

Resource Summary Report

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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 application, software resource, 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: 20260727T040315+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 [nidm-terms](#) .

Qu S, et al. (2026) Advancing whole-brain BOLD functional MRI in humans at 10.5T 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*.

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*.

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

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.

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

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

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.

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

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

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.

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*.

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

Shen AA, et al. (2025) Assessing the role of volumetric brain information in multiple sclerosis progression. *Computational and structural biotechnology journal*, 27, 2014.

Jeong GR, et al. (2025) High-field fMRI at 7 Tesla reveals topographic responses tuned to number in the developing human brain. *Developmental cognitive neuroscience*, 75, 101598.

David I, et al. (2025) Distance- and Hierarchy-Dependent Functional Dysconnectivity in Schizophrenia and Its Association with Cortical Microstructure. *medRxiv : the preprint server for health sciences*.