

La plataforma de código abierto 3D Slicer para la investigación clínica

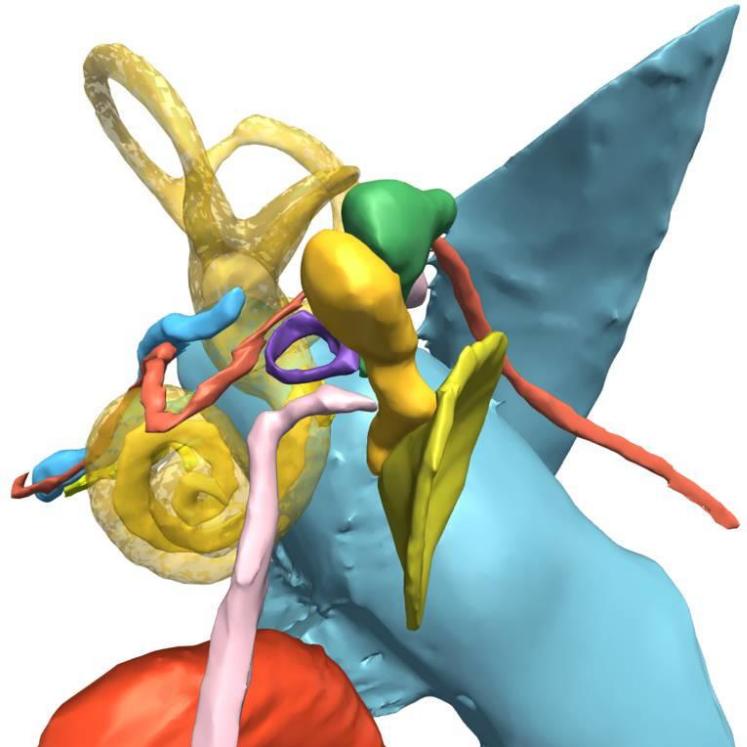
Dra. Sonia Pujol
Directora de Formación, Educación e Internacionalización de 3D Slicer
Profesora adjunta de Radiología
Brigham and Women's Hospital, Facultad de Medicina de Harvard en
Boston, MA
spujol@bwh.harvard.edu





La imagen médica desempeña un papel clave en el diagnóstico, tratamiento y seguimiento de una enfermedad.

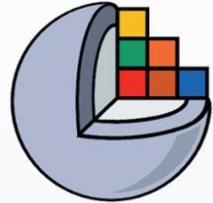




3D Ear Atlas, OpenAnatomy.org

3D Slicer proporciona acceso a los últimos avances en análisis de imágenes médicas y tecnología de visualización 3D.





3D Slicer image computing platform

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3D Slicer is a **free**, **open source** and **multi-platform** software package widely used for medical, biomedical, and related imaging research.

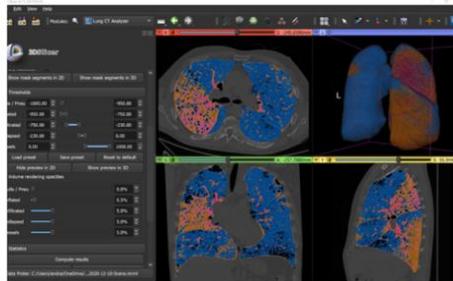
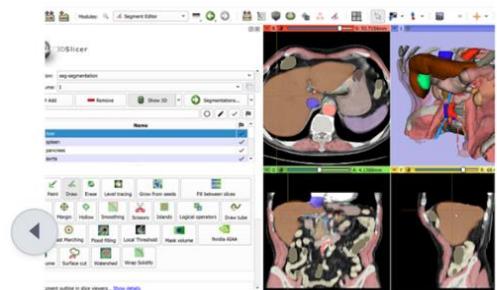
What is 3D Slicer?

Desktop software to solve advanced image computing challenges with a focus on clinical and biomedical applications.

Development platform to quickly build and deploy custom solutions for research and commercial products, using free, open source software.

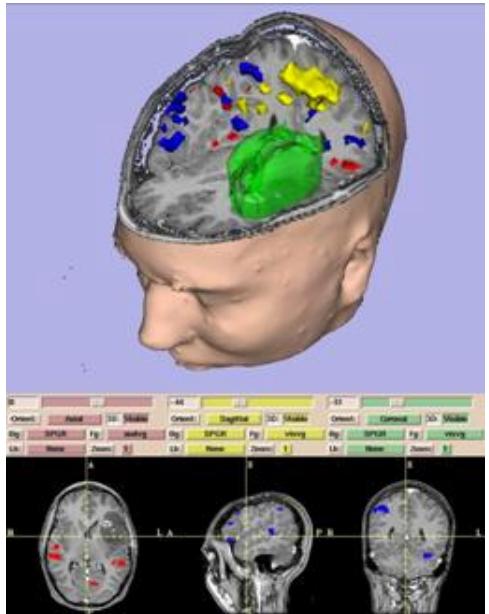
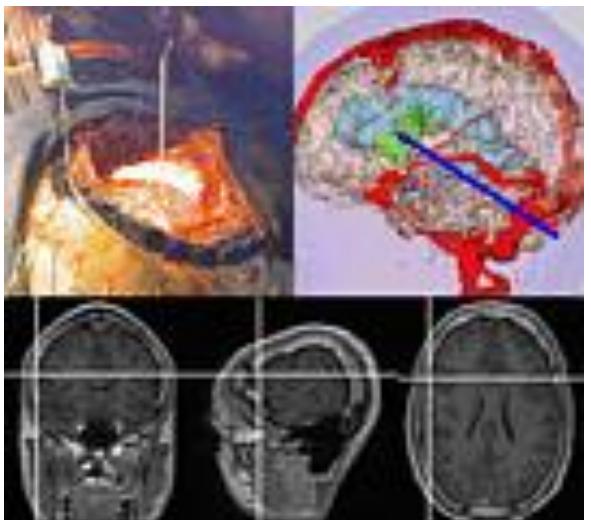
Community of knowledgeable users and developers working together to improve medical computing.

See 3D Slicer in action



3D Slicer es un software de código abierto para el análisis de imágenes específicas, la visualización en 3D y la terapia guiada por imágenes.





3D Slicer inició en 1997 como un proyecto de tesis de maestría entre el Laboratorio de Planificación Quirúrgica (SPL por sus siglas en inglés) de la Facultad de Medicina de Harvard y el Laboratorio de Ciencias Informáticas e Inteligencia Artificial (CSAIL por sus siglas en inglés) del MIT.

Cortesía de CSAIL, MIT

HOW THE BODY KNOWS LEFT FROM RIGHT • A CLEVER SEARCH ENGINE

SCIENTIFIC AMERICAN

JUNE 1999

\$4.95

www.sciam.com

EXPEDITIONS:
THE BATS OF BELIZE



Scanners and Scalpels

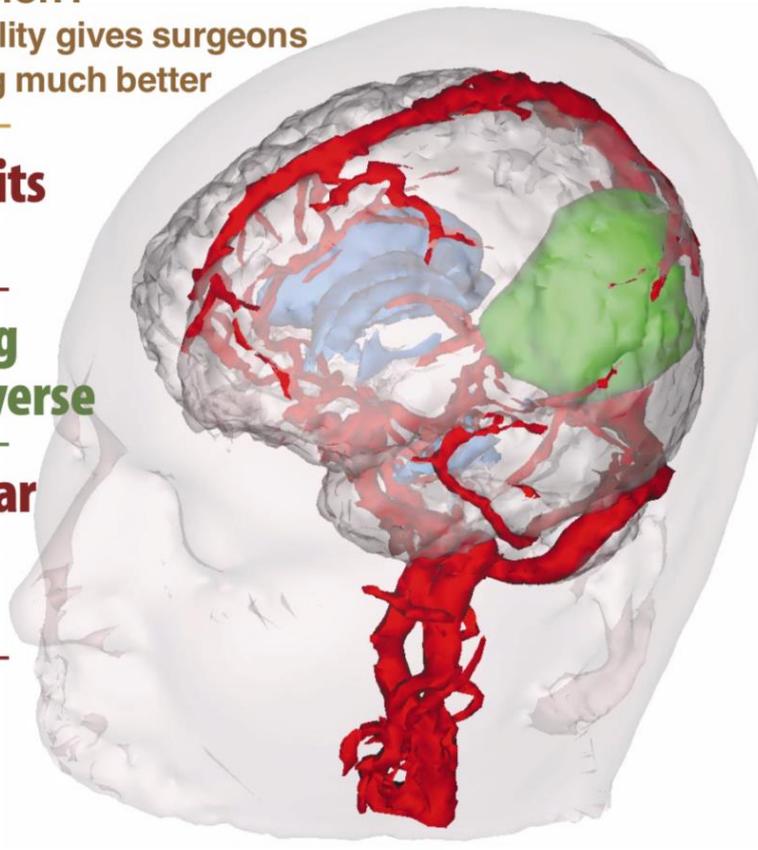
X-ray vision?

Virtual reality gives surgeons something much better

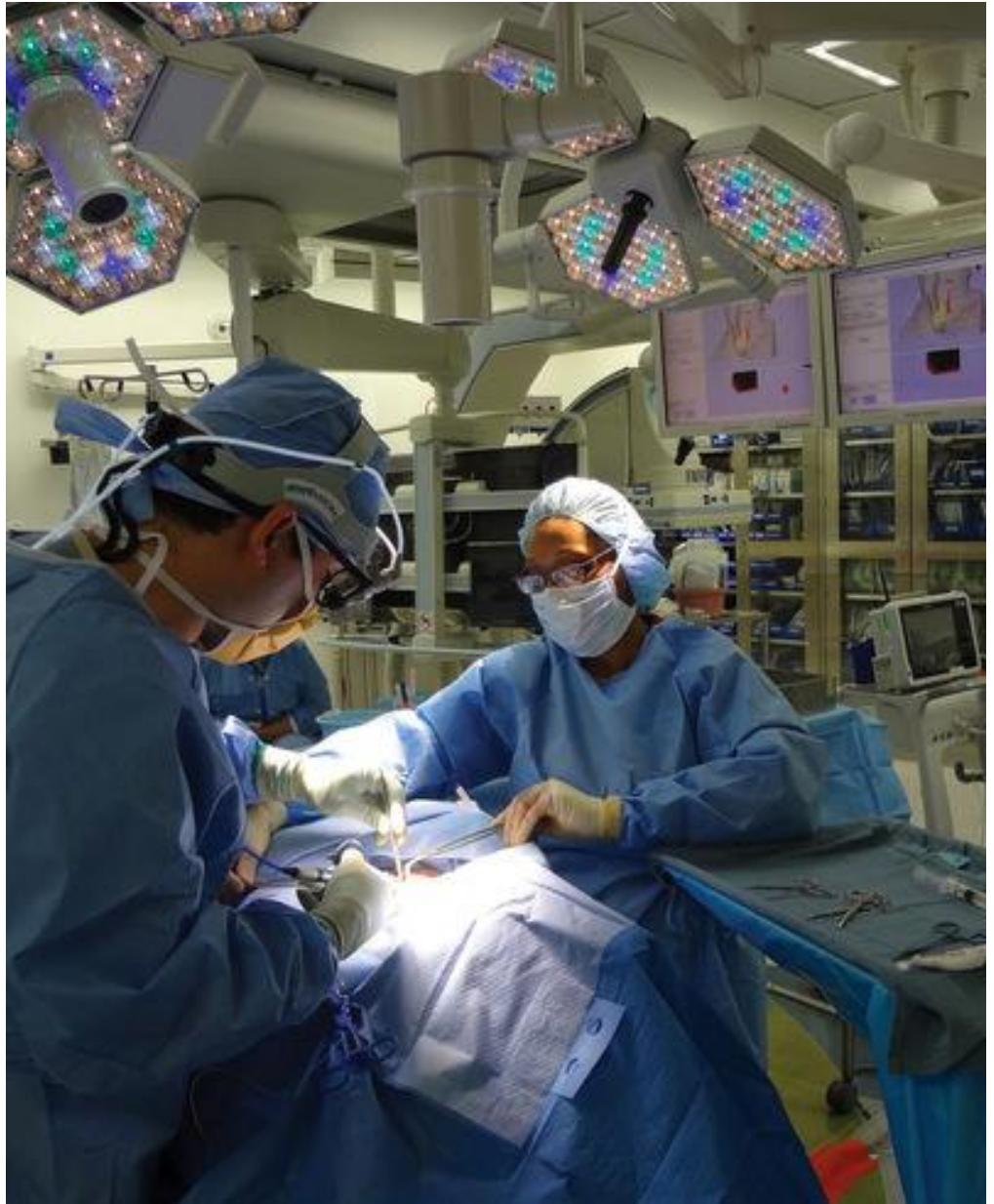
The Limits of Logic

Mapping the Universe

Germ War against Crops

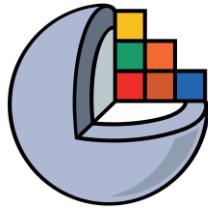


En junio de 1999, 3D Slicer apareció en la portada de Scientific American.



A lo largo de 25 años, 3D Slicer se ha convertido en una plataforma de investigación clínica ampliamente utilizada por investigadores y profesionales del sector salud de todo el mundo.

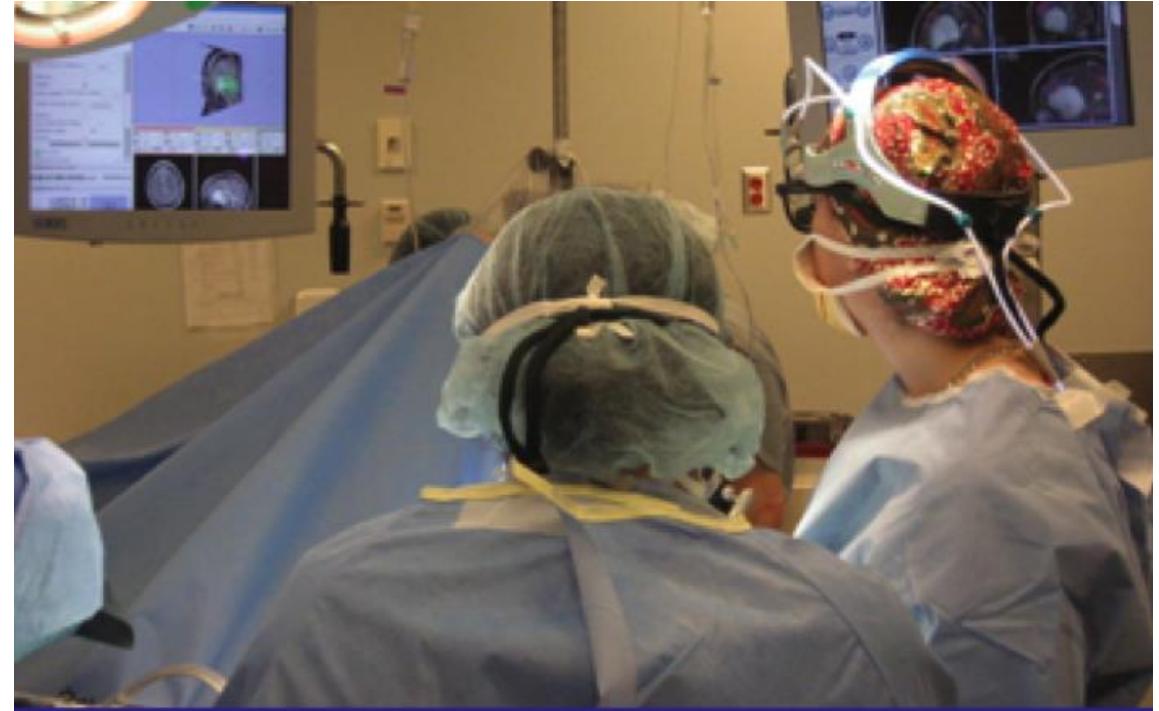




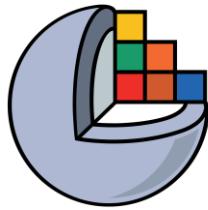
3D Slicer



Una [plataforma de código abierto](#) para desarrolladores e ingenieros de software.



Una [aplicación destinada](#) para médicos y científicos.

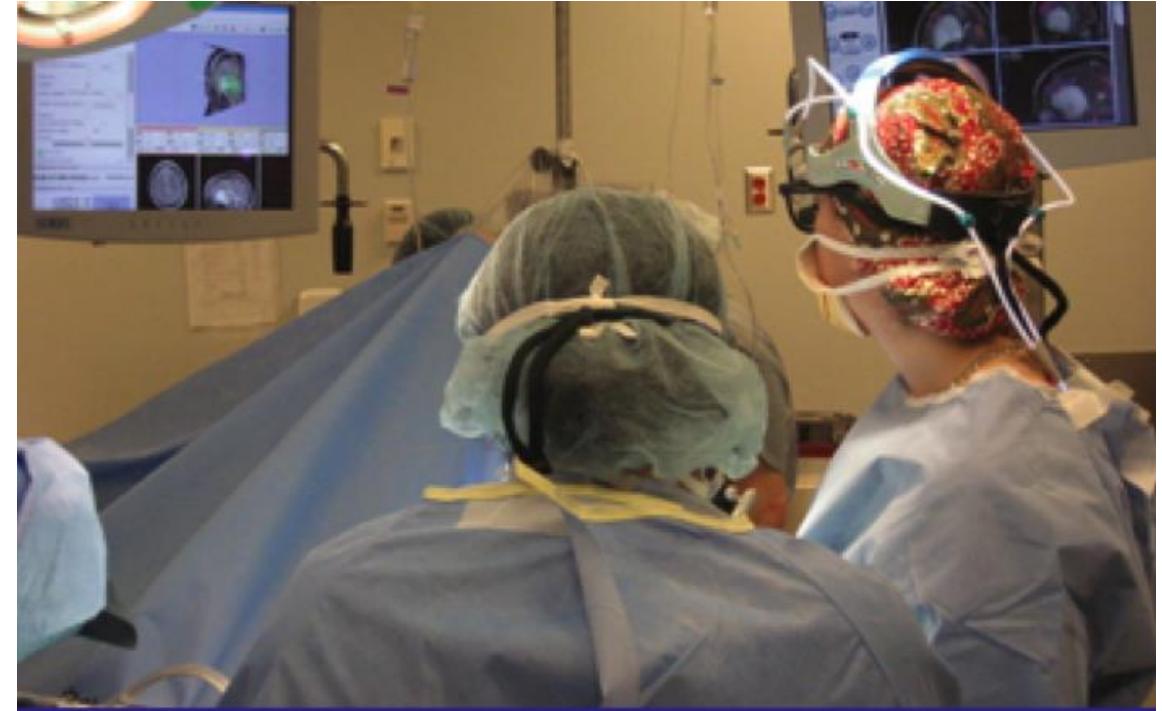


3D Slicer



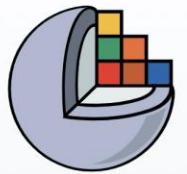
Una [plataforma de código abierto](#) para desarrolladores e ingenieros de software.

El ambiente 3D Slicer **es fácil de usar para los investigadores y fácil de expandir para los desarrolladores con la creación de nuevos módulos**.



Una [aplicación destinada](#) para médicos y científicos.





3D Slicer image computing platform

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Desktop software to solve advanced image computing challenges with a focus on clinical and biomedical applications.

Development platform to quickly build and deploy custom solutions for research and commercial products, using free, open source software.

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[See 3D Slicer in action](#)

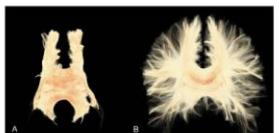
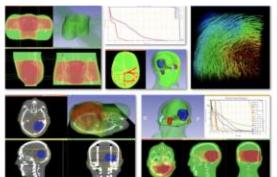


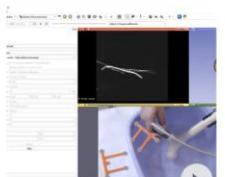
Figure 1: Axial view of the tractography of the corticospinal tract using a registration algorithm in an intraoperative setting. Panel A shows the tractography of the corticospinal tract. Panel B shows the final view of the tractography of the corticospinal tract using the most same region of interest in the same subject. This work was performed at the Research Institute. Note the fiber tracts running subcortically to parts of the brain without synapses.



Tracked ultrasound for needle guidance
Tracked ultrasound snapshots enhance needle guidance



Adaptive radiation therapy
SlicerRT extension is a radiation therapy toolkit for 3D Slicer, containing DICOM RT import/export, visualization, and analysis.



Real-time 3D ultrasound recon:
3D volume is reconstructed from real-time ultrasound using SlicerIGT and SlicerGS

alization of
and the
Japan.The
Summer
Tractography
UKFTractography is a module for computing
tractography of DWI images using an unscented Kalman
filter. Because of its 2-tensor algorithm, it is able to
model fiber crossings and capture many more fibers
than a single tensor algorithm.

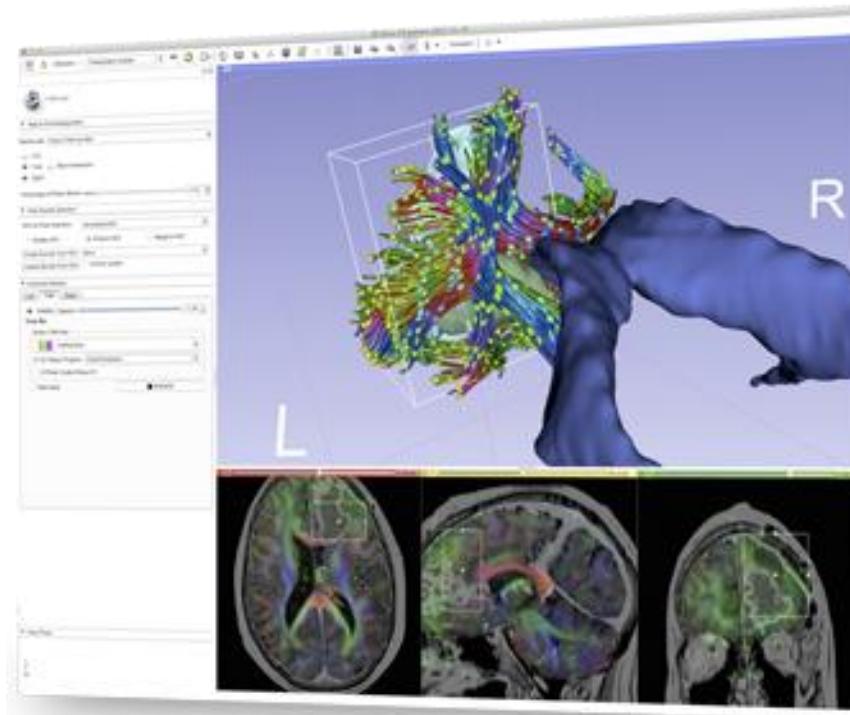
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3D Slicer se ha desarrollado durante 25 años con el apoyo de National Institutes of Health(NIH por sus siglas en inglés), varias organizaciones y fundaciones internacionales, entre ellas Chan Zuckerberg Initiative (CZI)



Slicer no tiene la aprobación de la Administración de Alimentos y Medicamentos de los Estados Unidos (FDA por sus siglas en inglés) ni el marcado CE y es sólo para investigación clínica.



Download 3D Slicer

You are one click away from downloading 3D Slicer, a free and open-source platform for analyzing and understanding medical image data. Created through multiple grants from the US National Institutes of Health (NIH) over almost two decades, Slicer brings powerful medical image processing, visualization, and data analysis tools within reach of everyone.

Slicer is built and tested on many hardware and software platforms. 3D Slicer runs on modern Windows, macOS, and a variety of Linux distributions.
Read about [system requirements](#).



