Resource Summary Report

Generated by NIF on Jul 31, 2026

Mindboggle

RRID:SCR_002438
Type: Tool

Proper Citation

Mindboggle (RRID:SCR_002438)

Resource Information

URL: http://mindboggle.info

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Description: Mindboggle (http://mindboggle.info) is open source software for analyzing the shapes of brain structures from human MRI data. The following publication in PLoS Computational Biology documents and evaluates the software: Klein A, Ghosh SS, Bao FS, Giard J, Hame Y, Stavsky E, Lee N, Rossa B, Reuter M, Neto EC, Keshavan A. (2017) Mindboggling morphometry of human brains. PLoS Computational Biology 13(3): e1005350. doi:10.1371/journal.pcbi.1005350

Abbreviations: Mindboggle

Resource Type: software resource, software application, data processing software

Keywords: analyze, anatomic, atlas application, console (text based), labeling, python, magnetic resonance, os independent, region of interest, segmentation, brain, label, mri, anatomy, cerebral cortex, human brain, parcellation, morphometry, shape measures, cortical thickness, cortical depth, Laplace-Beltrami spectra, Zernike moments

Funding: NIMH MH084029-02

Availability: Free, Available for download, Freely available

Resource Name: Mindboggle

Resource ID: SCR_002438

Alternate IDs: nlx_155813

Alternate URLs: http://www.nitrc.org/projects/mindboggle

License: Apache License, v2

Record Creation Time: 20220129T080213+0000

Record Last Update: 20260731T042637+0000

Ratings and Alerts

No rating or validation information has been found for Mindboggle.

No alerts have been found for Mindboggle.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 211 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF .

Qu S, et al. (2026) Advancing whole-brain BOLD functional MRI in humans at 10.5???T with motion-robust 3D echo-planar imaging, parallel transmission, and high-density radiofrequency receive coils. Magnetic resonance in medicine, 95(2), 1068.

West JT, et al. (2026) Exploring the neural underpinnings of semantic and perceptual false memory formation. Neuropsychologia, 221, 109332.

Kimbler A, et al. (2025) Advanced diffusion imaging in grey matter reflects individual differences in cognitive ability in older adults. bioRxiv : the preprint server for biology.

Trach JE, et al. (2025) The human cerebellum encodes temporally sensitive reinforcement learning signals. bioRxiv : the preprint server for biology.

Ding W, et al. (2025) Model-based and model-free valuation signals in the human brain vary markedly in their relationship to individual differences in behavioral control. bioRxiv : the preprint server for biology.

Isherwood S, et al. (2025) Multi-study fMRI outlooks on subcortical BOLD responses in the stop-signal paradigm. eLife, 12.

Sachs ME, et al. (2025) Emotions in the Brain Are Dynamic and Contextually Dependent: Using Music to Measure Affective Transitions. eNeuro, 12(7).

Evensmoen HR, et al. (2025) Pattern integration and differentiation: Dual process model of episodic memory. Imaging neuroscience (Cambridge, Mass.), 3.

Struber L, et al. (2025) Savings in visuomotor learning are associated with connectivity changes within a cerebello-thalamo-cortical network encoding movement errors. Brain structure & function, 230(8), 156.

Mueckstein M, et al. (2025) Network Neuroscience of Human Multitasking: Local Connections Matter. Human brain mapping, 46(18), e70434.

Huang CHL, et al. (2025) The Human Claustrum Activates Across Multiple Cognitive Control Tasks. The European journal of neuroscience, 62(9), e70318.

Taylor JL, et al. (2025) Network-targeted transcranial magnetic stimulation (TMS) for mild cognitive impairment (MCI). NeuroImage. Clinical, 47, 103819.

Tarder-Stoll H, et al. (2025) The Hippocampus Rapidly Integrates Sequence Representations During Novel Multistep Predictions. bioRxiv : the preprint server for biology.

Wang TX, et al. (2025) Cerebral morphometric alterations predict the outcome of migraine diagnosis and subtyping: a radiomics analysis. BMC medical imaging, 25(1), 110.

Hao Y, et al. (2025) Understanding depression in autism: the role of subjective perception and anterior cingulate cortex volume. Molecular autism, 16(1), 9.

Kamps FS, et al. (2025) Representation of navigational affordances and ego-motion in the occipital place area. Imaging neuroscience (Cambridge, Mass.), 3.

Barnaveli I, et al. (2025) Hippocampal-entorhinal cognitive maps and cortical motor system represent action plans and their outcomes. Nature communications, 16(1), 4139.

Reddan MC, et al. (2025) Neural signatures of emotional intent and inference align during social consensus. Nature communications, 16(1), 6156.

Rezaei A, et al. (2025) Transfer of motor learning is associated with patterns of activity in the default mode network. PLoS biology, 23(8), e3003268.

Bas LM, et al. (2025) A neurocomputational account of the link between social perception and social action. eLife, 12.