módulos e 74 extensões para segmentação de imagens, registro e visualização em 3D de dados de imagens médicas.

Plataformas compatíveis

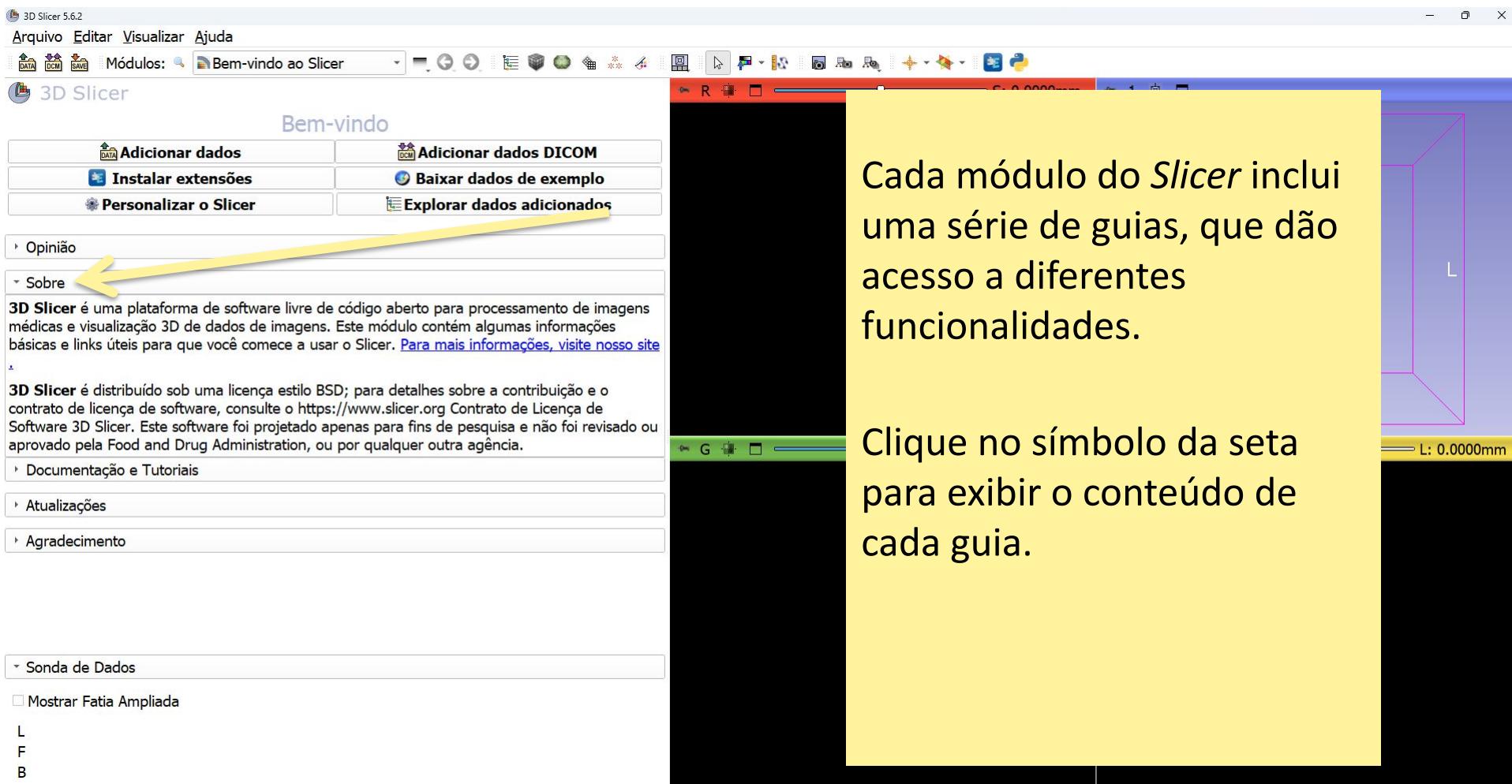
- O *Slicer* é um programa multiplataforma desenvolvido e mantido em *Mac OSX*, *Linux* e *Windows*.
- O *Slicer* requer um mínimo de 2 GB de *RAM* e um acelerador gráfico dedicado com 64 MB de memória gráfica integrada.

