SR Research
EyeLink®

The European Society
for Cognitive Psychology

OpenSesame
A graphical experiment builder for the social sciences

Sebastiaan Mathôt

Workshop schedule
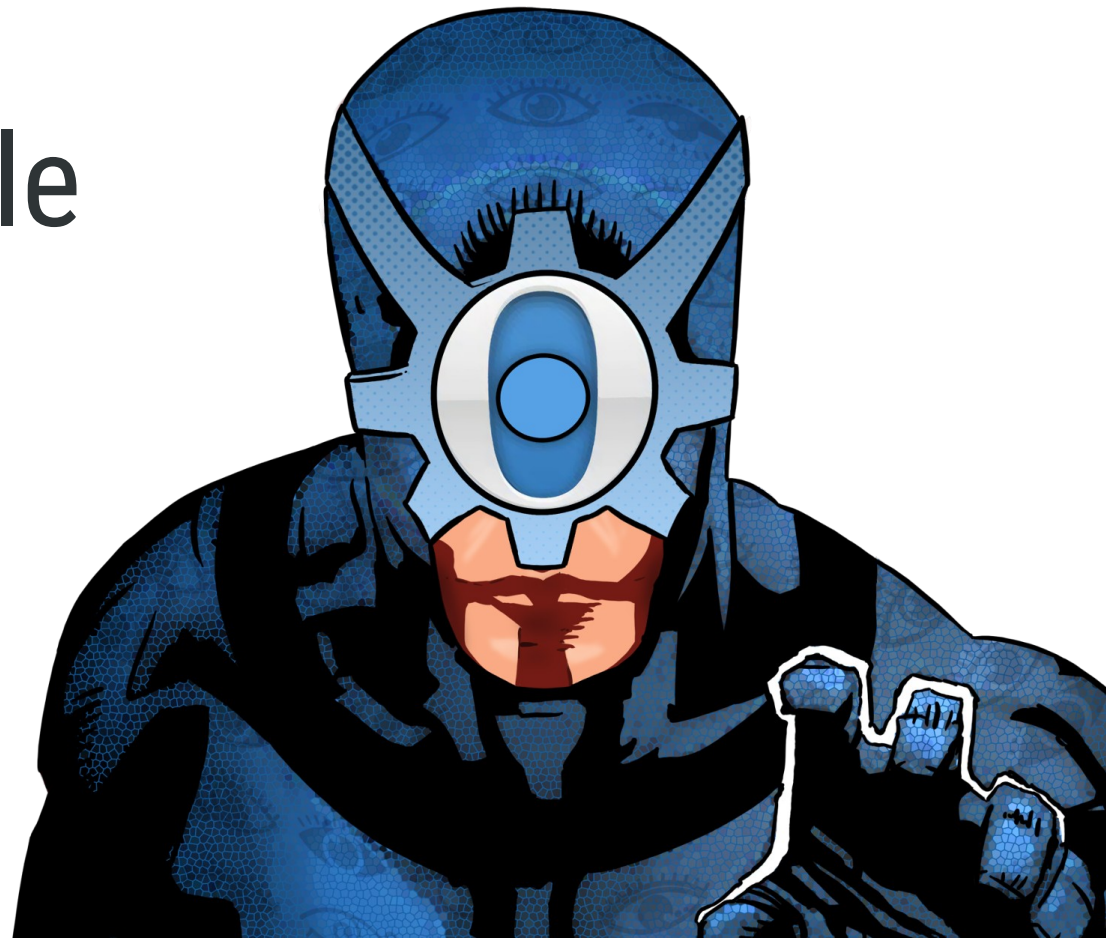
Workshop schedule

- Workshop website
  - https://osdoc.cogsci.nl/leuphana2021/
- Today
  - Introduction
- Nov 17
  - Online experiments
- Nov 24
  - Eye tracking
- All three days
  - Working on your own experiment!

