



university of  
 groningen

faculty of behavioural  
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# Introduction to OpenSesame

## Session 3

Sebastiaan Mathôt



[cogsci.nl/smathot](https://cogsci.nl/smathot)



[cognitivescience](https://cognitivescience)



[@smathot](https://github.com/smathot)



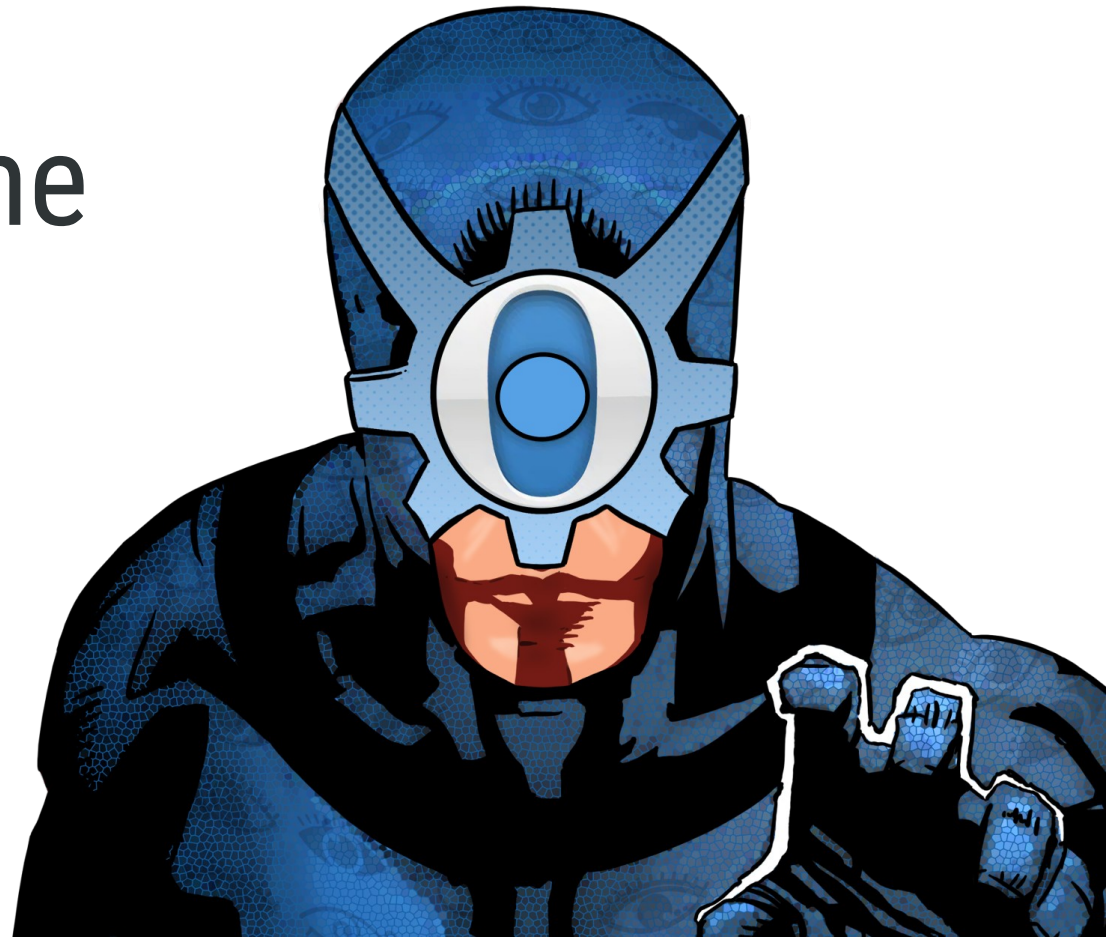
[@cogscinl](https://twitter.com/cogscinl)



[sebastiaanmathot](https://youtube.com/sebastiaanmathot)