3D Slicer versão 5.6.2



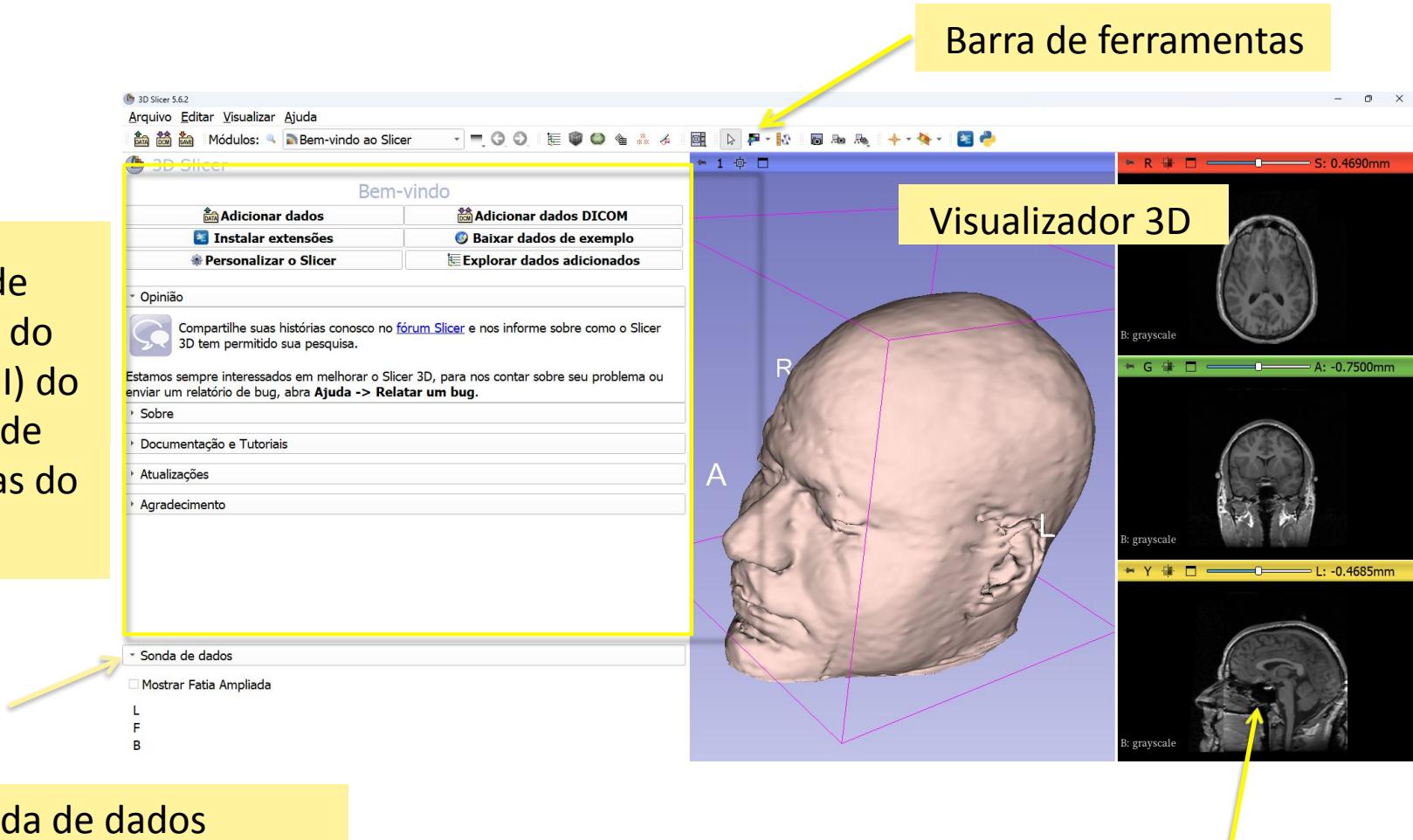
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Bem-vindos ao *Slicer*



Interface do Usuário do *Slicer*

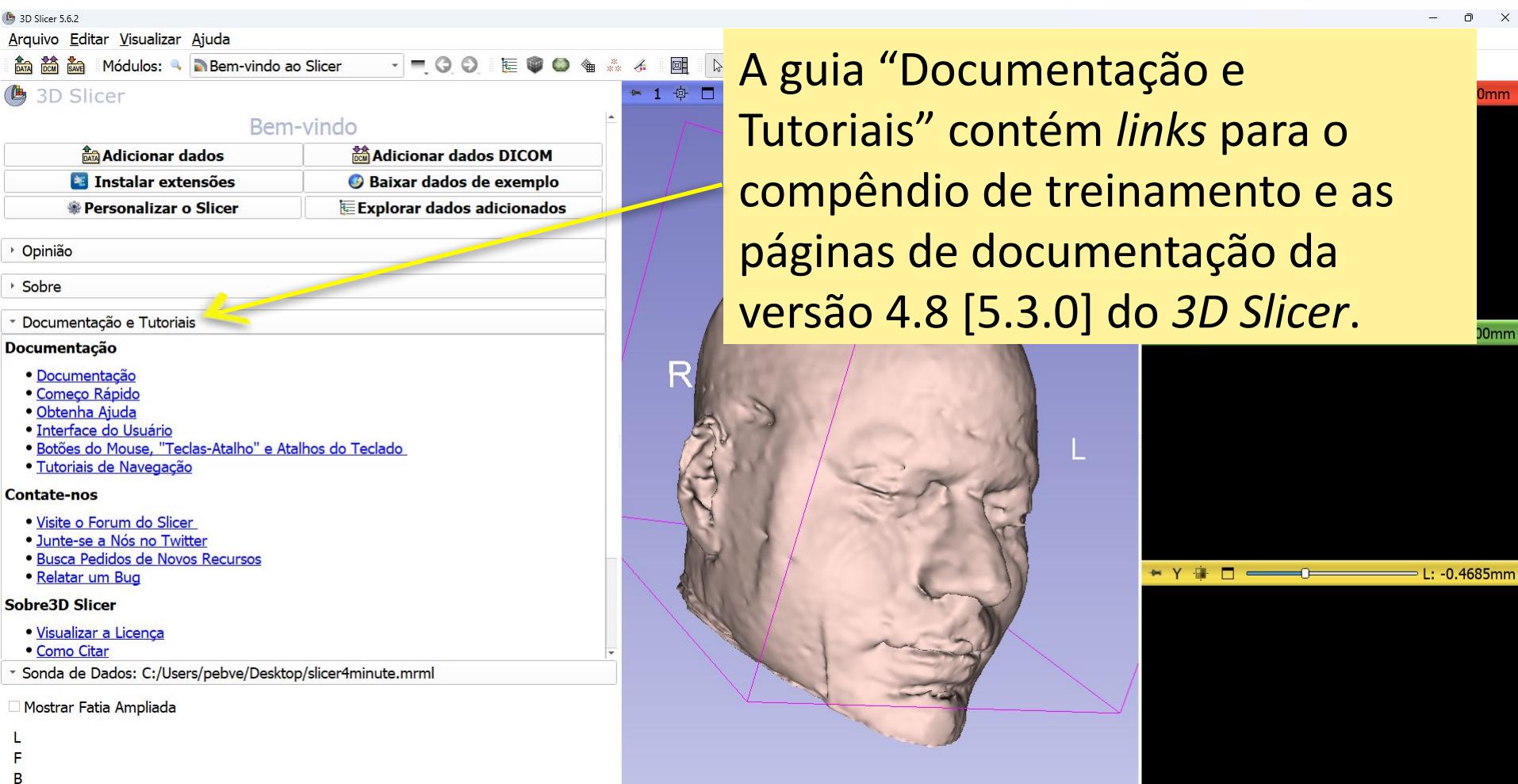
Painel de Interface do Usuário (UI) do módulo de boas-vindas do *Slicer*