Leuphana 2021 workshop

- Practical information
- Description
- Program
  - Day 1 (Nov 10): Introduction
  - Day 2 (Nov 17): Online experiments
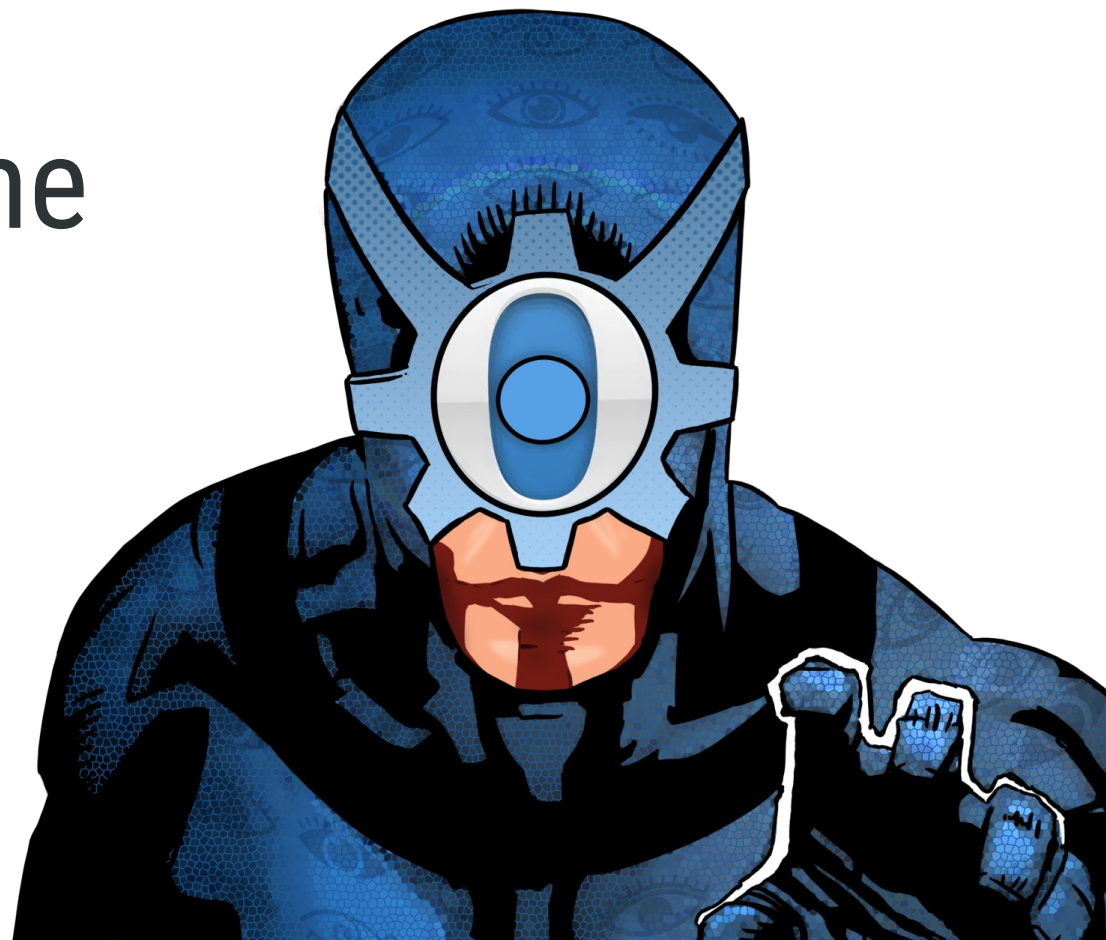 - Day 3 (Nov 24): Eye-tracking experiments

Practical information

- Host: Leuphana Universität Lüneburg
- Location: online
- Dates: Nov 10, 17, and 24, 13:00 – 17:00
- Presenter: Sebastiaan Mathôt
- Spreadsheet with participant overview

