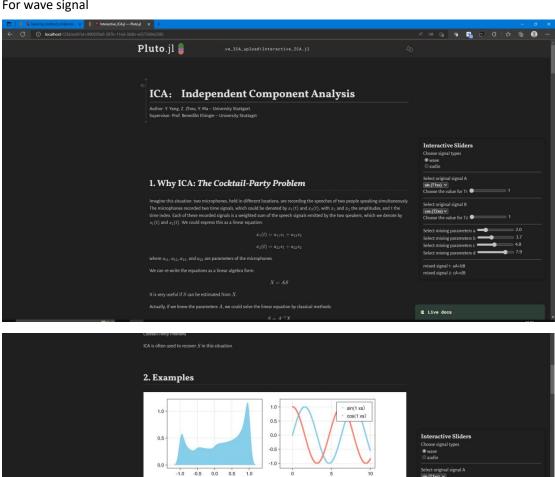
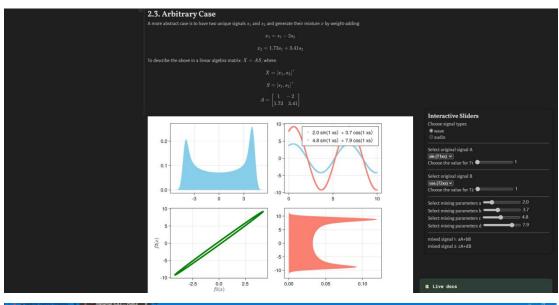
Experiment for EEG lab

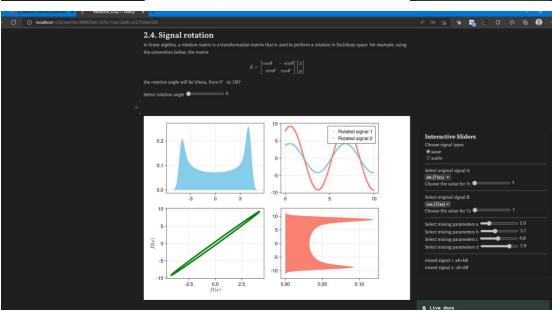
Author: Y. Yang, Z. Zhou, Y. Ma - University Stuttgart. Supervisor: Prof. Benedikt Ehinger - University Stuttagrt

