FreeSurfer
RRID:SCR_001847
Type: Tool

Proper Citation
FreeSurfer (RRID:SCR_001847)

Resource Information

URL: http://surfer.nmr.mgh.harvard.edu/

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Description: Open source software suite for processing and analyzing human brain MRI images.
Warning: If you are using version 7.0 please be advised that it has been recalled (see https://surfer.nmr.mgh.harvard.edu/fswiki/ReleaseNotes).
Used for reconstruction of brain cortical surface from structural MRI data, and overlay of functional MRI data onto reconstructed surface. Contains automatic structural imaging stream for processing cross sectional and longitudinal data. Provides anatomical analysis tools, including: representation of cortical surface between white and gray matter, representation of the pial surface, segmentation of white matter from rest of brain, skull stripping, B1 bias field correction, nonlinear registration of cortical surface of individual with stereotaxic atlas, labeling of regions of cortical surface, statistical analysis of group morphometry differences, and labeling of subcortical brain structures. Operating System: Linux, macOS.

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

Keywords: processing, analysis, human, brain, MRI, image, reconstruction, cortical, surface, fMRI, data

Parent Organization: Harvard University; Cambridge; United States

Funding Agency: NCRR, NINDS
**Related resources:** PySurfer, RFT FDR, FMRLAB, TRACULA, BASH4RfMRI

**Availability:** Free, Available for download

**Website Status:** Last checked up

**Abbreviations:** FreeSurfer

**Resource Name:** FreeSurfer

**Resource ID:** SCR_001847

**Alternate IDs:** nif-0000-00304

**Alternate URLs:** http://www.nitrc.org/projects/freesurfer, http://surfer.nmr.mgh.harvard.edu/fswiki/DownloadAndInstall

### Ratings and Alerts


No alerts have been found for FreeSurfer.

### Data and Source Information

**Source:** SciCrunch Registry

### Usage and Citation Metrics

We found 5022 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/freesurfer).


Alves JM, et al. (2020) Sex differences in the association between prenatal exposure to maternal obesity and hippocampal volume in children. Brain and behavior, 10(2), e01522.


Miller TD, et al. (2020) Human hippocampal CA3 damage disrupts both recent and remote episodic memories. eLife, 9.


Naeije G, et al. (2020) Age of onset determines intrinsic functional brain architecture in