Description

In this three-day, hands-on, online workshop, you will learn
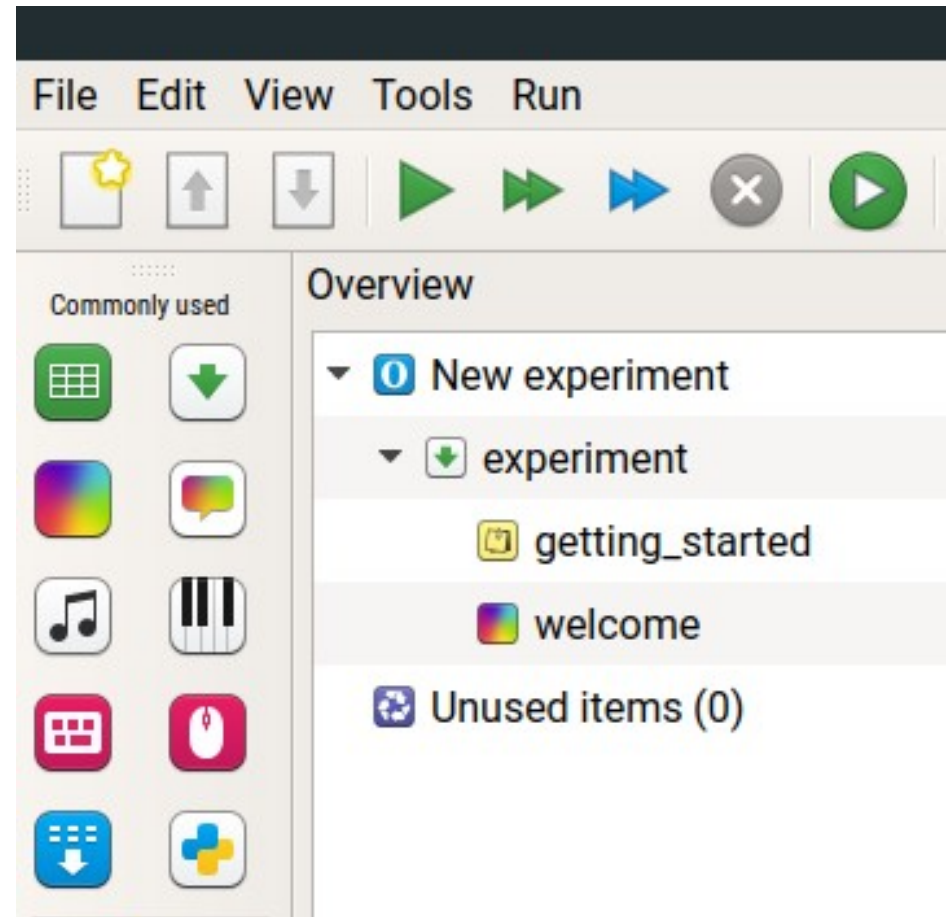
About OpenSesame

About OpenSesame

- A graphical experiment builder

- Drag-and-drop, point-and-click

- Complement with Python scripting
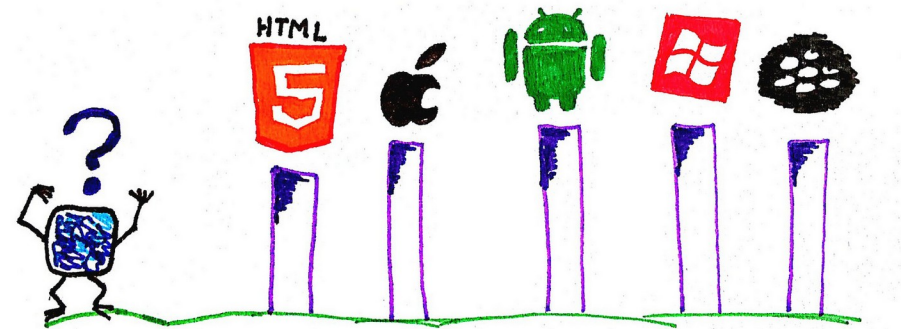
- Or with JavaScript

