
HED EEG Many Labs

Release 8.0.0

HED Working Group

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A PDF version of this document can be found [here](#)

DOCUMENTATION

1.1 1. HED publications

Explanation of the history, development, and motivation for third generation HED:

Robbins, K., Truong, D., Jones, A., Callanan, I., & Makeig, S. (2020, August 1). Building FAIR functionality: Annotating events in time series data using Hierarchical Event Descriptors (HED). <https://doi.org/10.31219/osf.io/5fg73>

Detailed case study in using HED-3G for tagging:

Robbins, K., Truong, D., Appelhoff, S., Delorme, A., & Makeig, S. (2021, May 7). Capturing the nature of events and event context using Hierarchical Event Descriptors (HED). *BioRxiv*, 2021.05.06.442841. <https://doi.org/10.1101/2021.05.06.442841>

1.2 2. Working documents

Mapping of HED terms and their descriptions to known ontologies is:

HED-3G Working Document on Ontology mapping <https://drive.google.com/file/d/13y17OwwNBiHdhB7hguSmOBdxn0Uk4hsI/view?usp=sharing>

Two other working documents hold portions of the HED-3G specification that are under development and will not be finalized for Release 1:

HED-3G Working Document on Spatial Annotation <https://docs.google.com/document/d/1jpSASpWQwOKtan15iQeiYHVewvEeefcBUl1xipNH5-8/view?usp=sharing>

HED-3G Working Document on Task Annotation https://docs.google.com/document/d/1eGRI_gkYutmwmAl524ezwkX7VwikrLTQa9t8PocQMIU/view?usp=sharing

1.3 3. Schema viewers

The HED schema is usually developed in .mediawiki format and converted to XML for use by tools. However, researchers wishing to tag datasets will find both of these views hard to read. For this reason, we provide links to three versions of the schema. The expandable HTML viewer is easier to navigate. Annotators can also use CTAGGER, which includes a schema viewer and tagging hints.

Table 1: HED web-based schema vocabulary viewers.

Viewer	Link
Expandable HTML	https://www.hedtags.org/display_hed.html?version=8.0.0
Mediawiki	https://github.com/hed-standard/hed-specification/blob/master/hedwiki/HED8.0.0.mediawiki
XML	https://github.com/hed-standard/hed-specification/blob/master/hedxml/HED8.0.0.xml

1.4 4. HED Websites

The following is a summary of the HED-related websites

Table 2: HED websites.

Description	Site
Information and documentation	
HED organization website	https://www.hedtags.org
HED organization github	https://github.com/hed-standard
HED specification repository	https://github.com/hed-standard/hed-specification
Examples of HED annotation	https://github.com/hed-standard/hed-examples
HED documentation website	https://github.com/hed-standard/hed-standard.github.io
HED Python resources	
Python code repository	https://github.com/hed-standard/hed-python
Python validator and tools	https://github.com/hed-standard/hed-python/tree/master/hedtools
HED JavaScript resources	
HED JavaScript code	https://github.com/hed-standard/hed-javascript
BIDS validator	https://github.com/bids-standard/bids-validator
HED Matlab resources	
Matlab source code	https://github.com/hed-standard/hed-matlab
Annotator resources	
CTAGGER executable jar	https://github.com/hed-standard/hed-java/raw/master/ctagger.jar
CTAGGER repository	https://github.com/hed-standard/CTagger
Java repository	https://github.com/hed-standard/hed-java
Online HED tools	
Online website	https://hedtools.ucsd.edu/hed
Docker deployment	https://github.com/hed-standard/hed-python/tree/master/webtools/deploy_hed