Sonda de dados

Visualizadores anatômicos 2D

Módulo de boas-vindas



Treinamento e Documentação do *Slicer*

5.6.2

page discussion view source history

Documentation/Nightly/Training

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Introduction: Slicer Tutorials

- This page contains "How to" tutorials with matched sample data
- For "reference manual" style documentation, please see the Slicer Wiki
- For questions related to 3D Slicer training materials and to the [Slicer 3D Slicer](#).
- Some of these tutorials are based on older releases of 3D Slicer. In updated versions. For tutorials for older versions of Slicer, please see the [Slicer 4](#) documentation.

Contents [hide]

- 1 Introduction: Slicer Tutorials
- 2 Quick Start Guide
 - 2.1 Downloading and Installing Slicer
- 3 General Introduction
 - 3.1 Slicer Welcome Tutorial
 - 3.2 Slicer4Minute Tutorial
- 4 3D Visualization
 - 4.1 Data Loading and 3D Visualization
 - 4.2 DICOM
 - 4.3 Open Anatomy Browser

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For the latest Slicer documentation, visit the [read-the-docs](#).

Nightly 4.10 4.8 4.6 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 ?

- Getting started
- Quick overview about Slicer
- Training pages
- Information on how to use Slicer Nightly
- FAQ
- Set of common questions/answers
- Discussion Forum
- The most effective way to get help from the community

How to

- Report a problem / Create a feature request NEW

Slicer Application

- Installation / Uninstallation
- Main Application User-Interface
- Application Settings
- Extensions Manager
- Mouse Buttons, "Hot-keys" and Keyboard Shortcuts

Modules

- Data
- Data Store
- DICOM
- Markups
- Models
- Scene Views
- Segmentations
- Segment Editor
- Transforms
- View Controllers
- Volume Rendering
- Volumes
- Welcome to Slicer

Developers Corner

- Information for Software Developers UPDATED
- Source code, contribute patch, develop modules

Miscellaneous

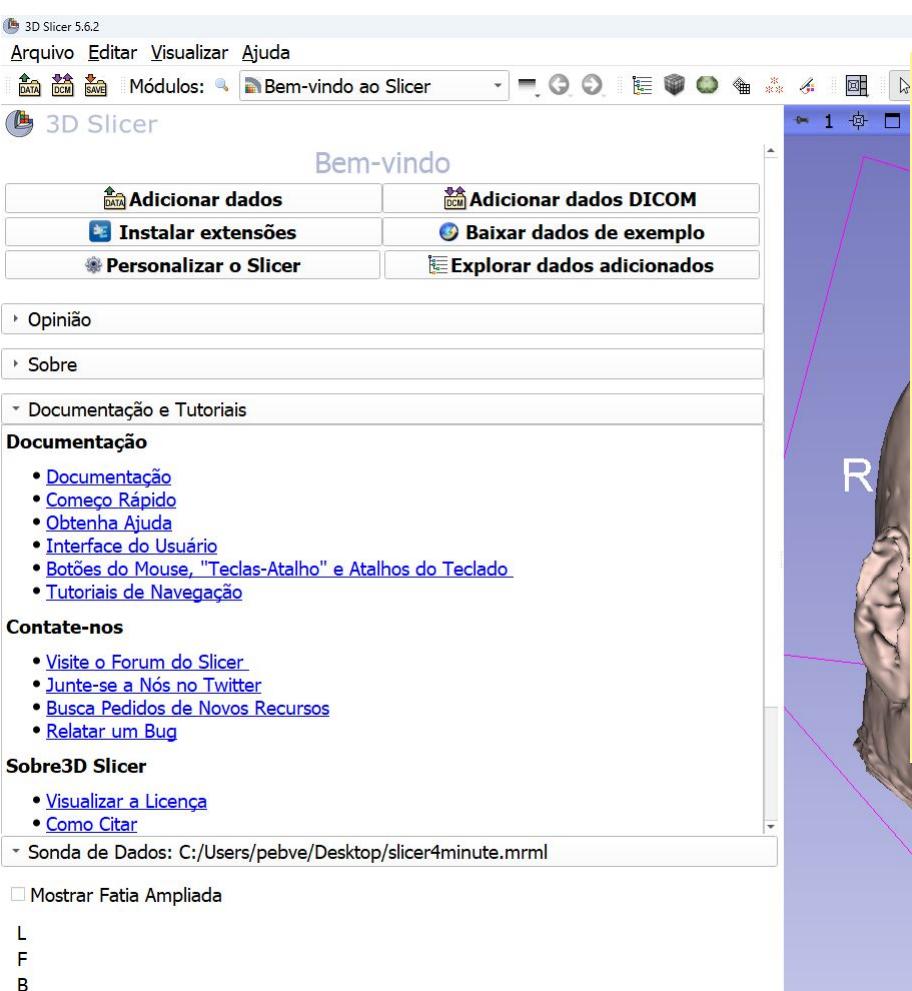
- Documentation guidelines
- Slicer user documentation principle and guidelines
- Visual blog
- Set of screenshots showing Slicer in action.
- Release Notes
- Platform specific issues and considerations
- Announcements & Acknowledgments
- Registration Library

Real-life example cases of using the Slicer registration tools, incl. datasets and step-by-step instructions to follow and try yourself.