About OpenSesame

- Open source

- Free of charge

- Source code available

About OpenSesame

- Cross platform
  - Windows
  - Mac OS
  - Linux
  - Browser

About OpenSesame

- Fits **many types of research**

  - Psychophysics

  - Neuroimaging

  - Social psychology
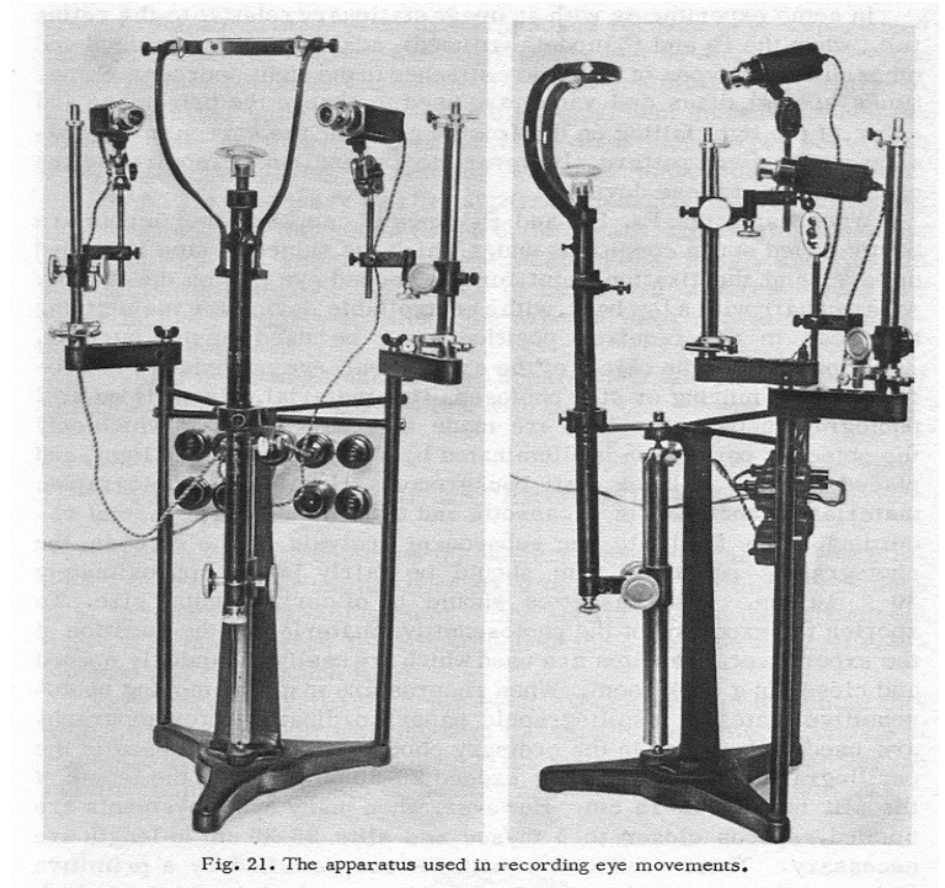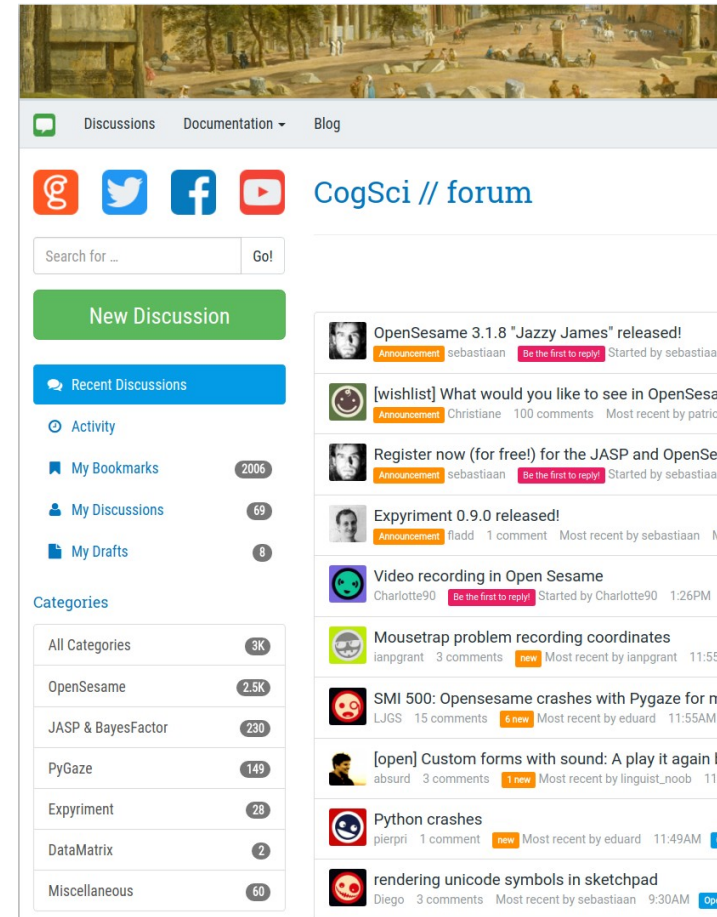
  - Clinical applications