Windows



macOS



Linux

[prerequisites](#)

Stable Release
[access older releases](#)

version 5.0.3
revision 30893
built 2022-07-08

version 5.0.3
revision 30893
built 2022-07-08

version 5.0.3
revision 30893
built 2022-07-08

Preview Release

version 5.1.0
revision 31238
built 2022-10-23

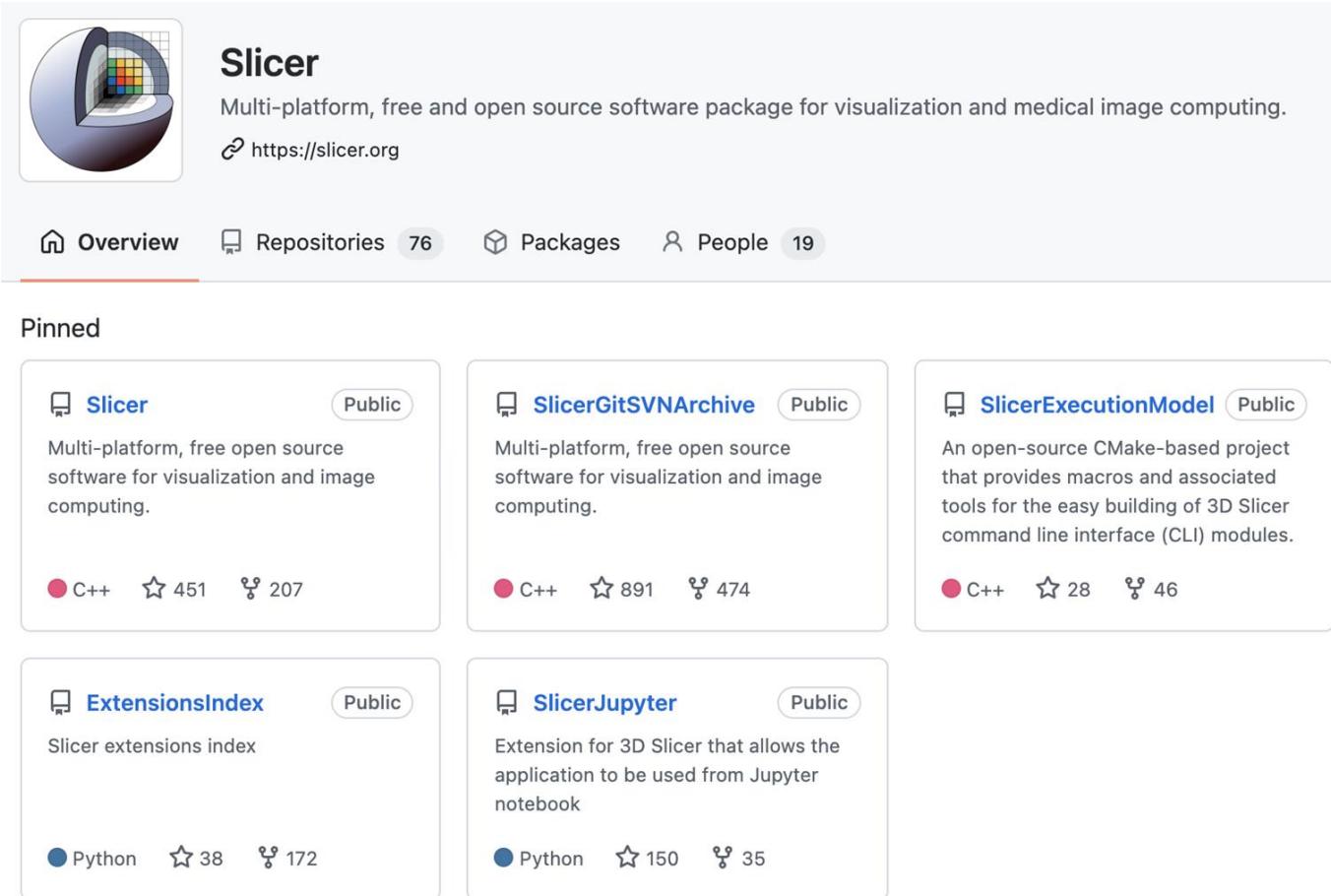
version 5.1.0
revision 31238
built 2022-10-23

version 5.1.0
revision 31238
built 2022-10-23

3D Slicer está disponible en plataformas Windows, Mac y Linux.

La aplicación puede descargarse en <https://download.slicer.org/>





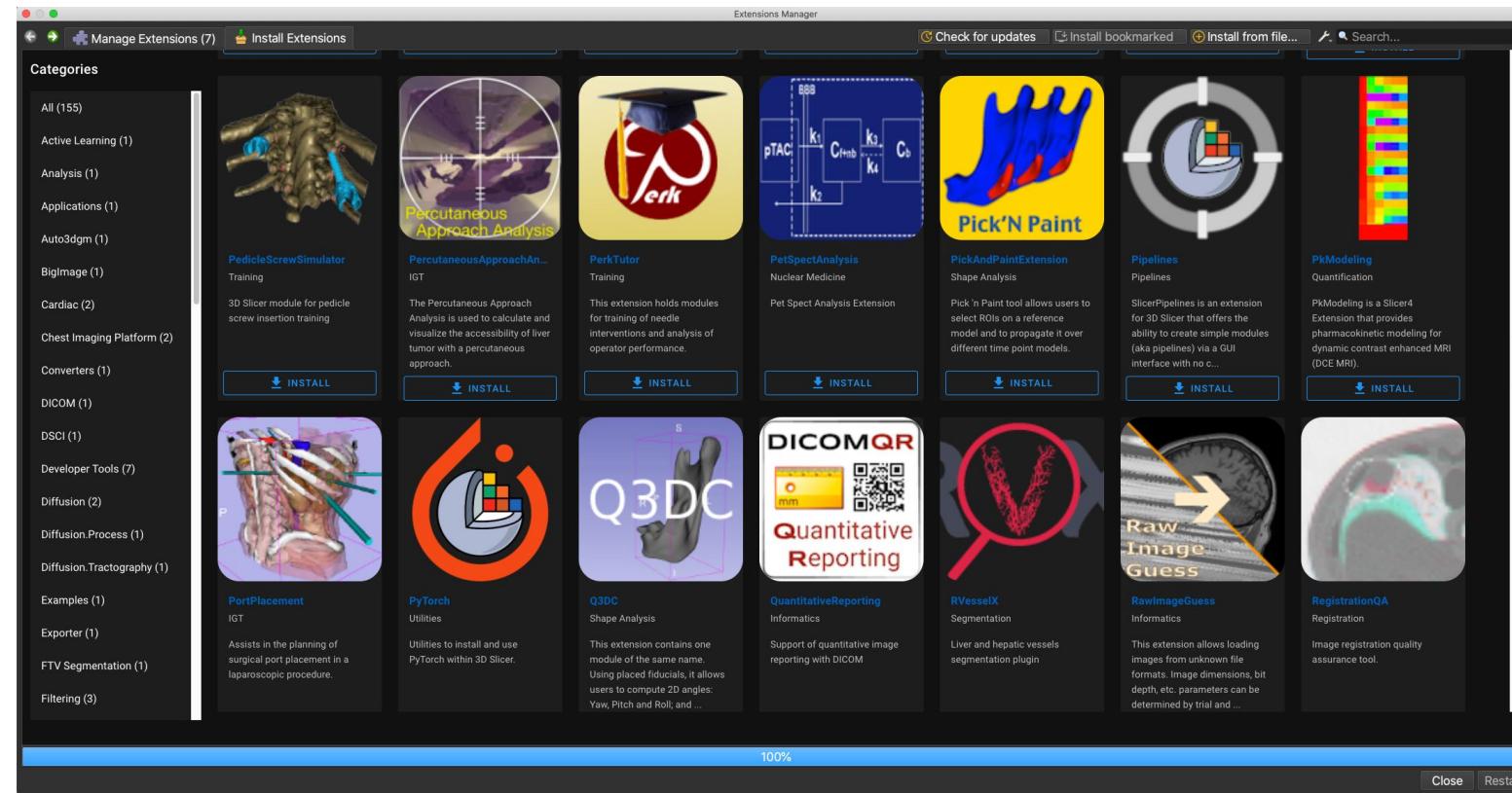
The screenshot shows the GitHub repository page for "Slicer". The repository has 76 repositories and 19 packages. It features a pinned section with the following projects:

- Slicer** (Public): Multi-platform, free open source software for visualization and image computing. (C++ 451, Stars 207)
- SlicerGitSVNArchive** (Public): Multi-platform, free open source software for visualization and image computing. (C++ 891, Stars 474)
- SlicerExecutionModel** (Public): An open-source CMake-based project that provides macros and associated tools for the easy building of 3D Slicer command line interface (CLI) modules. (C++ 28, Stars 46)
- ExtensionsIndex** (Public): Slicer extensions index. (Python 38, Stars 172)
- SlicerJupyter** (Public): Extension for 3D Slicer that allows the application to be used from Jupyter notebook. (Python 150, Stars 35)

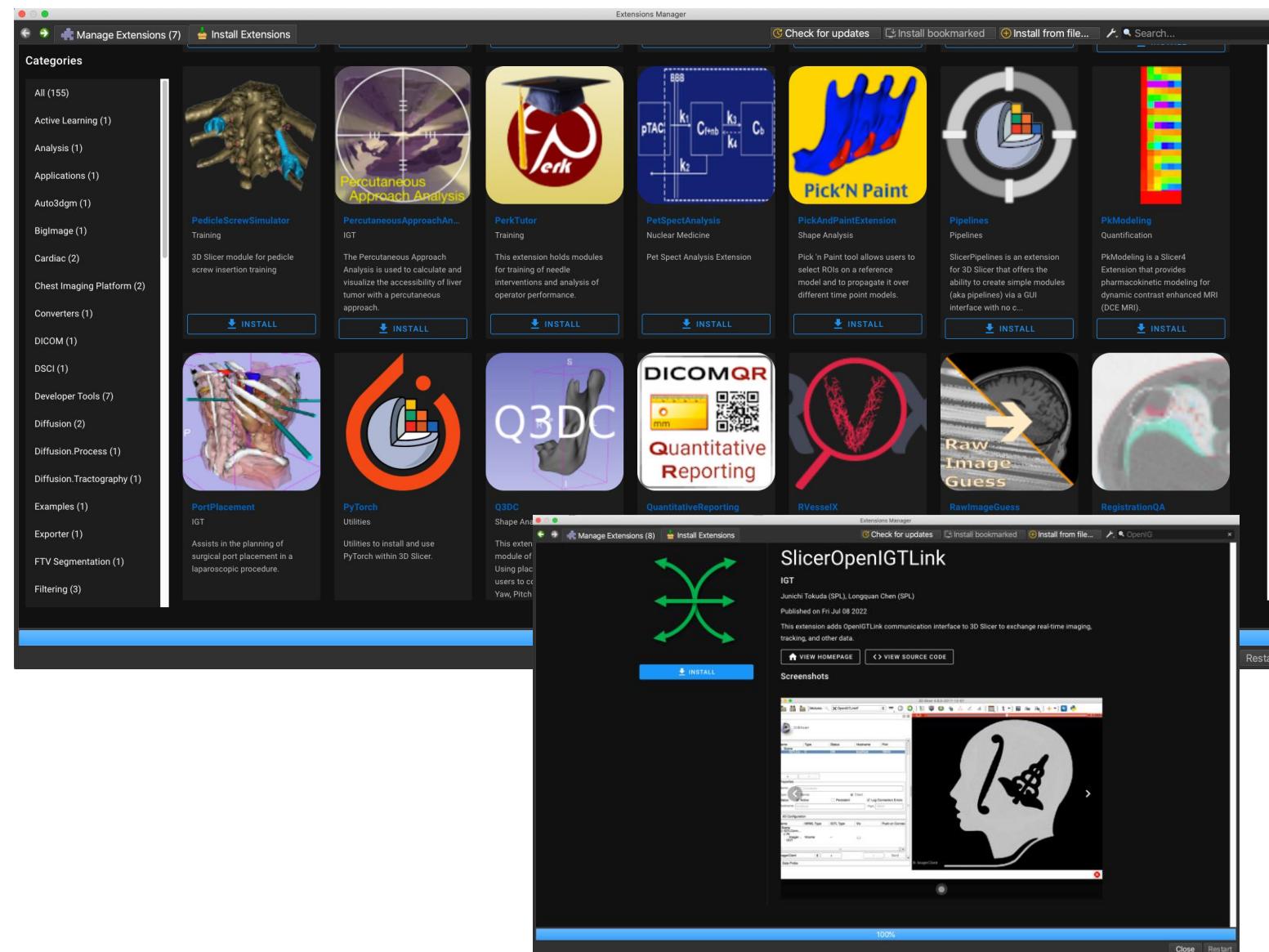
El código fuente de 3D Slicer está disponible gratuitamente en GitHub en:

<https://github.com/Slicer>



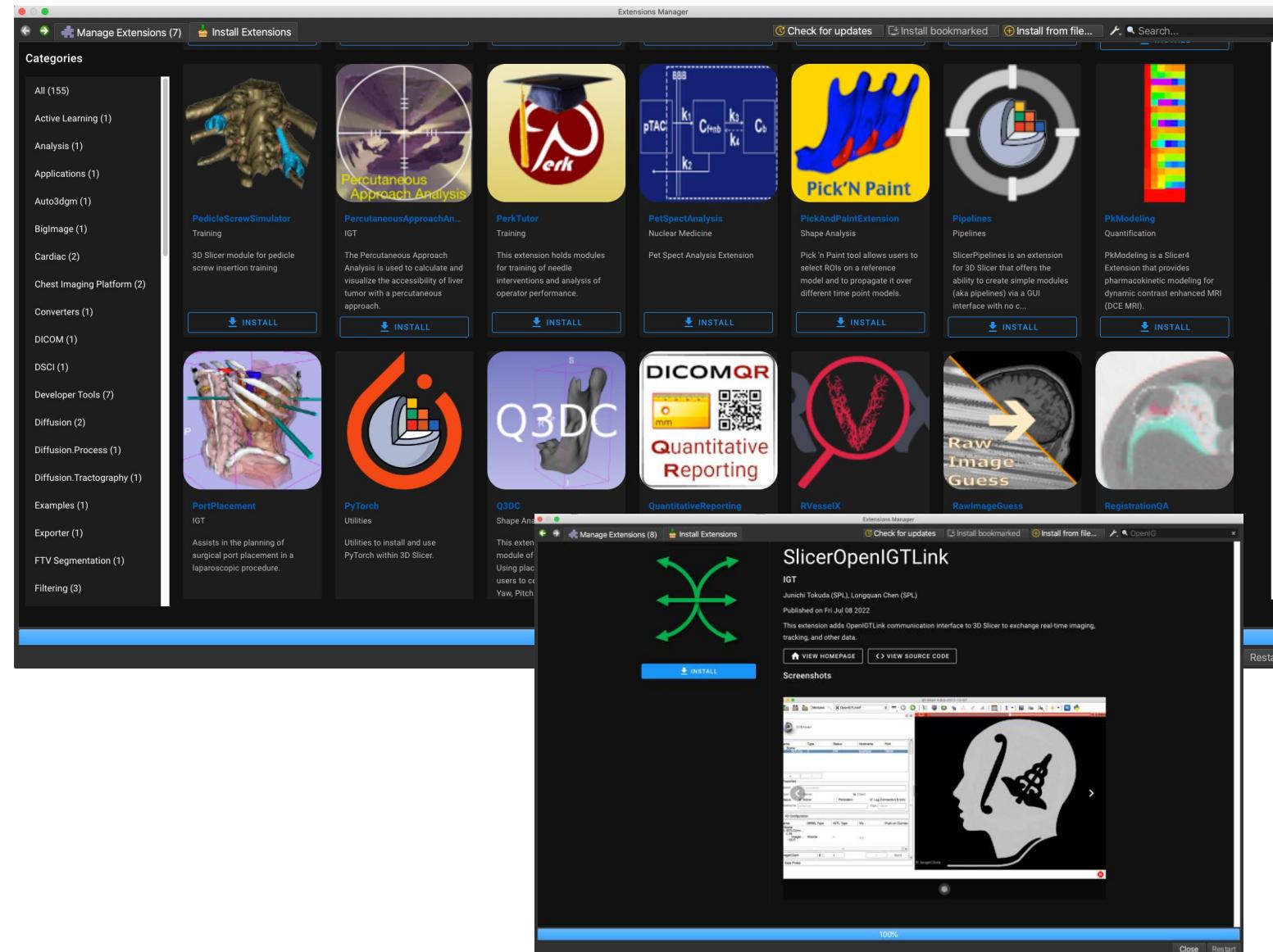


3D Slicer es enriquecido por la comunidad de investigación biomédica mediante extensiones de Slicer.



3D Slicer es enriquecido por la comunidad de investigación biomédica a través de extensiones Slicer.

Una extensión Slicer es un paquete que agrupa uno o más módulos Slicer.



El Gestor de extensiones de 3D Slicer ofrece a los destinatarios acceso a más de 180 extensiones de Slicer.



Site	Build Name	Update		Configure		Build		Test			Start Time ▾
		Revision	Error	Warn	Error	Warn ▾	Not Run	Fail	Pass		
overload.kitware	Windows10-VS2022-64bits-Qt5.15.2-NoConsole-Release 📂	f9bd65	0	0	0	1001	0	0	661	18 hours ago	
metroplex.kitware	Linux-g++-7.3.1-64bits-Qt5.15.2-Release 📂	f9bd65	0	0	0	1000	0	0	663	18 hours ago	
factory-south-macos.kitware	macOS-clang-10.0.0-64bits-Qt5.15.2-Release 📂	f9bd65	0	0	0	175 ⁺¹¹ ₋₁₁				18 hours ago	

Site	Build Name	Update		Configure		Build		Test			Start Time ▾
		Revision	Error	Warn	Error	Warn	Not Run	Fail	Pass		
overload.kitware	31238-SPHARM-PDM-git7e7758a-MSBuild-64bits-Qt5.15-Release ⓘ		0	0	45	56	0	9	3	12 hours ago	
metroplex.kitware	31238-SPHARM-PDM-git7e7758a-g++-64bits-Qt5.15-Release ⓘ		0	0	28	10	0	11	1	14 hours ago	
factory-south-macos.kitware	31238-Chest_Imaging_Platform-gitdd9b876-g++-64bits-Qt5.15-Release ⓘ		0	0	7	4				13 hours ago	
metroplex.kitware	31238-Chest_Imaging_Platform-gitdd9b876-g++-64bits-Qt5.15-Release ⓘ		0	0	7	1				15 hours ago	
factory-south-macos.kitware	31238-SlicerOpenCV-git3f0bbd8-g++-64bits-Qt5.15-Release ⓘ		0	0	5	159				8 hours ago	
metroplex.kitware	31238-SlicerOpenCV-git3f0bbd8-g++-64bits-Qt5.15-Release ⓘ		0	0	5	53				14 hours ago	
factory-south-macos.kitware	31238-SlicerITKUltrasound-gitb17f542-g++-64bits-Qt5.15-Release ⓘ		0	0	4	1				9 hours ago	
factory-south-macos.kitware	31238-PBNRR-gitb494c1e-g++-64bits-Qt5.15-Release ⓘ		0	0	4	1				11 hours ago	
factory-south-macos.kitware	31238-BoneTextureExtension-gitdeedb0e-g++-64bits-Qt5.15-Release ⓘ		0	0	4	1				13 hours ago	
metroplex.kitware	31238-SlicerITKUltrasound-gitb17f542-g++-64bits-Qt5.15-Release ⓘ		0	0	4	1				14 hours ago	

3D Slicer se construye cada noche en MacOSX, Windows y Linux.



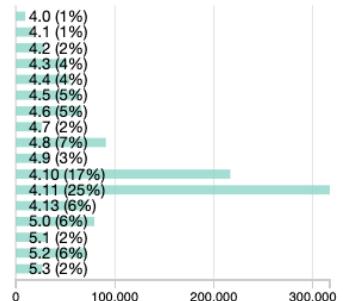


3D Slicer Download Statistics

Date range

Nov 28, 2011 - Apr 25, 2023 ▾

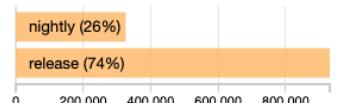
Version



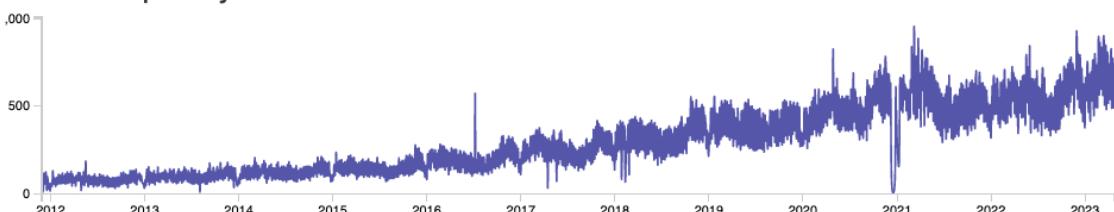
Operating system



Stability



Downloads per day



1,256,331

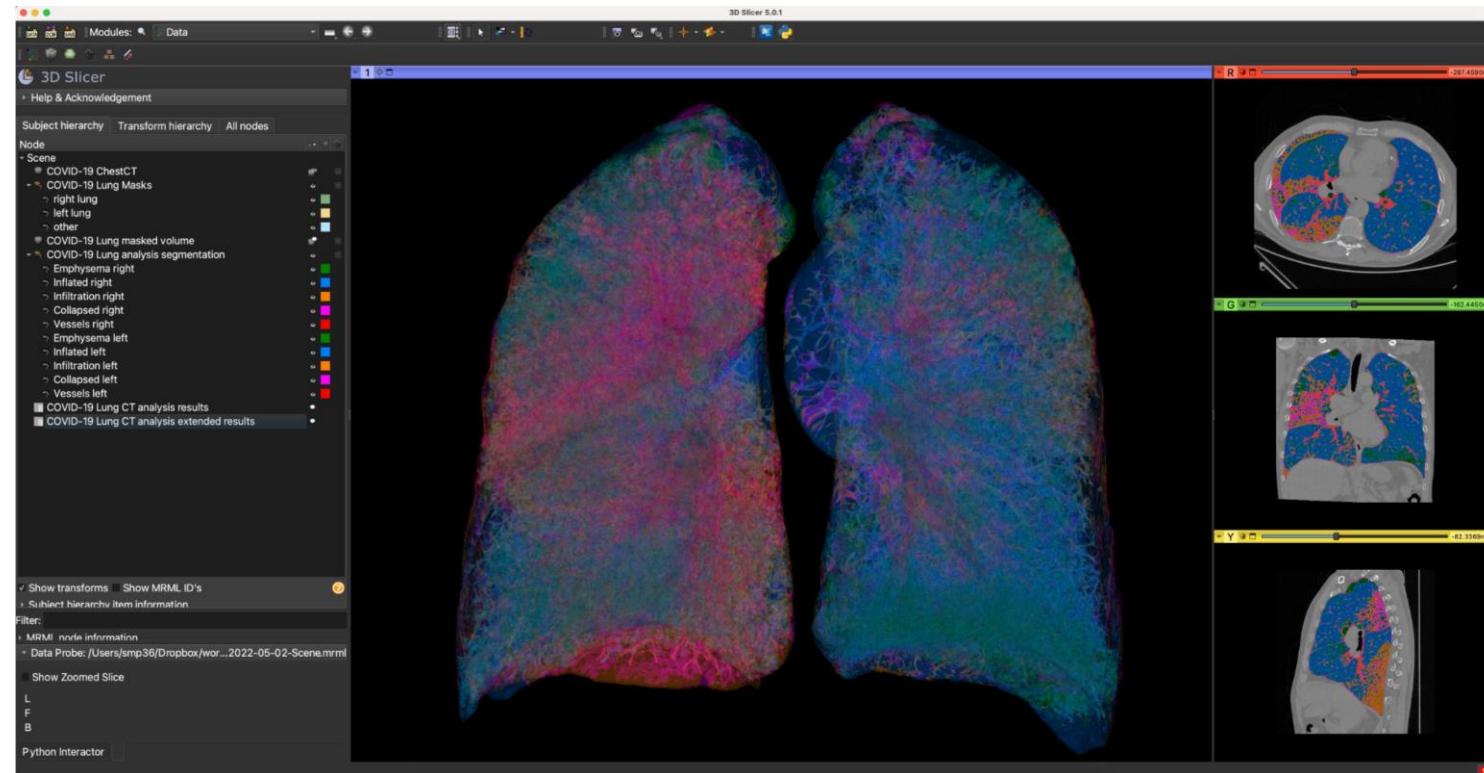
Country



3D Slicer se descarga en todo el mundo, todos los días.