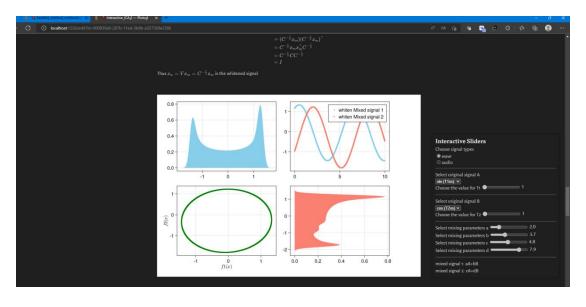
LAB1: ICA Algorithm

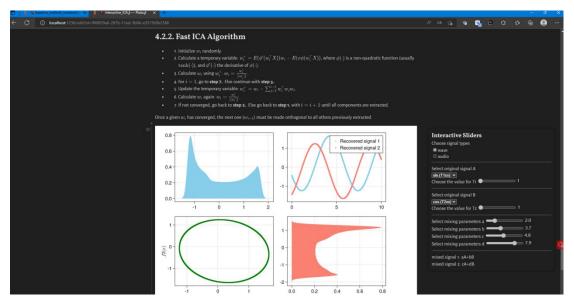
For wave signal



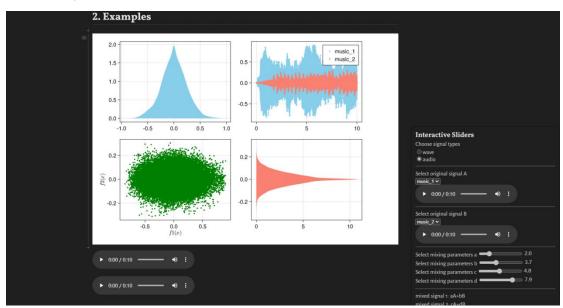


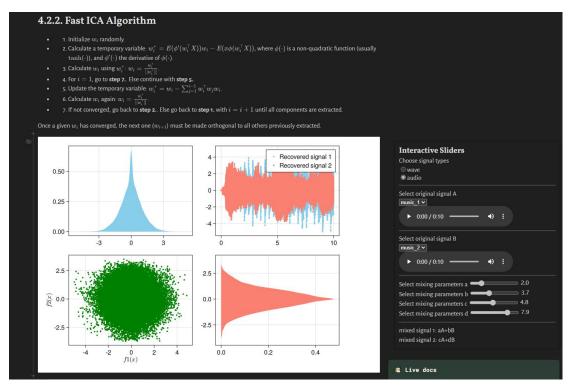




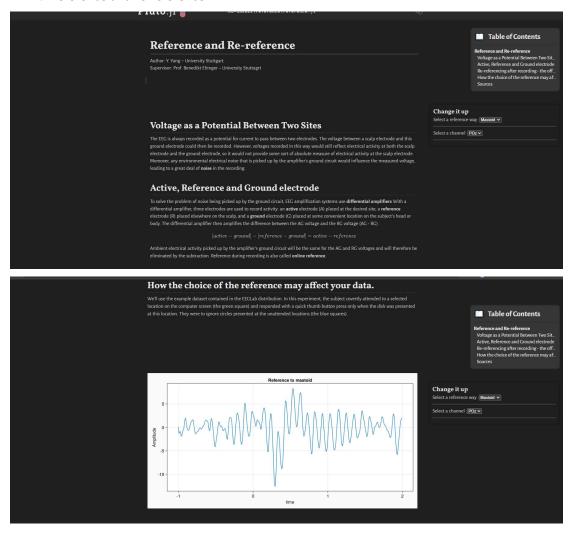


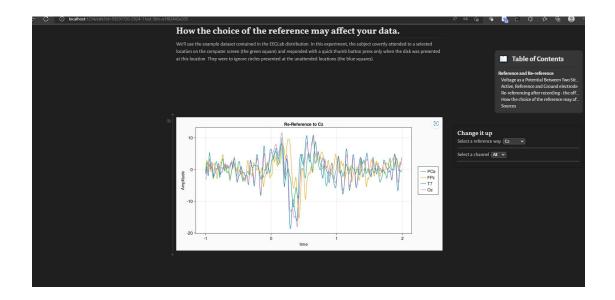
For audio signal



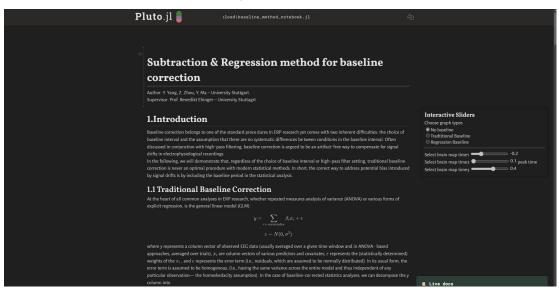


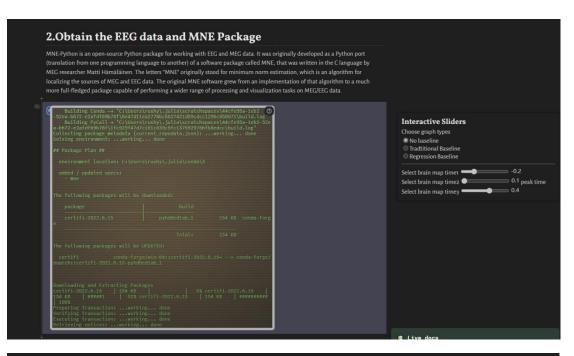
LAB2: reference and re-reference

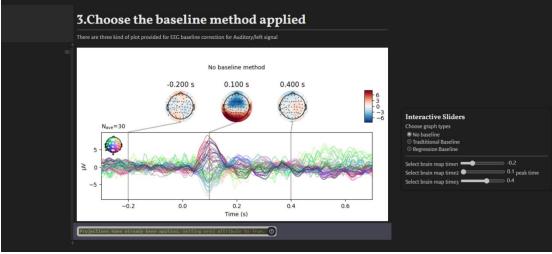


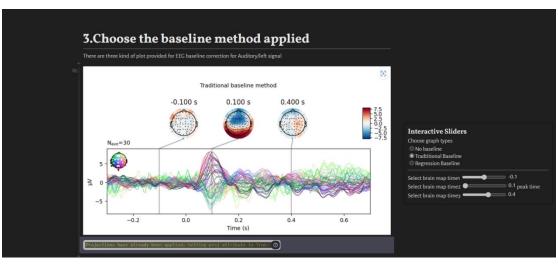


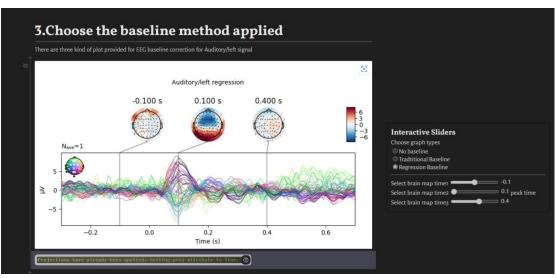
LAB3: Traditional baseline method and regression baseline method

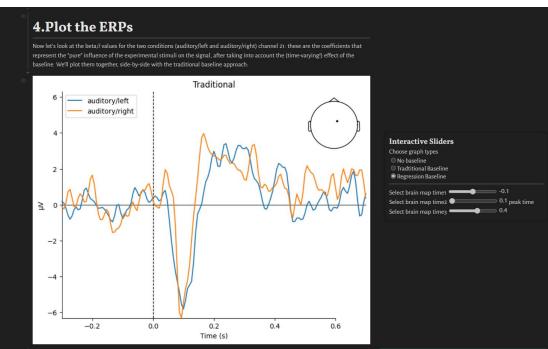


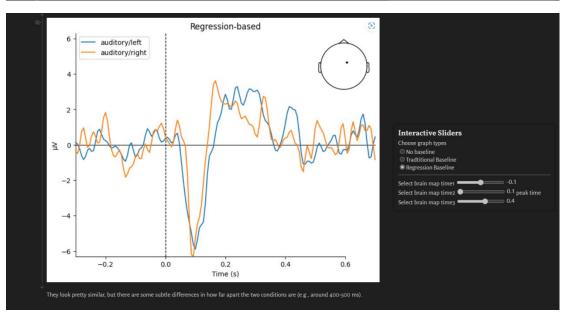


