

What is psychopy?

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What stimulus presentation software should I choose?

Name	Free	Platform	GUI	Scripting
E-Prime	No	Windows	Yes	E-Basic
Presentation	No	Windows	Yes	Custom
DirectRT	No	Windows	Yes	Custom
Experiment Builder	No	Windows	Yes	Python
Inquisit	No	Windows	Yes	Custom
SuperLab	No	Windows	Yes	Custom
Vision Egg	No	All	No	Yes
MEL	No	IBM PC	No***	Custom
MATLAB Psychophysics Toolbox	Yes**	All	No	MATLAB
Cogent	Yes**	Windows XP!	No	MATLAB
DMDX	Yes*	Windows	No	Custom
PsyToolkit	Yes	Linux	No	Custom
PsyScope	Yes	Mac OS	Yes	Custom
PyEPL	Yes	Mac, Linux	No	Python
Tscope	Yes	Windows****	No	C/C++
PEBL	Yes	All	No	Custom
PsychoPy	Yes	All	Yes	Python
OpenSesame	Yes	All	Yes	Python

Which stimulus presentation software should I choose?

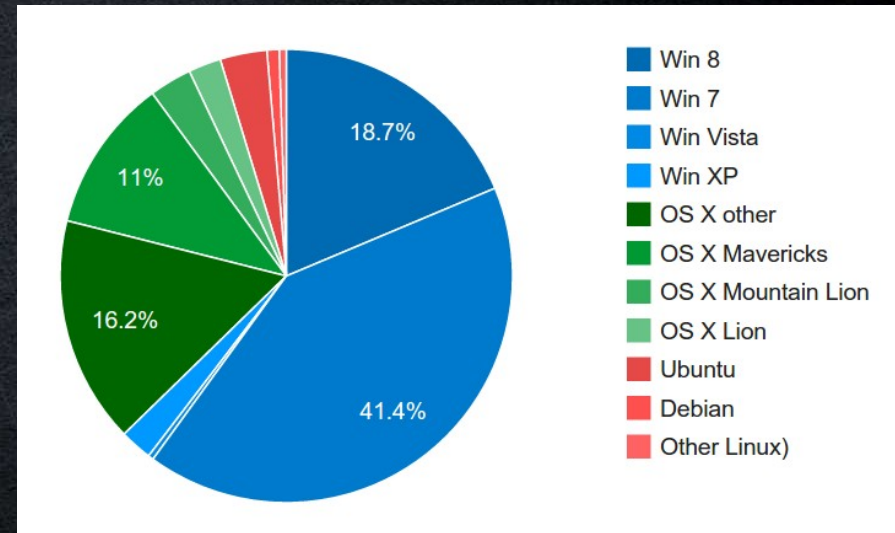
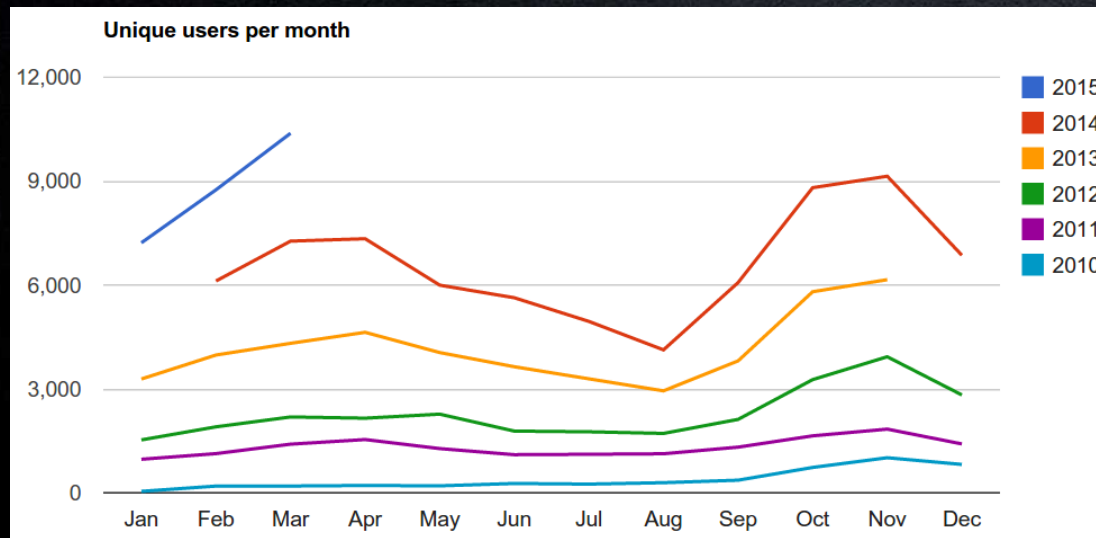
Name	Free	Platform	GUI	Scripting	Score
E-Prime	No	Windows	Yes	E-Basic	1
Presentation	No	Windows	Yes	Custom	1
PsyToolkit	Yes	Linux	No	Custom	1
Vision Egg	No	All	No	Python	2
MATLAB Psycho-physics Toolbox	Yes**	All	No	MATLAB	2
Cogent	Yes**	Windows XP	No	MATLAB	2
PyEPL	Yes	Mac, Linux	No	Python	2
OpenSesame	Yes	All	Yes	Custom	3
PsychoPy	Yes	All	Yes	Python	4

