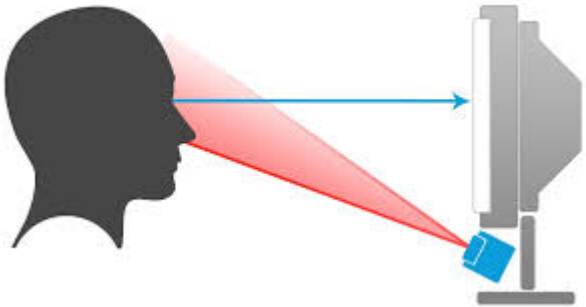
Eye tracking and Open Sesame: practical

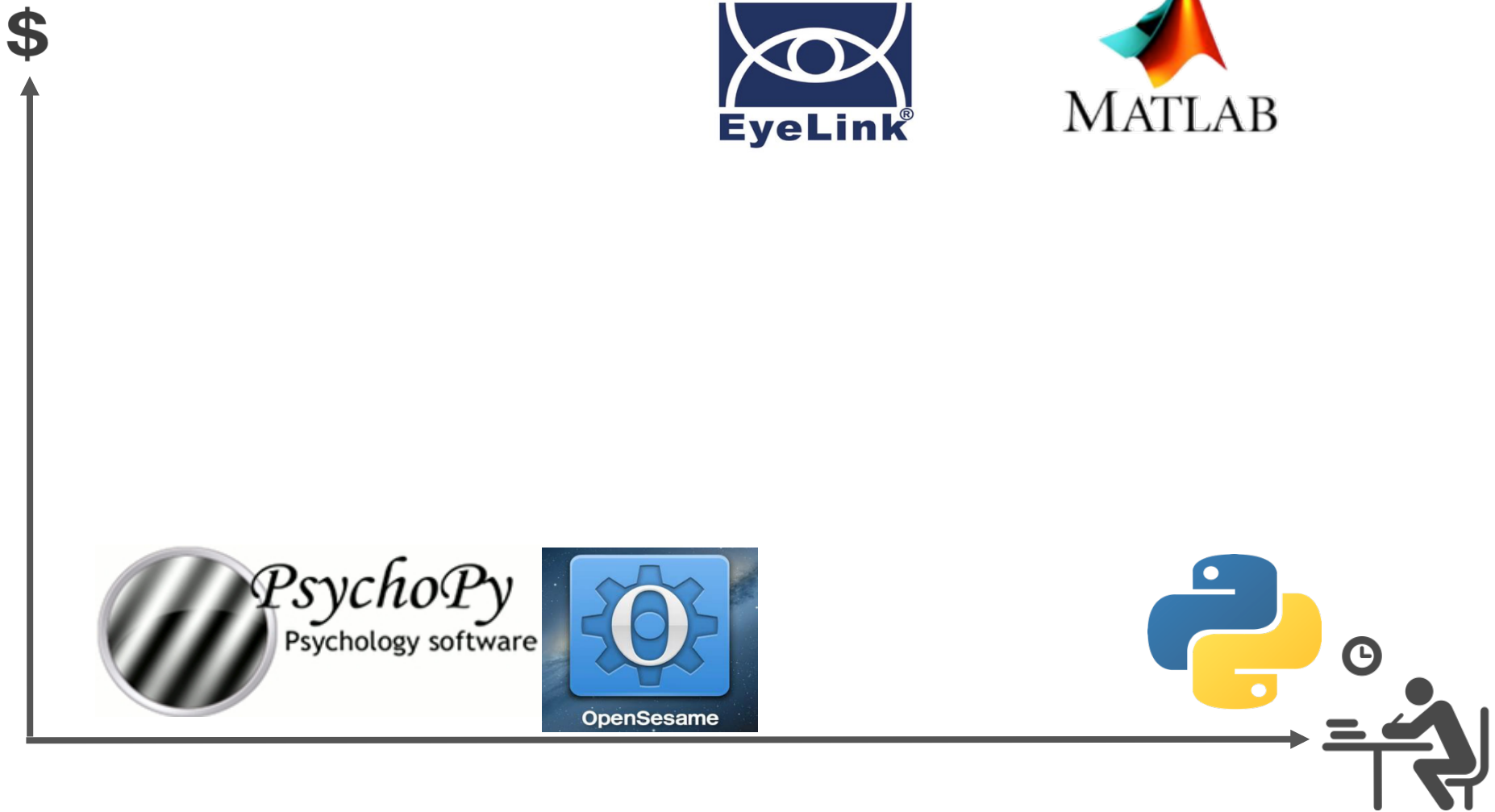
Liya Merzon

You decided to do an eye tracking experiment

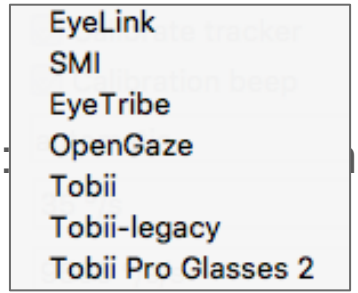


Is OpenSesame what you need?

Let’s look at available options


$
SR Research
EyeLink®
MATLAB
PsychoPy
Psychology software
OpenSesame

+



1. “OpenSesame is, and will always be, free software” © https: l/ 3.2/download/
2. Windows, Mac OS, Linux
3. Supported by SR-research (will be work with Eyelink well:))
4. Easy: has graphical interface

   ! Including graphical wrapper for eye tracking set-up

1. More complex things could be done by adding several lines of Python code
2. Well documented, a lot of tutorials, templates and examples

https://osdoc.cogsci.nl/3.2/

OpenSesame

Edit on GitHub

Search for ... Go!

OpenSesame is a program to create experiments for psychology, neuroscience, and experimental economics. The latest stable version is 3.2.5 *Kafkaesque Koffka*, released on July 28, 2018 (release notes).

Download | Tutorial | Forum

Features

- A user-friendly interface — flexible yet easy-to-use
- Python — add the power of Python to your experiment
- Use your devices — use your eye tracker, button box, EEG equipment, and more.
- Free — released under the GPL3
- Crossplatform — Windows, Mac OS, Linux, and Android (runtime only)

Citation

- Mathôt, S., Schreij, D., & Theeuwes, J. (2012). OpenSesame: An open-source, graphical experiment builder for the social sciences. *Behavior Research Methods*, *44*(2), 314-324. doi:10.3758/s13428-011-0168-7