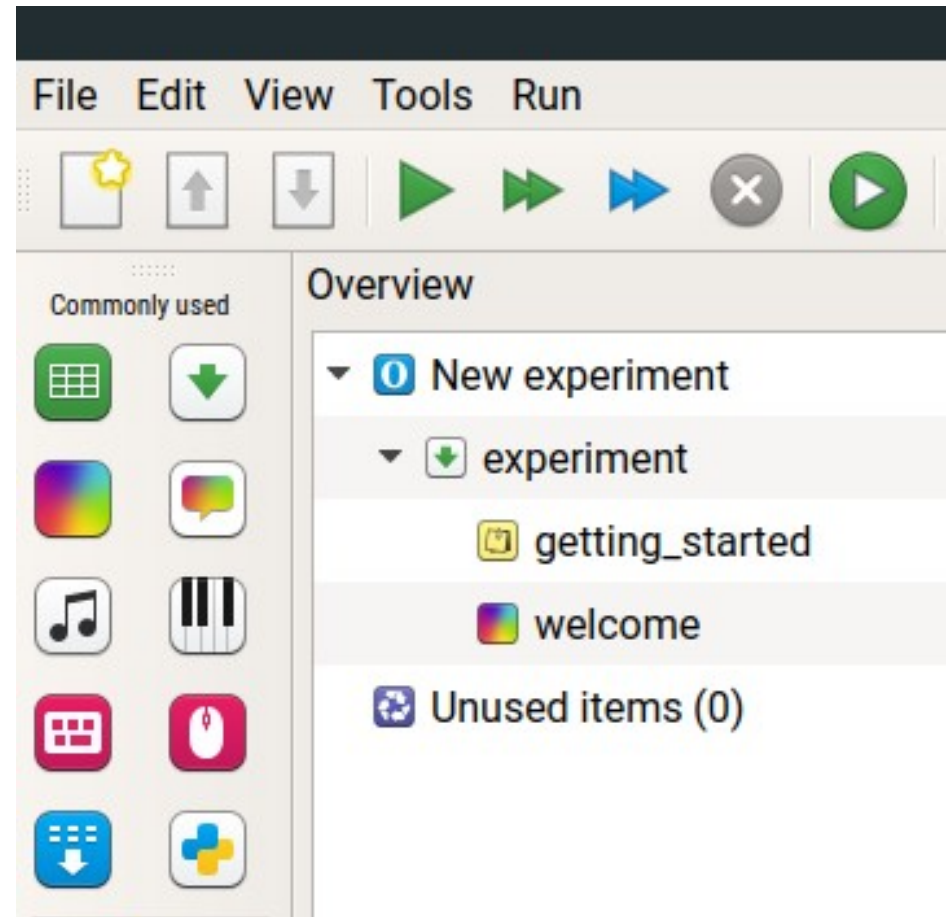
# About OpenSesame



# About OpenSesame



- A graphical experiment builder
- Drag-and-drop, point-and-click
- Complement with Python scripting
  - Tomorrow (Session 5)
- Or with JavaScript
  - Tomorrow (Session 6)



# About OpenSesame



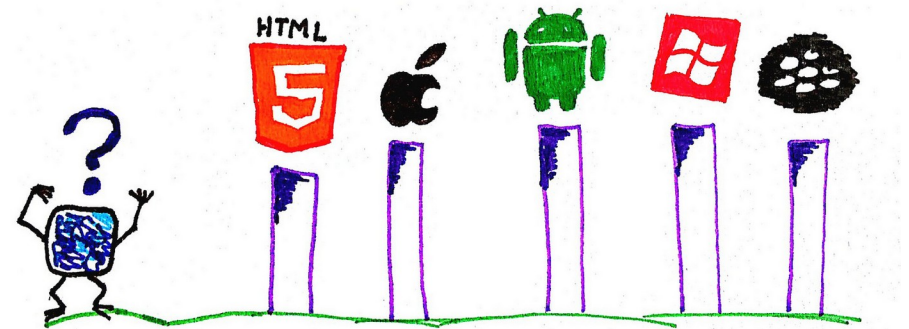
- Open source
- Free of charge
- Source code available



# About OpenSesame



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



# About OpenSesame



- Fits many types of research
  - Psychophysics
  - Neuroimaging
  - Social psychology
  - Clinical applications
  - Eye tracking

