EEGLAB
RRID:SCR_007292
Type: Tool

Proper Citation

EEGLAB (RRID:SCR_007292)

Resource Information

URL: http://sccn.ucsd.edu/eeglab/index.html
**Description:** Interactive Matlab toolbox for processing continuous and event-related EEG, MEG and other electrophysiological data incorporating independent component analysis (ICA), time/frequency analysis, artifact rejection, event-related statistics, and several useful modes of visualization of the averaged and single-trial data. First developed on Matlab 5.3 under Linux, EEGLAB runs on Matlab v5 and higher under Linux, Unix, Windows, and Mac OS X (Matlab 7+ recommended). EEGLAB provides an interactive graphic user interface (GUI) allowing users to flexibly and interactively process their high-density EEG and other dynamic brain data using independent component analysis (ICA) and/or time/frequency analysis (TFA), as well as standard averaging methods. EEGLAB also incorporates extensive tutorial and help windows, plus a command history function that eases users' transition from GUI-based data exploration to building and running batch or custom data analysis scripts. EEGLAB offers a wealth of methods for visualizing and modeling event-related brain dynamics, both at the level of individual EEGLAB "datasets" and/or across a collection of datasets brought together in an EEGLAB "studyset." For experienced Matlab users, EEGLAB offers a structured programming environment for storing, accessing, measuring, manipulating and visualizing event-related EEG data. For creative research programmers and methods developers, EEGLAB offers an extensible, open-source platform through which they can share new methods with the world research community by publishing EEGLAB "plug-in" functions that appear automatically in the EEGLAB menu of users who download them. For example, novel EEGLAB plug-ins might be built and released to "pick peaks" in ERP or time/frequency results, or to perform specialized import/export, data visualization, or inverse source modeling of EEG, MEG, and/or ECOG data. EEGLAB Features

- Graphic user interface
- Multiformat data importing
- High-density data scrolling
- Defined EEG data structure
- Open source plug-in facility
- Interactive plotting functions
- Semi-automated artifact removal
- ICA & time/frequency transforms
- Many advanced plug-in toolboxes
- Event & channel location handling
- Forward/inverse head/source modeling

**Resource Name:** EEGLAB

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**Resource Type:** Resource, software resource, software toolkit, data processing software, software application

**Keywords:** visualization, eeg modeling, independent component analysis, meg modeling, eeg, erp, spectral decomposition, single-trial, matlab, meg, electrophysiology, format conversion, source separation analysis, fourier time-domain analysis, spectral analysis, temporal wavelet analysis, anova, event related potential, three dimensional display, two dimensional display

**Resource ID:** SCR_007292

**Parent Organization:** Swartz Center for Computational Neuroscience

**Funding Agency:** NINDS

**Related resources:** Neural Maestro, Measure Projection Toolbox, NFT, Source Information
Flow Toolbox, HeadIT, BCILAB, EGGVIS, EYE-EEG (combined eye-tracking & EEG), Libeep EEGLAB plugin, The Bergen fMRI Toolbox Plugin for EEGLab, BVA import/export EEGLAB plugin

**References:** PMID: 15102499

**Availability:** GNU General Public License

**Website Status:** Last checked up

**Alternate IDs:** nif-0000-00076

**Alternate URLs:** http://www.nitrc.org/projects/eeglab/

**Old URLs:** http://www.nitrc.org/projects/incf_eeglab/

**Abbreviations:** EEGLAB

**Mentions Count:** 2681

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**Ratings and Alerts**

- 5 / 5 (1 votes) Rated at NITRC http://www.nitrc.org/projects/eeglab/

No alerts have been found for EEGLAB.

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**Data and Source Information**

**Source:** SciCrunch Registry

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**Usage and Citation Metrics**

We found 2681 mentions in open access literature.

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


