

Resource Summary Report

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HED Tags

RRID:SCR_014074

Type: Tool

Proper Citation

HED Tags (RRID:SCR_014074)

Resource Information

URL: <http://www.hedtags.org/>

Proper Citation: HED Tags (RRID:SCR_014074)

Description: Strategy guide for HED Annotation. Framework for systematically describing laboratory and real world events. HED tags are comma separated path strings. Organized in forest of groups with roots Event, Item, Sensory presentation, Attribute, Action, Participant, Experiment context, and Paradigm. Used for preparing brain imaging data for automated analysis and meta analysis. Applied to brain imaging EEG, MEG, fNIRS, multimodal mobile brain or body imaging, ECG, EMG, GSR, or behavioral data. Part of Brain Imaging Data Structure standard for brain imaging.

Abbreviations: HED

Synonyms: Hierarchical Event Descriptor Tags, Hierarchical Event Descriptor, HED, HED tags

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

Defining Citation: [PMID:27799907](#)

Keywords: Data, structure, standard, EEG, brain, imaging, comma, separated, path, string, analysis, MEG, fNIRS, multimodal, ECG, EMG, GSR, behavioral, BRAIN Initiative

Funding: Army Research Laboratory Cooperative Agreement ;
NIMH R01MH084819;
NINDS R01 NS047293;
Swartz Foundation

Availability: Free, Freely available

Resource Name: HED Tags

Resource ID: SCR_014074

Alternate IDs: SCR_017630

Record Creation Time: 20220129T080318+0000

Record Last Update: 20260912T195811+0000

Ratings and Alerts

No rating or validation information has been found for HED Tags.

No alerts have been found for HED Tags.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 8 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Hermes D, et al. (2025) Hierarchical Event Descriptor library schema for EEG data annotation. Scientific data, 12(1), 1448.

Makeig S, et al. (2024) Events in context-The HED framework for the study of brain, experience and behavior. Frontiers in neuroinformatics, 18, 1292667.

Reer A, et al. (2023) FAIR human neuroscientific data sharing to advance AI driven research and applications: Legal frameworks and missing metadata standards. Frontiers in genetics, 14, 1086802.

Mercier MR, et al. (2022) Advances in human intracranial electroencephalography research, guidelines and good practices. NeuroImage, 260, 119438.

Robbins K, et al. (2021) Capturing the nature of events and event context using hierarchical event descriptors (HED). NeuroImage, 245, 118766.

Huggins JE, et al. (2017) Workshops of the Sixth International Brain-Computer Interface Meeting: brain-computer interfaces past, present, and future. Brain computer interfaces (Abingdon, England), 4(1-2), 3.

Bigdely-Shamlo N, et al. (2016) Preparing Laboratory and Real-World EEG Data for Large-Scale Analysis: A Containerized Approach. Frontiers in neuroinformatics, 10, 7.

Bigdely-Shamlo N, et al. (2016) Hierarchical Event Descriptors (HED): Semi-Structured Tagging for Real-World Events in Large-Scale EEG. Frontiers in neuroinformatics, 10, 42.