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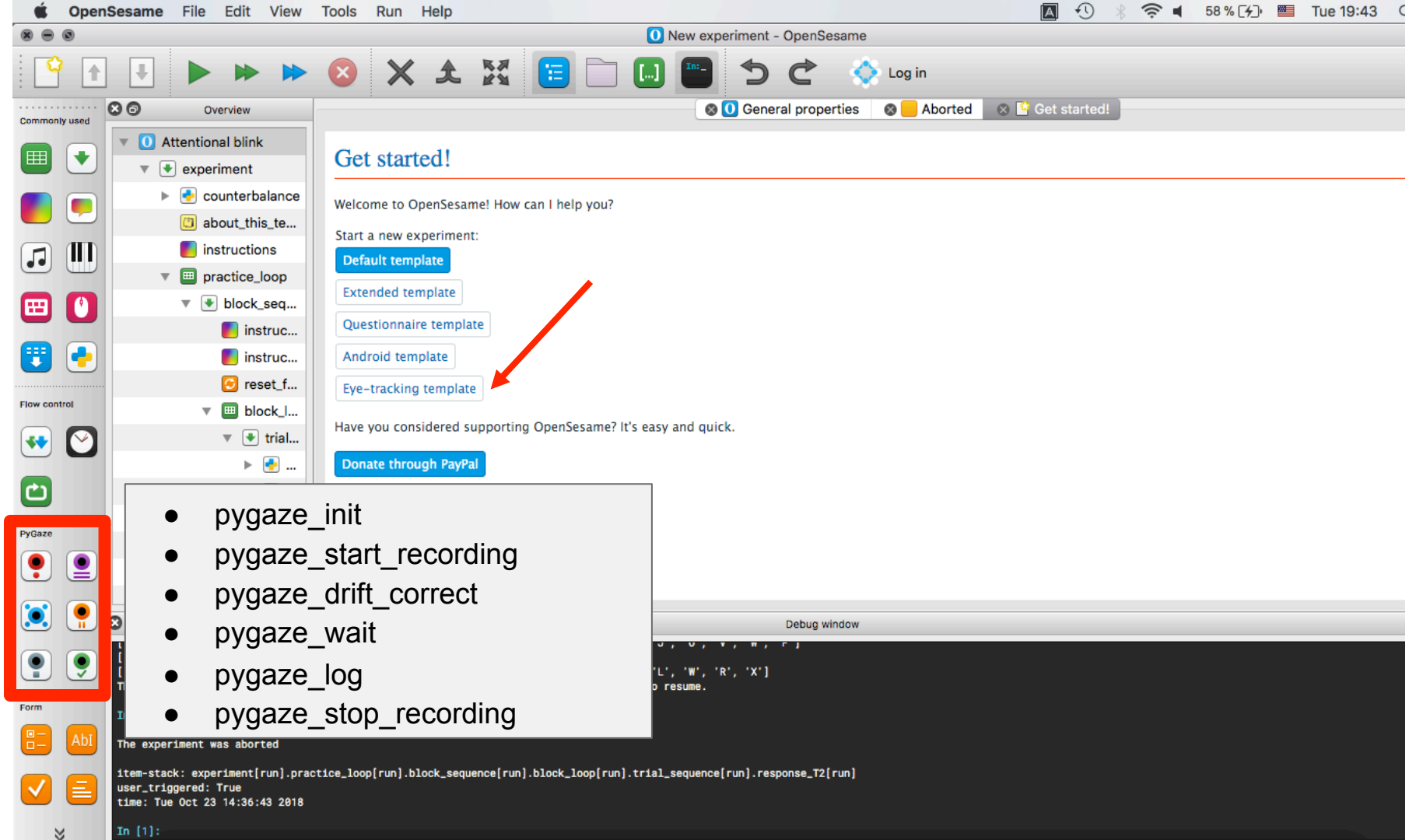
SR Research EyeLink®