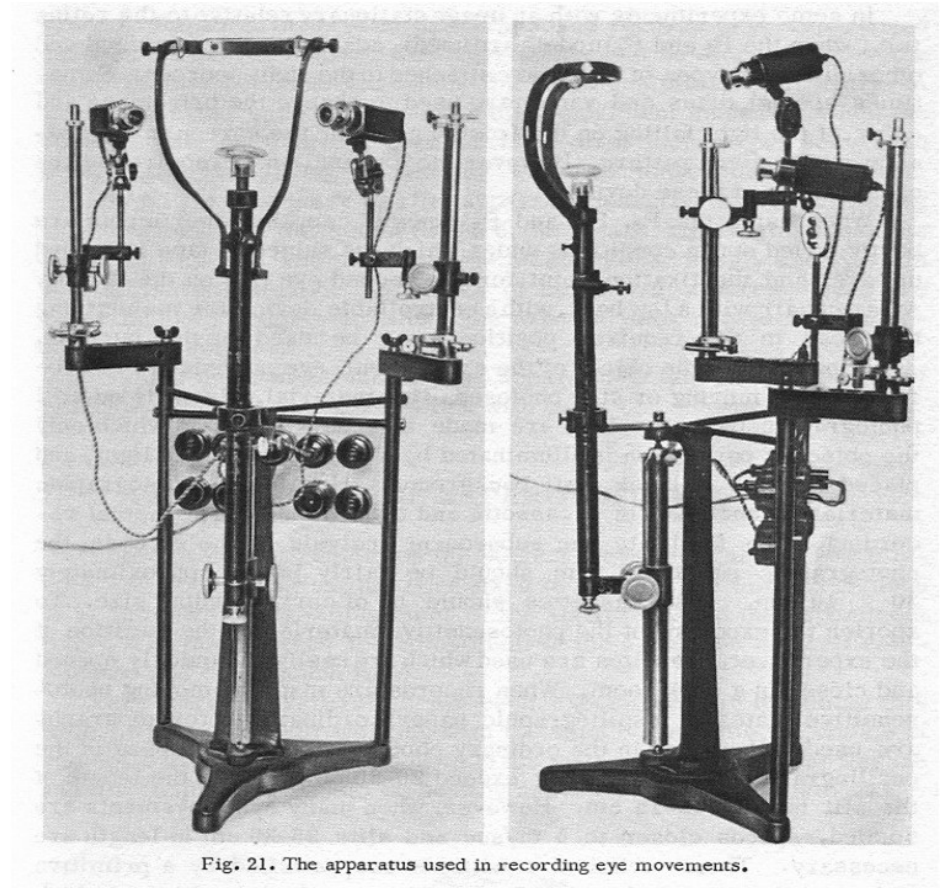


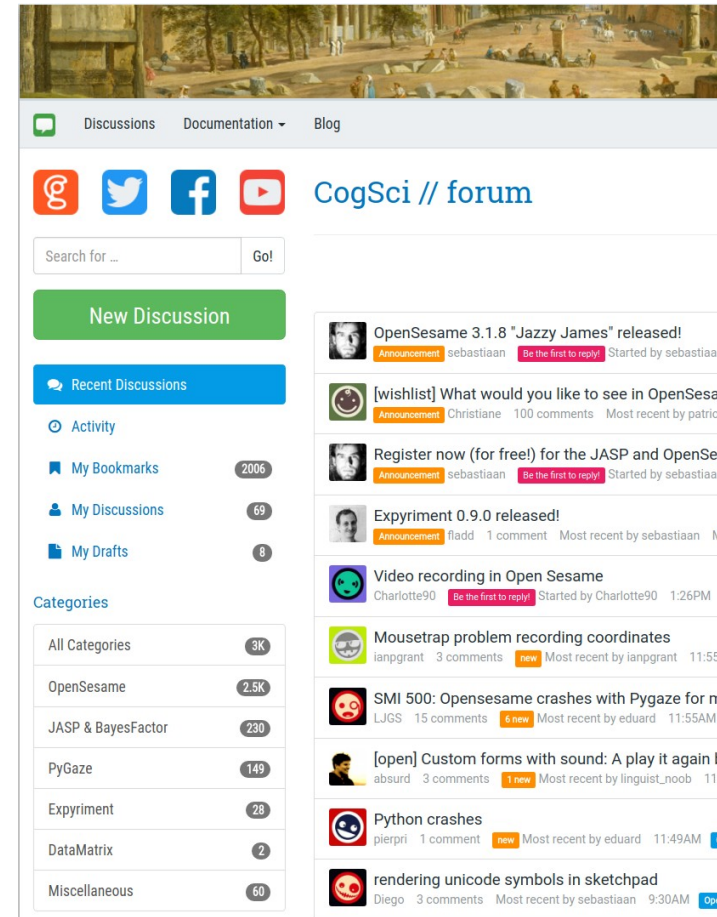
Fig. 21. The apparatus used in recording eye movements.