Adapted from Mathôt, S., Schreij, D., & Theeuwes, J. (2011). OpenSesame: An open-source, graphical experiment builder for the social sciences. Behavior Research Methods.

PsychoPy! Here's additional reasons why:

- **Timing to frames:** ability to time-lock visual stimuli to monitor frames instead of milliseconds.
- **Actual stimulus appearance:** specify/calibrate monitor properties and use "deg" as unit.
- **Power of Python:** statistics, visualizations or web? Only an "import" away!
- **Active development:** updates about every month. Fast bugfixing.

Usage

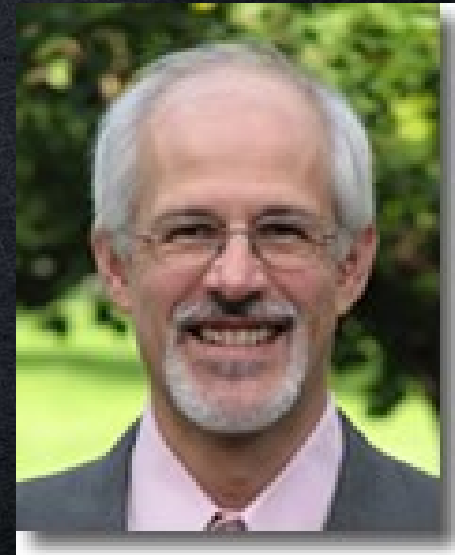


Developers

Jonathan Pierce



Jeremy Gray

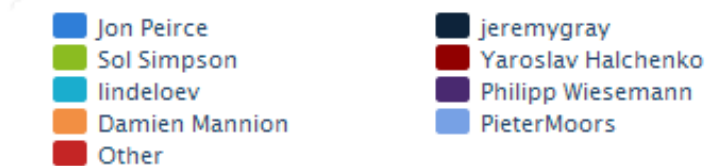
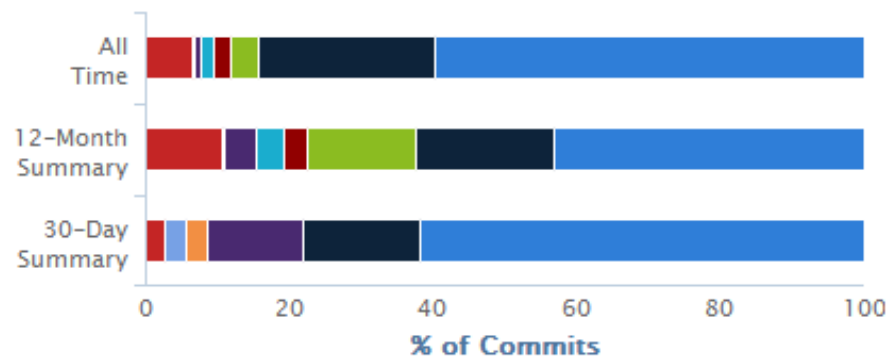