  - Eye tracking

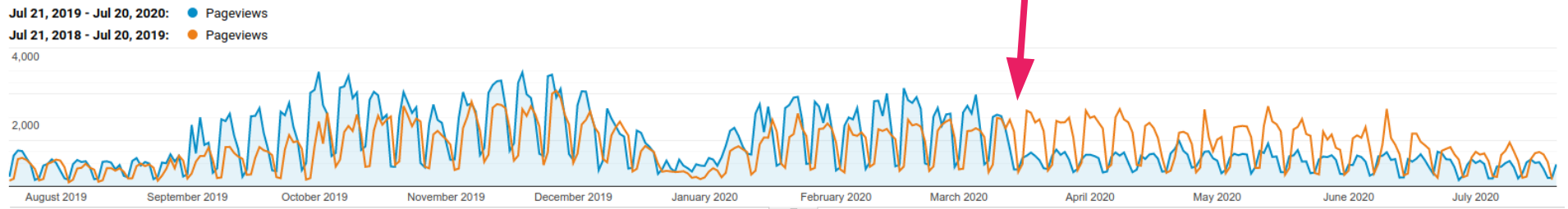Fig. 21. The apparatus used in recording eye movements.

Support

- Documentation
  - https://osdoc.cogsci.nl/
- Community
  - https://forum.cogsci.nl/
  - Shared with JASP, PyGaze, and other free software
  - ±8,500 members, daily activity, very responsive
  - ±400,000 yearly launches

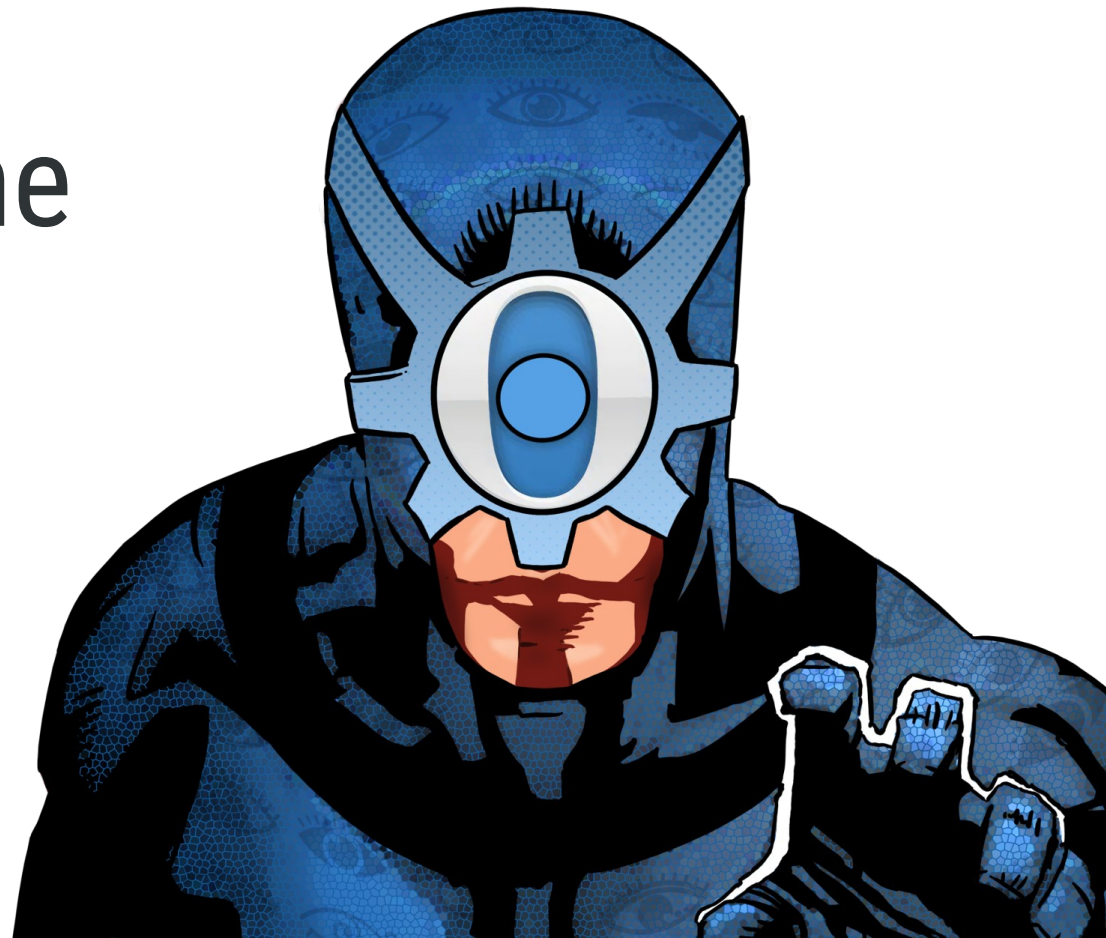# OpenSesame (and COVID19)