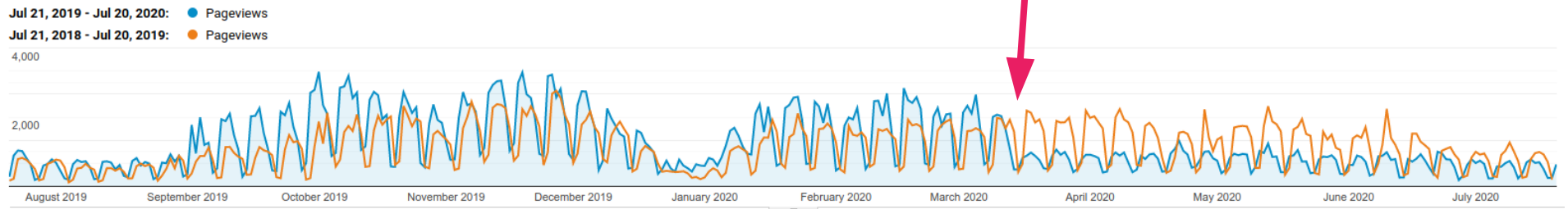
# Support



- Documentation
  - <https://osdoc.cogsci.nl/>
- Community
  - <https://forum.cogsci.nl/>
  - Shared with JASP, PyGaze, and other free software
  - $\pm 6,800$  members, daily activity, very responsive
  - $\pm 400,000$  yearly launches



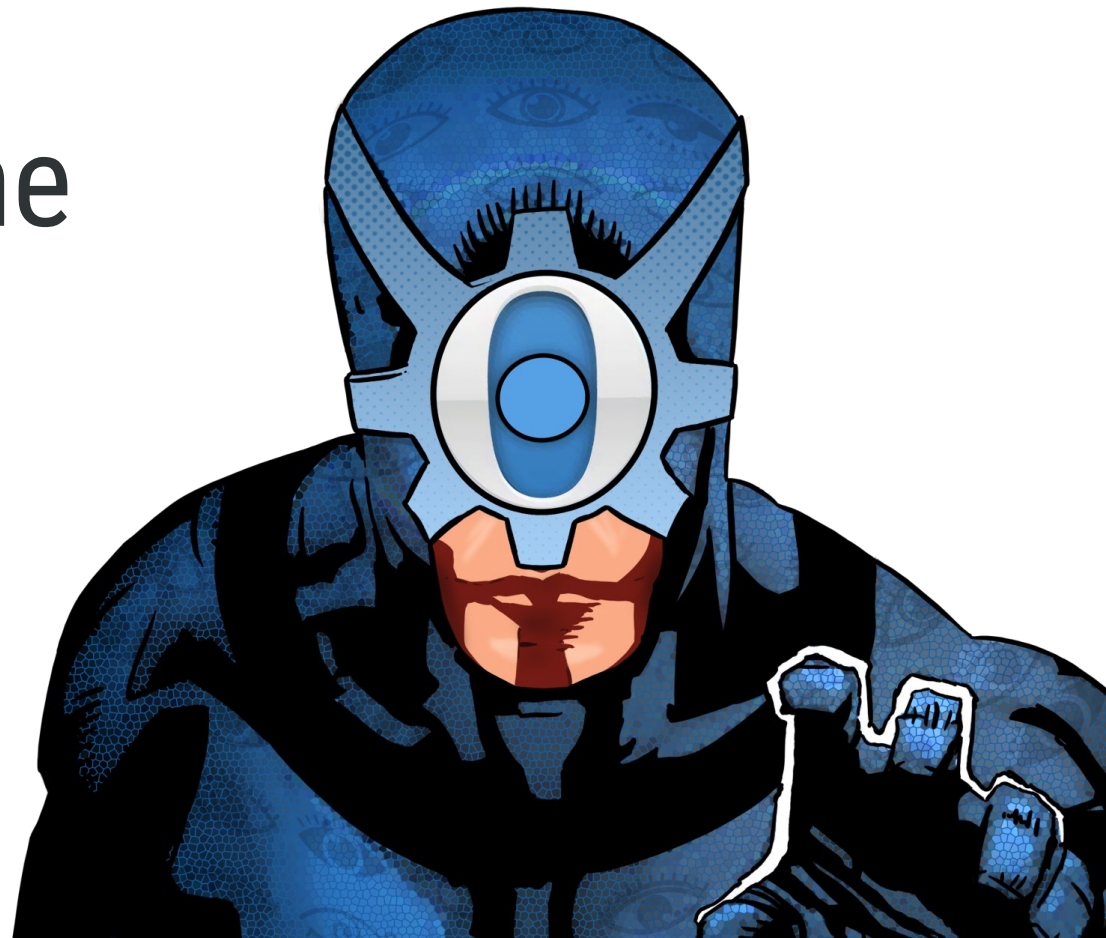
# OpenSesame (and COVID19)