Documentation in other languages

- Español

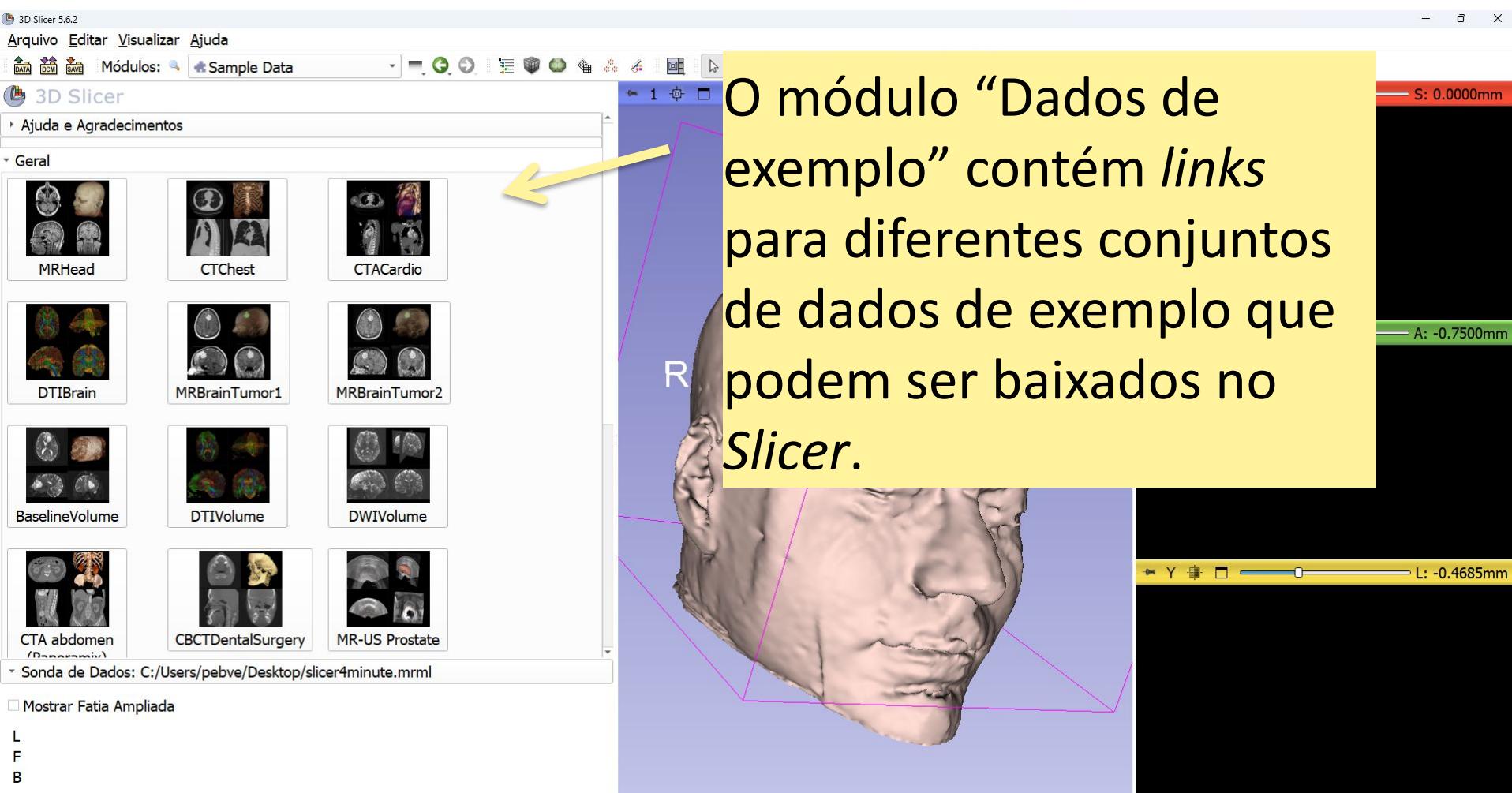
Módulo de boas-vindas



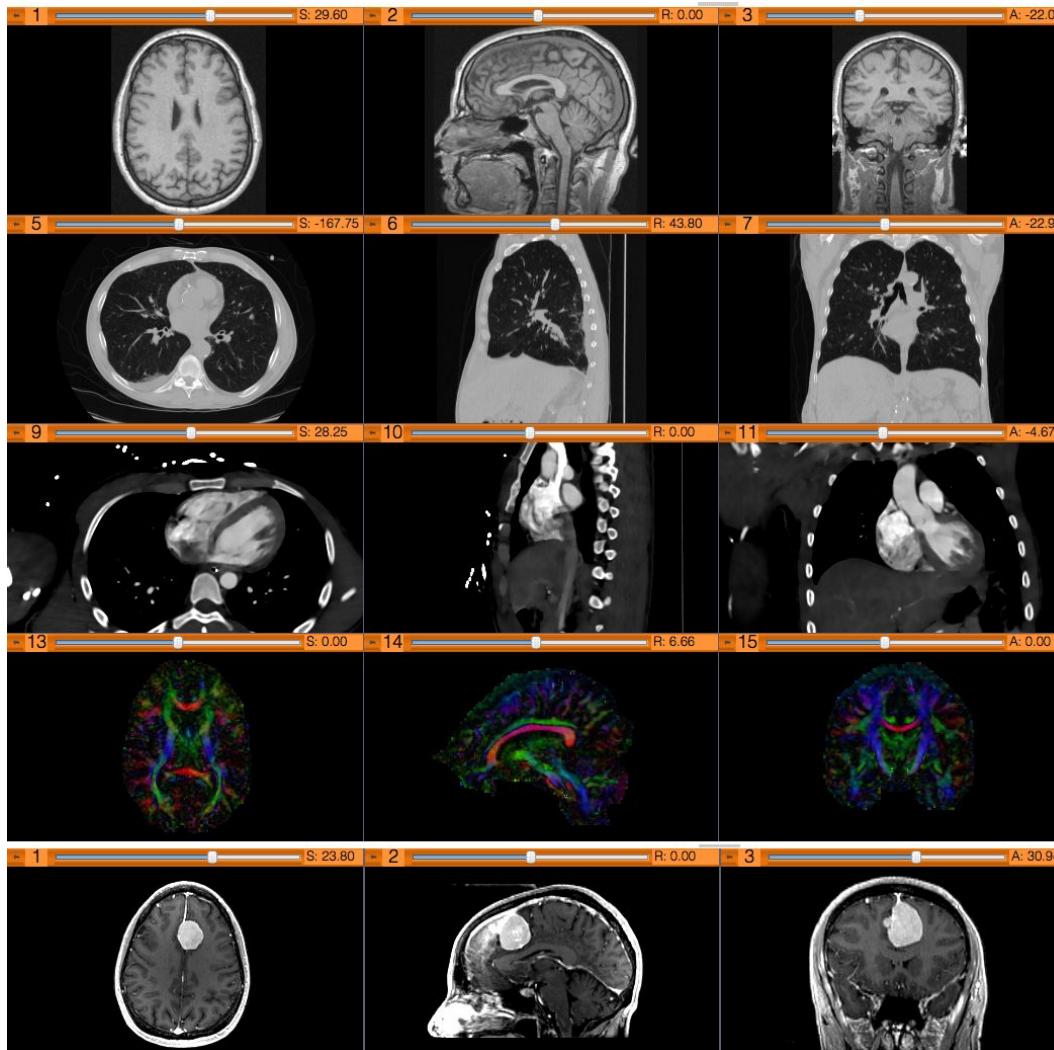
- O painel do módulo de boas-vindas contém atalhos para carregar diferentes tipos de dados. Uma série de dados de exemplo também está disponível.
- Clique em “Baixar dados de exemplo” para acessar o “Módulo de dados de exemplo”.