Jul 21, 2019 - Jul 20, 2020: ● Pageviews
Jul 21, 2018 - Jul 20, 2019: ● Pageviews

4,000

2,000

August 2019 | September 2019 | October 2019 | November 2019 | December 2019 | January 2020 | February 2020 | March 2020 | April 2020 | May 2020 | June 2020 | July 2020
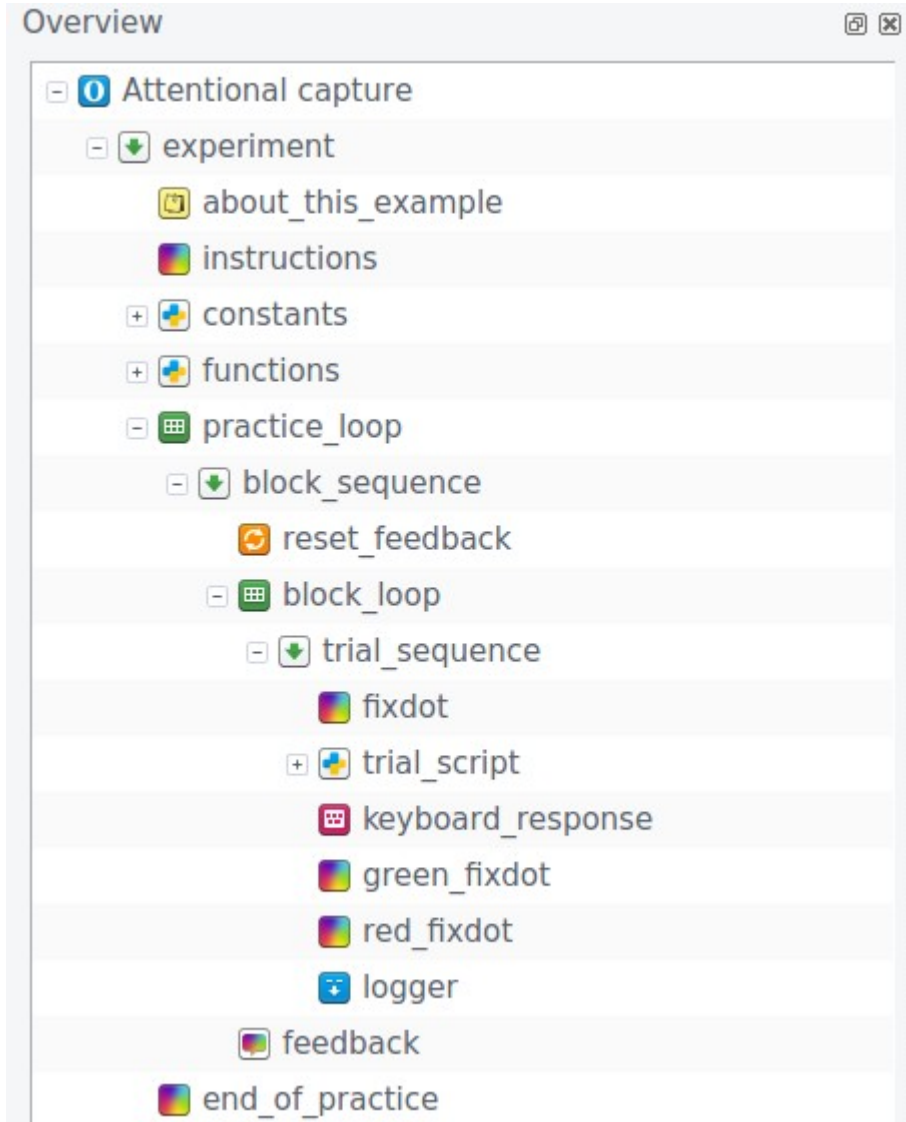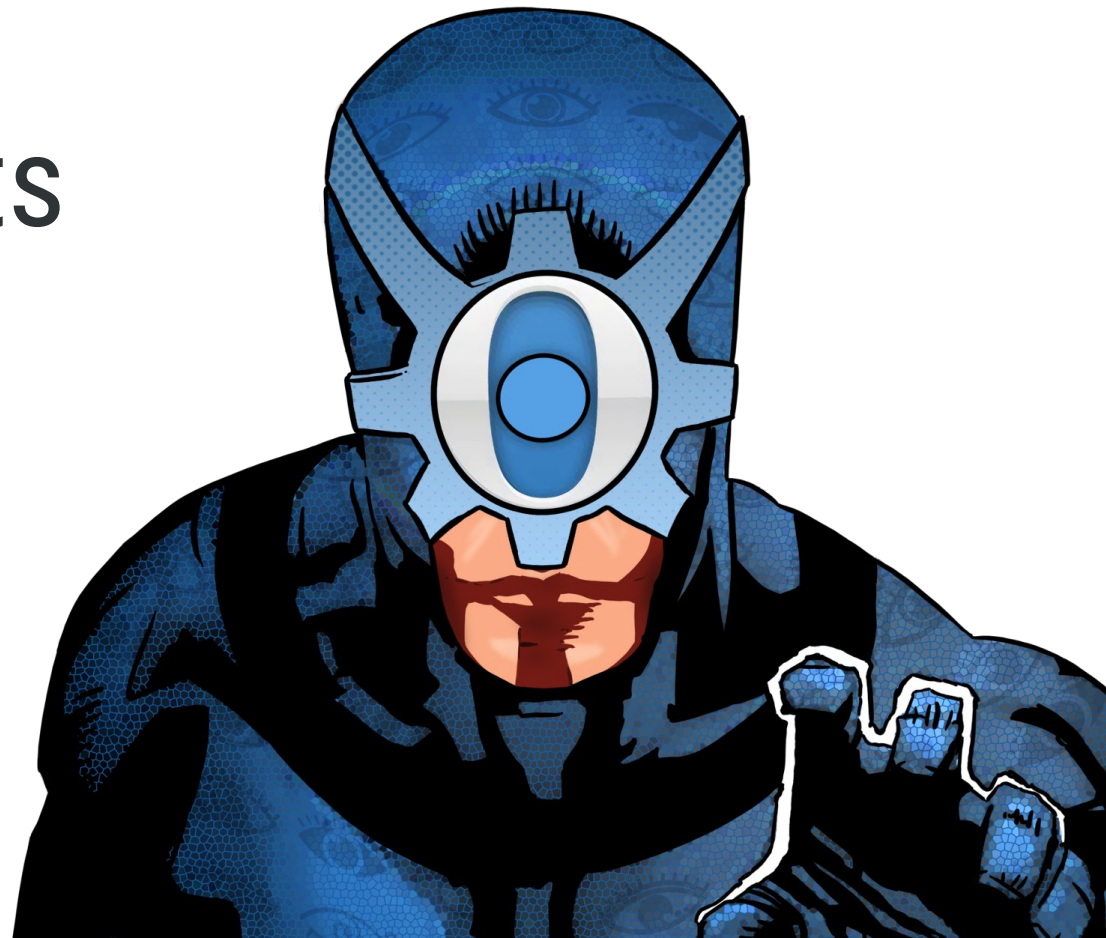
Using OpenSesame