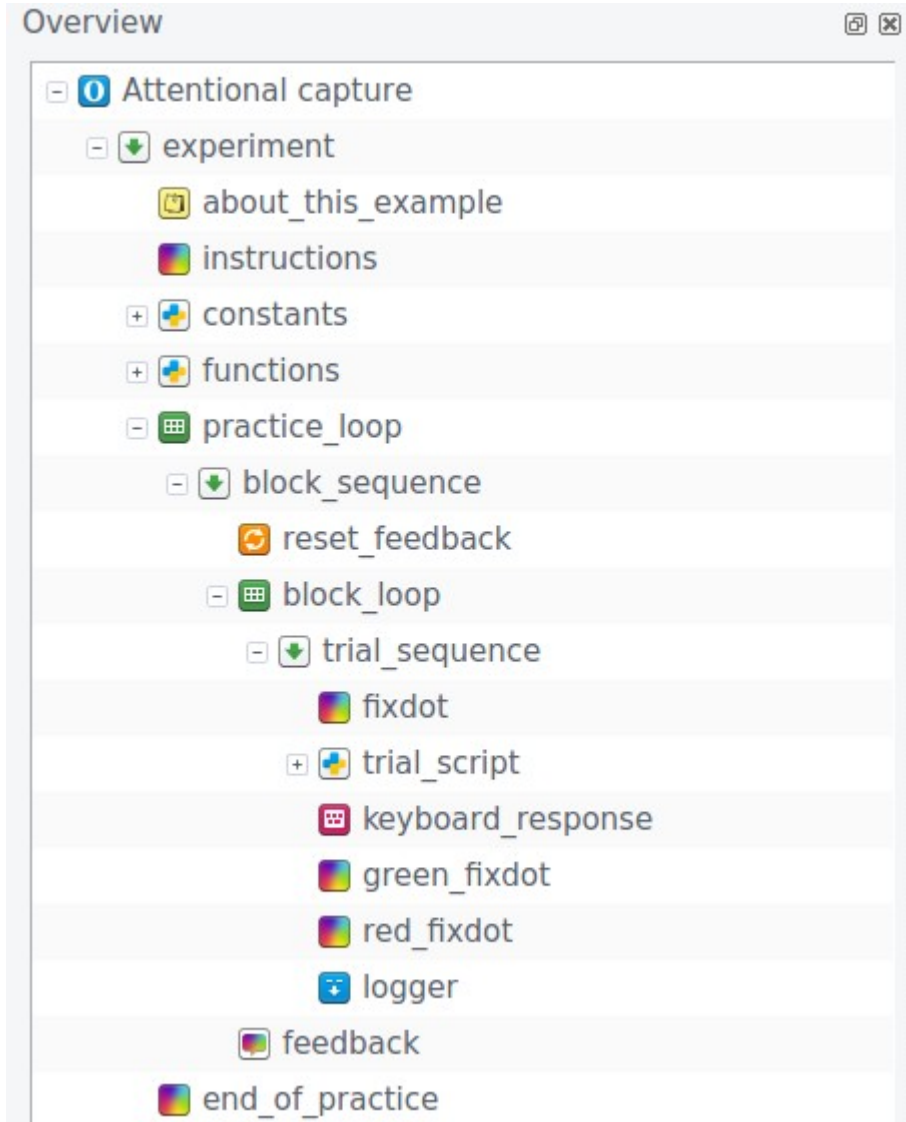
# Using OpenSesame



# Items



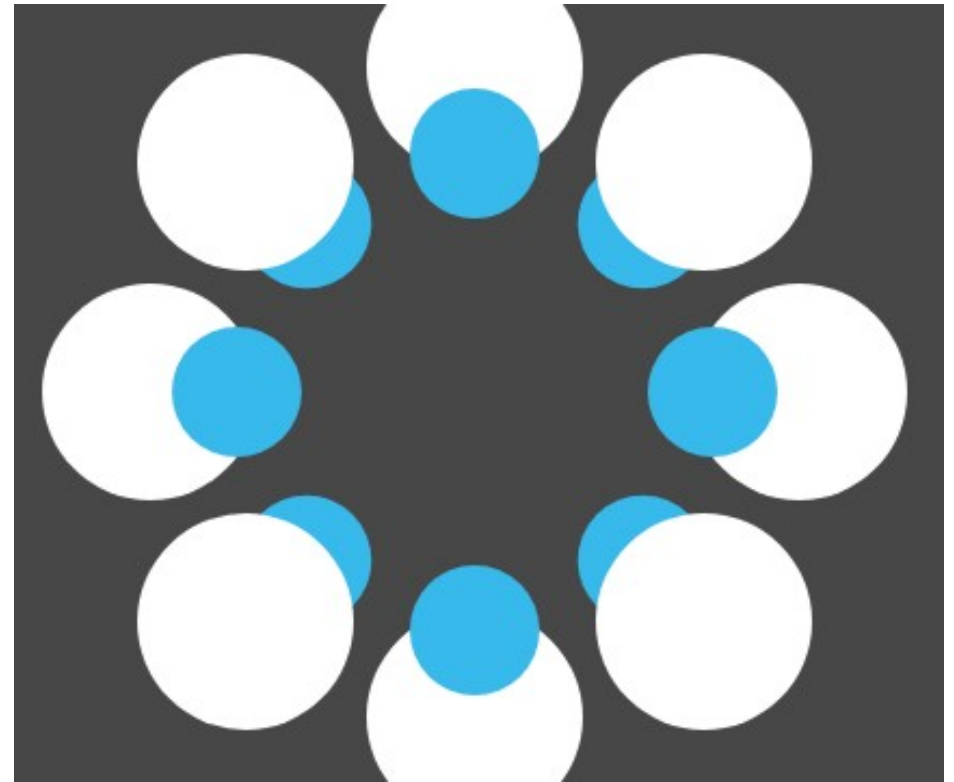
- **Items** are building blocks
- One item does one thing
  - Visual stimuli
  - Response collection
  - Etc.
- An experiment is a collection of items