En los últimos 12 años, 3D Slicer ha sido descargado más de 1.2 millones de veces.

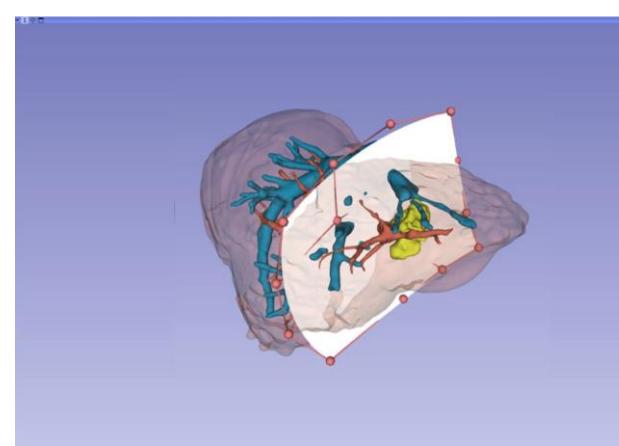
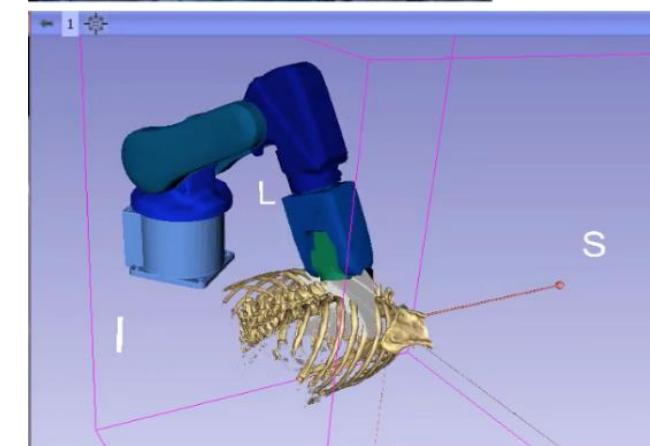
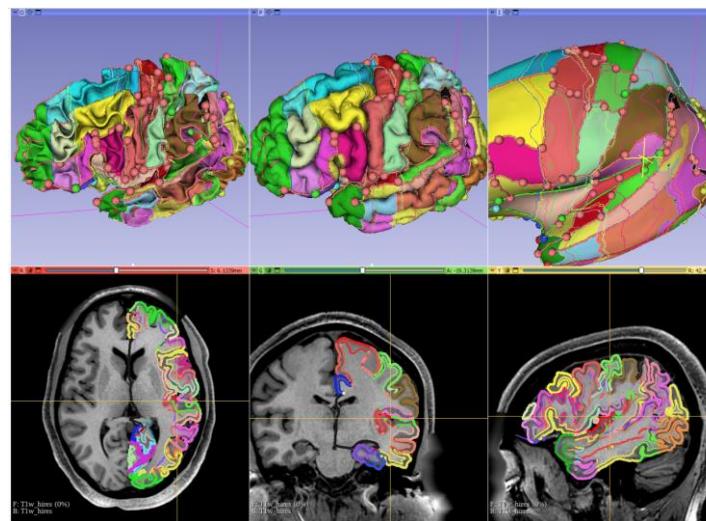
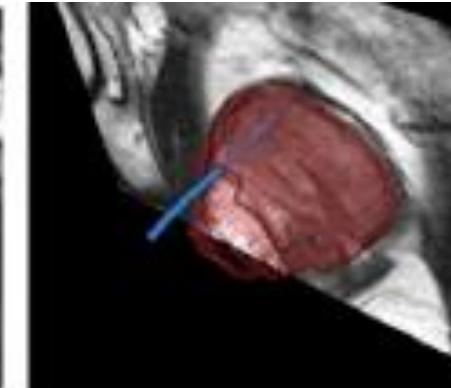
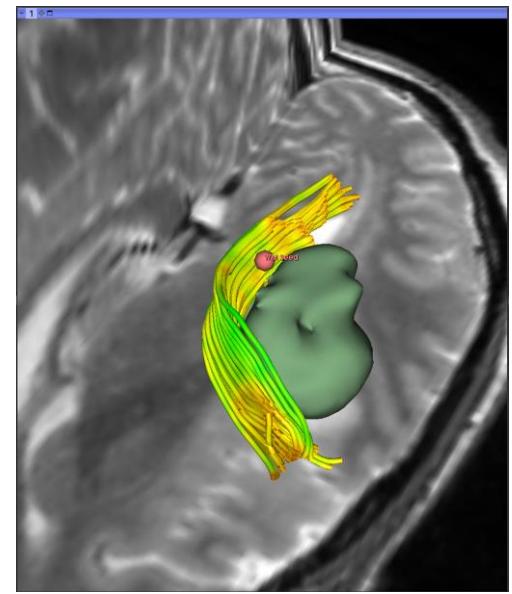
NUEVO 3D Slicer versión 5



La nueva versión 5 de 3D Slicer proporciona cientos de módulos básicos y extensiones esenciales.



Funciones de 3D Slicer



DICOM

3D Slicer proporciona interoperabilidad con el estándar DICOM para importar y exportar imágenes DICOM desde un sistema PACS, un disco duro externo, un CD-ROM o un USB.

The image shows two parts. On the left is a screenshot of the SlicerDICOMTutorial website, which includes a DICOM image of a human head and neck, and a list of authors and materials. On the right is a screenshot of the 3D Slicer software interface, showing the DICOM database and various modules.

SlicerDICOMTutorial

The DICOM and Slicer tutorial provides an introduction to the DICOM standard and shows how to load and visualize DICOM datasets in 3D Slicer version 5.0.

Author:

- Sonia Pujol, Ph.D, Director of 3D Slicer Training & Education, Assistant Professor of Radiology, Brigham and Women's Hospital, Harvard Medical School

Materials:

- Software: 3D Slicer version 4.11 nightly build (Slicer 5.0 pre-release version)
- Tutorial Dataset: 3D Slicer DICOM Tutorial Data

SlicerDICOMTutorial maintained by [spujol](#)
Published with GitHub Pages

3D Slicer Software Interface

DICOM database

Patient name	Patient ID	Birth date	Sex	Studies	Last study	Date added
BreastDx-01-0005			F	1	Tue Nov 11 2008	2020...583
patient1	patient1_ID			1	Wed Jun 1 2005	2020...273

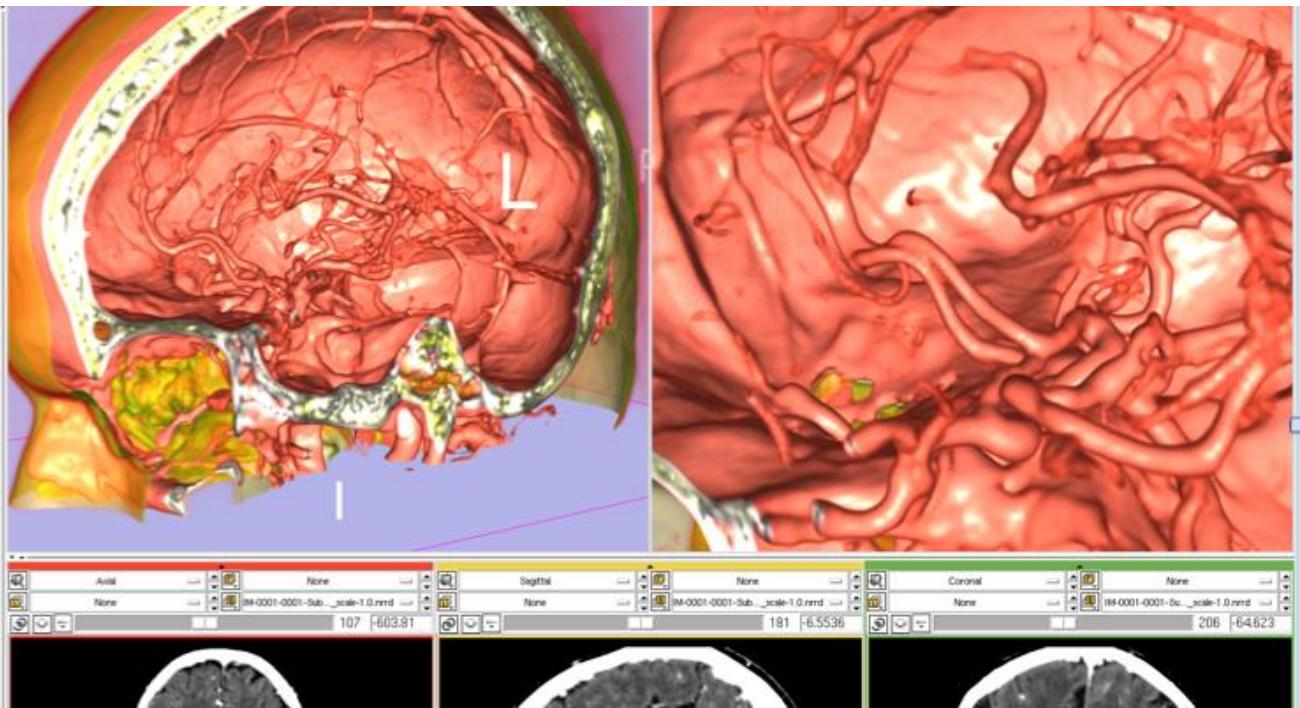
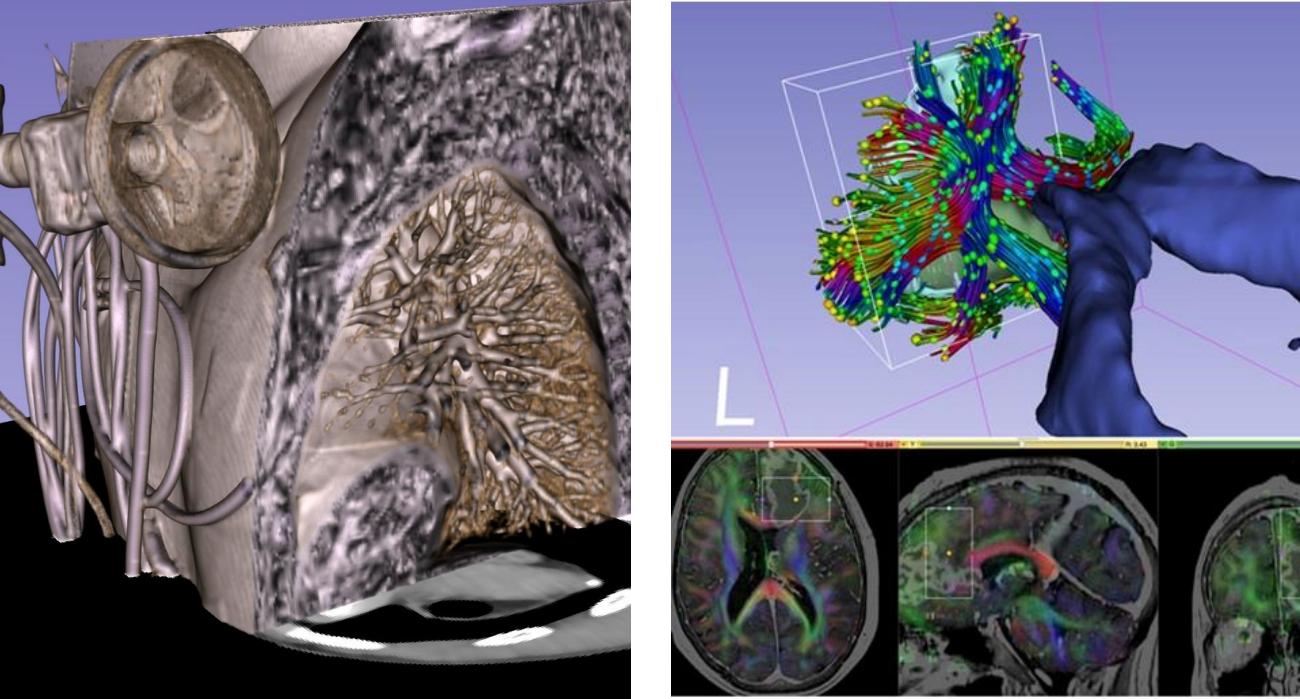
Study date Study ID Study description Series Date added
20081111 MRI BREAST, BILATERAL WITH T WITHOUT CONTRAST 3 2020...583

Series #	Series description	Modality	Size	Count	Date added
301	T2W_TSE SENSE	MR	528x528 64	2020...583	
401	STIR SENSE	MR	528x528 64	2020...221	
801	AX BLISS AUTO SENSE	MR	528x528 840	202...646	

DICOM Data Reader Warnings
301: T2W_TSE SENSE Scalar Volume
401: STIR SENSE Scalar Volume
801: AX BLISS_AUTO SENSE ... MultiVolume
801: AX BLISS_AUTO ... Scalar Volume Images are not equally spaced (a difference of 2 vs 0 in spacings ...
AX BLISS_AUTO SENSE ... MultiVolume

Uncheck All Examine Load Advanced



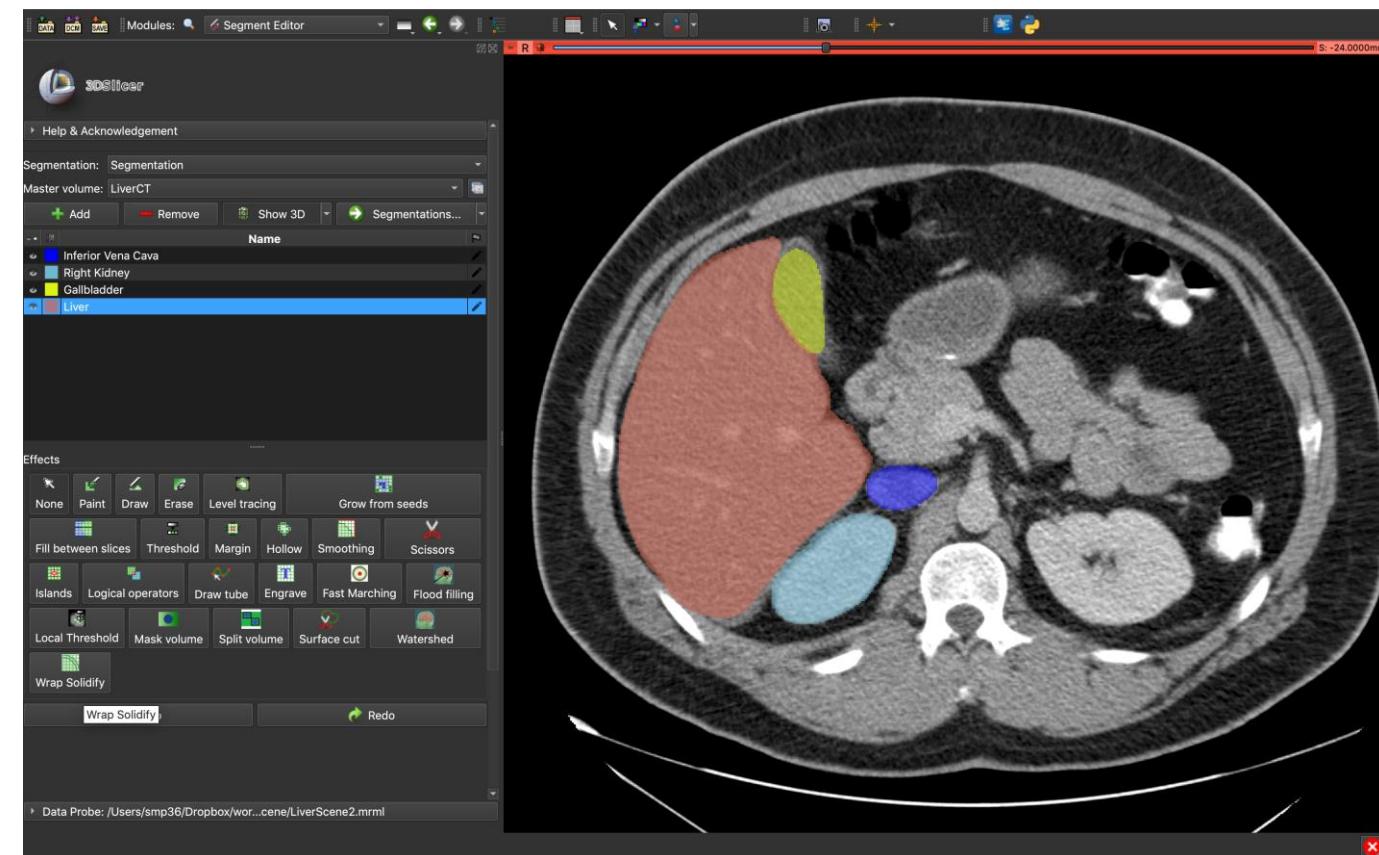


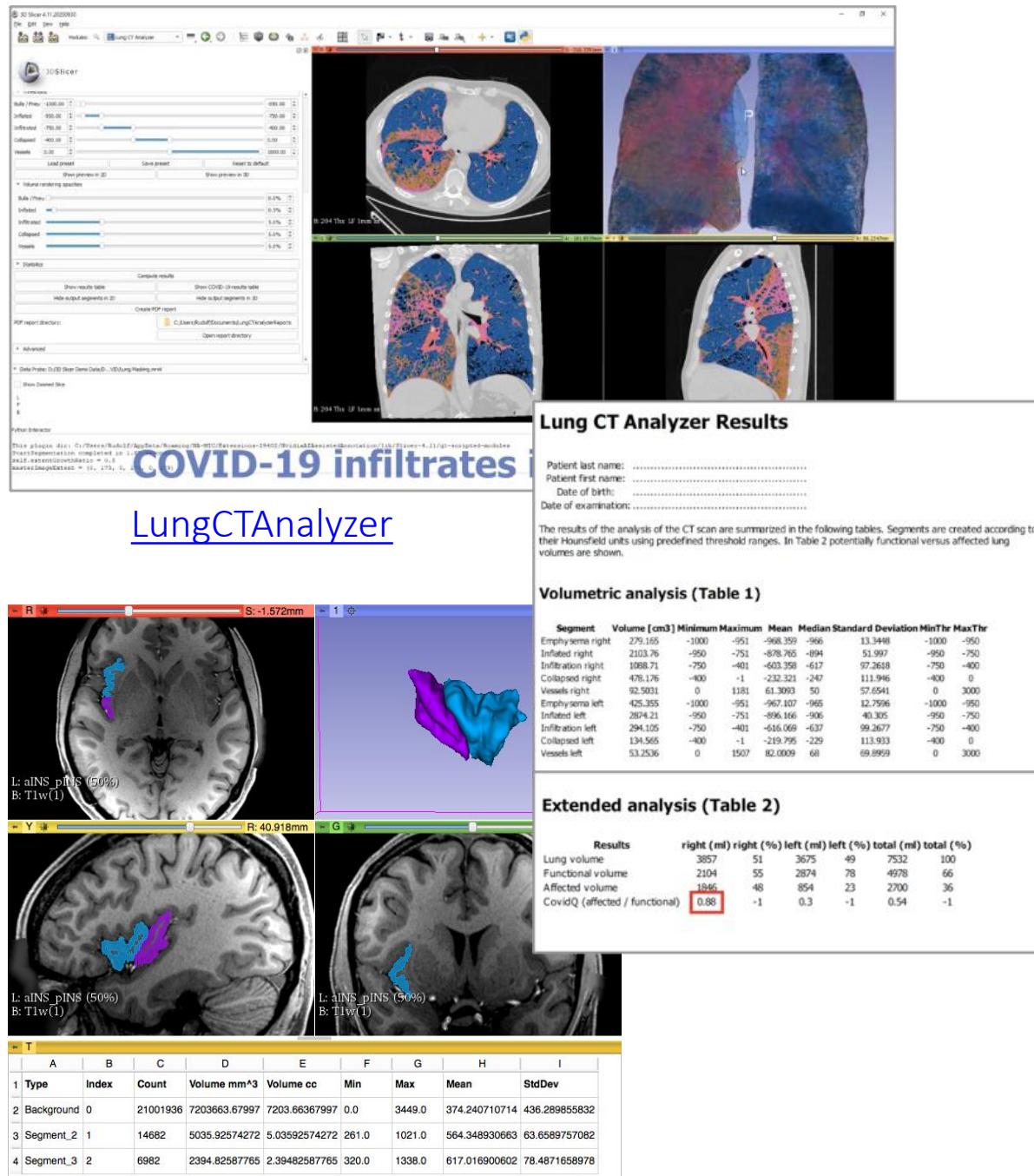
3D Visualization

Slicer proporciona herramientas avanzadas para la visualización interactiva 2D/3D/4D de datos de imágenes de resonancia magnética, tomografía computarizada, tomografía por emisión de positrones, ultrasonidos, medicina nuclear y microscopía.

Segmentación de imágenes

El módulo Editor de segmentos de 3D Slicer incluye numerosas herramientas para la segmentación interactiva manual, semiautomática y asistida por IA.



