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: Apache License, v2

Resource Name: Mindboggle

Resource ID: SCR_002438

Alternate IDs: nlx_155813

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

Record Creation Time: 20220129T080213+0000

Record Last Update: 20250421T053326+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 163 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

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

Heukamp NJ, et al. (2025) Beyond the chronic pain stage: default mode network perturbation depends on years lived with back pain. Pain, 166(1), 160.

Bathelt J, et al. (2024) Relationship Between Resting State Functional Connectivity and Reading-Related Behavioural Measures in 69 Adults. Neurobiology of language (Cambridge, Mass.), 5(2), 589.

Huang Q, et al. (2024) Replay-triggered brain-wide activation in humans. Nature communications, 15(1), 7185.

Rasgado-Toledo J, et al. (2024) Cortical and subcortical microstructure integrity changes after repetitive transcranial magnetic stimulation therapy in cocaine use disorder and relates to clinical outcomes. Addiction biology, 29(2), e13381.

Demidenko MI, et al. (2024) A multi-sample evaluation of the measurement structure and function of the modified monetary incentive delay task in adolescents. Developmental cognitive neuroscience, 65, 101337.

Heukamp NJ, et al. (2024) Adolescents' pain-related ontogeny shares a neural basis with adults' chronic pain in basothalamo-cortical organization. iScience, 27(2), 108954.

Pietracupa S, et al. (2024) Understanding the role of cerebellum in early Parkinson's disease: a structural and functional MRI study. NPJ Parkinson's disease, 10(1), 119.

Wang X, et al. (2024) Macroscale brain states support the control of semantic cognition. Communications biology, 7(1), 926.

Magalhães TNC, et al. (2024) Non-invasive neuromodulation of cerebello-hippocampal volume-behavior relationships. bioRxiv : the preprint server for biology.

Keles U, et al. (2024) Multimodal single-neuron, intracranial EEG, and fMRI brain responses during movie watching in human patients. Scientific data, 11(1), 214.

Tallman CW, et al. (2024) Human brain activity and functional connectivity associated with verbal long-term memory consolidation across 1 month. Frontiers in human neuroscience, 18, 1342552.

Wang X, et al. (2024) The Brain's Topographical Organization Shapes Dynamic Interaction Patterns That Support Flexible Behavior Based on Rules and Long-Term Knowledge. The Journal of neuroscience : the official journal of the Society for Neuroscience, 44(22).

Fan T, et al. (2024) The Domain-Specific Neural Basis of Auditory Statistical Learning in 5-7-Year-Old Children. Neurobiology of language (Cambridge, Mass.), 5(4), 981.

Lumaca M, et al. (2024) Frontoparietal network topology as a neural marker of musical perceptual abilities. Nature communications, 15(1), 8160.

Hao Y, et al. (2024) Understanding Depression in Autism: The Role of Subjective Perception and Anterior Cingulate Cortex Volume. Research square.

Vivó F, et al. (2024) Microscopic fractional anisotropy outperforms multiple sclerosis lesion assessment and clinical outcome associations over standard fractional anisotropy tensor. Human brain mapping, 45(8), e26706.

Ohki T, et al. (2024) Multivariate sharp-wave ripples in schizophrenia during awake state. Psychiatry and clinical neurosciences, 78(9), 507.

Tarder-Stoll H, et al. (2024) The brain hierarchically represents the past and future during multistep anticipation. Nature communications, 15(1), 9094.

Botvinik-Nezer R, et al. (2024) Placebo treatment affects brain systems related to affective and cognitive processes, but not nociceptive pain. Nature communications, 15(1), 6017.