

EpiCurrents

A modular JavaScript library for viewing EEG and other neurophysiological signals

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Project description

EpiCurrents is an **open-source JavaScript** library for displaying neurophysiological signals in a **web browser**. It is **modular** in design, and support for different test types and file formats can be included or left out depending on the use case. Modules for other diagnostic modalities, such as radiological and isotope imaging or pathology, may also be added in the future. With the ability to run **Python** code and ONNX **machine learning** models, the library is ready to be used for teaching AI-assisted workflows.

A teaching tool for EEG

An incorrect positive diagnosis of epilepsy can be devastating to a patient. Over-reading normal or artefactual EEG findings as abnormalities plays an important part in many misdiagnoses. Accessible and comprehensive training in recording or reading EEG is not always available, especially in low-resource settings.

Case: EEGonline is a distance learning platform primarily aimed at healthcare professionals working with EEG in Sub-Saharan Africa and other resource-poor settings. It is developed and maintained by the University of Cape Town and the Neurological Association of South Africa. Their next generation course will utilize EpiCurrents for interactive EEG examples, hopefully leading to an even more immersive learning experience.

Find out more at studyeegonline.com.

<https://epicurrents.io> // Project website
[epicurrents on GitHub](#) // Source code
[@epicurrents on npm](#) // Packages

CONTACT

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EpiCurrents.io



On the project website you can find:

- Documentation and user guides.
- Examples and feature demonstrations.
- Stable software releases.
- Project updates and other news.

Licensing

EpiCurrents is licenced under the highly permissive Apache 2.0 open-source software license.



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