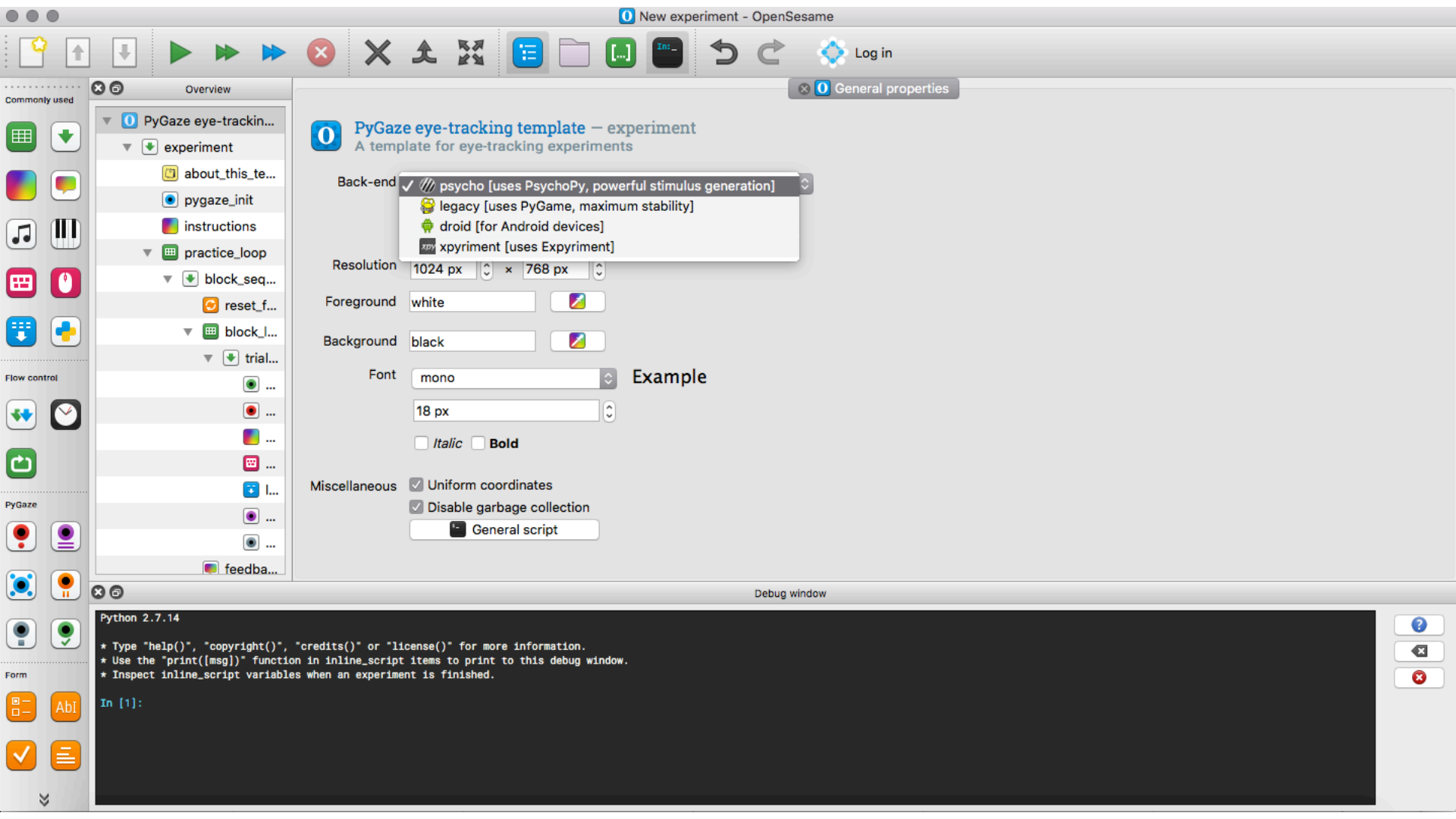
Supported by

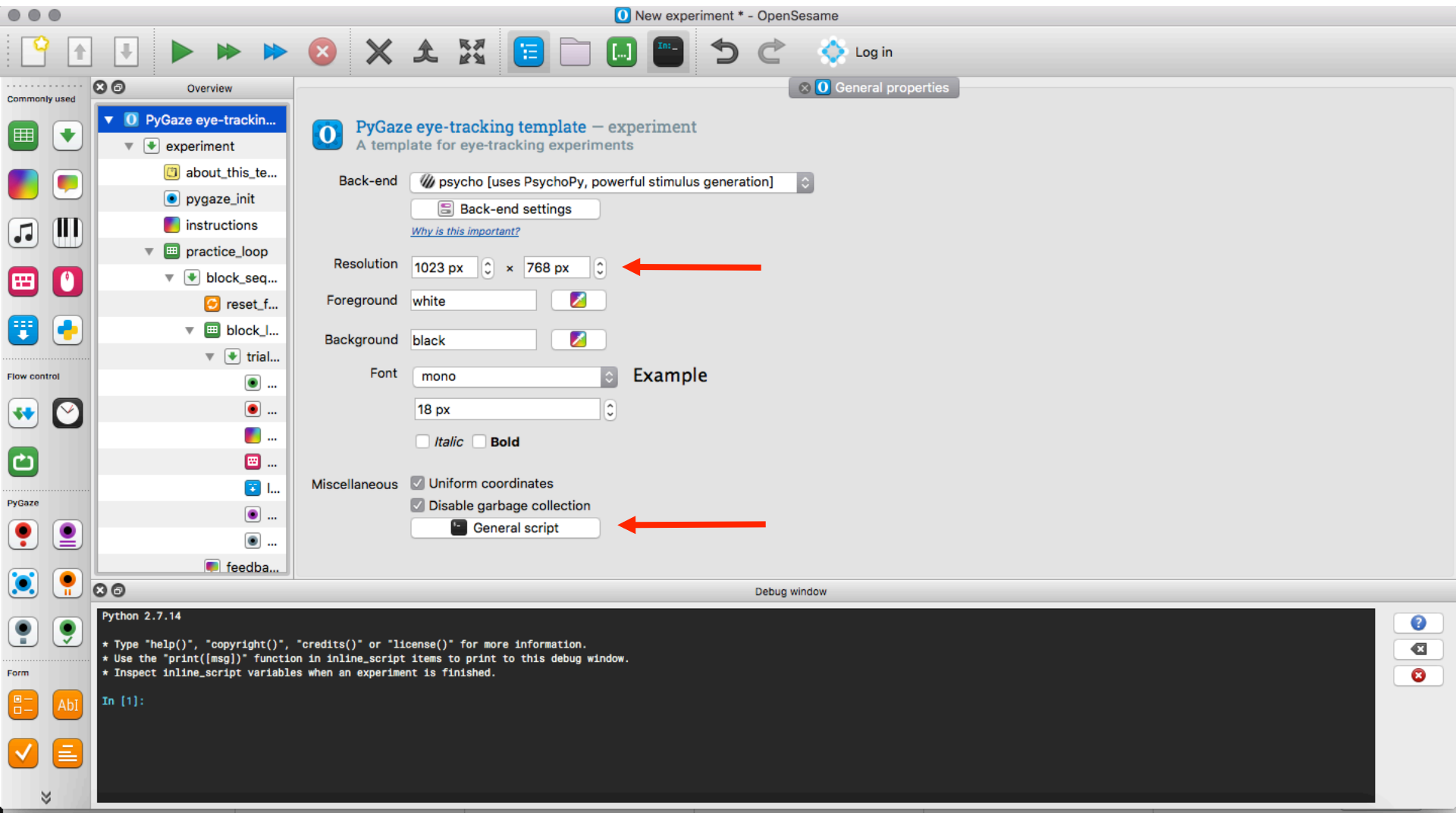
The European Society for Cognitive Psychology


OpenSesame File Edit View Tools Run Help
Tue 19:43
New experiment - OpenSesame
Log in
Commonly used
Overview
Attentional blink
experiment
counterbalance
about_this_te...
instructions
practice_loop
block_seq...
instruc...
instruc...
reset_f...
block_l...
trial...
General properties
Aborted
Get started!
Get started!
Welcome to OpenSesame! How can I help you?
Start a new experiment:
Default template
Extended template
Questionnaire template
Android template
Eye-tracking template
Have you considered supporting OpenSesame? It's easy and quick.
Donate through PayPal
Flow control
PyGaze
Form
Debug window
'L', 'W', 'R', 'X']
o resume.
The experiment was aborted
item-stack: experiment[run].practice_loop[run].block_sequence[run].block_loop[run].trial_sequence[run].response_T2[run]
user_triggered: True
time: Tue Oct 23 14:36:43 2018
In [1]:
pygaze_init
pygaze_start_recording
pygaze_drift_correct
pygaze_wait
pygaze_log
pygaze_stop_recording

Eye-tracking Template

Before we will go through each step of creating an experiment, let’s have a look at the eyetracking functions and how they are placed in the eye tracking template


New experiment - OpenSesame
Log in
Commonly used
Flow control
PyGaze
Form
Overview
PyGaze eye-trackin...
experiment
about_this_te...
pygaze_init
instructions
practice_loop
block_seq...
reset_f...
block_l...
trial...
feedba...
General properties
PyGaze eye-tracking template — experiment
A template for eye-tracking experiments
Back-end
psycho [uses PsychoPy, powerful stimulus generation]
legacy [uses PyGame, maximum stability]
droid [for Android devices]
xpyriment [uses Expyriment]
Resolution
1024 px
768 px
Foreground
white
Background
black
Font
mono
Example
18 px
Italic
Bold
Miscellaneous
Uniform coordinates
Disable garbage collection
General script
Debug window
Python 2.7.14
* Type "help()", "copyright()", "credits()" or "license()" for more information.
* Use the "print([msg])" function in inline_script items to print to this debug window.
* Inspect inline_script variables when an experiment is finished.
In [1]:


New experiment * - OpenSesame
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PyGaze
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pygaze_init
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General properties
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A template for eye-tracking experiments
Back-end
psycho [uses PsychoPy, powerful stimulus generation]
Back-end settings
Why is this important?
Resolution
1023 px
×
768 px
Foreground
white
Background
black
Font
mono
Example
18 px
Italic
Bold
Miscellaneous
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Disable garbage collection
General script
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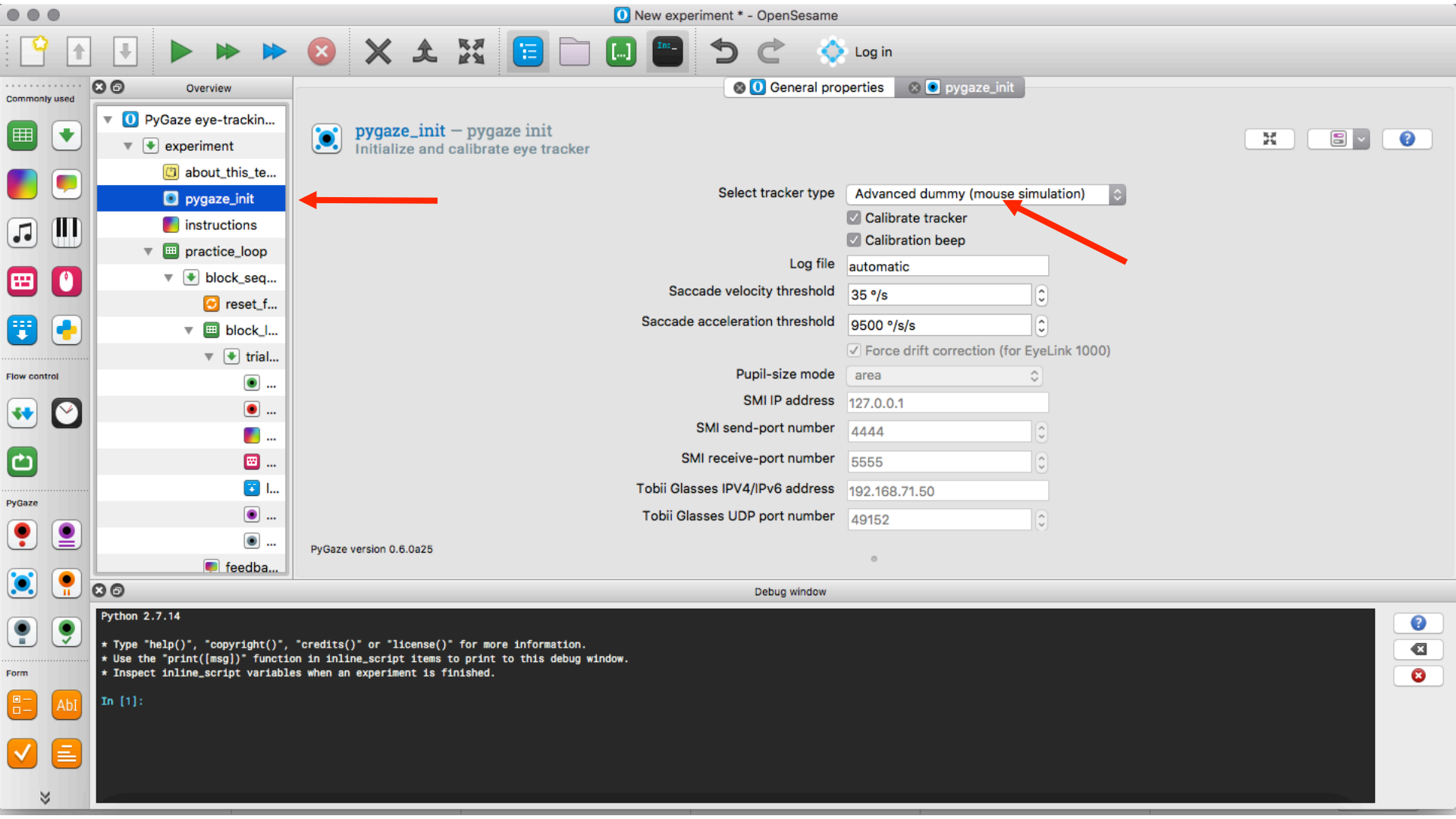
New experiment * - OpenSesame
Log in
Overview
PyGaze eye-trackin...
experiment
about_this_te...
pygaze_init
instructions
practice_loop
block_seq...
reset_f...
block_l...
trial...
feedba...
General properties
pygaze_init
pygaze_init — pygaze init
Initialize and calibrate eye tracker
Select tracker type
Advanced dummy (mouse simulation)
Calibrate tracker
Calibration beep
Log file
automatic
Saccade velocity threshold
35 °/s
Saccade acceleration threshold
9500 °/s/s
Force drift correction (for EyeLink 1000)
Pupil-size mode
area
SMI IP address
127.0.0.1
SMI send-port number
4444
SMI receive-port number
5555
Tobii Glasses IPV4/IPv6 address
192.168.71.50
Tobii Glasses UDP port number
49152
PyGaze version 0.6.0a25
Debug window
Python 2.7.14
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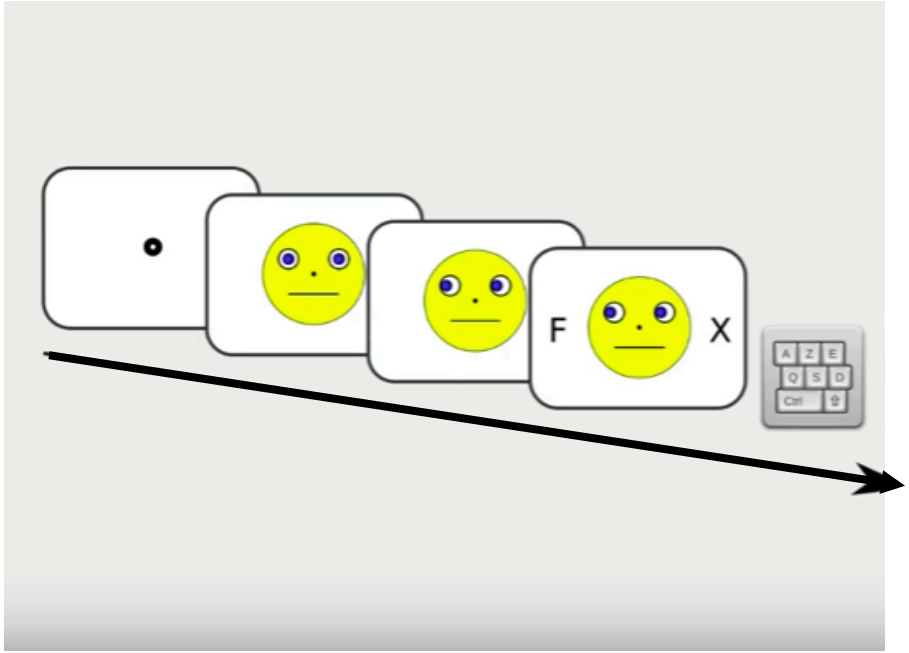
In [1]:

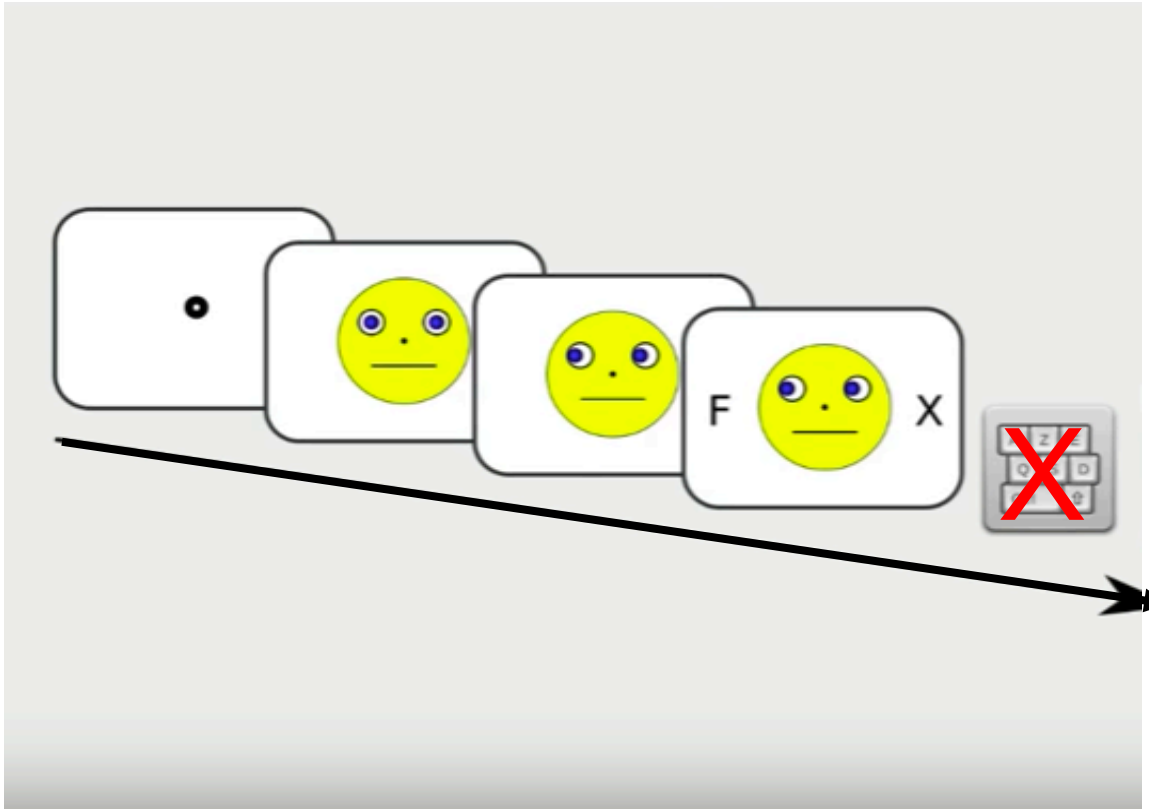
To do list

One “usual” behavioural experiment

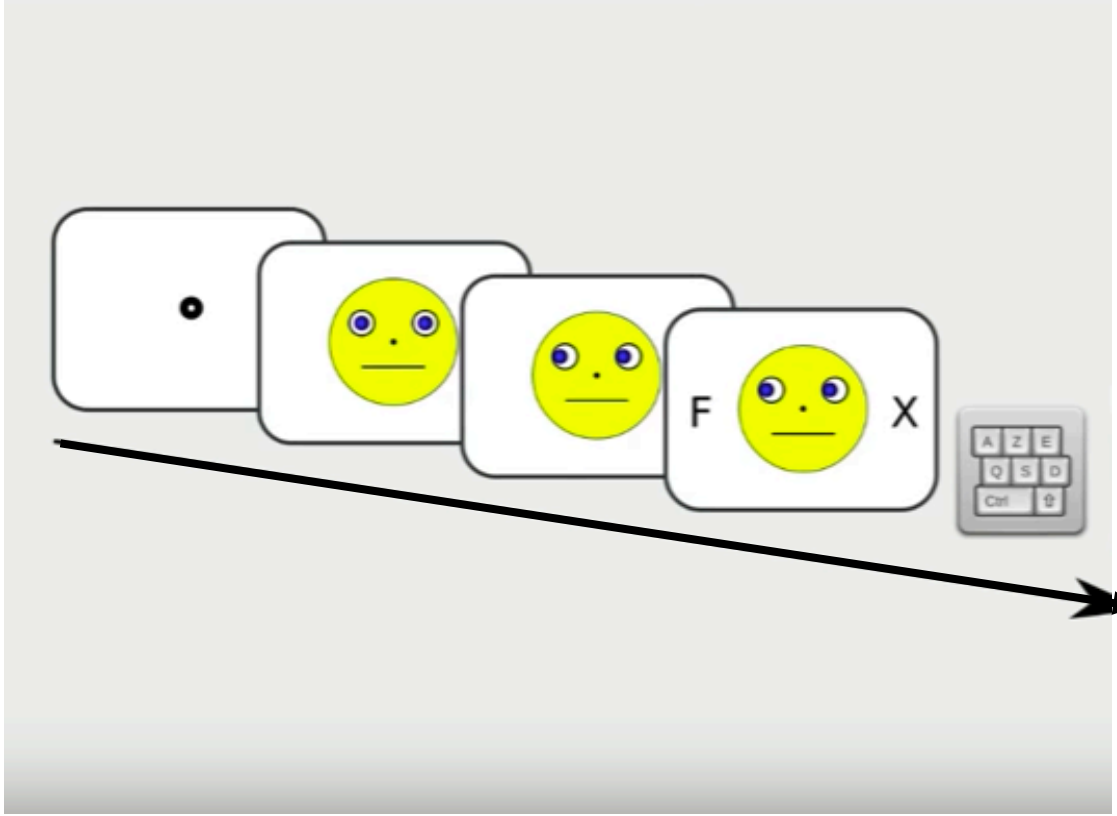


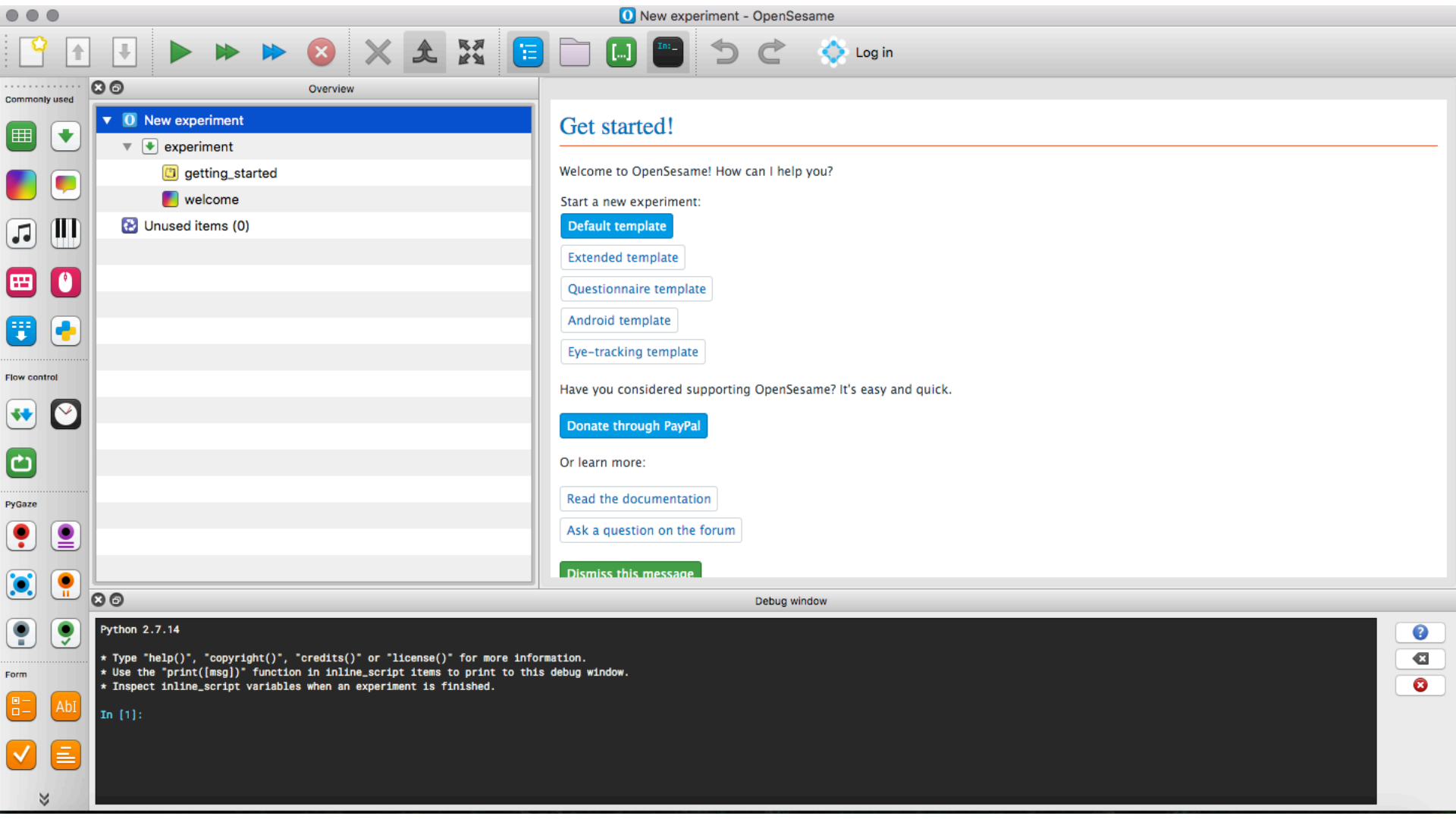
One gaze-contingent experiment

If we have time: combine them in one



1. Simple trail-based experiment




New experiment - OpenSesame
Log in
Commonly used
Flow control
PyGaze
Form
Overview
New experiment
experiment
getting_started
welcome
Unused items (0)
Get started!
Welcome to OpenSesame! How can I help you?
