

# An Introduction to PsychoPy

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## Aims

This course aims to introduce students to the experimental software PsychoPy. PsychoPy is a GUI-based software for building psychological and neuroscientific experiments making it easy to create experiments with little to no programming knowledge. As it is written in the Python programming language, PsychoPy also allows Python code to be seamlessly included in experiments, enabling more complex designs to be realized. By the end of the course, students should be able to create their own experiments in PsychoPy.

## Requirements

- A technical device with the current PsychoPy Version (2024.2.4) installed

## Date and Time:

- 16th January 2026, 09:00 to 15:00

## Curriculum

Note: Each topic will include hands-on practices

- 09:00 - 09:30: **Welcome to PsychoPy!** (installation, sources, structure of software, ...)
- 09:30 - 10:30: **Creating your first experiment** (stimulus presentation, including external stimulus material, response collection, varying conditions trial-wise, counterbalancing, ...)
- 10:30 - 11:45: **Integrating Python code** (providing feedback, frame-wise feature manipulation, save additional data, ...)
- 11:45 - 13:00: **Lunch break**
- 13:00 - 13:45: **Beyond keypresses** (mouse clicks and movement trajectories, microphone, webcam, ...)
- 13:45 - 14:00: **Implementing EEG-Experiments in PsychoPy** (EEG triggers, parallel port vs. serial port, ...)
- 14:00 - 14:30: **fMRI studies in PsychoPy** (detecting triggers from the scanner, timing, ...)
- 14:30 - 15:00: **Questions?**