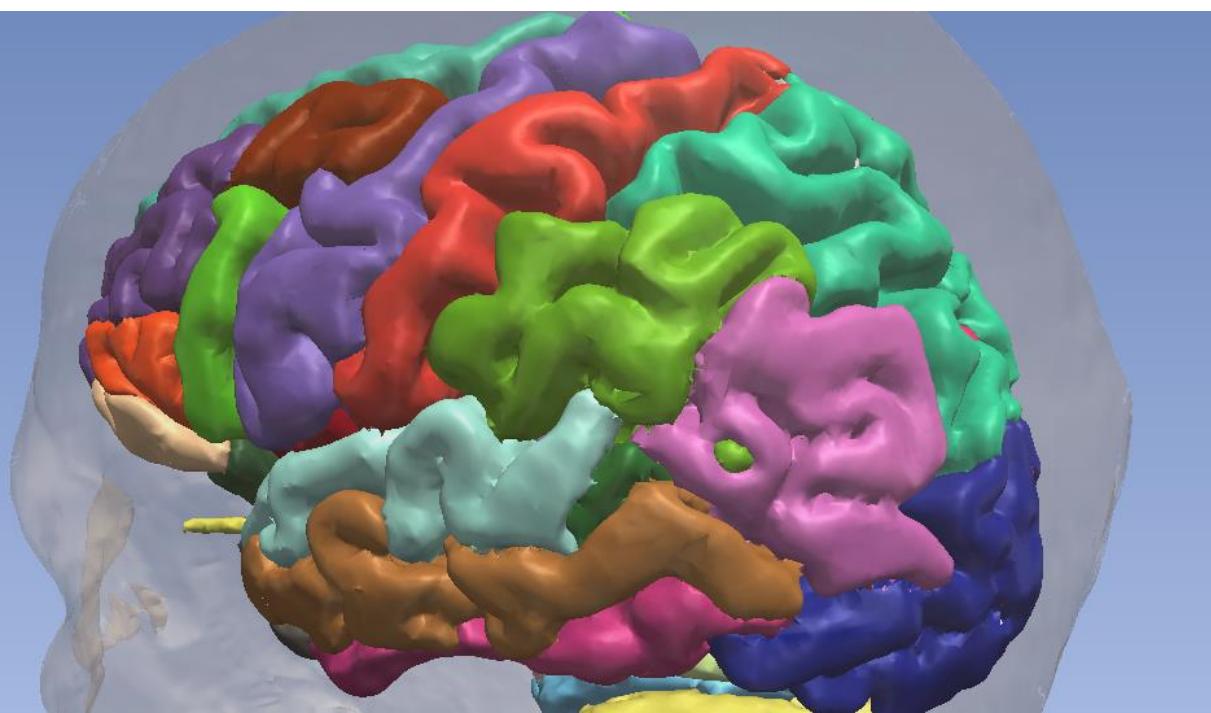
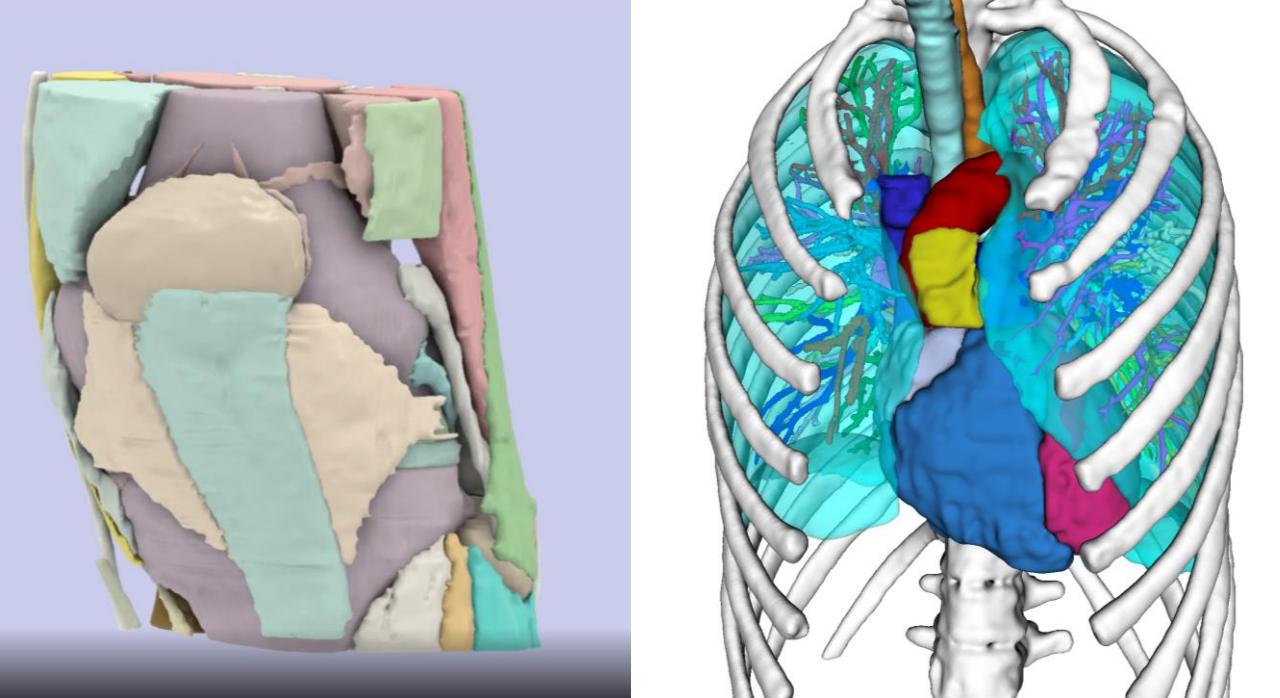


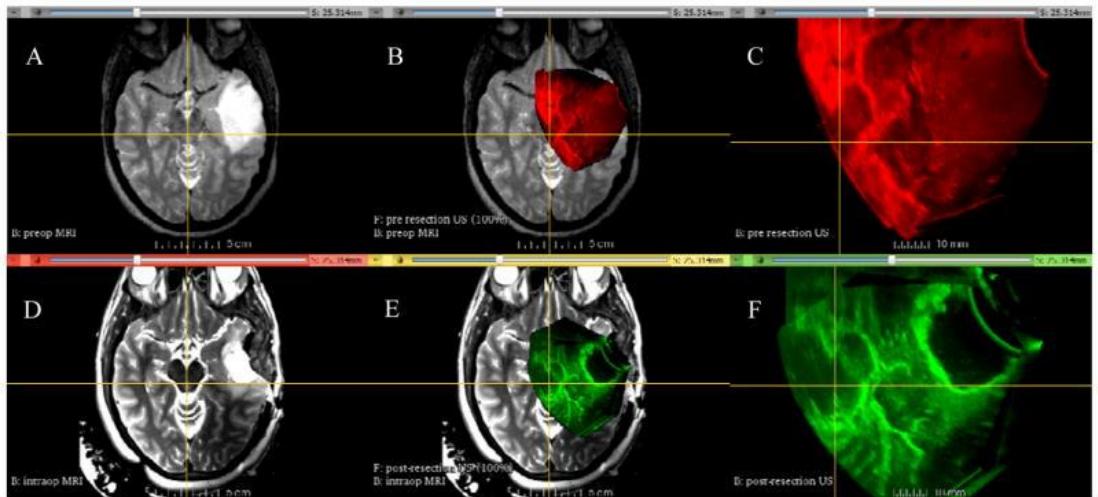
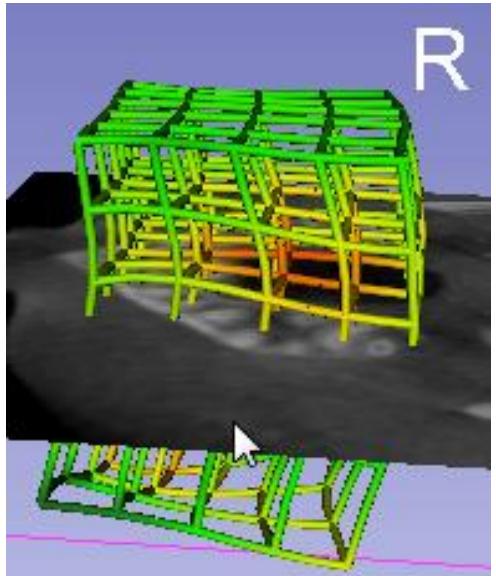
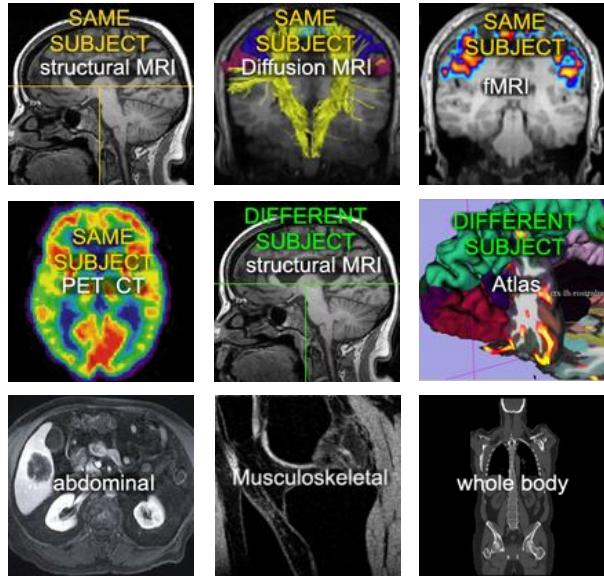
Análisis cuantitativo

3D Slicer incluye herramientas de análisis cuantitativo para medir diversos parámetros como el volumen de la lesión, su tamaño o la respuesta al tratamiento

Modelado 3D

Slicer implementa herramientas para generar modelos 3D a partir de imágenes segmentadas.





Co-registro de ultrasonido 3D rastreado y IRM durante la resección de glioma cerebral en la suite Advanced Multimodality Image Guided Operating (AMIGO), Brigham and Women's Hospital, Boston, MA.

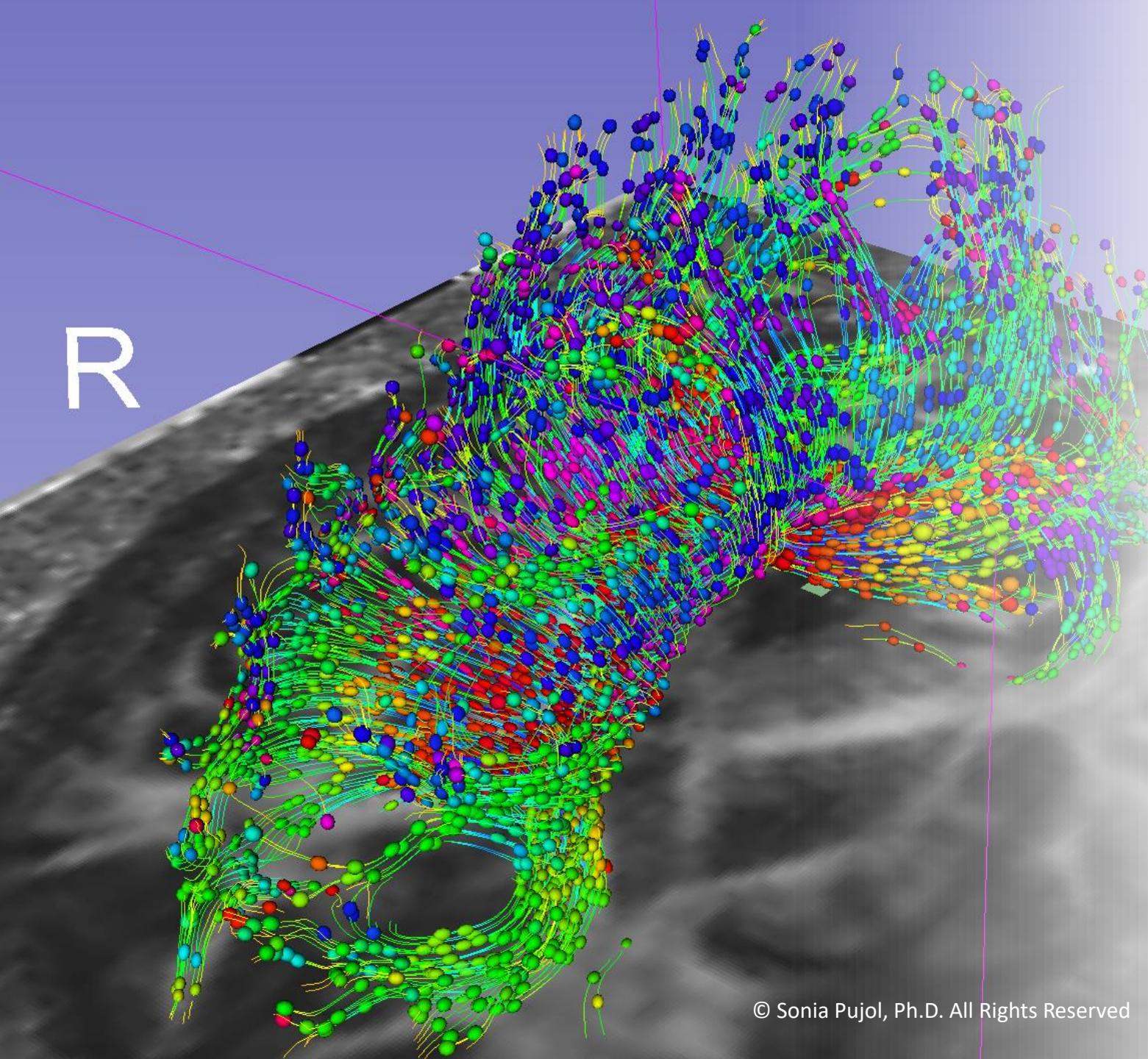
Registro de imágenes

3D Slicer proporciona una variedad de herramientas para el registro de datos de imágenes multimodales.

IRM de difusión

P

3D Slicer permite visualizar en 3D las vías de la sustancia blanca en el cerebro humano.



Inteligencia Artificial

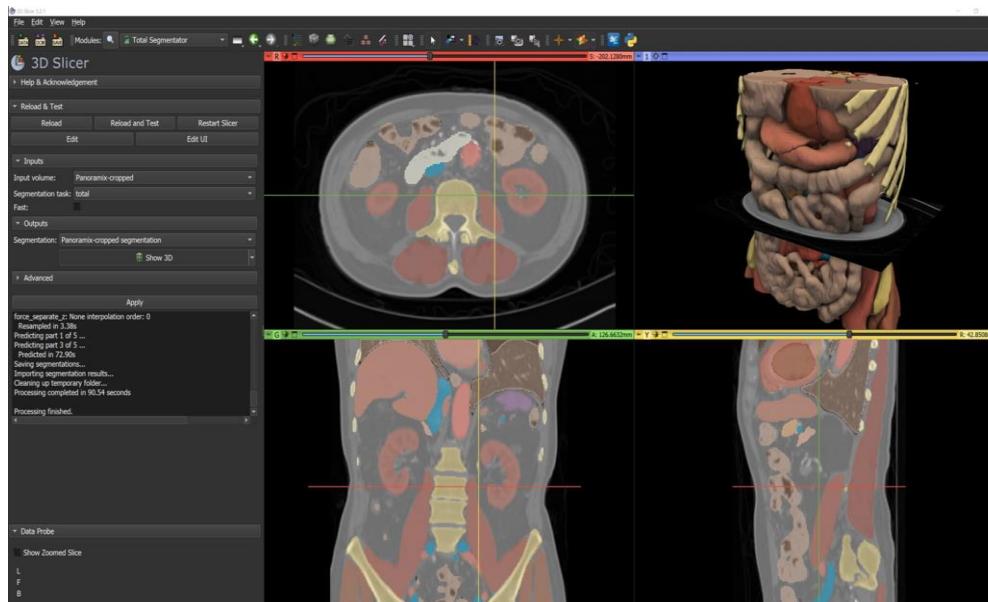
3D Slicer proporciona herramientas para la segmentación automatizada basada en IA

- La extensión MONAILabel de 3D Slicer permite a los radiólogos crear fácilmente conjuntos de datos de entrenamiento para la segmentación basada en IA

- La extensión de segmentación total de 3D Slicer permite la segmentación totalmente automatizada de TC de cuerpo entero en 1-2 minutos.



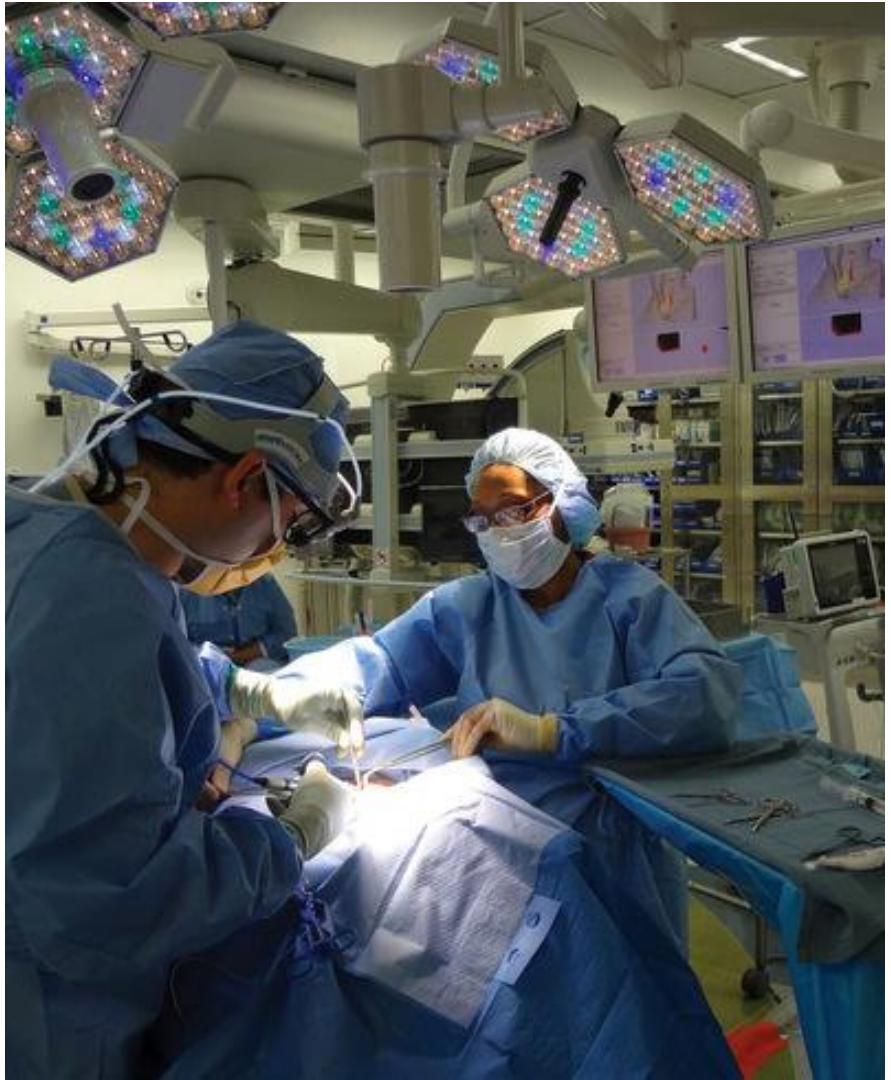
[MONAILabel Extension](#)



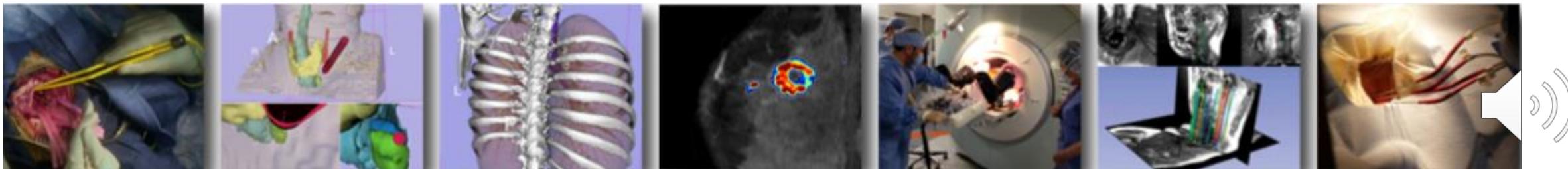
Terapia guiada por imágenes

3D Slicer se ha utilizado en investigación clínica, con protocolos clínicos de juntas de revisión institucional (IRB, por sus siglas en inglés) creados y gestionados adecuadamente.

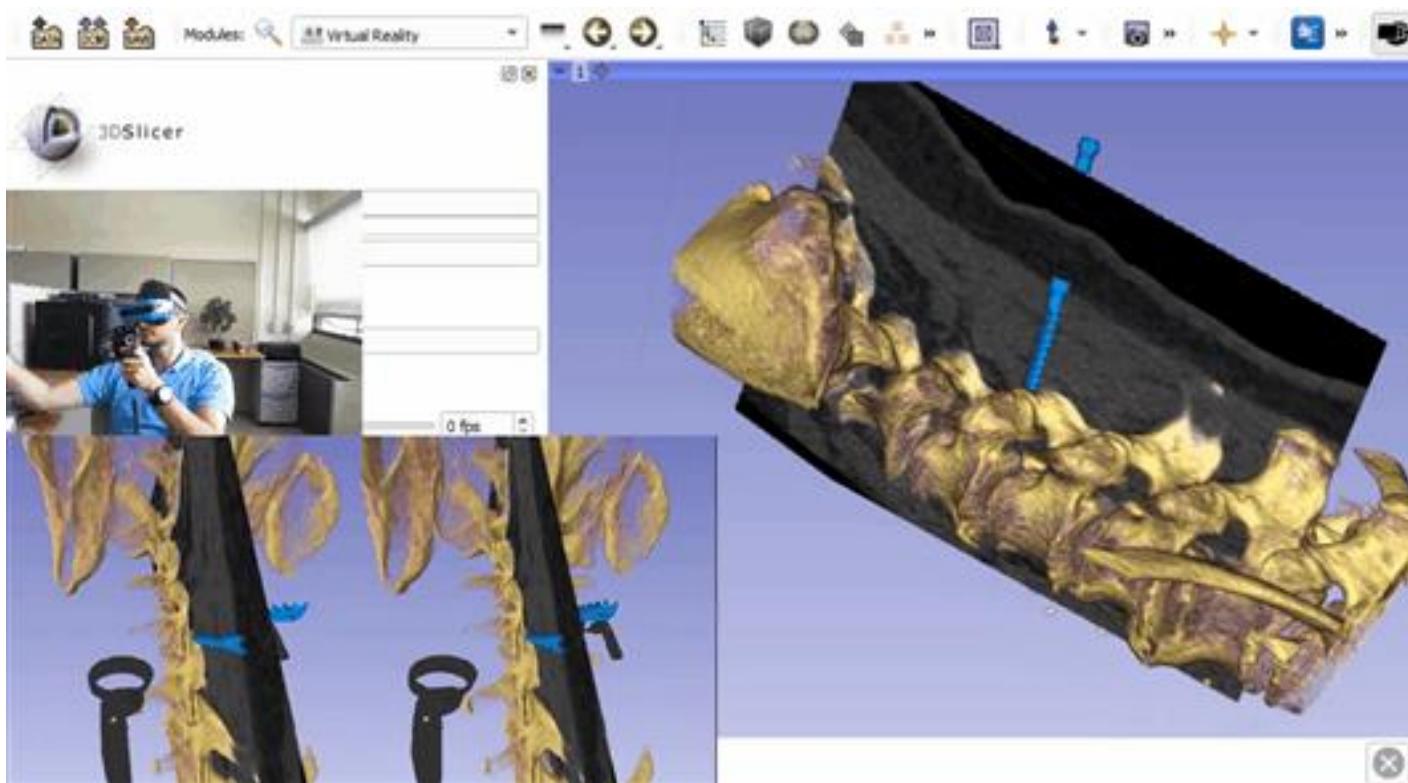
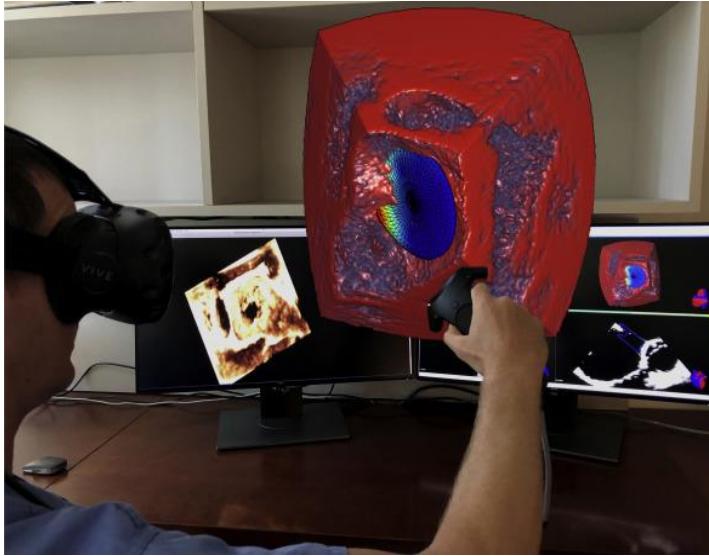
- La [extensión SlicerIGT](#) es para el desarrollo rápido de aplicaciones de terapia guiada por imágenes.
- La interfaz [OpenIGTLINK](#) es para conectar 3D Slicer con rastreadores, escáneres y robots quirúrgicos.



Los ojos de la operación. Nature 502, S88-89 (2013)



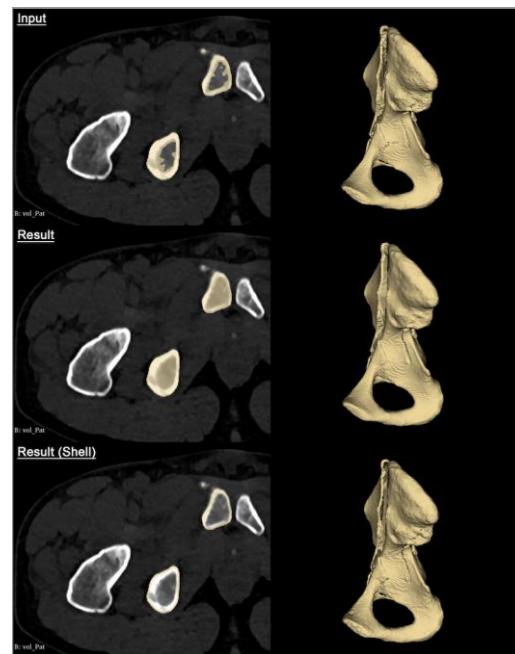
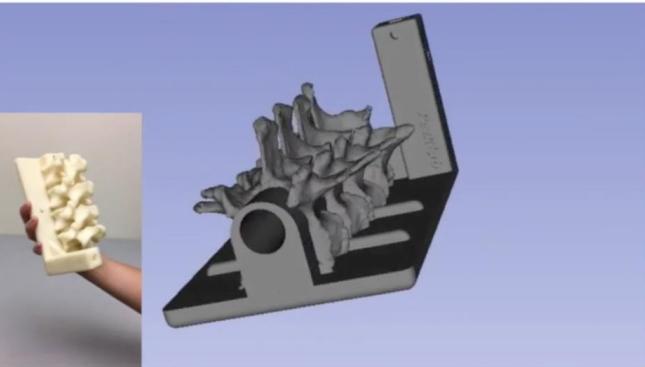
Realidad virtual y aumentada



3D Slicer puede conectarse a cascos de realidad virtual (HTC Vive, Oculus y HoloLens) para permitir la exploración interactiva de vistas 3D.