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Or learn more:
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Ask a question on the forum
Dismiss this message
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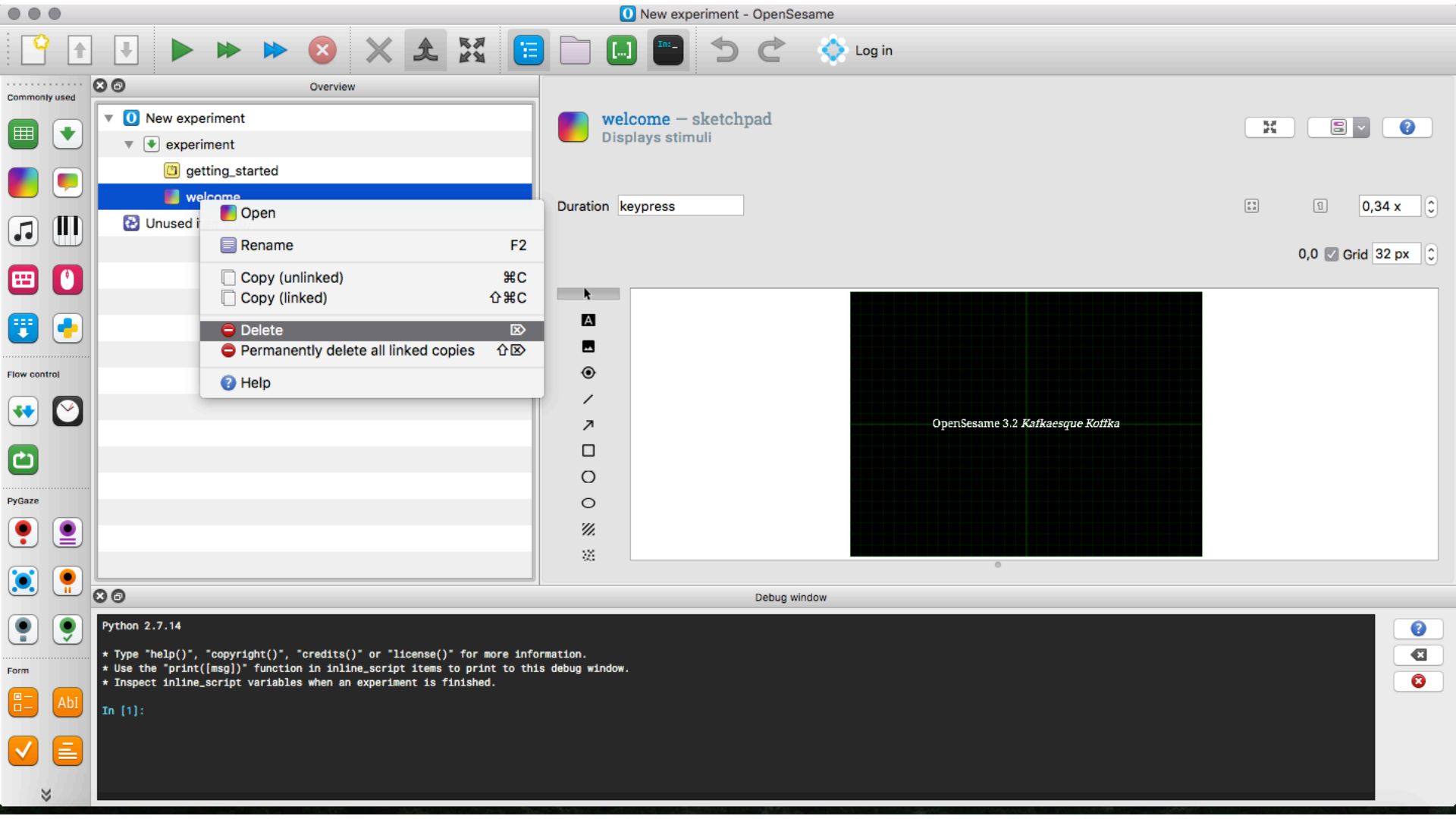
In [1]:

OpenSesame paradigm

Think from the highest hierarchy to the smaller elements

The experimental structure

1. Provide the instructions to the participant
2. Main experimental block
- Loop of repeated trials
1. Save data (will return to it later)
2. End screen for the participant


