**3D Slicer**

**RRID:** SCR_005619  
**Type:** Tool

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### Proper Citation

3D Slicer (RRID:SCR_005619)

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### Resource Information

**URL:** [http://slicer.org/](http://slicer.org/)

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**Description:** A free, open source software package for visualization and image analysis including registration, segmentation, and quantification of medical image data. Slicer provides a graphical user interface to a powerful set of tools so they can be used by end-user clinicians and researchers alike. 3D Slicer is natively designed to be available on multiple platforms, including Windows, Linux and Mac Os X. Slicer is based on VTK (http://public.kitware.com/vtk) and has a modular architecture for easy addition of new functionality. It uses an XML-based file format called MRML - Medical Reality Markup Language which can be used as an interchange format among medical imaging applications. Slicer is primarily written in C++ and Tcl.

**Resource Type:** Resource, data visualization software, software application, data processing software, image analysis software, software resource

**Keywords:** birn, diffusion, functional, na-mic (ncbc), nifti-1 support, registration, segmentation, visualization, volume, warping

**Parent Organization:** Harvard University; Cambridge; United States

**Funding Agency:** NCI, NCRR, NIBIB, NIH, Telemedicine and Advanced Technology Research Center, US Army

**Related resources:** Slicer3 Example Modules, Stereoscopic Atlas of Intrinsic Brain Networks, vmtk in 3DSlicer, Diffusion Tractography with Kalman Filter, Fast Nonlocal Means for MRI denoising, SpineSegmentation module for 3DSlicer, BioImage Suite, NA-MIC Kit, Hammer And WML Modules for 3D Slicer, ABC (Atlas Based Classification), ARCTIC,
Finsler tractography module for Slicer, GAMBIT, GPU based affine registration, GTRACT, LEAD-DBS

**Availability:** 3D Slicer License

**Website Status:** Last checked up

**Abbreviations:** Slicer

**Resource Name:** 3D Slicer

**Resource ID:** SCR_005619

**Alternate IDs:** nif-0000-00256

**Alternate URLs:** http://www.nitrc.org/projects/slicer

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**Ratings and Alerts**


No alerts have been found for 3D Slicer.

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**Data and Source Information**

**Source:** SciCrunch Registry

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**Usage and Citation Metrics**

We found 552 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [FDI Lab - SciCrunch Infrastructure](http://www.nitrc.org/projects/slicer).


Hwang Y, et al. (2020) Applicability of the masseter muscle as a nutritional biomarker. Medicine, 99(6), e19069.


Jiang X, et al. (2019) Coordination of Human Hippocampal Sharpwave Ripples during NREM Sleep with Cortical Theta Bursts, Spindles, Downstates, and Upstates. The Journal of...