Impresión 3D

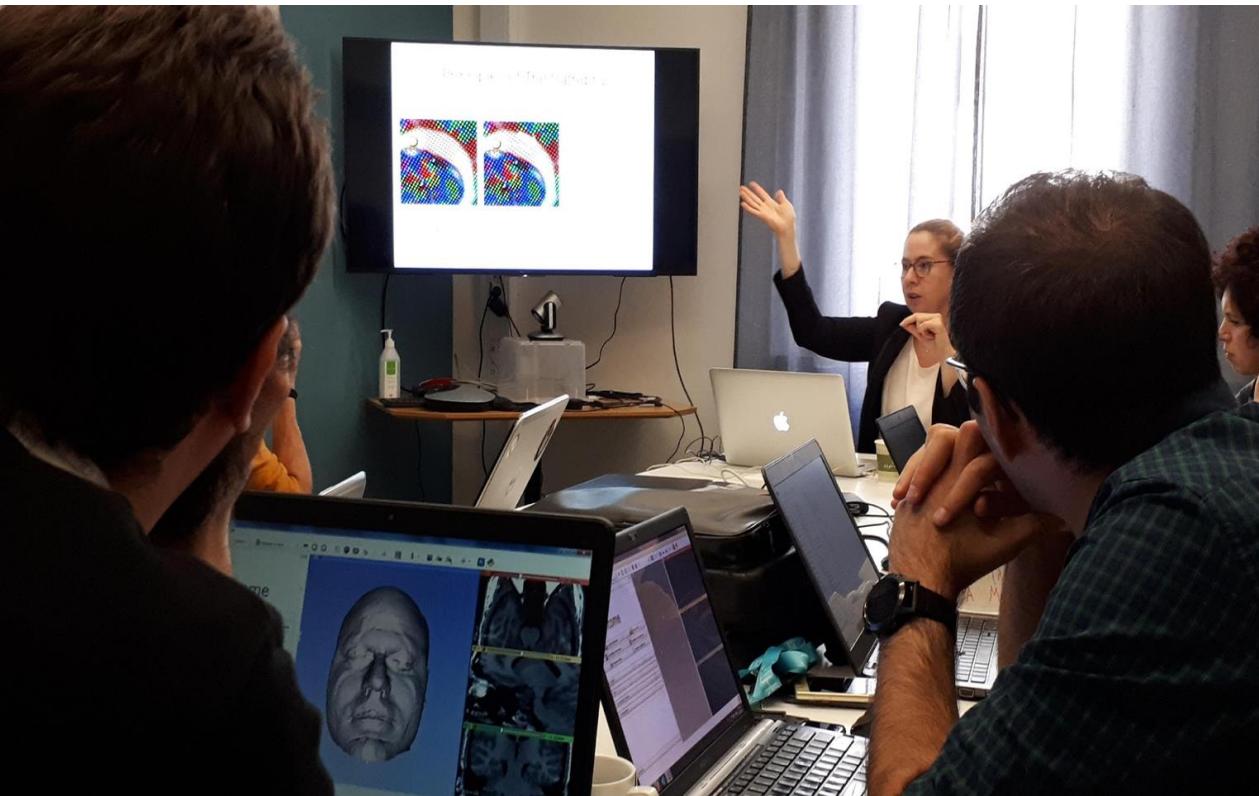
3D Slicer implementa funcionalidades avanzadas para la impresión 3D de modelos de superficie e imágenes de volumen renderizadas.



[SurfaceWrapSolidify](#)

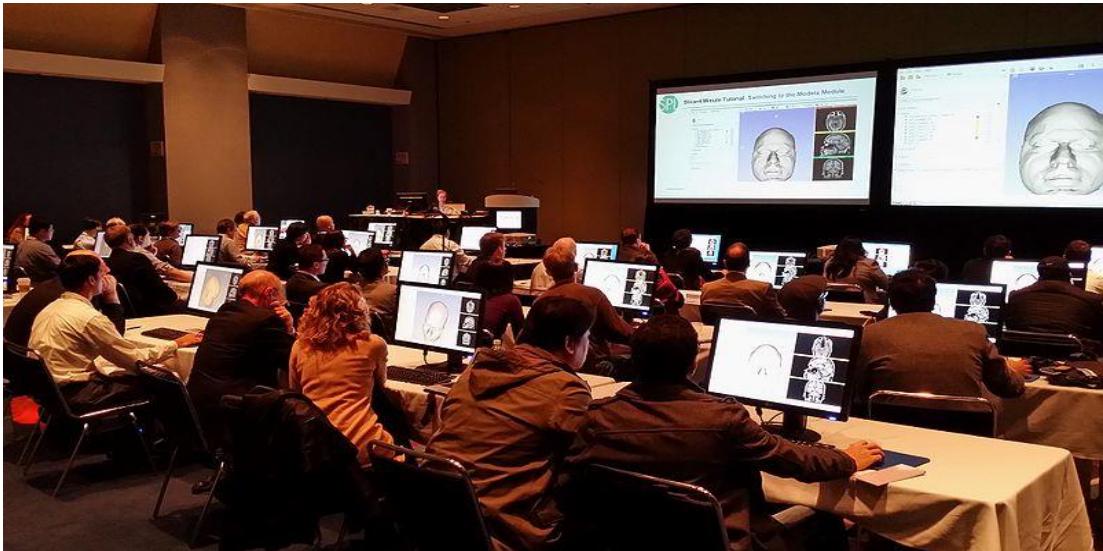
Formación y educación en 3D Slicer

Aprendizaje de 3D Slicer



Durante los últimos 19 años, los cursos y tutoriales de 3D Slicer han permitido a científicos, médicos y estudiantes aprender las funciones básicas y avanzadas de la plataforma.

Participantes de 3D Slicer



- Ingenieros biomédicos
- Médicos investigadores
- Científicos de alto nivel
- Becarios posdoctorales
- Programadores
- Estudiantes de licenciatura y de posgrado
- Personal investigador

Tutoriales de Slicer

[SkullStrippingTutorial](#)

View the Project on GitHub
[spujol/SkullStrippingTutorial](#)

Skull Stripping Tutorial

The Skull Stripping tutorial shows how to perform semi-automated skull stripping in CT and MRI data using 3D Slicer.

Authors

- Sonia Pujol, Ph.D., Assistant Professor of Radiology, Brigham and Women's Hospital, Harvard Medical School
- Andras Lasso, Ph.D., Associate Director, The Perk Lab, Queen's University, Canada
- Ron Nairns, MD, Professor of Radiology, Brigham and Women's Hospital, Harvard Medical School

SkullStripping in CT data



SkullStripping in MRI data



This project is maintained by [spujol](#)

Hosted on GitHub Pages — Theme by [orderedlist](#)

[SlicerProgrammingTutorial](#)

[View on GitHub](#)

The [Slicer Programming Tutorial](#) is an introduction to the Python Interactor and the Qt Widget toolkit in 3D Slicer.

Authors

- Sonia Pujol, Ph.D., Director of 3D Slicer Training & Education, Assistant Professor of Radiology, Brigham and Women's Hospital, Harvard Medical School
- Steve Pieper, Ph.D., 3D Slicer Chief Architect, Isomics Inc.

The tutorial includes a step-by-step guide and [a training dataset](#).

DICOM and Slicer: A Tutorial

Sonia Pujol, Ph.D.
Assistant Professor of Radiology
Director of 3D Slicer Training & Education
Brigham and Women's Hospital
Harvard Medical School
spujol@bwh.harvard.edu



DICOM

¿Qué es una imagen DICOM?

DICOM

¿Qué es una imagen DICOM?

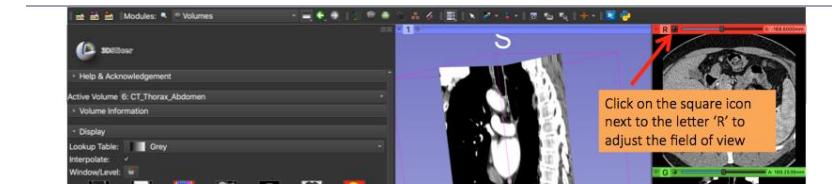
¿Cómo utilizar el módulo Slicer
DICOM?

DICOM

¿Qué es una imagen DICOM?

¿Cómo utilizar el módulo Slicer DICOM?

¿Cómo cargar y visualizar una imagen DICOM en Slicer?



Tutorial Outline

DICOM Part 1: Introduction to DICOM

Digital Imaging and Communications in Medicine

Sonia Pujol, Ph.D.
Assistant Professor of Radiology
Director of 3D Slicer Training & Education
Brigham and Women's Hospital
Harvard Medical School
spujol@bwh.harvard.edu

DICOM and Slicer:
A Tutorial



Reunión anual de la Sociedad Radiológica de Norteamérica (RSNA),
Chicago, IL, EUA.

Cartografía cerebral (principiantes)

¿Qué es una secuencia de IRM de difusión?

¿Qué es la tractografía?

¿Cómo se reconstruyen los circuitos de sustancia blanca en el cerebro humano?

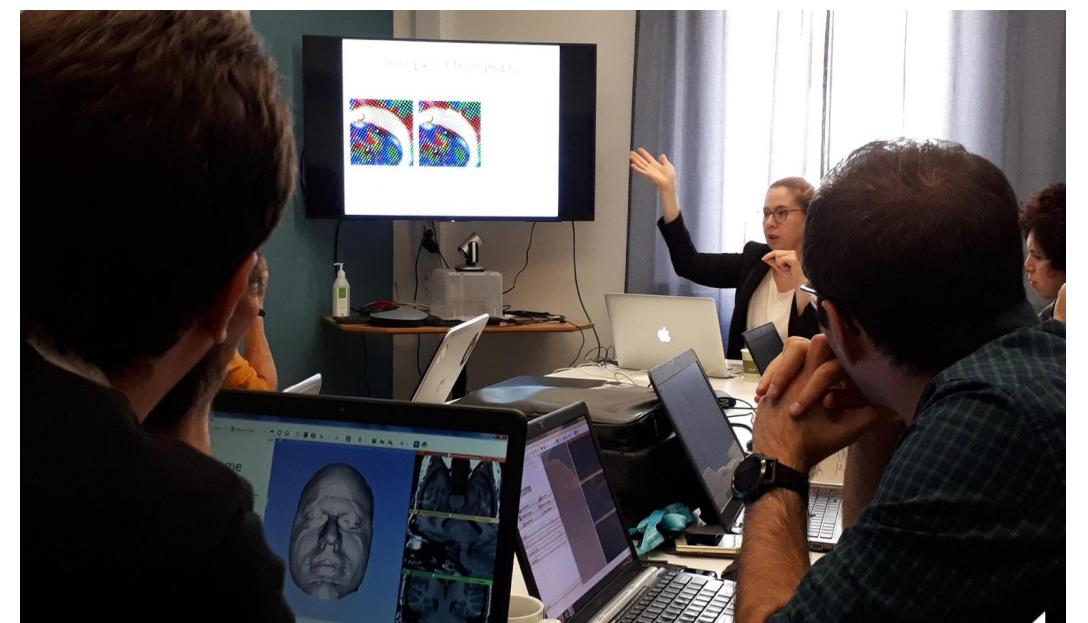


The Diffusion MRI tutorial is an introduction to the basics of diffusion MRI analysis in 3D Slicer. The tutorial guides users through the process of loading diffusion-weighted images, estimating a diffusion model and generating tractography reconstructions of white matter fibers.

Author: Sonia Pujol, Ph.D, Director of 3D Slicer Training & Education, Assistant Professor of Radiology, Brigham and Women's Hospital, Harvard Medical School

Materials:

- Software: Click on 3D Slicer version 4.10.2 to access the Slicer download page.
- Dataset: Click on Diffusion MRI Tutorial dataset to download the tutorial dataset.



Linköping, Suecia



Cartografía cerebral (avanzada)

¿Cómo utilizar la tractografía para visualizar los tractos cercanos a un tumor?

¿Cómo afecta el edema a la tractografía en la cirugía cerebral?



The Neurosurgical Planning tutorial shows how to generate white matter fiber tracts in the vicinity of a tumor.

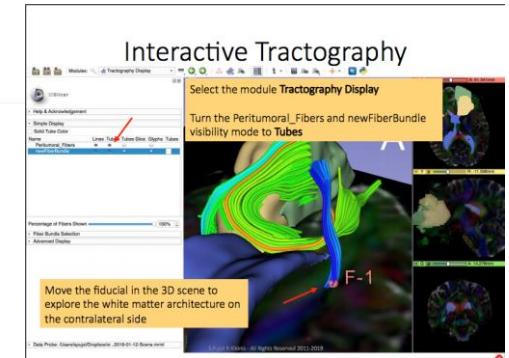
Authors

- Sonia Pujol, Ph.D, Assistant Professor of Radiology, Brigham and Women's Hospital, Harvard Medical School
- Ron Kikinis, MD, Professor of Radiology, Brigham and Women's Hospital, Harvard Medical School

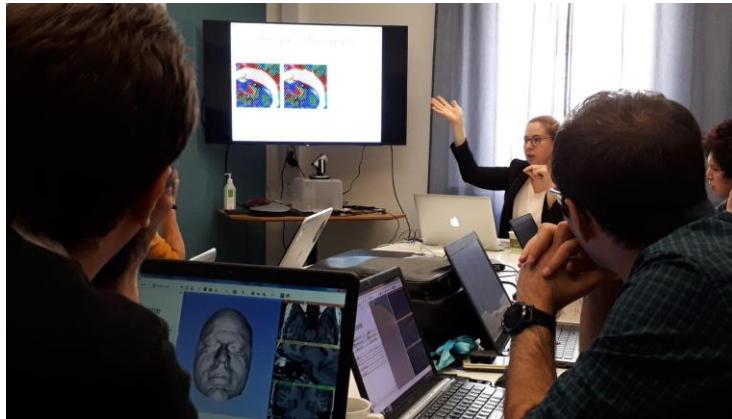
Materials

- Software: 3D Slicer release version 4.10
- Dataset: White Matter Exploration dataset

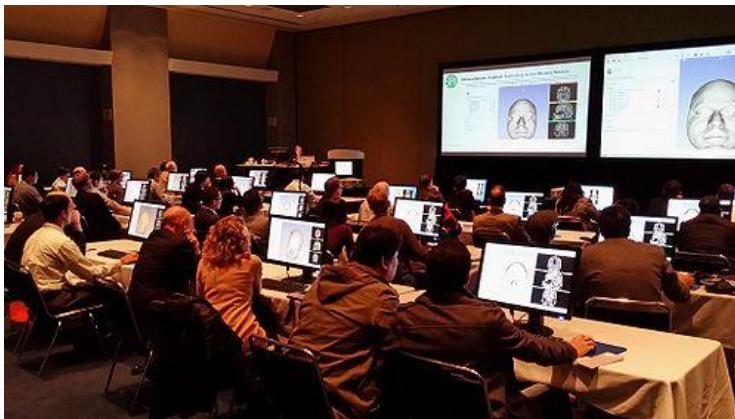
NeurosurgicalPlanningTutorial is maintained by [spujol](#).
This page was generated by GitHub Pages.



Ejército Popular de Liberación de Pekín
Hospital Militar de Pe... China



Linköping, Suecia



Chicago, IL, EUA



Hiroshima, Japón

Los tutoriales y talleres de formación de 3D Slicer permiten a médicos y científicos de todo el mundo aprender las bases de 3D Slicer.



Las Palmas, España



Kaohsiung, Taiwán

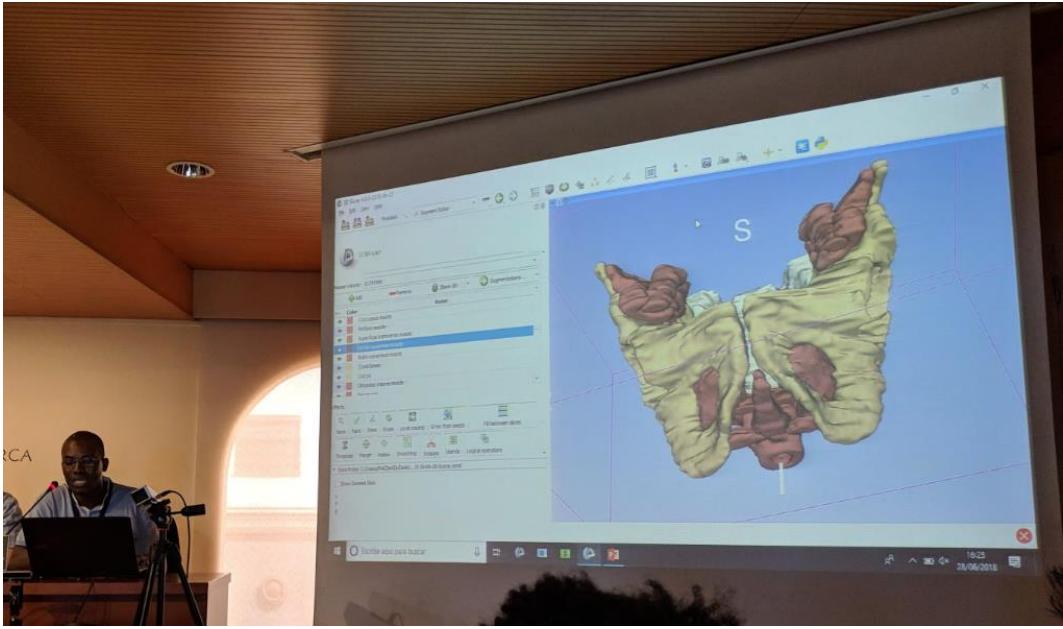


Changchun, China



Nouakchott, Mauritania

Internacionalización de 3D Slicer



En los últimos 7 años, la comunidad de 3D Slicer en África ha crecido gracias a las contribuciones de médicos, científicos y estudiantes de Senegal y Mauritania.

3D Slicer image computing platform



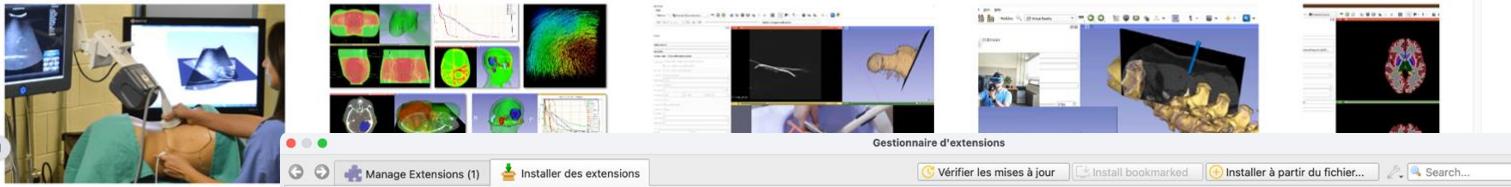
[Download](#) [Documentation](#) [Developers](#)
[Training](#) [Forum](#) [Twitter](#)

3D Slicer is a **free, open source** software for visualization, processing, segmentation, registration, and analysis of medical, biomedical, and other 3D images and meshes; and planning and navigating image-guided procedures.

What is 3D Slicer?

Desktop software to solve advanced image computing challenges with a focus on clinical and biomedical applications.
Development platform to quickly build and deploy custom solutions for research and commercial products, using free, open source software.
Community of knowledgeable users and developers working together to improve medical computing.

See 3D Slicer in action



Tracked ultrasound for needle guidance
Tracked ultrasound snapshots enhance needle guidance for percutaneous renal access. [video > learn more >](#)

Categories

- All (163)
- Active Learning (1)
- Analysis (1)
- Applications (1)
- Auto3dgm (1)
- BigImage (1)
- Cardiac (2)
- Chest Imaging Platform (2)
- Converters (1)
- DICOM (1)
- DSCI (1)
- Developer Tools (7)
- Diffusion (2)
- Diffusion.Tractography (1)
- Examples (1)

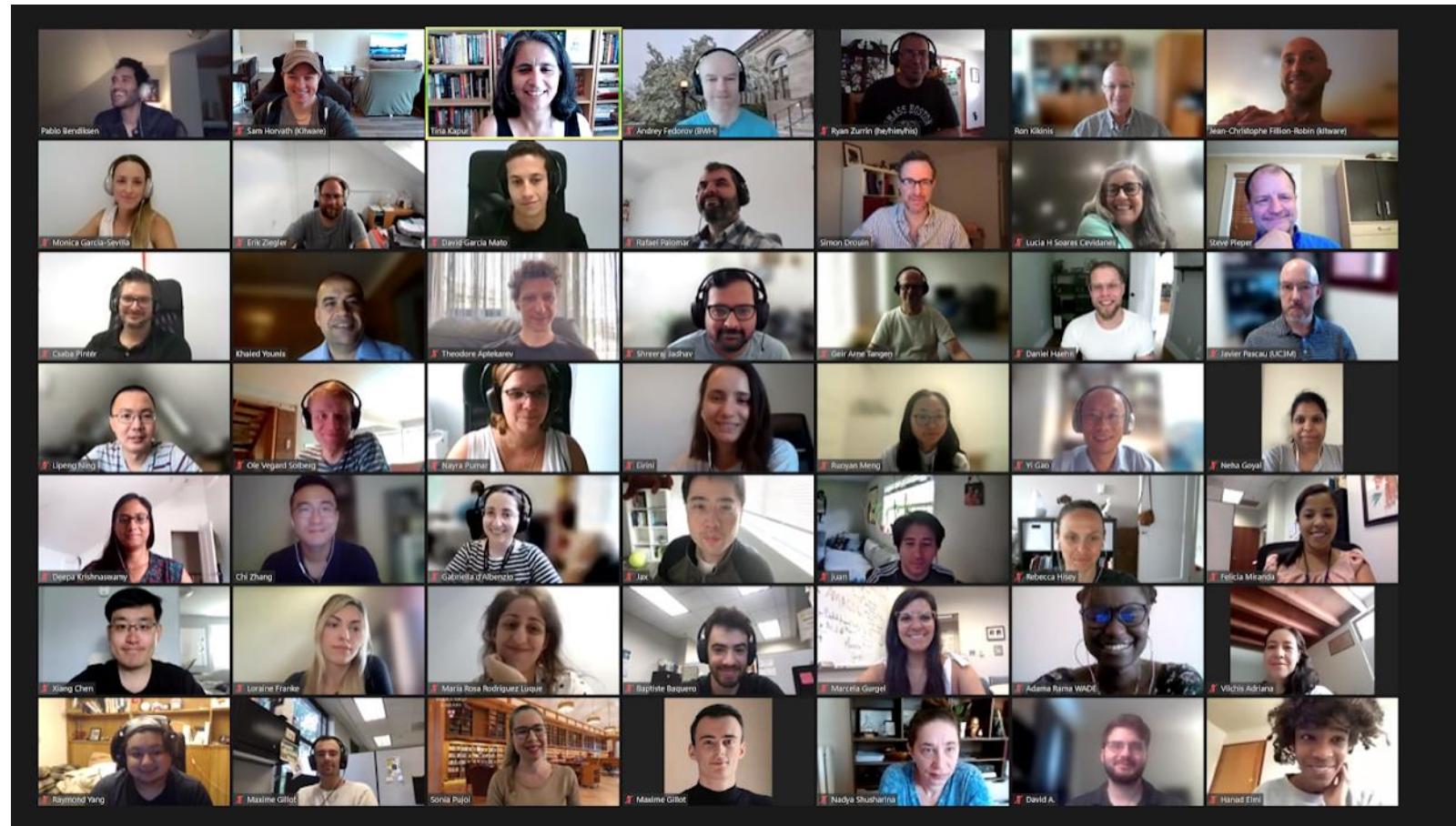
[Manage Extensions \(1\)](#) [Installer des extensions](#)

Ablation Planner BROWN Albert Medical School	AIRWAY SEGMENTATION	AnglePlanes	ANOMALOUS FILTERS
ABLTemporalBoneSegmen... Otolaryngology	AblationPlanner Quantification	AirwaySegmentation Segmentation	AnglePlanesExtension Shape Analysis
This extension enables the user to place virtual ablation profiles and evaluate a theoretical margin associated with these profiles.	Automated airway segmentation in chest CT images	This Module is used to calculate the angle between two planes by using the normals. The user gets the choice to use two planes which are al...	This extension aims to provide several approaches in order to apply the anomalous spatial filters on medical images. The methods provided he...
INSTALL	INSTALL	INSTALL	INSTALL
ArduinoController	ASTM	AUTO 3D GM	Autoscroll
Ardumine OPEN-SOURCE COMMUNITY	AstmPhantomTest	Auto3dam	Autoscroll
Close	Redémarrer		

3D Slicer permite difundir herramientas de vanguardia a través de 90 módulos básicos y 180 extensiones.

