

Tutorial: Mobile EEG Tools for SSVEP research

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Abstract / Short description (max. 150 words)

The goal of this brief tutorial is to give you an idea of how mobile EEG can bring Neuroscience research closer to “real life”. We will focus on Steady State Evoked Potentials (SSVEPs), a widely studied and reliable signature of visual processes. Combining innovative mobile EEG development and research, we will show you in real time how to implement such a design. The tutorial includes an overview and live demo of the wearable sensor Explore, a real time implementation of an SSVEP-BCI paradigm, the application of custom shutter glasses for a fully mobile SSVEP solution, and more.

Keywords (max. 5)

Mobile Brain/Body Imaging

Wearable EEG

SSVEP

Prerequisites (if any; or none)

Basic knowledge of EEG methods and programming is recommended.

Course Schedule (September 12th, 14:00h – 16:00 CET)

Day 1 (Sunday, Sep 12th)

14:00	Mobile EEG technology: Mentalab Explore
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15:00	Recording SSVEPs in a mobile setting
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Maximum Intake

Unlimited.

Recommended Reading

1. ExplorePy’s documentation:

<https://explorepy.readthedocs.io/en/latest/>