Dados de exemplo



Dados de exemplo



Ressonância magnética cerebral

Tomografia computadorizada torácica

Tomografia computadorizada cardíaca

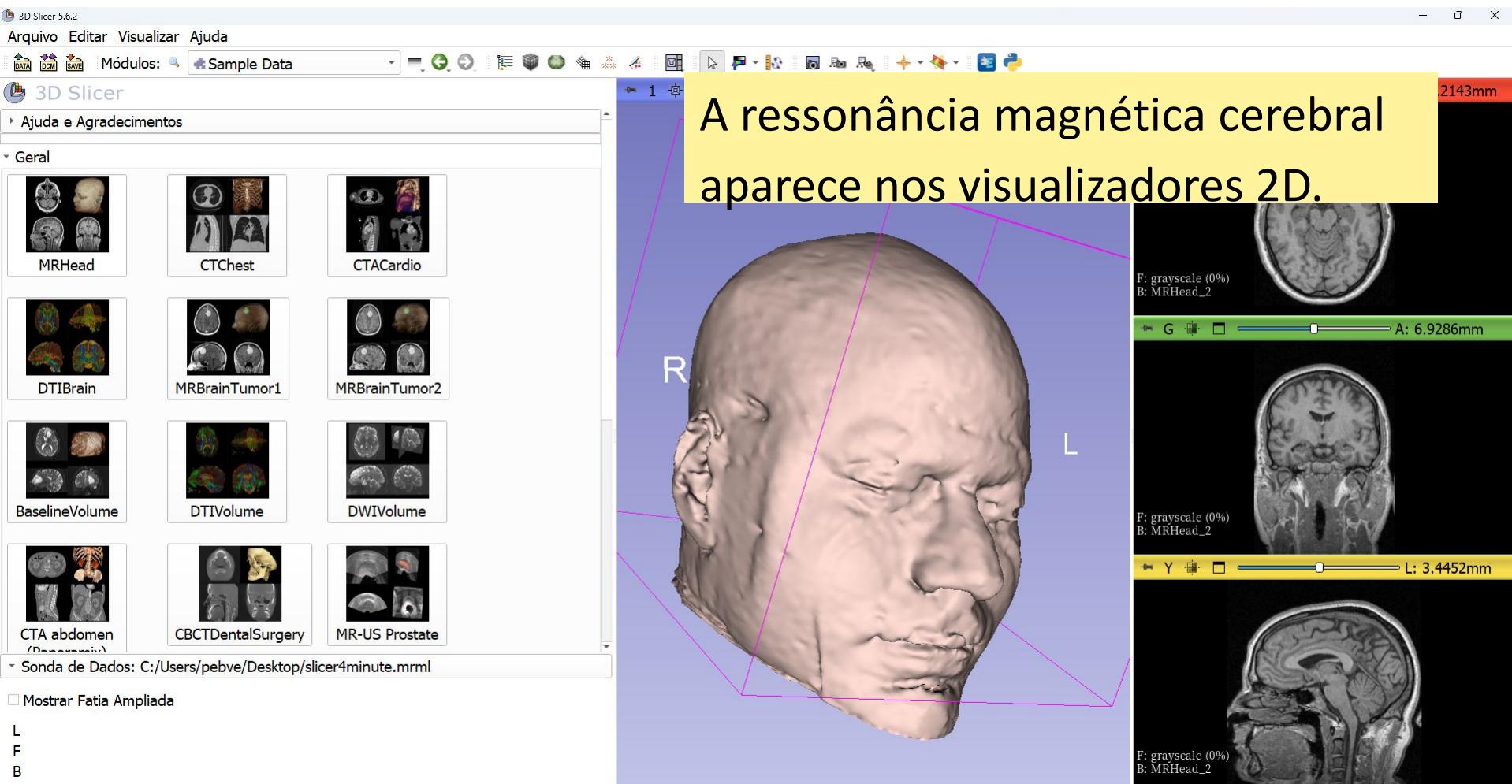
Tensor de difusão Conjunto de dados de imagem (*DTI*)

Ressonância magnética cerebral (paciente com tumor)