New experiment - OpenSesame
Log in
Commonly used
Overview
New experiment
experiment
getting_started
welcome
Unused i
Open
Rename F2
Copy (unlinked) ⌘C
Copy (linked) ⇧⌘C
Delete
Permanently delete all linked copies ⇧⌫
Help
Flow control
PyGaze
Form
welcome — sketchpad
Displays stimuli
Duration keypress
0,34 x
0,0 Grid 32 px
OpenSesame 3.2 Kafkaesque Kotlka
Debug window
Python 2.7.14
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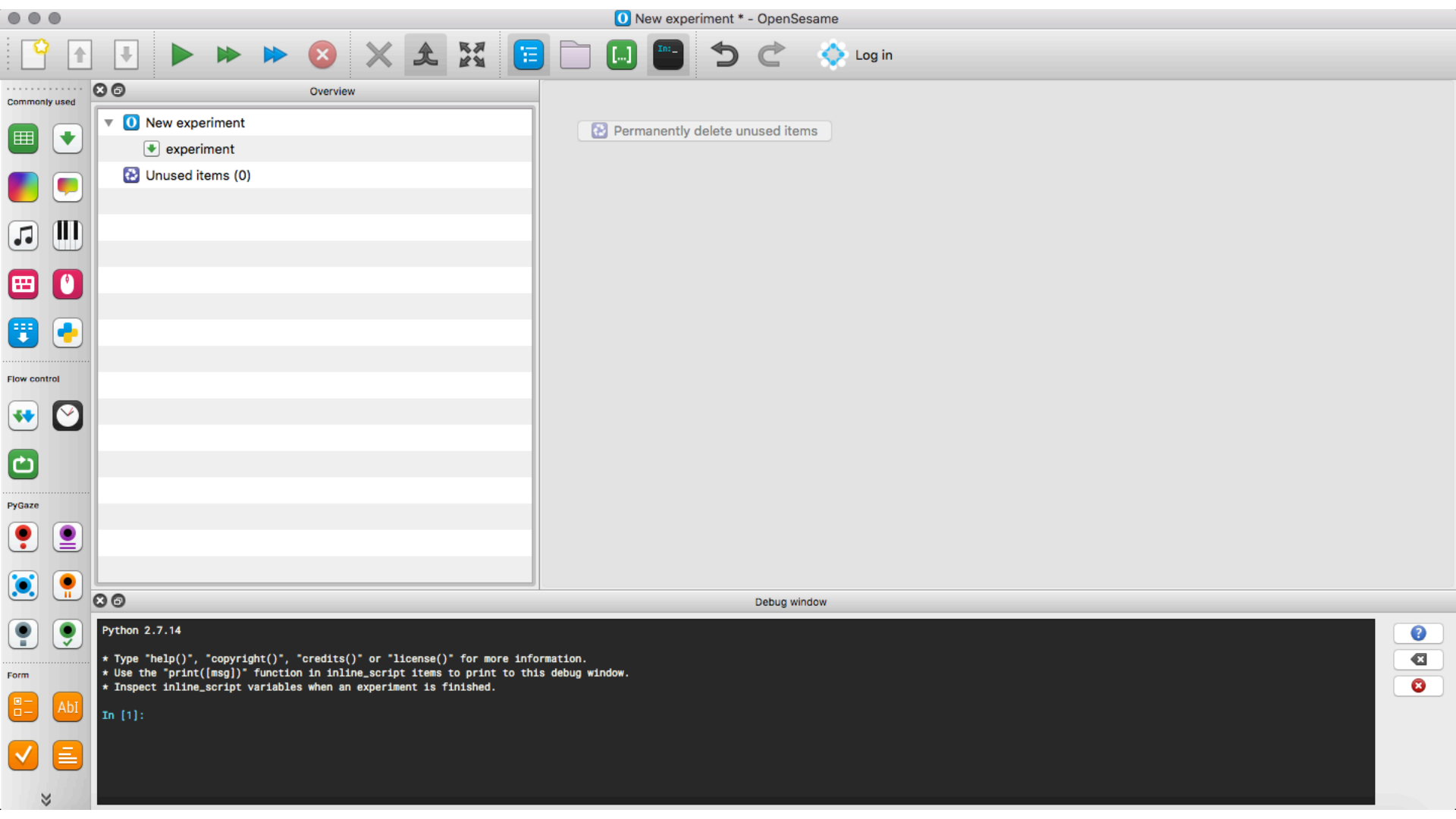
New experiment * - OpenSesame
Log in
Commonly used
Flow control
PyGaze
Form
Overview
New experiment
experiment
Unused items (0)
Permanently delete unused items
Debug window
Python 2.7.14
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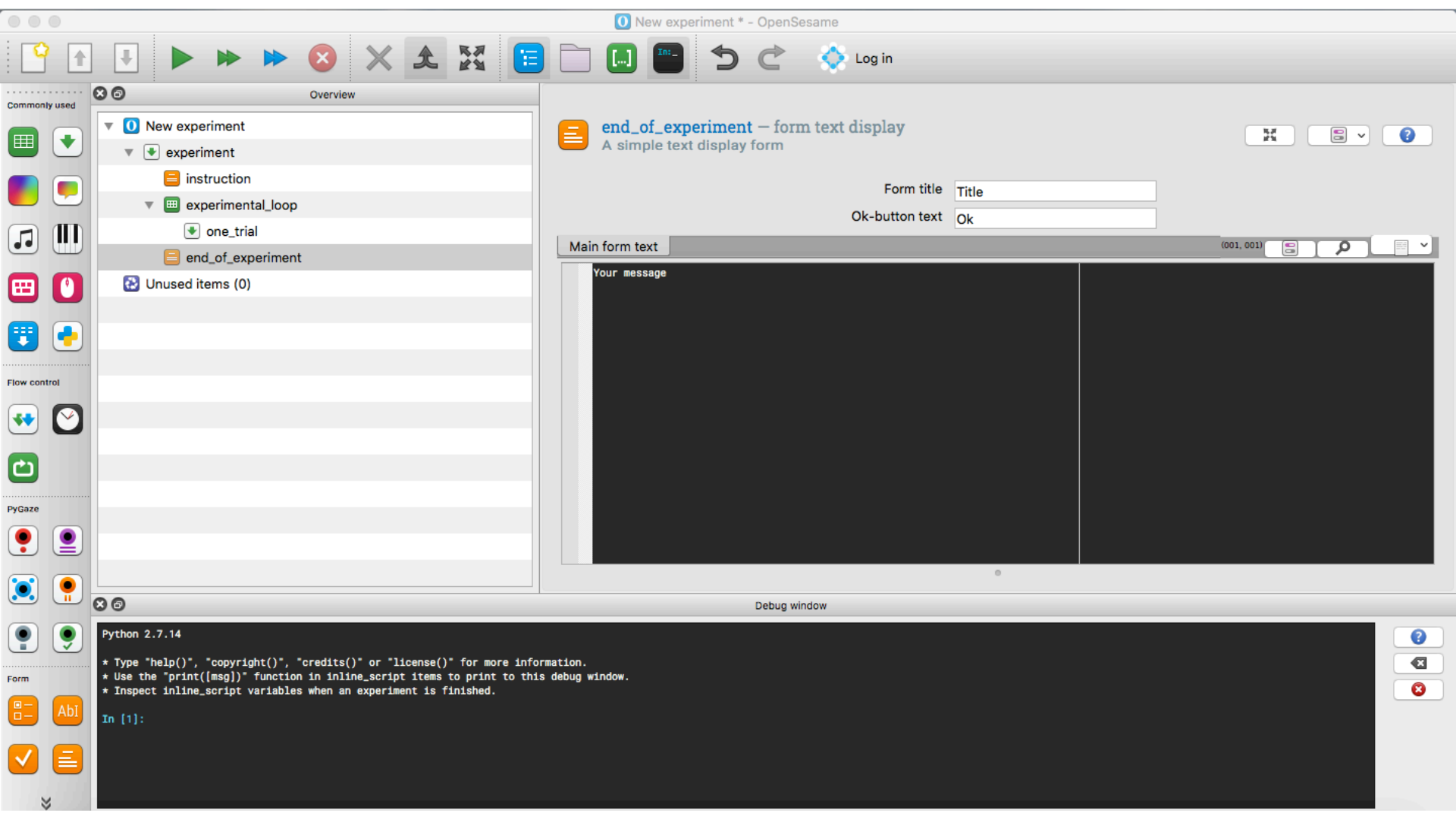
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Log in
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PyGaze
Form
Overview
New experiment
experiment
instruction
experimental_loop
one_trial
end_of_experiment
Unused items (0)
end_of_experiment — form text display
A simple text display form
Form title
Title
Ok-button text
Ok
Main form text
(001, 001)
Your message
Debug window
Python 2.7.14
