

Resource Summary Report

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Brain Imaging Data Structure (BIDs)

RRID:SCR_016124

Type: Tool

Proper Citation

Brain Imaging Data Structure (BIDs) (RRID:SCR_016124)

Resource Information

URL: <http://bids.neuroimaging.io>

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Description: Standard specification for organizing and describing outputs of neuroimaging experiments. Used to organize and describe neuroimaging and behavioral data by neuroscientific community as standard to organize and share data. BIDS prescribes file naming conventions and folder structure to store data in set of already existing file formats. Provides standardized templates to store associated metadata in form of Javascript Object Notation (JSON) and tab-separated value (TSV) files. Facilitates data sharing, metadata querying, and enables automatic data analysis pipelines. System to curate, aggregate, and annotate neuroimaging databases. Intended for magnetic resonance imaging data, magnetoencephalography data, electroencephalography data, and intracranial encephalography data.

Abbreviations: BIDS

Synonyms: Brain Imaging Data Structure, BIDS, Brain Imaging Data Structure (BIDS), Brain Imaging Data Structure v1.4.0

Resource Type: data or information resource, standard specification, narrative resource, portal

Defining Citation: [PMID:27326542](#), [PMID:29917016](#), [PMID:31239435](#), [PMID:31239438](#), [PMID:37744469](#)

Keywords: Data storing structure, neuroimaging, standardized template, data sharing, MRI data, MEG data, EEG data, iEEG data, FASEB list

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Medical Research Council United Kingdom ;
NSF 1429999

Availability: Free, Freely available

Resource Name: Brain Imaging Data Structure (BIDs)

Resource ID: SCR_016124

Alternate IDs: <https://bids-specification.readthedocs.io/en/stable/>,
<https://doi.org/10.25504/FAIRsharing.rd1j6t>

Record Creation Time: 20220129T080329+0000

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Ratings and Alerts

No rating or validation information has been found for Brain Imaging Data Structure (BIDs).

No alerts have been found for Brain Imaging Data Structure (BIDs).

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 212 mentions in open access literature.

Listed below are recent publications. The full list is available at [T1D](#) .

Rampinini A, et al. (2025) NEBULA101: an open dataset for the study of language aptitude in behaviour, brain structure and function. Scientific data, 12(1), 19.

Chen H, et al. (2025) Multidimensional dataset for cognitive assessment, sMRI, and rsfMRI in common benign epileptic children. Scientific data, 12(1), 207.

Bersier NM, et al. (2025) Cognitive traits shape the brain activity associated with mental rotation. Cerebral cortex (New York, N.Y. : 1991), 35(4).

Roger E, et al. (2025) When age tips the balance: A dual mechanism affecting hemispheric specialization for language. Imaging neuroscience (Cambridge, Mass.), 3.

- Filimonova E, et al. (2025) A large-scale dataset of pre- and postsurgical MRI data from patients with chronic trigeminal neuralgia. *Scientific data*, 12(1), 2024.
- Lampert F, et al. (2025) Adaptive neuromodulation dialogues: navigating current challenges and emerging innovations in neuromodulation system development. *Journal of neural engineering*, 22(6).
- Habersetzer T, et al. (2025) MEG-SCANS - A comprehensive magnetoencephalography speech dataset with Stories, Chirps and Noisy Sentences. *Scientific data*, 12(1), 1938.
- Zhang M, et al. (2025) SpiDa-MRI: behavioral and (f)MRI data of adults with fear of spiders. *Scientific data*, 12(1), 284.
- Robinson JE, et al. (2025) The role of active inference in conscious awareness. *PloS one*, 20(12), e0328836.
- Luke R, et al. (2025) NIRS-BIDS: Brain Imaging Data Structure Extended to Near-Infrared Spectroscopy. *Scientific data*, 12(1), 159.
- Turner JM, et al. (2025) Social inference brain networks in autistic adults during movie-viewing: functional specialization and heterogeneity. *Molecular autism*, 16(1), 42.
- Guo T, et al. (2025) An fMRI dataset for investigating language control and cognitive control in bilinguals. *Scientific data*, 12(1), 889.
- Gozdas E, et al. (2025) Protocol to predict time perception bias from cortical neurite microstructures in healthy older adults. *STAR protocols*, 6(2), 103756.
- Ren B, et al. (2025) A relaxation-diffusion MRI dataset of aging mouse brains at 9.4 Tesla. *Scientific data*, 12(1), 1797.
- Germani E, et al. (2025) Predicting Parkinson's disease trajectory using clinical and functional MRI features: A reproduction and replication study. *PloS one*, 20(2), e0317566.
- Tranfa M, et al. (2025) Conventional MRI-Based Structural Disconnection and Morphometric Similarity Networks and Their Clinical Correlates in Multiple Sclerosis. *Neurology*, 104(4), e213349.
- Bom MS, et al. (2025) Large-scale fMRI dataset for the design of motor-based Brain-Computer Interfaces. *Scientific data*, 12(1), 804.
- Bersier NM, et al. (2025) Stimulus-specific influence of gender on mental-rotation-related brain activity. *Cognitive, affective & behavioral neuroscience*, 25(6), 1694.
- Ivey V, et al. (2025) Time-resolved large-scale neural coactivations in macaque monkey. *NeuroImage*, 318, 121408.
- Hall-McMaster S, et al. (2025) Neural evidence that humans reuse strategies to solve new tasks. *PLoS biology*, 23(6), e3003174.