Items

- **Items** are building blocks
- One item does one thing
  - Visual stimuli
  - Response collection
  - Etc.
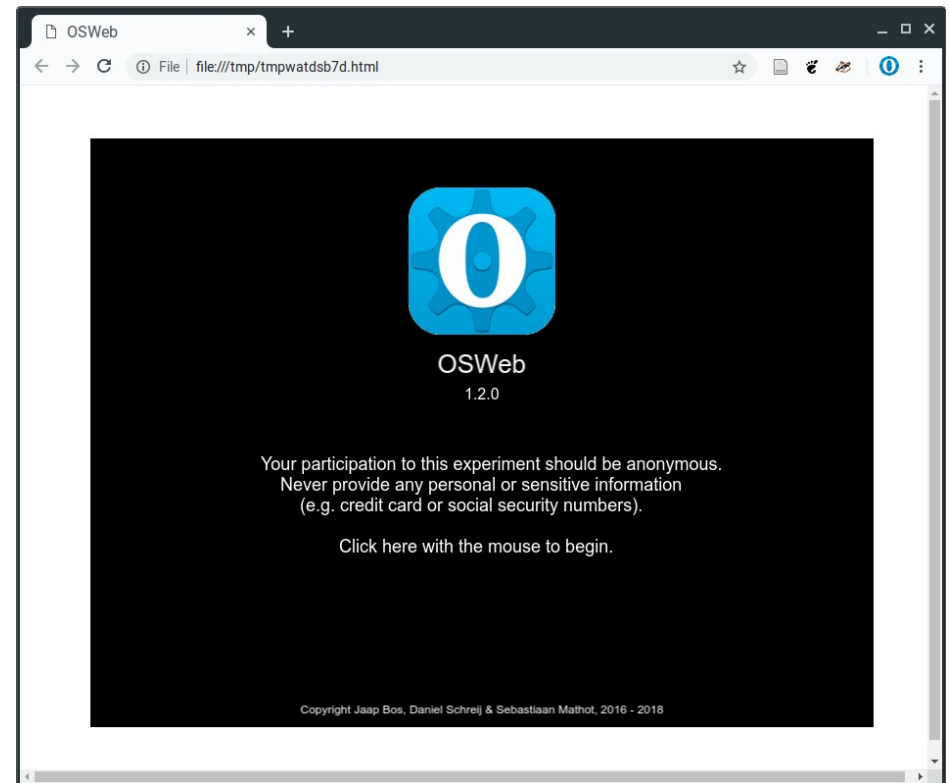- An experiment is a collection of items

Online experiments
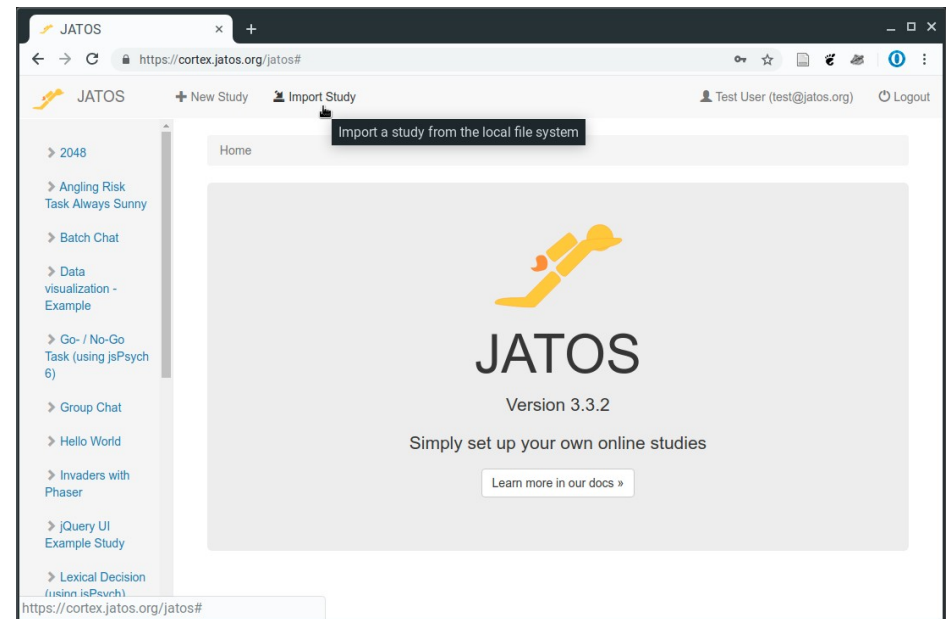
Online experiments

- **OSWeb** is a JavaScript runtime for OpenSesame experiments
  - Day 2, Nov 17
- Supports a subset of functionality
  - No inline Python script
  - But (basic) inline **JavaScript**!

Online experiments

- **JATOS** is a server that manages online experiments

- **https://mindprobe.eu** is a free JATOS server
  - Sponsored by ESCOP and OpenSesame

- You will get an account for this workshop
  - And to use afterwards!

Let's get to work!