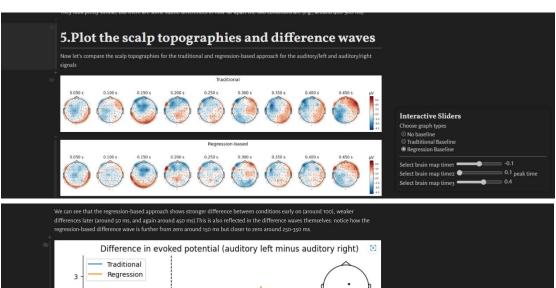


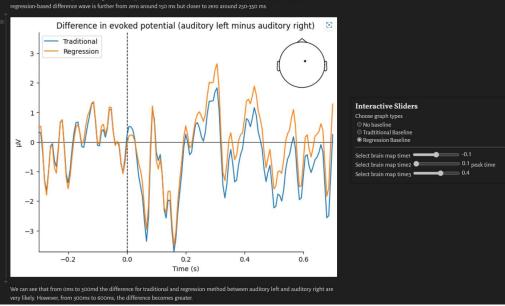












We can see that from oms to 300md the difference for traditional and regression method between auditory left and auditory right are very likely. However, from 300ms to 600ms, the difference becomes greater.

6. Sources

HTML: MNE-Python

HTML: Regression-based baseline correction

HTML: JuliaPy/PyCall.

PDF. (How much baseline correction do we need in ERP research? Extended GLM model can replace baseline correction while lifting its limits

Interactive Sliders Choose graph types No baseline Traditional Baseline Regression Baseline Select brain map times Select brain map times 0.1 peak time Select brain map times 0.4