Sin embargo, la plataforma solo está disponible en inglés.





Chan Zuckerberg Initiative



Comunidad internacional de 3D Slicer
Proyecto de Slicer Semana 37, Verano 2022

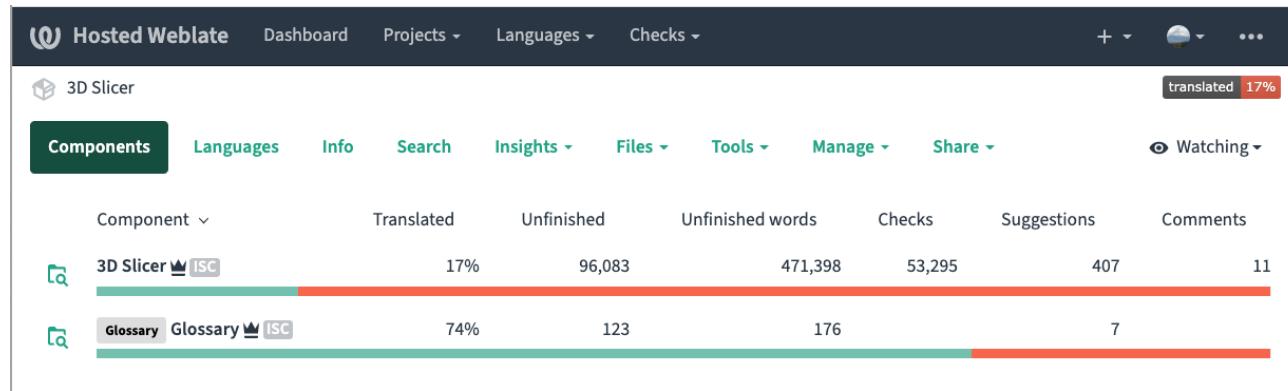
Gracias a la financiación de Chan Zuckerberg Initiative, hemos emprendido un proyecto de internacionalización de 3D Slicer.

El objetivo del proyecto es mejorar la accesibilidad de 3D Slicer en todo el mundo mediante la compatibilidad con varios idiomas en la interfaz de usuario.



Infraestructura de internacionalización de 3D Slicer

- Repositorio de traducciones en Weblate



- Extensión LanguagePacks en 3D Slicer

Contribution to this translation requires you to agree with a contributor agreement.

translated 15%

Languages	Info	Search	Insights	Files	Tools	Share	Comments
Language	Translated	Unfinished	Unfinished words	Unfinished characters	Untranslated	Checks	Suggestions
English 	✓				2,371		13
Afrikaans 	0%	4,785	30,747	207,168	2,324	1,936	
Arabic 	1%	4,768	30,715	206,947	4,722		
Arabic (Saudi Arabia) 	60%	1,878	9,827	66,963	619	741	
Bengali 	1%	4,774	30,736	207,102	4,738	1	
Catalan 	65%	1,630	9,774	66,322	1,214	73	
Chinese (Simplified) 	79%	990	8,595	57,413	648	41	
Chinese (Traditional) 	1%	4,707	30,488	205,607	2,274	1,893	
Czech 	14%	4,085	26,286	177,315	1,771	1,690	
Danish 	0%	4,785	30,747	207,168	2,324	1,936	
Dutch 	1%	4,783	30,712	206,861	2,305	1,935	
English (United States) 	0%	4,785	30,747	207,168	2,341	3	
Filipino 	1%	4,781	30,686	206,806	4,767		1
Finnish 	2%	4,650	30,388	204,938	2,329	1,832	
French 	76%	1,103	6,964	47,585	739	5	16
German 	6%	4,479	29,440	198,578	2,233	1,658	5
Greek 	0%	4,785	30,747	207,168	2,324	1,936	
Hebrew 	0%	4,785	30,755	207,168	4,785		
Hindi 	1%	4,784	30,744	207,154	4,762		
Hungarian 	20%	3,796	25,566	170,598	1,850	1,387	
Indonesian 	2%	4,659	30,328	204,532	4,426	6	
Italian 	8%	4,371	29,128	197,081	2,358	1,589	
Japanese 	44%	2,648	20,215	134,066	2,333	105	

<https://hosted.weblate.org/projects/3d-slicer/3d-slicer/>

El repositorio de traducción 3D Slicer en Weblate permite traducir el software a más de 40 idiomas





UNINSTALL

LanguagePacks

Utilities

Andras Lasso (PerkLab)

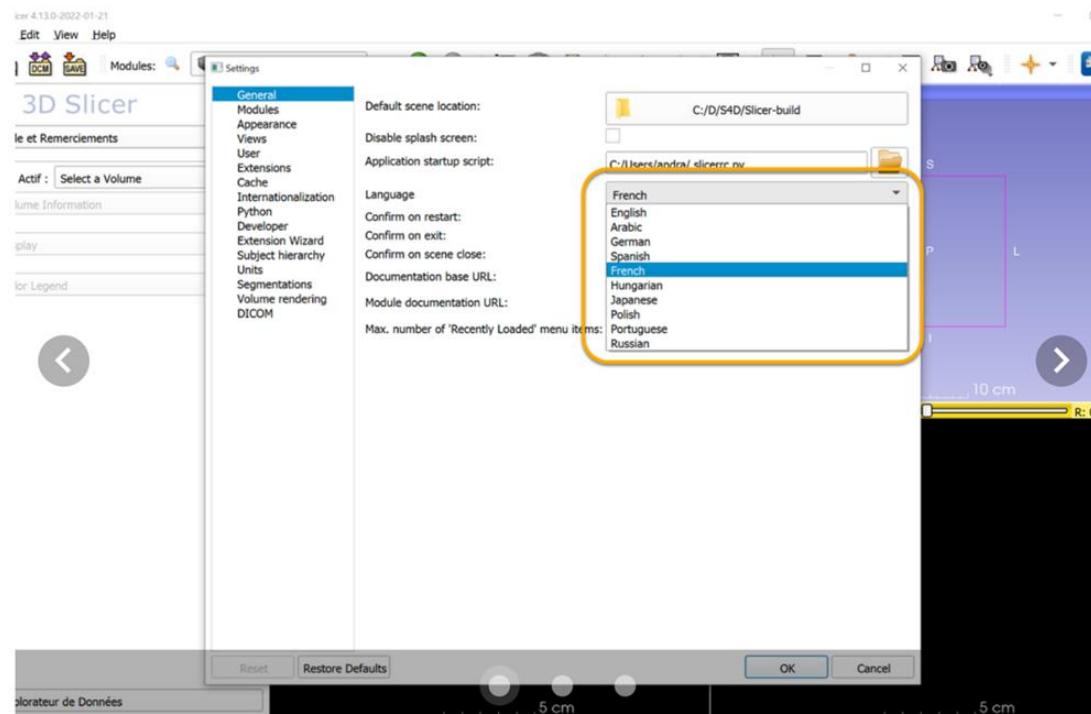
Published on Fri Apr 28 2023

Extension for deploying language packs and editing translations.

VIEW HOMEPAGE

VIEW SOURCE CODE

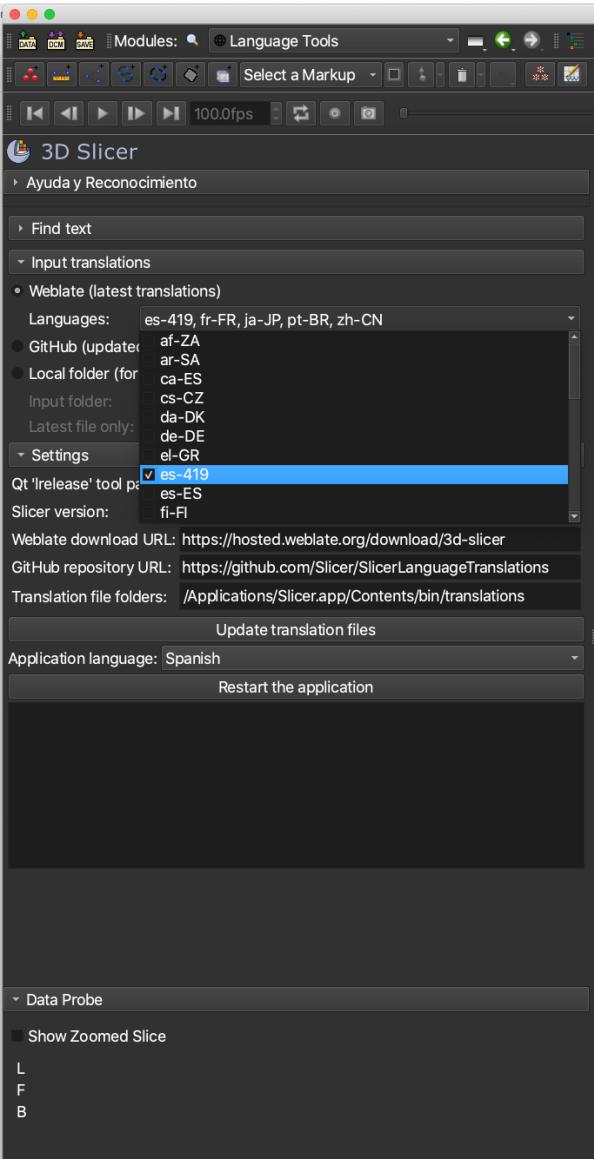
Screenshots



La extensión LanguagePacks permite desplegar y editar las traducciones de la interfaz de usuario de 3D Slicer.

<https://github.com/Slicer/SlicerLanguagePacks>



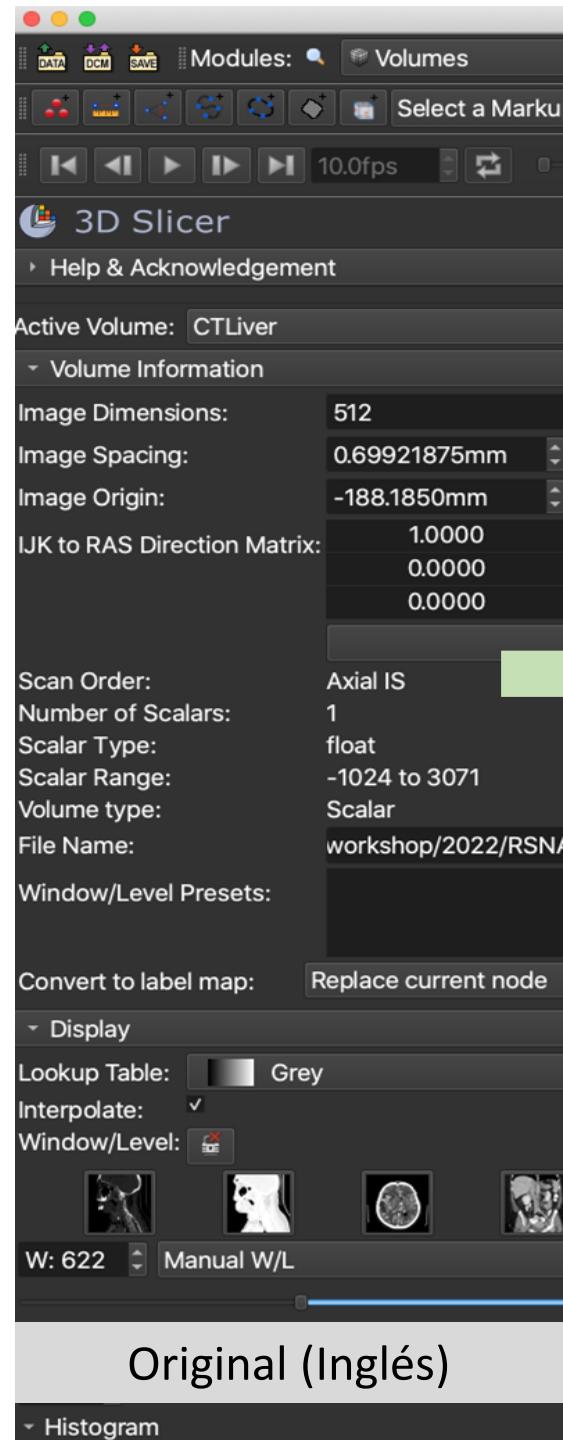


Tras instalar la extensión LanguagePacks, los usuarios podrán elegir su idioma preferido en el módulo de Herramientas lingüísticas.

El módulo carga automáticamente las cadenas traducidas de Slicer Weblate en 3D Slicer

A screenshot of the Hosted Weblate interface for the 3D Slicer project. The top navigation bar shows the project name "3D Slicer / 3D Slice" and the language "Spanish (Latin America)" with a progress bar indicating "translated 4%". Below this, there are tabs for "Overview" (which is active), "Info", "Tools", "Manage", and "Share". The "Overview" section displays "Translation status" with 2,652 strings (4%) and 12,839 words (2%) translated. The "Strings status" table provides detailed breakdowns of string types: All strings (2,652), Read-only strings (4), Translated strings (275), Unfinished strings (2,526), Strings marked for edit (2,526), and Unfinished strings without suggestions (2,526). There are also sections for failing checks like "Double space" and "Mismatched full stop". On the right side, there are "Browse", "Translate", and "Zen" buttons for each row in the table.





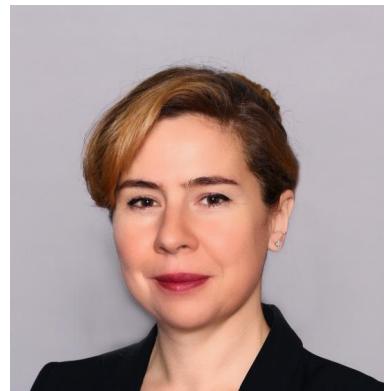
La interfaz de usuario de 3D Slicer se muestra en el idioma elegido tras reiniciar la aplicación.

Original (Inglés)

Francés



Equipo de infraestructura de internacionalización de 3D Slicer



Investigadora principal, Dra.
Sonia Pujol
Brigham and Women's Hospital
Harvard Medical School, Boston



Dr. Mamadou Camara
Ecole Supérieure Polytechnique
Université Cheikh Anta Diop de Dakar



Dr. Steve Pieper
Brigham & Women's Hospital
Isomics Inc.



Dr. Andras Lasso
Queen's University



Dr. Mouhamed Diop
Ecole Supérieure
Polytechnique
Université Cheikh Anta
Diop de Dakar



Mohamed Alalli Bilal
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Diop de Dakar



Idrissa Seck
Ecole Supérieure
Polytechnique
Université Cheikh
Anta Diop de Dakar



Papa Ibra Ndiaye
Ecole Supérieure
Polytechnique
Université Cheikh Anta
Diop de Dakar



Fatou Bintou Ndiaye
Ecole Supérieure
Polytechnique
Université Cheikh Anta
Diop de Dakar

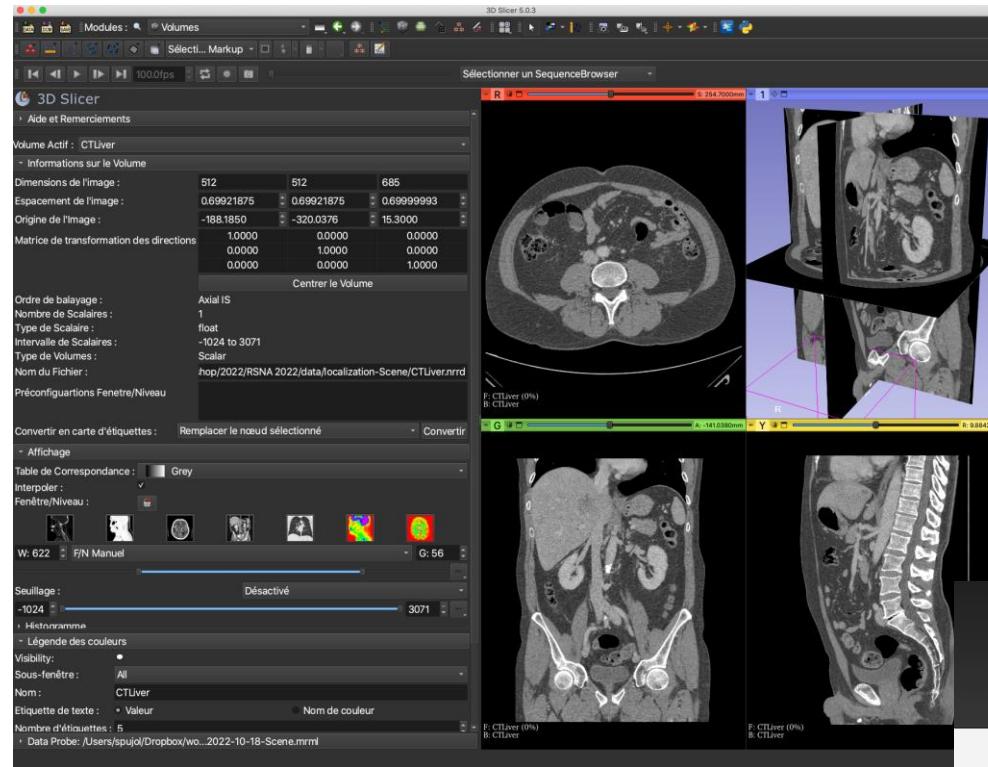


Papa Malick Gueye
Université Cheikh Anta
Diop de Dakar



Adama Wade
Ecole Supérieure
Polytechnique
Université Cheikh Anta
Diop de Dakar





3D Slicer

Search docs

About 3D Slicer

Getting Started

- System requirements
- Installing 3D Slicer
- Using Slicer
- Glossary

Get Help

User Interface

Data Loading and Saving

Read the Docs v: latest

Getting Started

Welcome to the 3D Slicer community. This page contains information that you need to get started with 3D Slicer, including how to install and use basic features and where to find more information.

Démarrer avec 3D Slicer

Docs Démarrer avec 3D Slicer

The Basics of Data Loading and Visualization tutorial shows how to load and visualize DICOM images and 3D models in 3D Slicer.

A French version of the tutorial has been developed through the 3D Slicer internationalization project funded by the Chan Zuckerberg Initiative.

Author: Sonia Pujol, Ph.D, Director of 3D Slicer Training & Education, Assistant Professor of Radiology, Brigham and Women's Hospital, Harvard Medical School

Materials:

- Software: Click on 3D Slicer version 4.11 to access the Slicer download page.
- Dataset: Click on 3D Visualization dataset to download the tutorial dataset.

Démarrer avec 3D Slicer

3D Slicer runs that was released may work depending on your system.

Slicer can also run in containers. For example, you can run it in a web browser.

Configurations requises

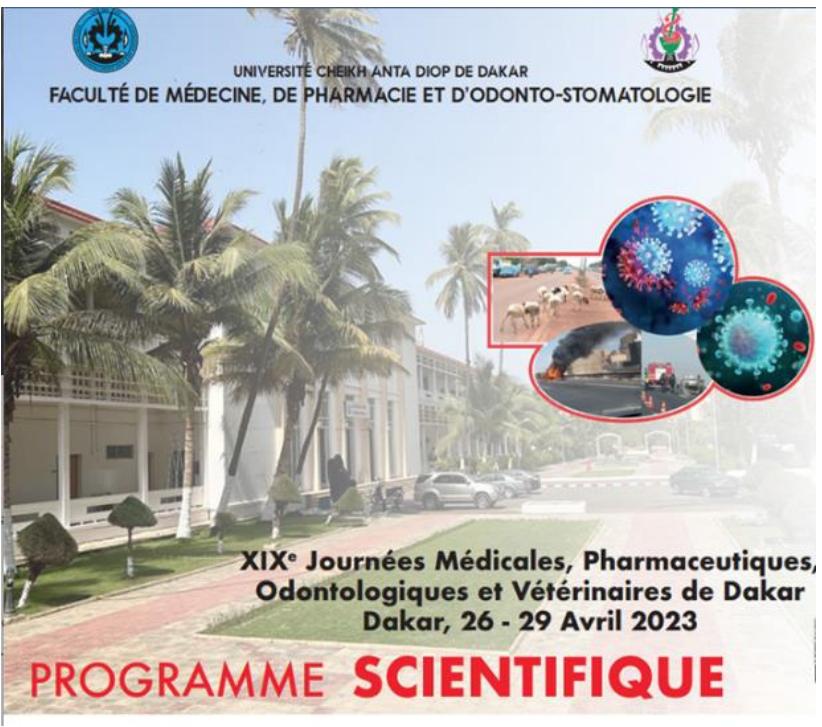
3D Slicer fonctionne sur tout ordinateur Windows, Mac ou Linux sorti au cours des cinq dernières années. Les ordinateurs plus anciens peuvent également le supporter (dépend principalement des capacités graphiques).

Slicer peut également fonctionner sur des machines virtuelles et des conteneurs docker. Par exemple, 3D Slicer + Jupyter Notebook dans un navigateur web.



El proyecto de internacionalización de 3D Slicer incluye la traducción al francés de la interfaz de usuario, la documentación y los tutoriales.





PROGRAMME SCIENTIFIQUE

XIX Journées Médicales Pharmaceutiques Odontologiques et Vétérinaires de Dakar
JMD 2023, 26-29 Avril, 2023
Dakar, Sénégal

La plateforme 3D Slicer pour l'analyse et la visualisation 3D d'images biomédicales

Mamadou Samba Camara, Ph.D.

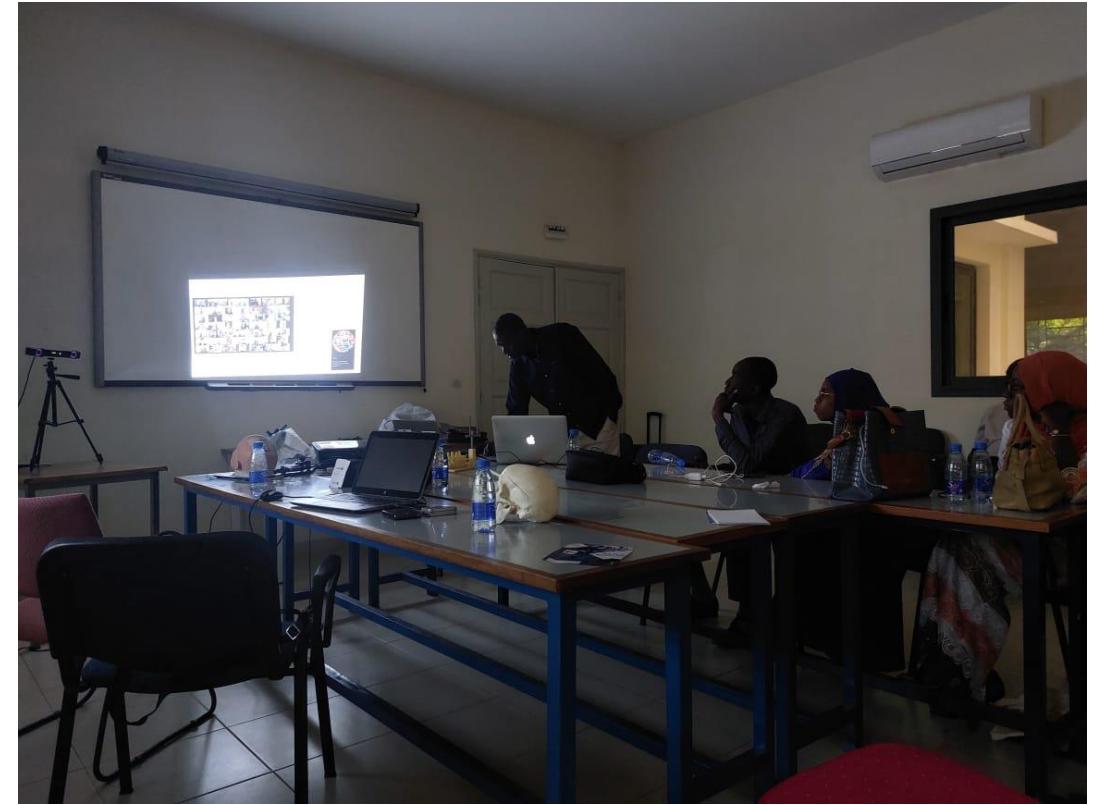


Professeur Assimilé
Département Génie Informatique
Ecole Supérieure Polytechnique
Université Cheikh Anta Diop
Dakar, Senegal
mamadou.camara@ucad.edu.sn



Sonia Pujol, Ph.D.