and Mike MacAskill, Sol Simpson, Yaroslav Halchenko, Jonas Lindeløv, Erik Kastman, William Hogman, Hiroyuki Sogo, and many more...

Developers

Contributors

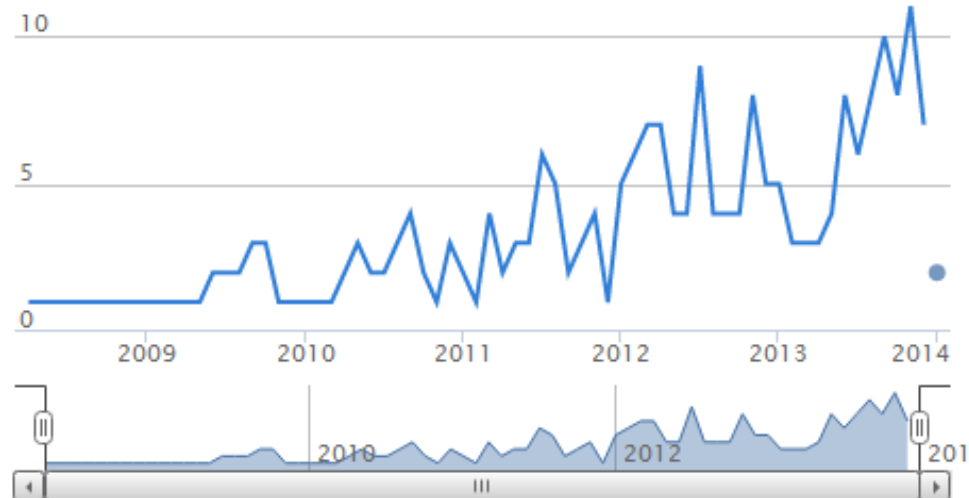
Commits by Top Contributors



Newest Contributors

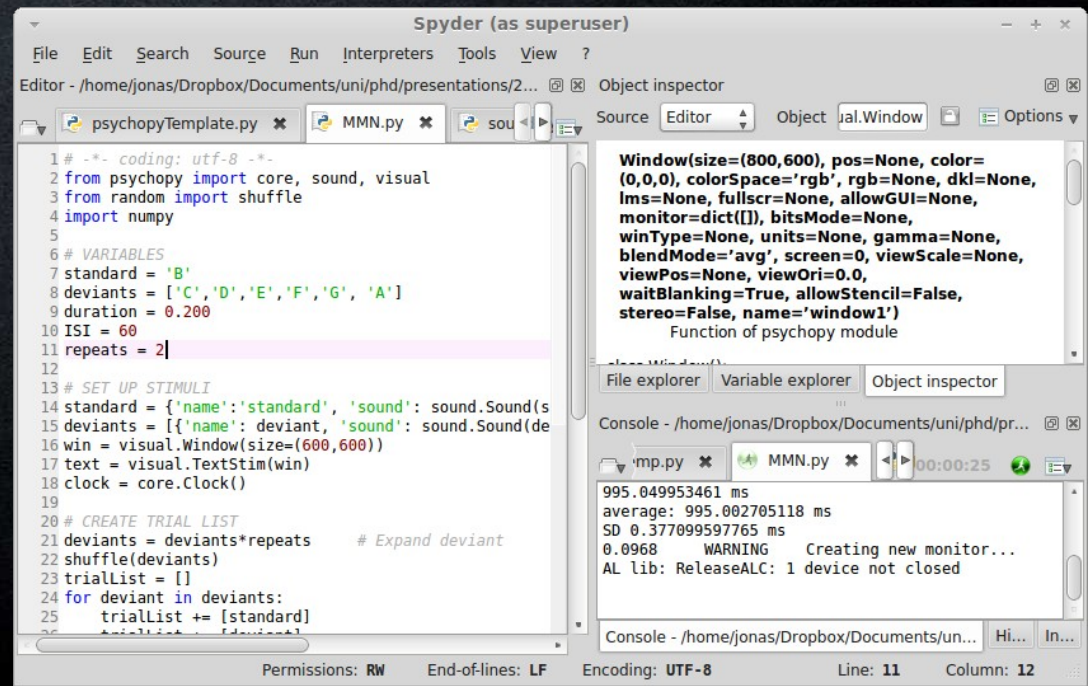
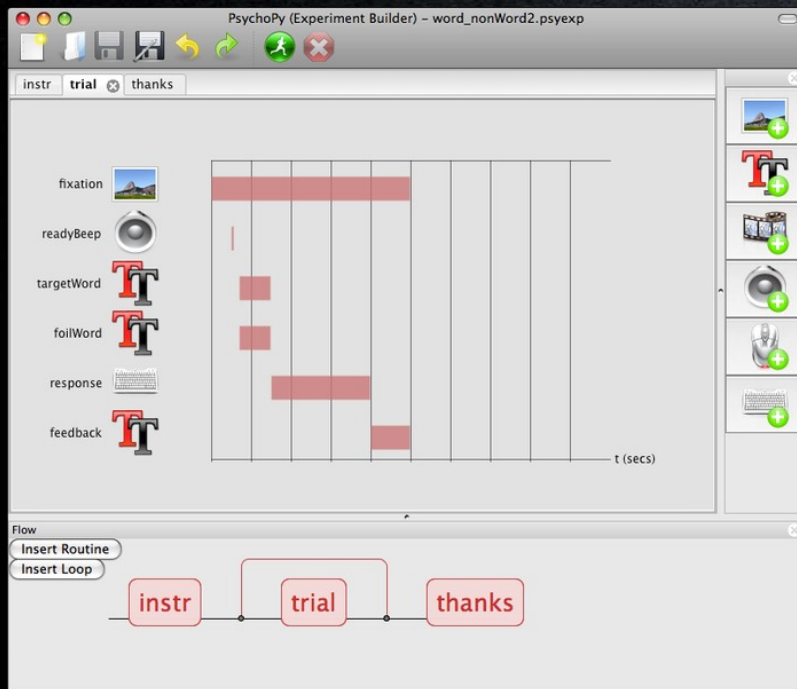
Number of Contributors

Zoom 1yr 3yr 5yr All



PsychoPy overview

- **Python module:** scripting
- **Builder:** graphical interface



Power at your fingertips

- **MATLAB:**

```
import numpy as np
```

- **MATLAB plotting:**

```
import matplotlib as plt
```

- **R data.frame:**

```
import pandas as pd
```

- **Statistical modeling**

```
import statmodels as sm
```

Getting started

- In general:
 - Play around with **demos** in Builder and Coder.
 - Follow tutorials on www.psychopy.org
 - Search **psychopy-users** Google group.
- Graphical interface:
 - Video tutorial: www.youtube.com/watch?v=VV6qhuQgsil
 - Also, check out **OpenSesame**: <http://osdoc.cogsci.nl/>
- Scripting:
 - Python syntax: www.korokithakis.net/tutorials/python/
 - Use **Spyder** instead of Coder. Then the API (www.psychopy.org/api/api.html) will be in-app.
 - Check out useful code snippets and tips on www.lindeloev.net/?page_id=134