# Open Science Framework

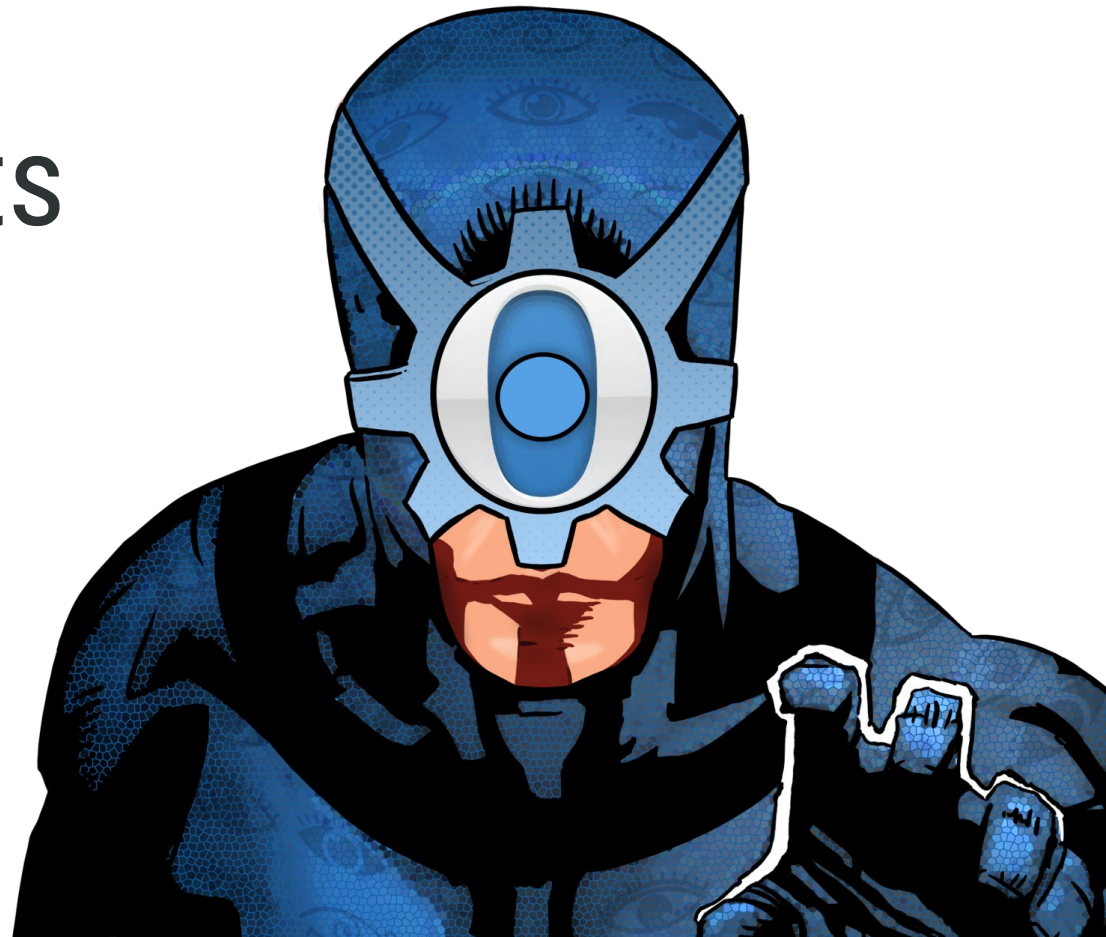


- The **OSF** is a free science repository
- You can log into the OSF from within OpenSesame
- And **automatically synchronize**
  - Experiment files
  - Data files
- OSF repositories can be private!