Director of 3D Slicer Training & Internationalization
Assistant Professor of Radiology
Surgical Planning Laboratory
Brigham and Women's, Harvard Medical School
Boston, MA, USA
spujol@bwh.harvard.edu



Primer taller de 3D Slicer en francés en la 19^a edición de las Jornadas Médicas de Dakar, en la Universidad Cheikh Anta Diop de Dakar (Senegal).

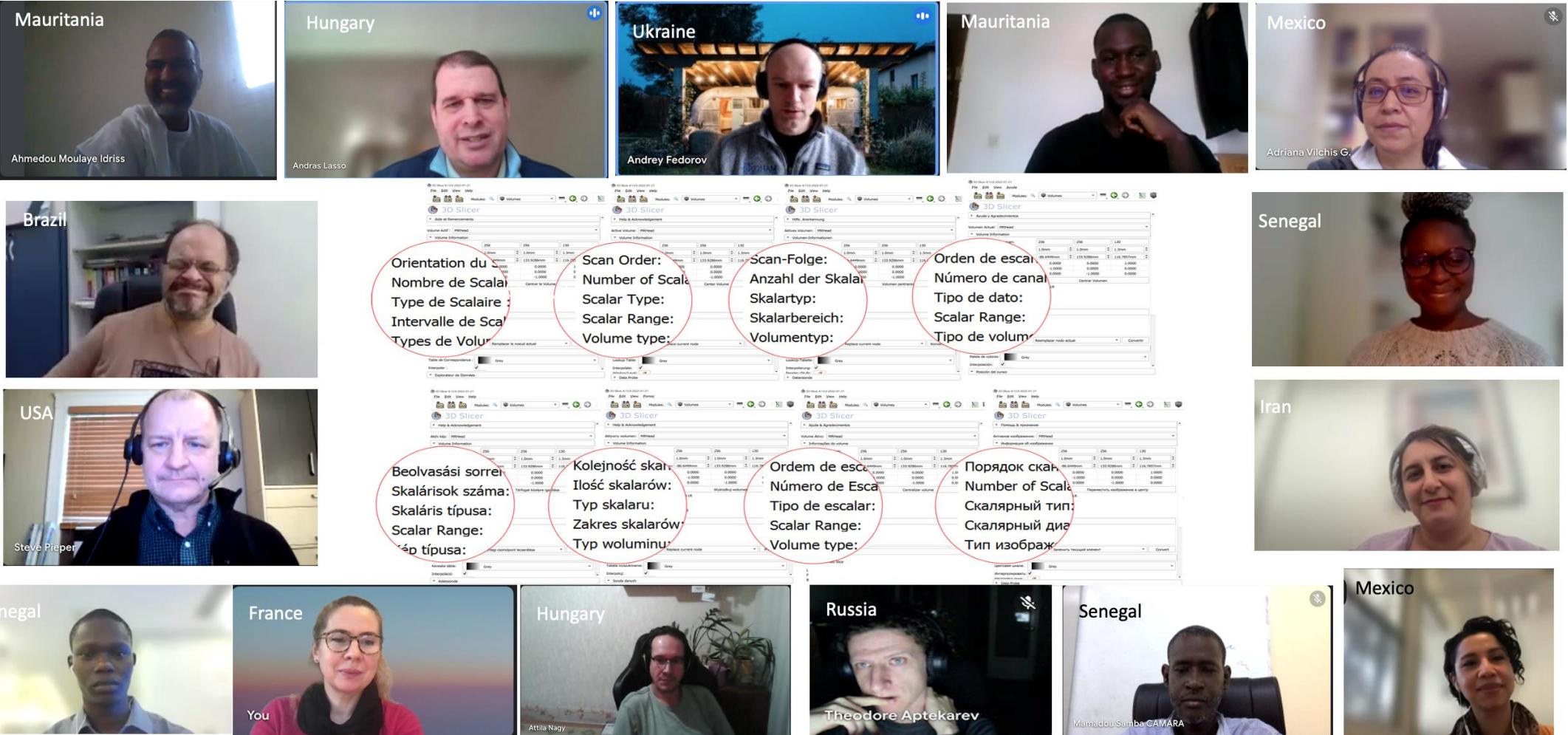


3D SLICER WORKSHOP

DAKAR - SÉNÉGAL

10 juillet 2023

[S'inscrire](#)



- El proyecto de internacionalización de 3D Slicer fomenta el compromiso de la comunidad global y el trabajo en equipo interdisciplinar, como ilustran las sesiones diarias de internacionalización de Slicer que organizamos en Slicer PW36, PW37, PW38 y PW39.
- Las sesiones reunieron a investigadores de 4 continentes.



3D Slicer para América Latina

Chan
Zuckerberg
Initiative 



Comunidad 3D Slicer en Brasil y México



Dra. Adriana Vilchis Gonzalez
Universidad Autónoma del Estado de México
Tolúca, México



Universidad Autónoma
del Estado de México



Dr. Luiz Murta
Universidade de São Paulo
Ribeirão Preto, Brasil



3D Slicer para América Latina

- Traducir la interfaz de usuario, la documentación y los tutoriales de 3D Slicer al español y al portugués
- Implementar una nueva infraestructura de software para facilitar la ubicación de los tutoriales de 3D Slicer.



◀ ◀ 1/15 ▶ ▶

Custom search ▾ AddScalarVolumes

Position and priority ▾ ⚡

Translation

English

Add Scalar Volumes

Key CLI_AddScalarVolumes



Spanish (Latin America)

Añadir volúmenes escalares

◀ ▶ NBS ... « » “ ” - - -

 Needs editing ⓘ

26/180 · 18

Save and continue

Save and stay

Suggest

Skip

Nearby strings 30

Comments

Automatic suggestions

Other languages 42

History

Glossary

English Spanish (Latin America)

No related strings found in the glossary.

+ Add term to glossary

String information

Screenshot context

No screenshot currently associated.

+ Add screenshot

Explanation

No explanation currently provided.

◀ ◀ 1/15 ▶ ▶

Custom search ▾ AddScalarVolumes

Position and priority ▾ ⚡

Translation

English

Add Scalar Volumes

Key CLI_AddScalarVolumes



Portuguese (Brazil)

Adicionar imagens escalares

◀ ▶ NBS ... “ ” - - -

 Needs editing ⓘ

27/180 · 18

Save and continue

Save and stay

Suggest

Skip

Nearby strings 30

Comments

Automatic suggestions

Other languages 42

History

Glossary

English Portuguese (Brazil)

No related strings found in the glossary.

+ Add term to glossary

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Screenshot context

No screenshot currently associated.

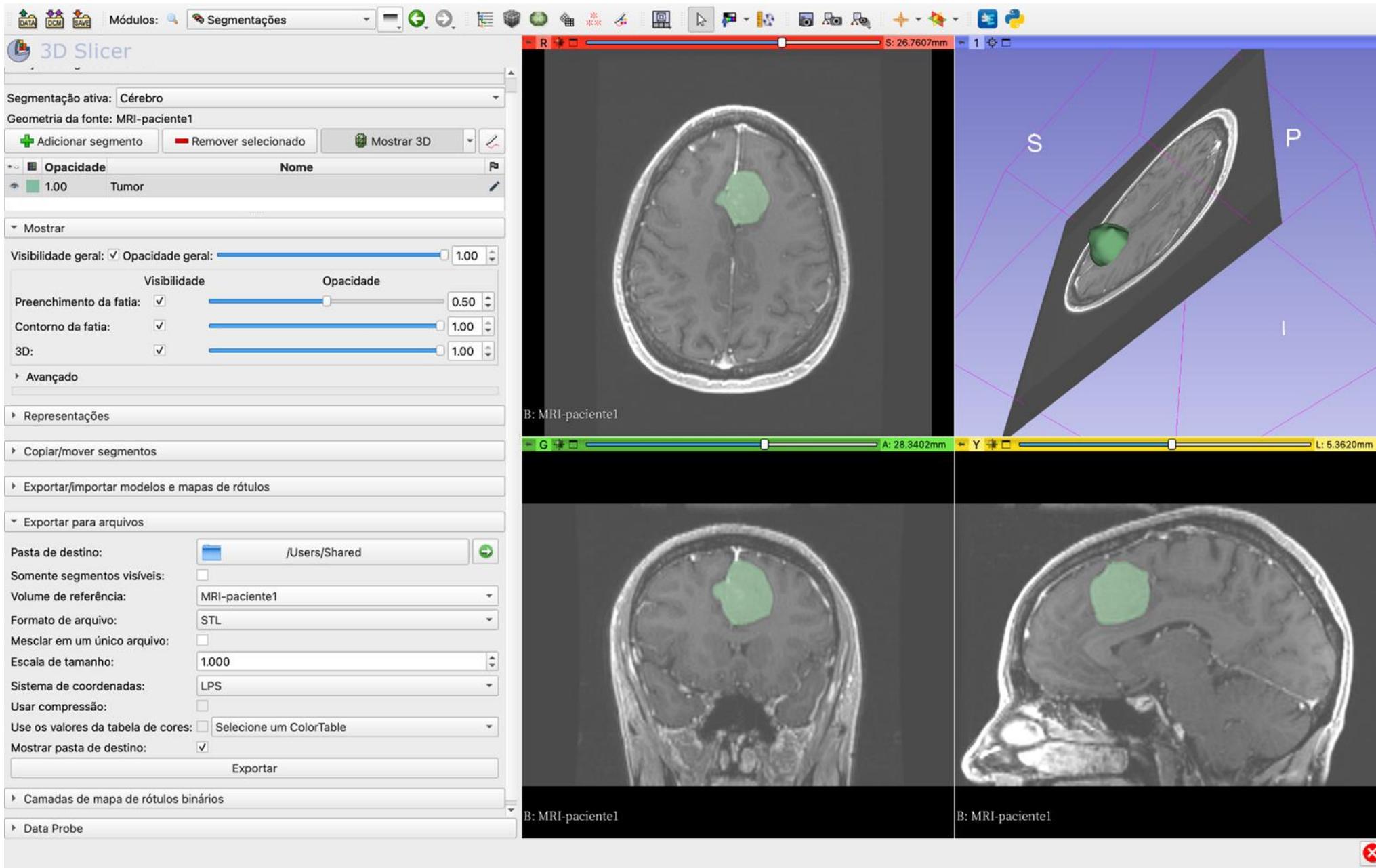
+ Add screenshot

Explanation

No explanation currently provided.

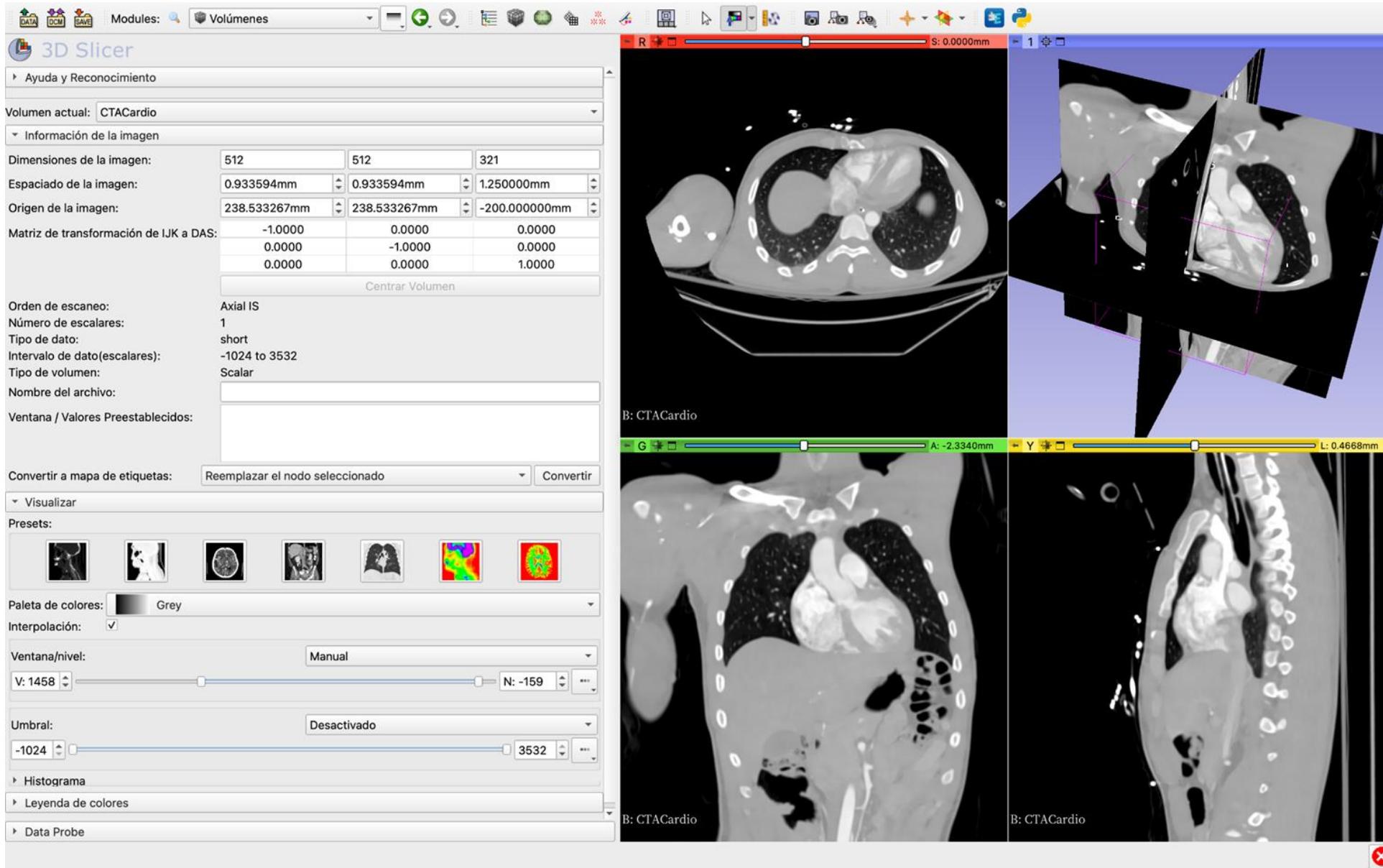
Repositorio de traducciones de 3D Slicer en español latinoamericano y portugués brasileño.





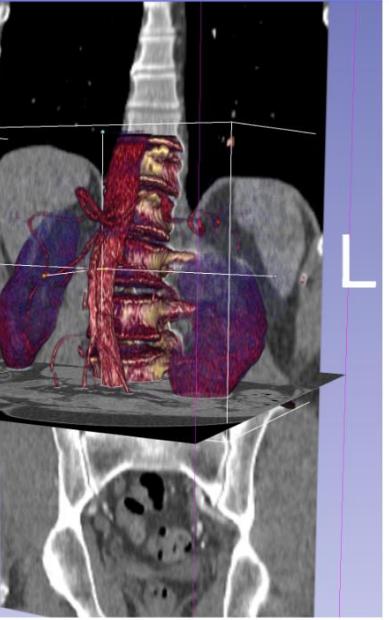
Módulo 3D Slicer
de Segmentación
traducido al
portugués de
Brasil.





El módulo de Volúmenes de 3D Slicer traducido al español latinoamericano.





Chan
Zuckerberg
Initiative



3DSlicer

Introdução Básica ao Carregamento e Visualização de Dados no 3D Slicer

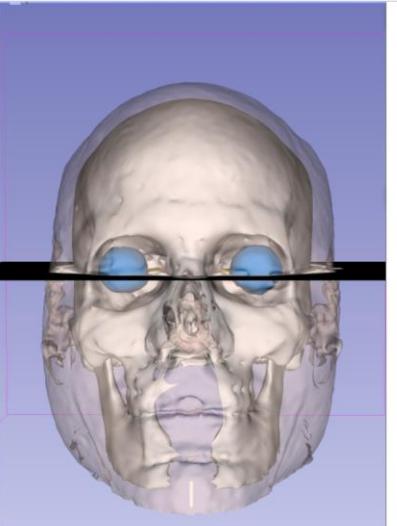
Sonia Pujol, Ph.D.

Director of 3D Slicer Training, Education &
Internationalization

Assistant Professor of Radiology
Brigham and Women's Hospital
Harvard Medical School



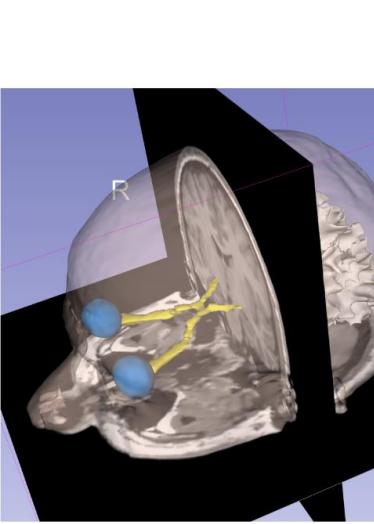
Tradução para o Português: Mariana Bernardes e
Pedro Moreira



Parte 3 Carregando e Visualizando modelos 3D



Mariana Bernardes, PhD
Brigham and Women's Hospital
Harvard Medical School



Este tutorial é uma introdução
básica sobre o carregamento e
visualização de imagens
DICOM e modelos 3D no 3D
Slicer.

Objetivo Geral

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Pedro Moreira, PhD
Brigham and Women's Hospital
Harvard Medical School

Tutorial de Visualización de 3D Slicer en portugués



3D Slicer para el equipo de América Latina



Investigadora principal
Dra. Sonia Pujol
Brigham and Women's Hospital
Harvard Medical School



Dra. Adriana Vilchis Gonzalez
Universidad Autónoma del
Estado de México (UAEM)



Dr. Luiz Murta
Universidade de São Paulo
(USP)



Dr. Steve Pieper
Brigham & Women's Hospital
Isomics Inc



Dr. Andras Lasso
Queen's University,



Dr. Juan-Carlos Avila Vilchis
UAEM



Dra. Vianney Muños Jimenez
UAEM



Marianna Alvarez
Carvajal UAEM



Dr. Glauco Caurin
USP



Dr. Helio Rubens Machado
USP



Davi Romao, M.D.
Hospital Sírio-Libanês

3D Slicer para el equipo de América Latina



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Mendoza Mora
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Ponciano UAEM



Aída García Limas
UAEM



Nubia Sofía González
Casanova UAEM



Valeria Gómez
Valdes UAEM



Gael García Serrano
UAEM





IX LATIN AMERICAN CONGRESS ON BIOMEDICAL ENGINEERING

XXVIII BRAZILIAN CONGRESS ON BIOMEDICAL ENGINEERING

From 24 to 28 October 2022
Florianópolis - SC - Brasil



The 3D Slicer Open Source Platform for Medical Image Computing, Image-guided Therapy and Robotics Research

Workshop CBEB & CLAIB 2022, Monday, October 24 2022



3D Slicer is an open source software platform for medical image analysis, 3D visualization and image-guided therapy used in clinical research worldwide. The application provides biomedical engineers and clinical researchers easy access to over 300 modules and extensions that can be run on their Windows, Mac and Linux laptop computer, with their own data. 3D Slicer provides functionalities for segmentation, registration, DICOM interoperability, automated measurements and 3D printing, as well as other utilities including virtual and augmented reality, tool tracking and real-time data fusion for image-guided therapy, and image annotation for deep learning. The software is built upon a set of robust and cross-platform open-source libraries, and enables the rapid development of biomedical image analysis tools. The goal of the workshop is to introduce the latest version of 3D Slicer to the Brazilian and Latin American biomedical engineering community. The sessions will provide an overview of the platform, and present examples of clinical research applications developed using the software. Topics will include brain mapping for neurosurgical intervention, robot-assisted applications, ultrasound-guided intervention, image processing for prostate cancer treatment, and the OpenGLLink protocol for connecting 3D Slicer with devices in the operating room. Workshop participants will be guided through the resources and materials available, including download pages, tutorials and documentation, to discover the platform and join the global Slicer community.

CLAIB 2022 / CBEB 2022 - 3D Slicer Workshop Faculty



Adriana Vilchis-González, PhD

Junichi Tokuda, PhD

Mariana Bernardes, PhD

Pedro Moreira, PhD

Sonia Pujol, PhD

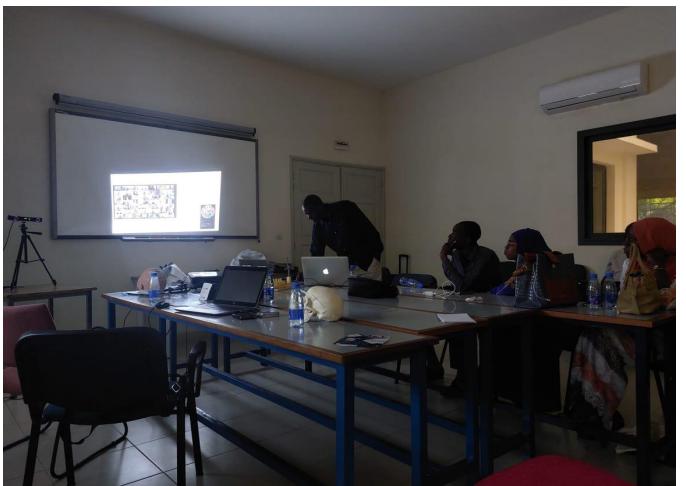
List of speakers

- Sonia Pujol, PhD (Brigham and Women's Hospital and Harvard Medical School, USA)
- Pedro Moreira, PhD (Brigham and Women's Hospital and Harvard Medical School, USA)
- Mariana Bernardes, PhD (Brigham and Women's Hospital and Harvard Medical School, USA)
- Junichi Tokuda, PhD (Brigham and Women's Hospital and Harvard Medical School, USA)
- Adriana H. Vilchis-González, PhD (Universidad Autónoma del Estado de México, Mexico)

Primer evento de difusión de 3D Slicer en América Latina.

Congreso Latinoamericano de Ingeniería Biomédica (CLAIB 2022) y Congreso Brasileño de Ingeniería Biomédica (CBEB 2022)





Al admitir varios idiomas en la interfaz de usuario, nuestro esfuerzo de internacionalización de 3D Slicer pretende aumentar la accesibilidad de 3D Slicer en todo el mundo y permitir a los investigadores de países de habla no inglesa aprovechar todo el potencial de la plataforma.



Hosted Weblate

Dashboard Projects Languages Checks

3D Slicer / 3D Slicer / Spanish (Latin America)

Overview Info Search Insights Files Tools Manage Share

Translation status

2,652 Strings (Translated 4%)

12,839 Words (Translated 2%)

Browse Translate Zen

Strings status

- 2,652 All strings — 12,839 words
- 4 Read-only strings — 4 words
- 126 Translated strings — 275 words
- 2,526 Unfinished strings — 12,564 words
- 2,526 Strings marked for edit — 12,564 words
- 2,526 Unfinished strings without suggestions — 12,564 words
- 2,054 Strings with any failing checks — 11,917 words
- 2 Translated strings with any failing checks — 28 words
- 2,051 Failing check: Unchanged translation — 11,765 words
- 1 Failing check: Double space — 7 words
- 2 Failing check: Mismatched full stop — 28 words
- 1 Failing check: XML syntax — 104 words



Lo invitamos a unirse a nuestro equipo y contribuir con sus conocimientos lingüísticos a este proyecto multilingüe en curso.