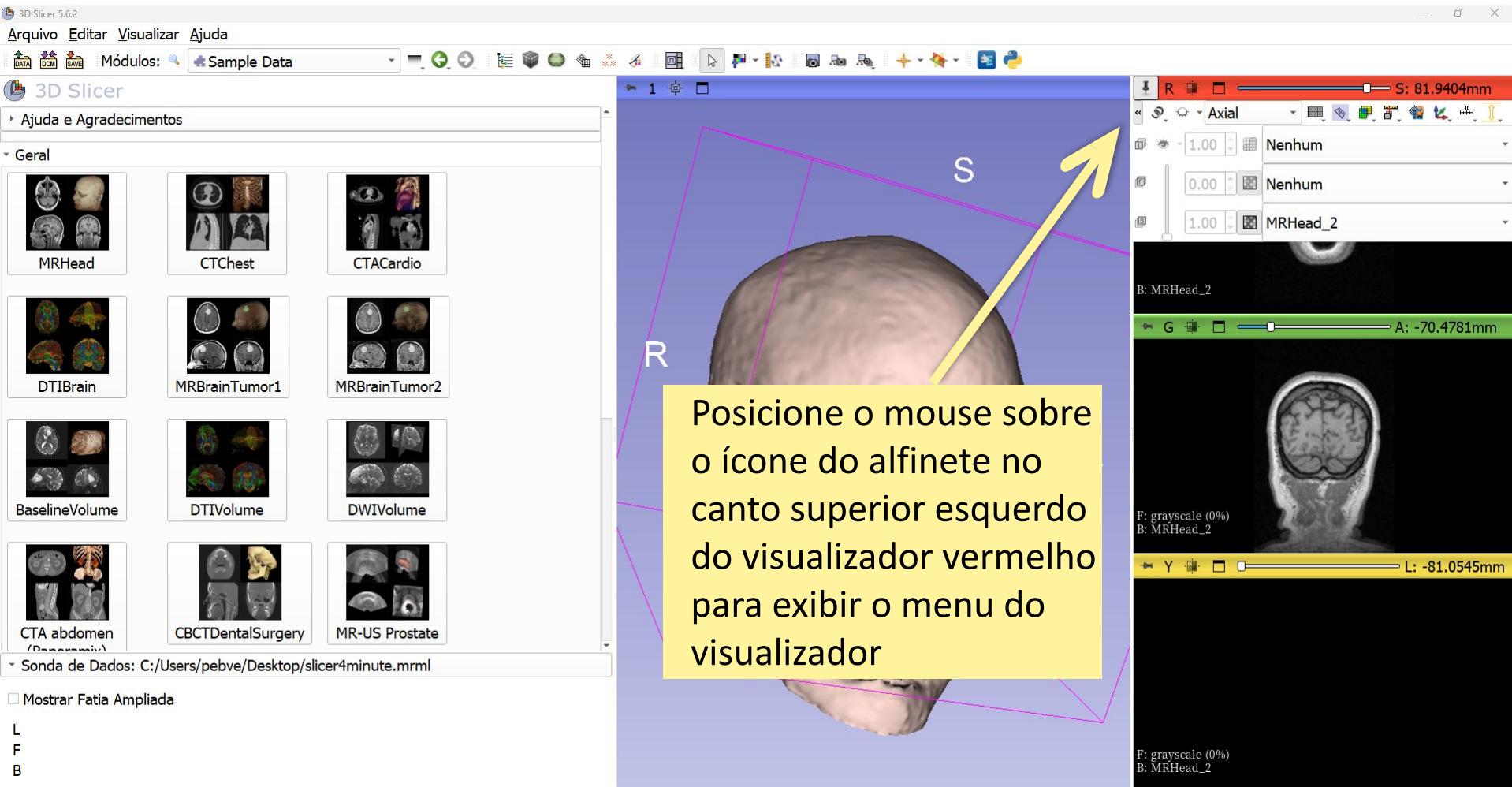
Dados de exemplo



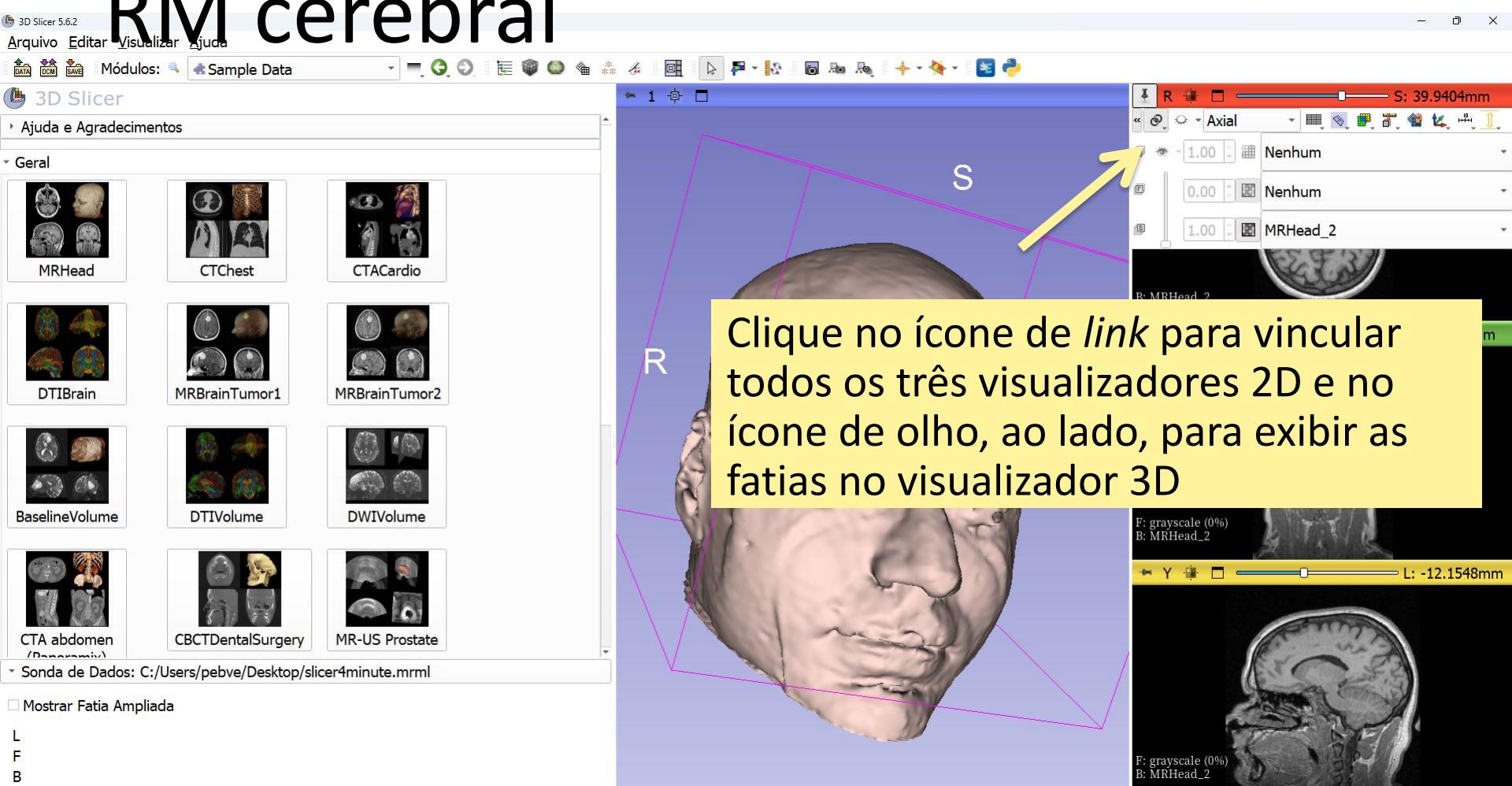
Módulo de boas-vindas



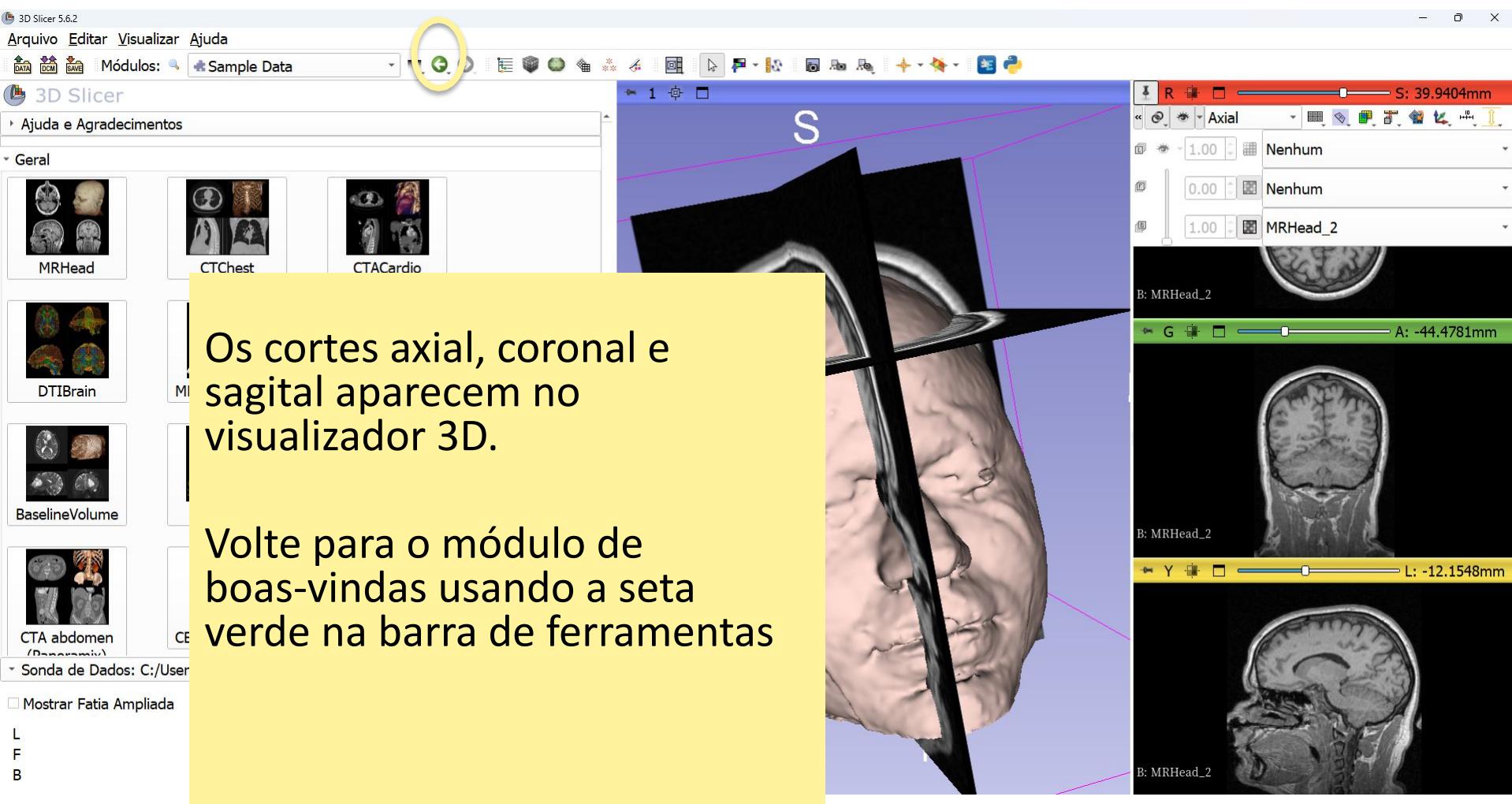
Conjunto de dados de exemplo MR Head



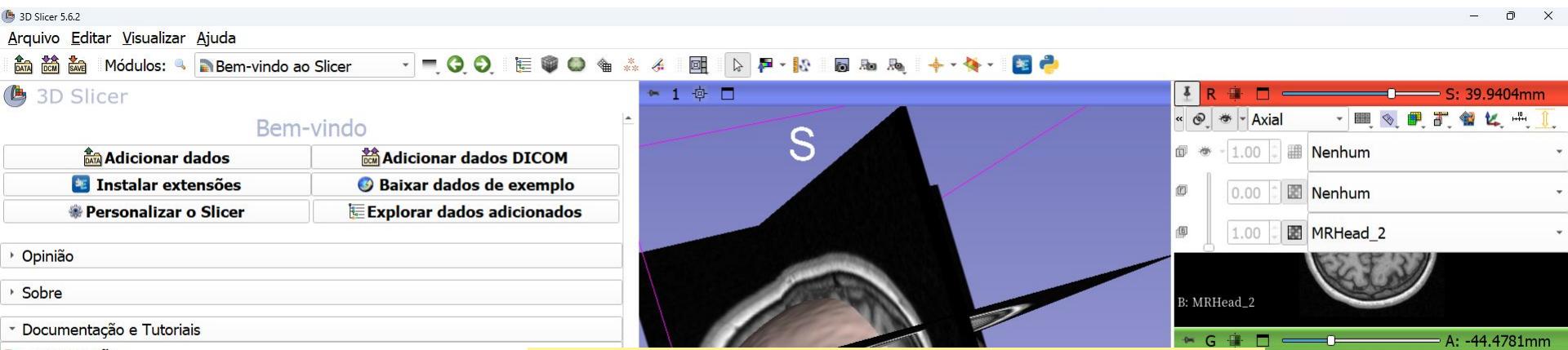
Conjunto de dados da amostra de RM cerebral



Conjunto de dados da amostra de RM cerebral

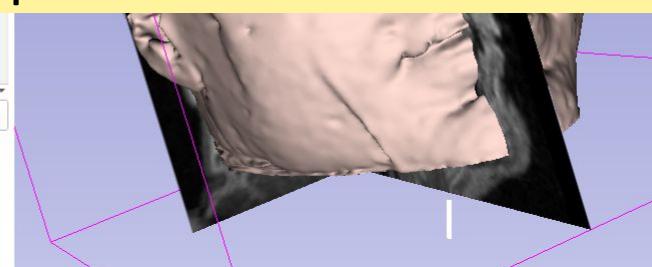


Mais informações

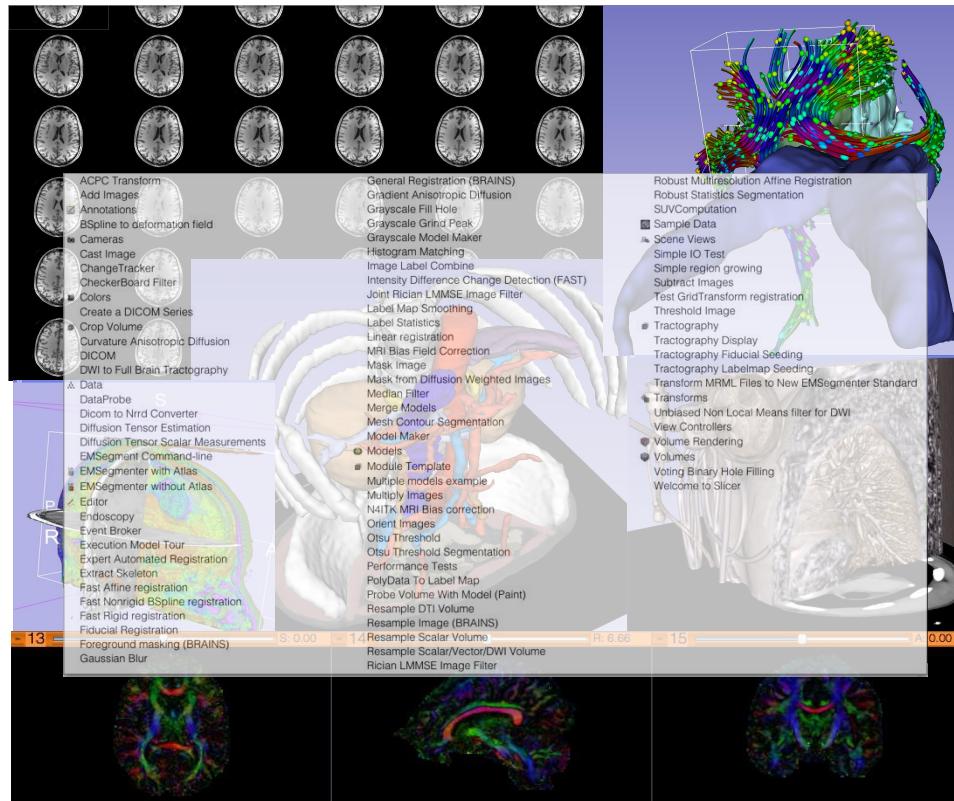


The screenshot shows the 3D Slicer 5.6.2 interface. On the left is the 'Bem-vindo' (Welcome) panel with links for adding data, DICOM extensions, and personalizing the Slicer. Below it are sections for opinions, about the software, documentation, and contact information. The main workspace displays a 3D rendering of a brain with a slice labeled 'S'. To the right are two 2D axial MRI slices of a head, labeled 'A' and 'B', with coordinate sliders indicating positions.

Para saber mais sobre o *Slicer* e suas diferentes funcionalidades, visite o compêndio do *Slicer* 5.6.2



Mais informações



<https://www.slicer.org/wiki/Documentation/Nightly>

Agradecimentos



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Neuroimage Analysis Center

NIH P41EB015902



Chan Zuckerberg Initiative

Essential Open Source for Science Grant
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