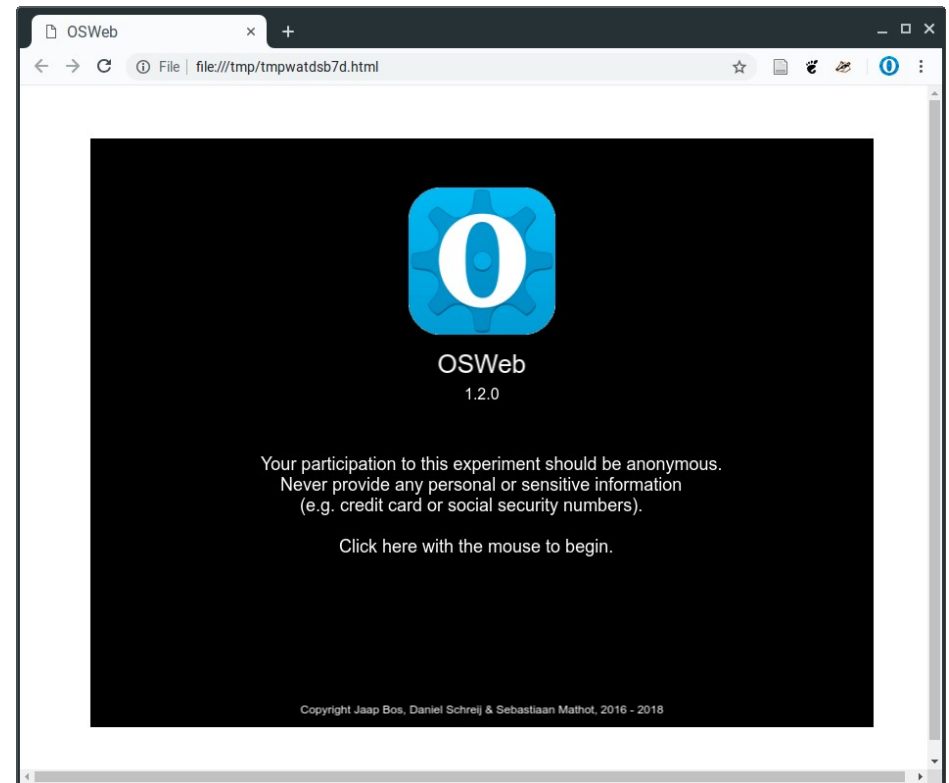
# Online experiments



# Online experiments



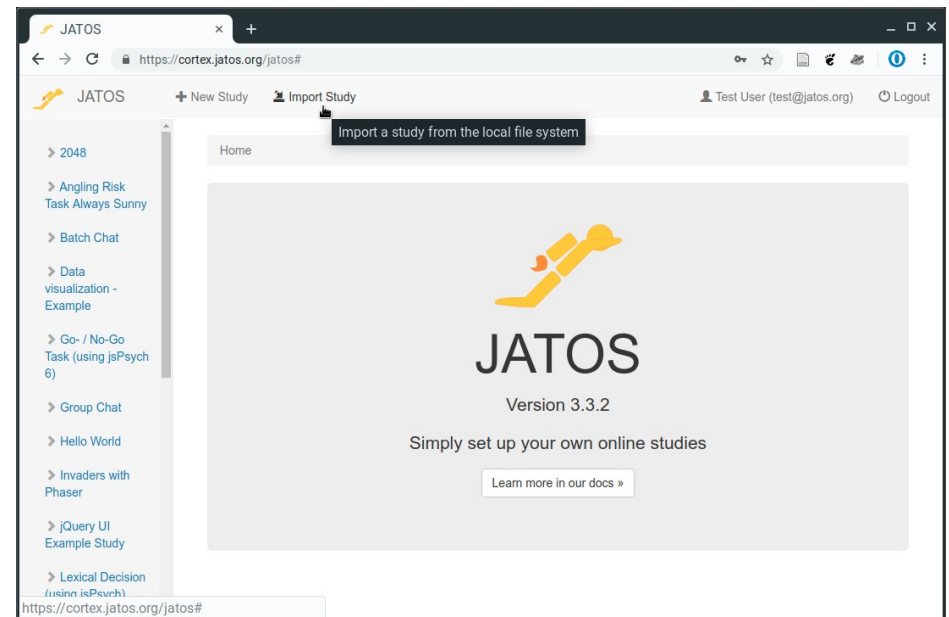
- **OSWeb** is a JavaScript runtime for OpenSesame experiments
- Supports a subset of functionality
  - No inline Python script
  - But (basic) inline **JavaScript!**



# Online experiments



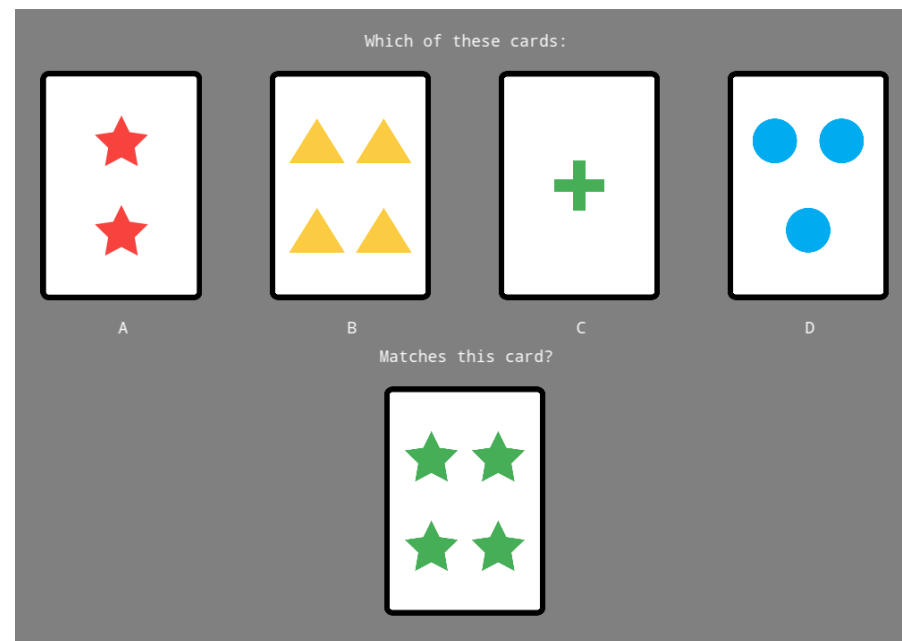
- **JATOS** is a server that manages online experiments
  - Day 3 (Session 8)



# Hands-on sessions



- Let's go to <https://osdoc.cogsci.nl/3.3/tutorials/wcst-python/>
- We will do the first steps together
- Then you're on your own!







# Thank you!

For more information, visit  
<https://osdoc.cogsci.nl/>