Para empezar, visite el tutorial Language Packs: <https://github.com/Slicer/SlicerLanguagePacks>

y/o asista a las sesiones sobre internacionalización de Slicer en Slicer PW 40, que se celebrará del 29 de enero al 2 de febrero de 2024 en Gran Canaria (España). <https://projectweek.na-mic.org>



Agradecimientos



El proyecto de internacionalización de 3D Slicer ha sido posible en parte gracias a dos subvenciones Essential Open Source Software for Science (EOSS) de Chan Zuckerberg Initiative.

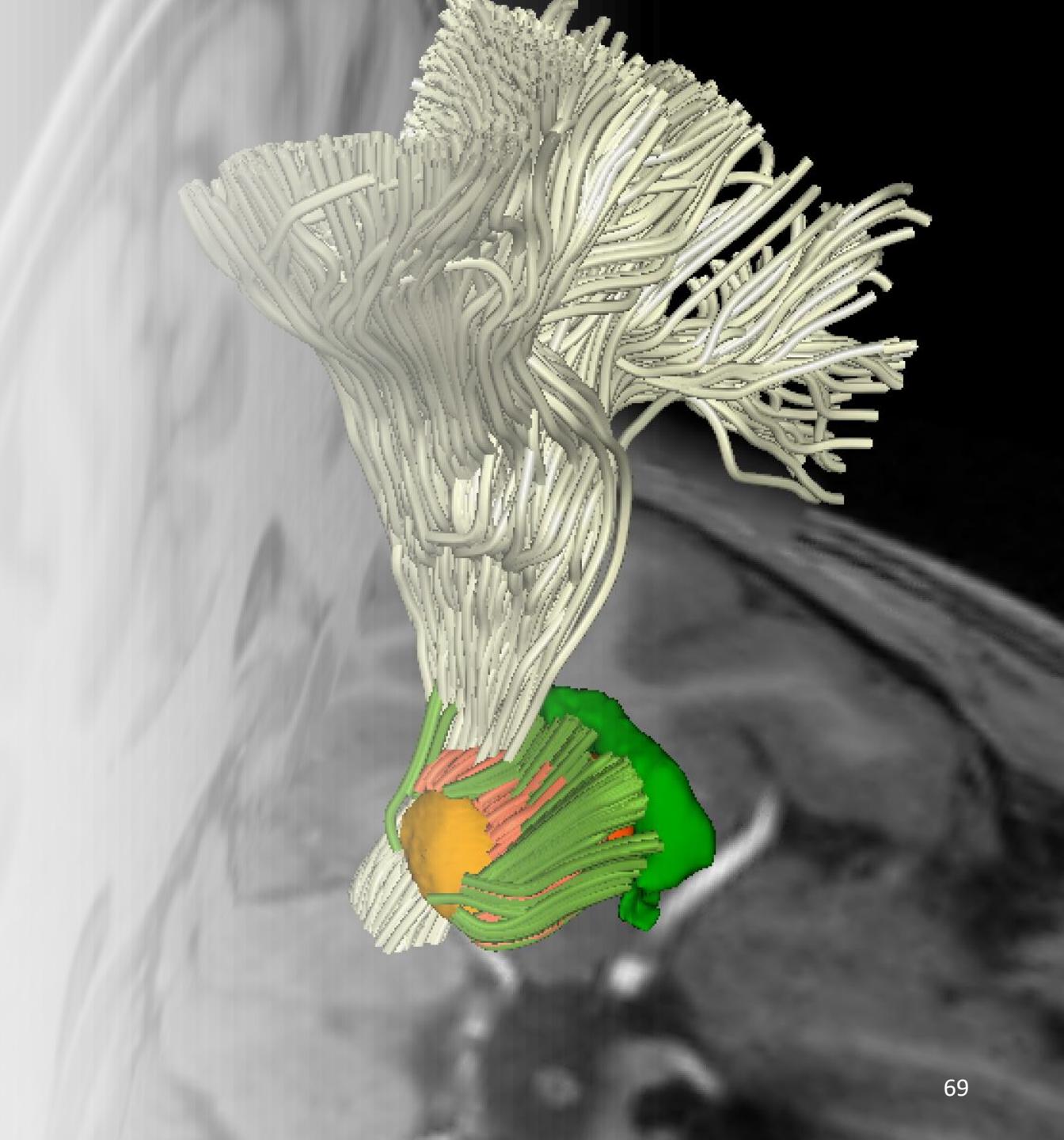




Contacto:

Dra. Sonia Pujol

spujol@bwh.harvard.edu





Porcentaje de cobertura de la traducción por idioma

<https://hosted.weblate.org/projects/3d-slicer>

El repositorio de 3D Slicer en Weblate alberga el inicio de las traducciones a 20 idiomas, incluidos el español y el portugués, que han sido aportadas por la comunidad mundial de Slicer.

< < 13 / 147 > >| Translated strings ▾ state:>=translated Position and priority ▾

Portugués

translated 5%

Zen

Translation

English
Opacity:
Portuguese (Brazil)
Opacidade:
 Needs editing ⓘ

Save and continue Save and stay Suggest Skip

Key Dialog

Glossary

English Portuguese (Brazil)
No related strings found in the glossary.

+ Add term to glossary

String information

Screenshot context
No screenshot currently associated.
+ Add screenshot

Hosted Weblate

Dashboard Projects ▾ Languages ▾ Checks ▾

New comment

Comment on this string for fellow translators

Scope

Translation comment, discussions with other translators

Is your comment specific to this translation?

New comment

You can use Markdown and mention users

Save

15 / 126 Translated strings ▾ state:>=translated Position and priority ▾

Español

translated 4%

Key Dialog

Glossary

English Spanish (Latin America)
No related strings found in the glossary.

+ Add term to glossary

String information

Screenshot context
No screenshot currently associated.
+ Add screenshot

Explanation
No explanation currently provided.

Nearby strings 30 Other occurrences 6 Comments Automatic suggestions Other languages 43 History

New comment

Comment on this string for fellow translators and developers to read.

Scope

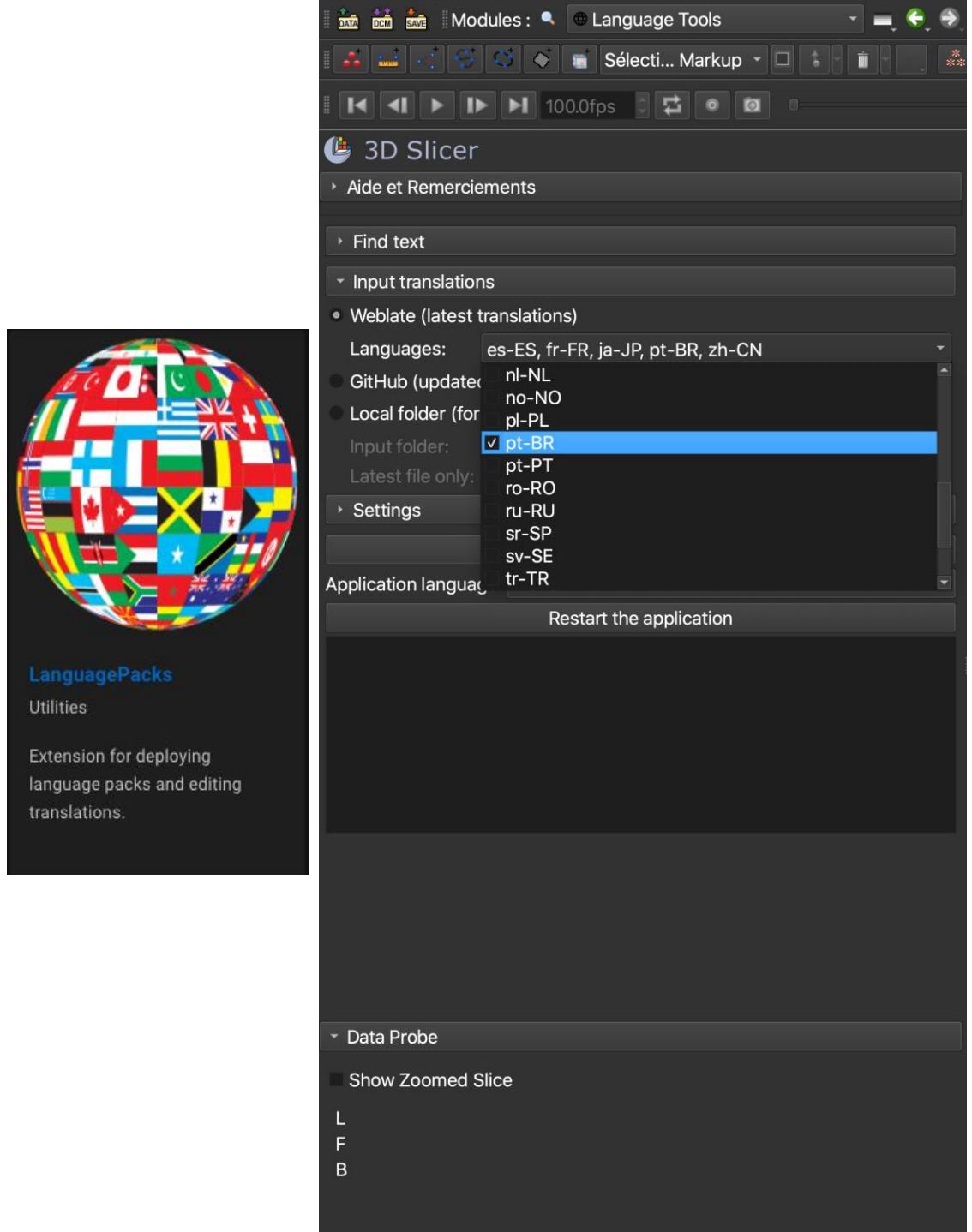
Translation comment, discussions with other translators

Is your comment specific to this translation, or generic for all of them?

New comment

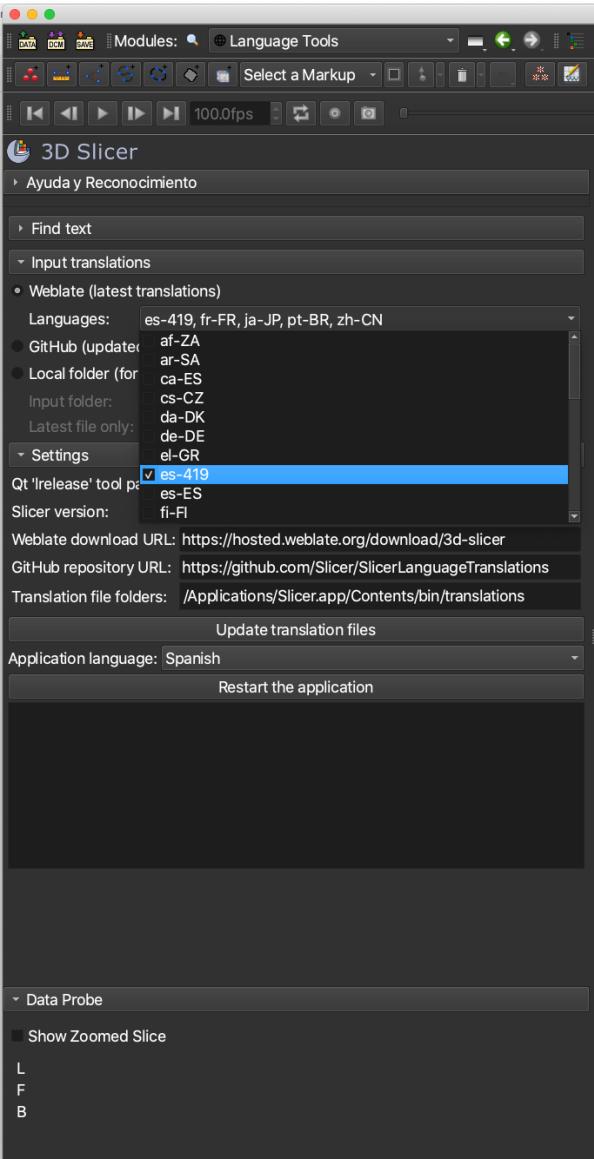
You can use Markdown and mention users by @username.

El repositorio 3D Slicer en Weblate permite la traducción colaborativa por parte de los miembros de la comunidad Slicer.



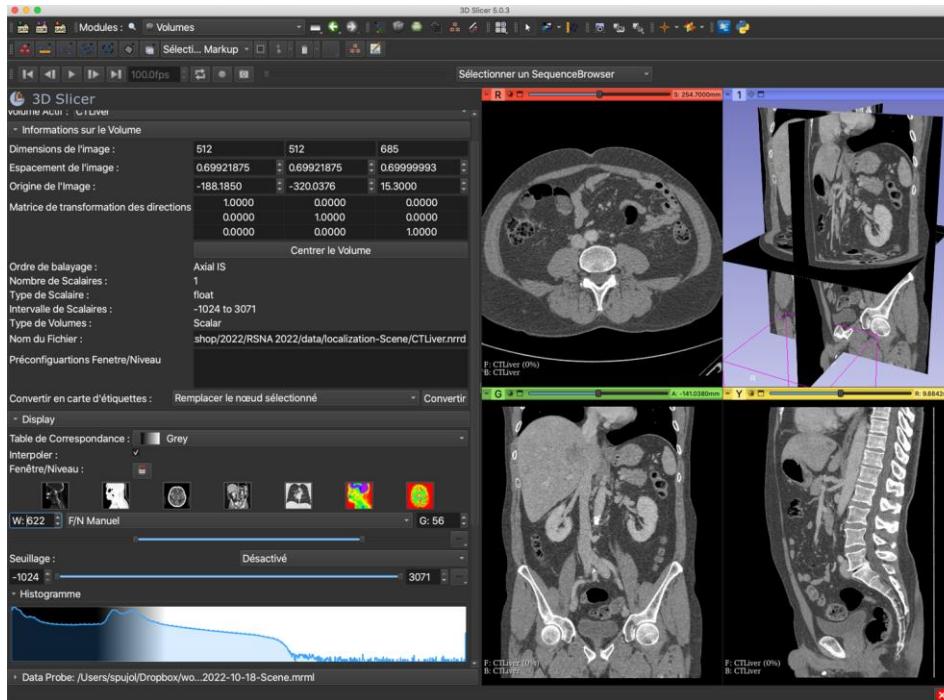
La extensión LanguagePacks de 3D Slicer ha sido desarrollada para permitir el despliegue y la edición de traducciones en 3D Slicer.

La extensión está disponible gratuitamente en el gestor de extensiones de 3D Slicer.



Los usuarios pueden elegir el idioma que prefieran en el módulo Herramientas lingüísticas.

Slicer carga automáticamente el archivo de traducción desde el repositorio de traducciones de 3D Slicer en Weblate.



Getting Started

Welcome to the 3D Slicer community. This page contains information that you need to get started with 3D Slicer, including how to install it and find more information.

System requirements

3D Slicer runs on any system that was released in the last five years. It may work (depending on your hardware).

Slicer can also run on containers. For example, if a web browser is available, no installation is needed, the browser.

Configurations requises

3D Slicer fonctionne sur tout ordinateur Windows, Mac ou Linux sorti au cours des cinq dernières années. Les ordinateurs plus anciens peuvent également le supporter (dépend principalement des capacités graphiques).

Slicer peut également fonctionner sur des machines virtuelles et des conteneurs docker. Par exemple, *3D Slicer + Jupyter Notebook dans un navigateur web* disponible gratuitement via le service Binder (aucune installation nécessaire, l'application peut fonctionner dans n'importe quel navigateur web).

DICOM et Slicer : un tutoriel

Sonia Pujol, Ph.D.
Assistant Professor of Radiology
Directeur de la Formation et de l'Enseignement de 3D Slicer
Brigham and Women's Hospital
Harvard Medical School
spujol@bwh.harvard.edu



Introdução Básica ao Carregamento e Visualização de Dados no 3D Slicer

Sonia Pujol, Ph.D.
Director of 3D Slicer Training & Education
Assistant Professor of Radiology
Brigham and Women's Hospital
Harvard Medical School

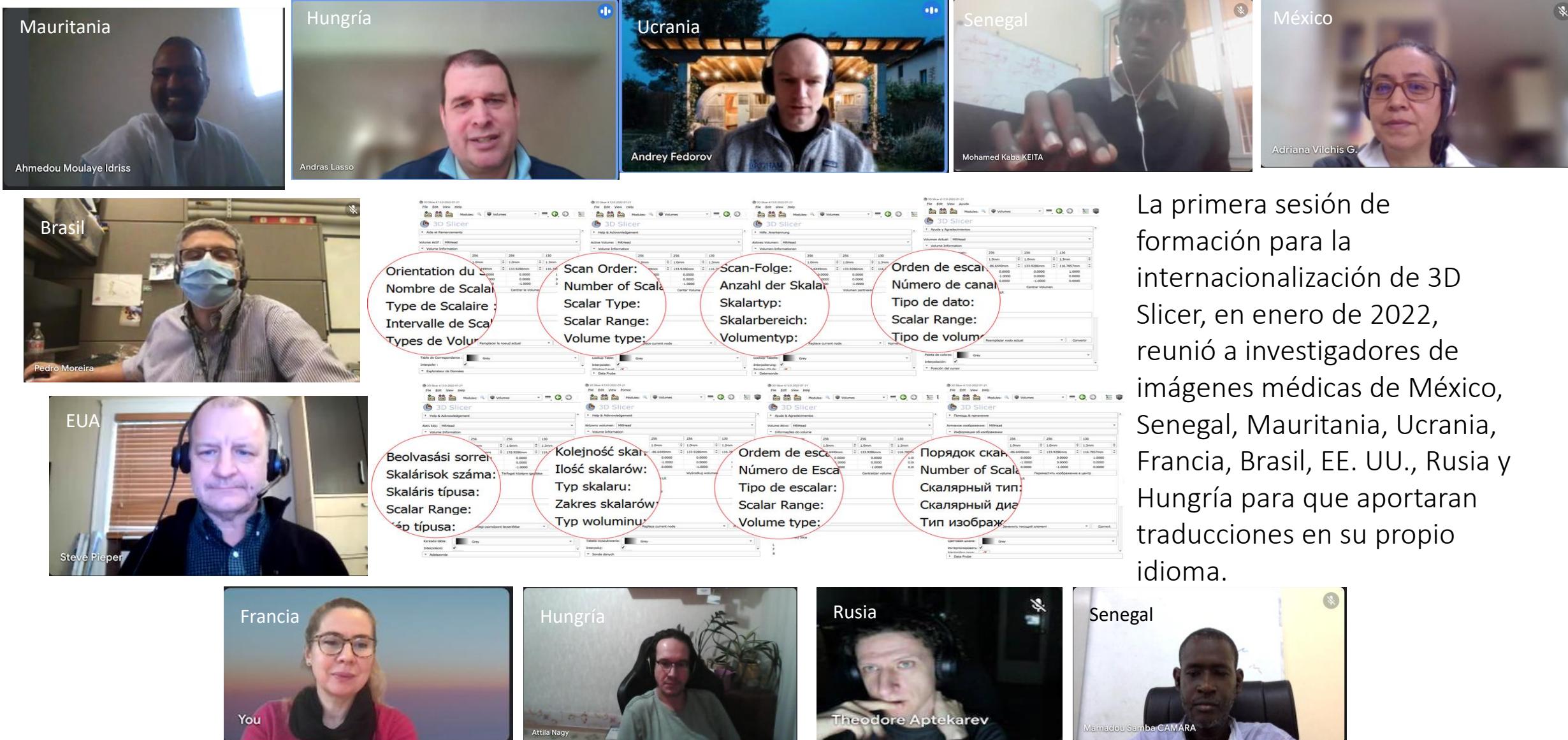


El proyecto de internacionalización de 3D Slicer incluye la traducción de los tutoriales y la documentación de Slicer.

Sumário do Tutorial

- Parte 1: Carregando e Visualizando dados DICOM**
- Parte 2: Renderizando Volume**
- Parte 3: Carregando e Visualizando modelos 3D**

Primera sesión de formación para la internacionalización de 3D Slicer, enero de 2022.



La primera sesión de formación para la internacionalización de 3D Slicer, en enero de 2022, reunió a investigadores de imágenes médicas de México, Senegal, Mauritania, Ucrania, Francia, Brasil, EE. UU., Rusia y Hungría para que aportaran traducciones en su propio idioma.

Original (Inglés)

Modules: Volumes

DATA DCM SAVE Modules : Volumes

Select a Markup

3D Slicer

Help & Acknowledgement

Active Volume: CTLiver

Volume Information

Image Dimensions: 512

Image Spacing: 0.69921875mm

Image Origin: -188.1850mm

IJK to RAS Direction Matrix:

1.0000
0.0000
0.0000

Scan Order: Axial IS

Number of Scalars: 1

Scalar Type: float

Scalar Range: -1024 to 3071

Volume type: Scalar

File Name: workshop/2022/RSNA 2

Window/Level Presets:

Convert to label map: Replace current node

Display

Lookup Table: Grey

Interpolate: ✓

Window/Level: W: 622 Manual W/L

Histogram

Francés

Modules : Volumes

Sélection... Markup

3D Slicer

Aide et Remerciements

Volume Actif : CTLiver

Informations sur le Volume

Dimensions de l'image : 512

Espace de l'image : 0.69921875

Origine de l'image : -188.1850

Matrice de transformation des directions

1.0000
0.0000
0.0000

Ordre de balayage : Axial IS

Nombre de Scalaires : 1

Type de Scalaire : float

Intervalle de Scalaires : -1024 to 3071

Type de Volumes : Scalar

Nom du Fichier : workshop/2022/RSNA 2

Préconfigurations Fenêtre/Niveau

Convertir en carte d'étiquettes : Remplacer le nœud sélectionné

Display

Table de Correspondance : Grey

Interpoler : ✓

Fenêtre/Niveau :

W: 2003 F/N Automatique

Chino

模块: Volumes

选择... Markup

3D Slicer

帮助及致谢

当前数据: CTLiver

数据信息

图像尺寸: 512

图像间距: 0.69921875

图像原点: -188.1850

方向矩阵:

1.0000
0.0000
0.0000

IJK-RAS

扫描顺序: Axial IS

标量数量: 1

标量类型: float

标量范围: -1024 to 3071

数据类型: Scalar

文件路径: /Users/spujol/Dropbox/workshop/2022/RSNA 2

窗宽/窗位预设:

转换为标签映射: 替换当前节点

显示

查找表: Grey

插值: ✓

窗宽/窗位:

W: 2003 自动调节窗宽/窗位

Japonés

DATA DCM SAVE モジュール: Volumes

を選択 Markup

3D Slicer

アクティブ・ボリューム: CTLiver

ボリューム情報

画像サイズ: 512

画像の間隔: 0.69921875

画像の原点: -188.1850

IJKからRASへの方向マトリックス:

1.0000
0.0000
0.0000

スキャン順序: Axial IS

スカラーの数: 1

スカラータイプ: float

スカラーランプ: -1024 to 3071

ボリューム・タイプ: Scalar

ファイル名: workshop/2022/RSNA 2

ウィンドウ/レベルプリセット:

ラベルマップに変換: 現在のノードを置換する

表示

ルックアップテーブル: Grey

補間: ✓

ウィンドウ/レベル:

W: 622 手動 W/L

ヒストグラム



Hosted Weblate

Dashboard Projects Languages Checks

3D Slicer / 3D Slicer / Spanish (Latin America)

Overview Info Search Insights Files Tools Manage Share

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Browse Translate Zen



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Para empezar, visite el tutorial Language Packs:<https://github.com/Slicer/SlicerLanguagePacks>

y/o asista a la próxima Slicer Project Week del 24 al 28 de junio de 2024 (híbrido):

https://projectweek.namic.org/PW41_2024_MIT/

Agradecimientos

Este proyecto ha sido posible en parte gracias a una subvención de Chan Zuckerberg Initiative.



Contacto: Dra. Sonia Pujol
spujol@bwh.harvard.edu
<https://scholar.harvard.edu/soniapujol>