## Epicurrents A JavaScript library for visualizing neurophysiological signals in a web browser



- **Online demo basic features**
- Short usage instructions
- EEG, EMG and NCS studies
- https://demo.epicurrents.io/



- **Online demo** machine learning
- Dataset of neonatal EEG recordings
- Integrated seizure detector (SezNet)

https://demo.epicurrents.io/ai/

## WHAT the EpiCurrents project is

## • A JavaScript library for viewing neurophysiological signals in a web browser.

- Designed to be modular and can be tailored to different use cases.
- Currently capable of displaying EEG, EMG, NCS and SFEMG signals.
- Able to leverage **Python** (including SciPy and MNE) for signal processing.
- Capable of running **ONNX machine learning models**.
- Usable without any special server-side or client-side software.
- For scientific and educational purposes, not for clinical use.
- Free to use and released as open source.

## WHY you might need it

- To offer open access to signal data featured in your publication.
- To facilitate annotation of large datasets with multiple annotators.
- To test inter-rater agreement for series of studies.
- To visually evaluate the performance of machine learning models.
- To utilize real-life data in education.
- Or to use an accessible, platform-agnostic, zero-footprint, and highly customizable neurophysiological signal viewer for some other purpose.

HOW to gain access

- Check the project's online resources:
  - EpiCurrents.io General information, manuals and stable releases (soon).
  - GitHub.com/epicurrents/ Source code repository for developers.
- For more information, contact the project maintainer (details below).



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https://epicurrents.io https://github.com/epicurrents/