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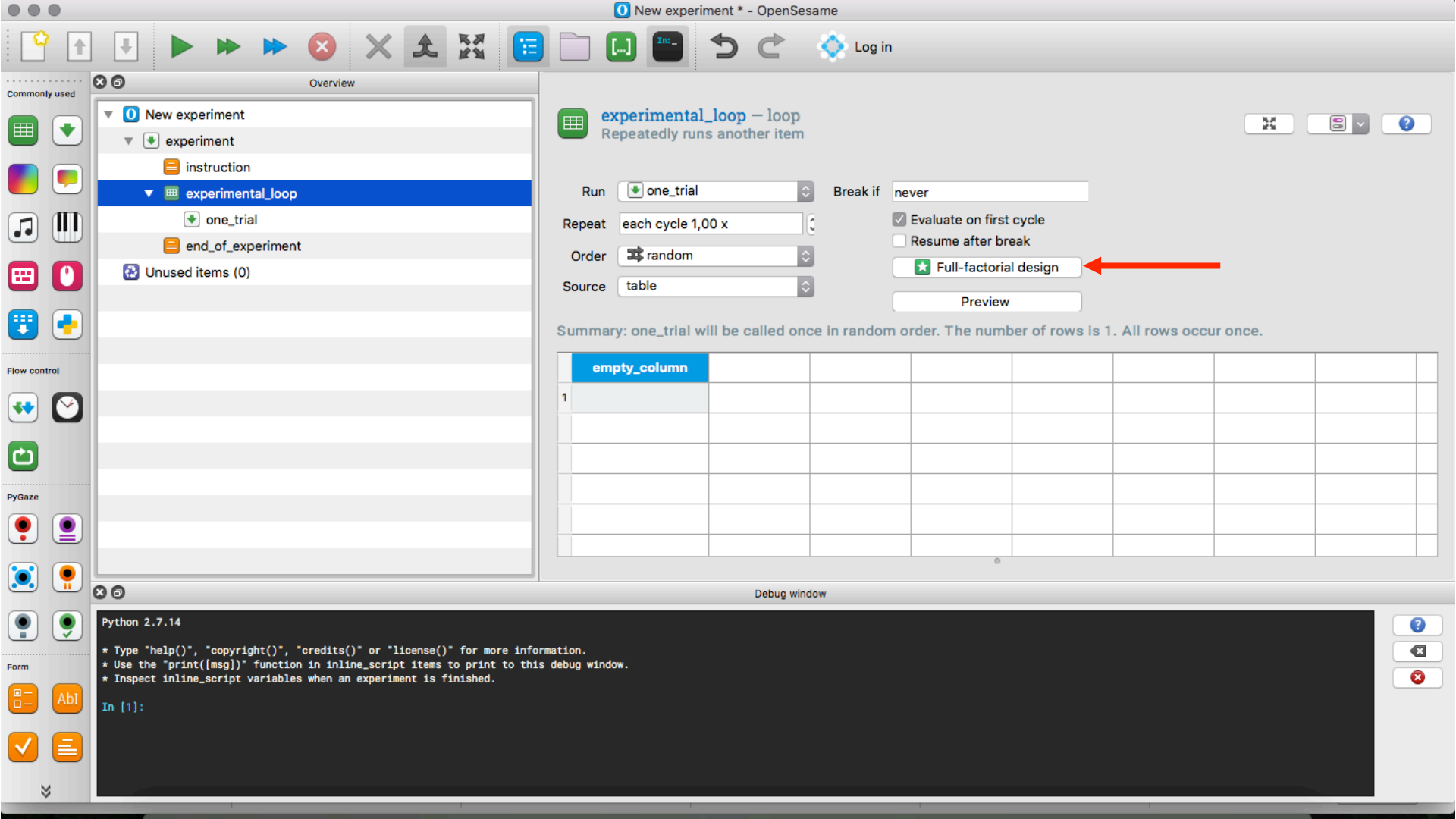
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PyGaze
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Overview
New experiment
experiment
instruction
experimental_loop
one_trial
end_of_experiment
Unused items (0)
experimental_loop — loop
Repeatedly runs another item
Run
one_trial
Break if
never
Repeat
each cycle 1,00 x
Evaluate on first cycle
Resume after break
Order
random
Full-factorial design
Source
table
Preview
Summary: one_trial will be called once in random order. The number of rows is 1. All rows occur once.
empty_column
1
Debug window
Python 2.7.14
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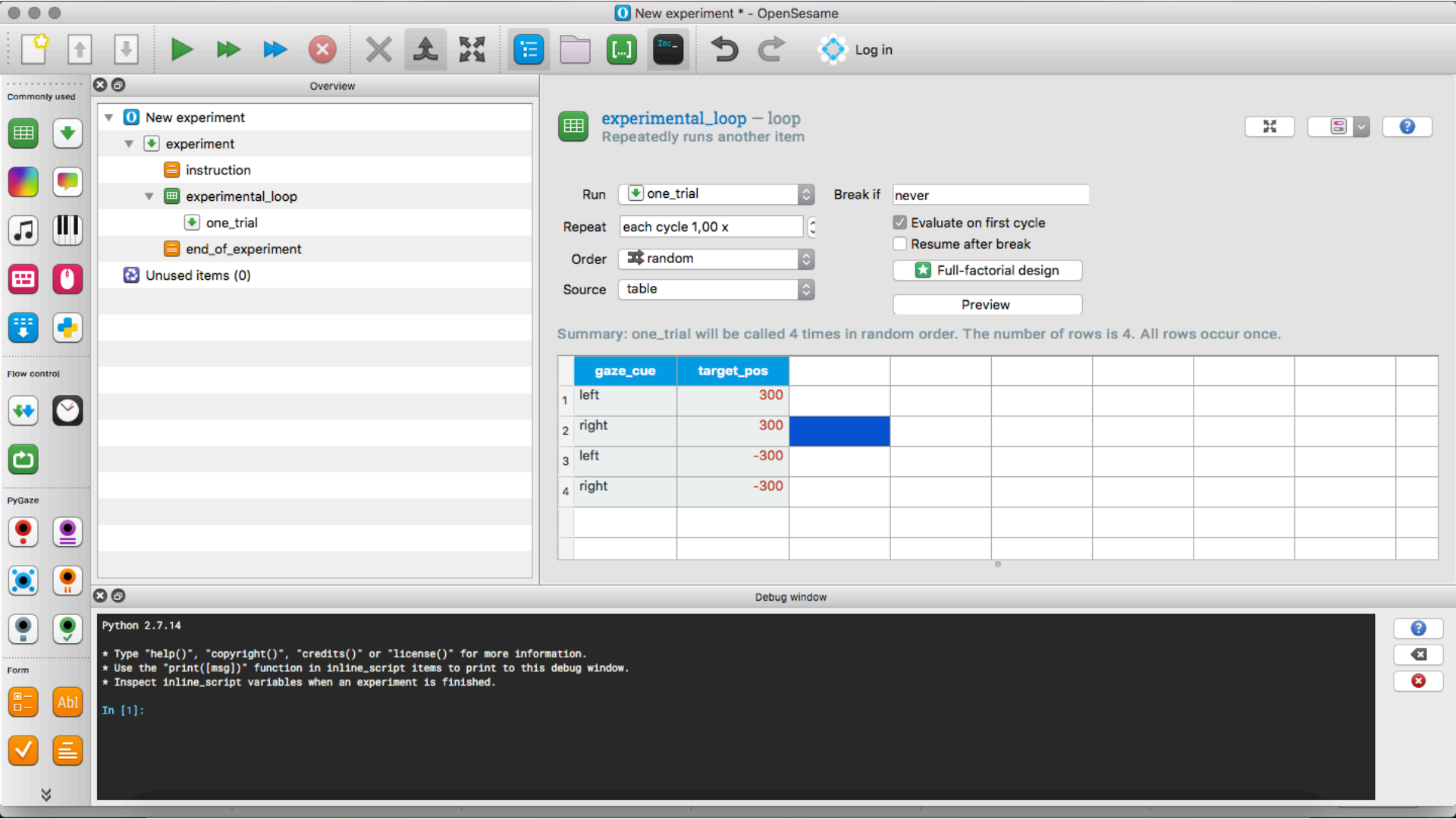
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one_trial
Break if
never
Repeat
each cycle 1,00 x
Evaluate on first cycle
Resume after break
Order
random
Full-factorial design
Source
table
Preview
Summary: one_trial will be called 4 times in random order. The number of rows is 4. All rows occur once.
gaze_cue
target_pos
1 left 300
2 right 300
3 left -300
4 right -300
Debug window
Python 2.7.14
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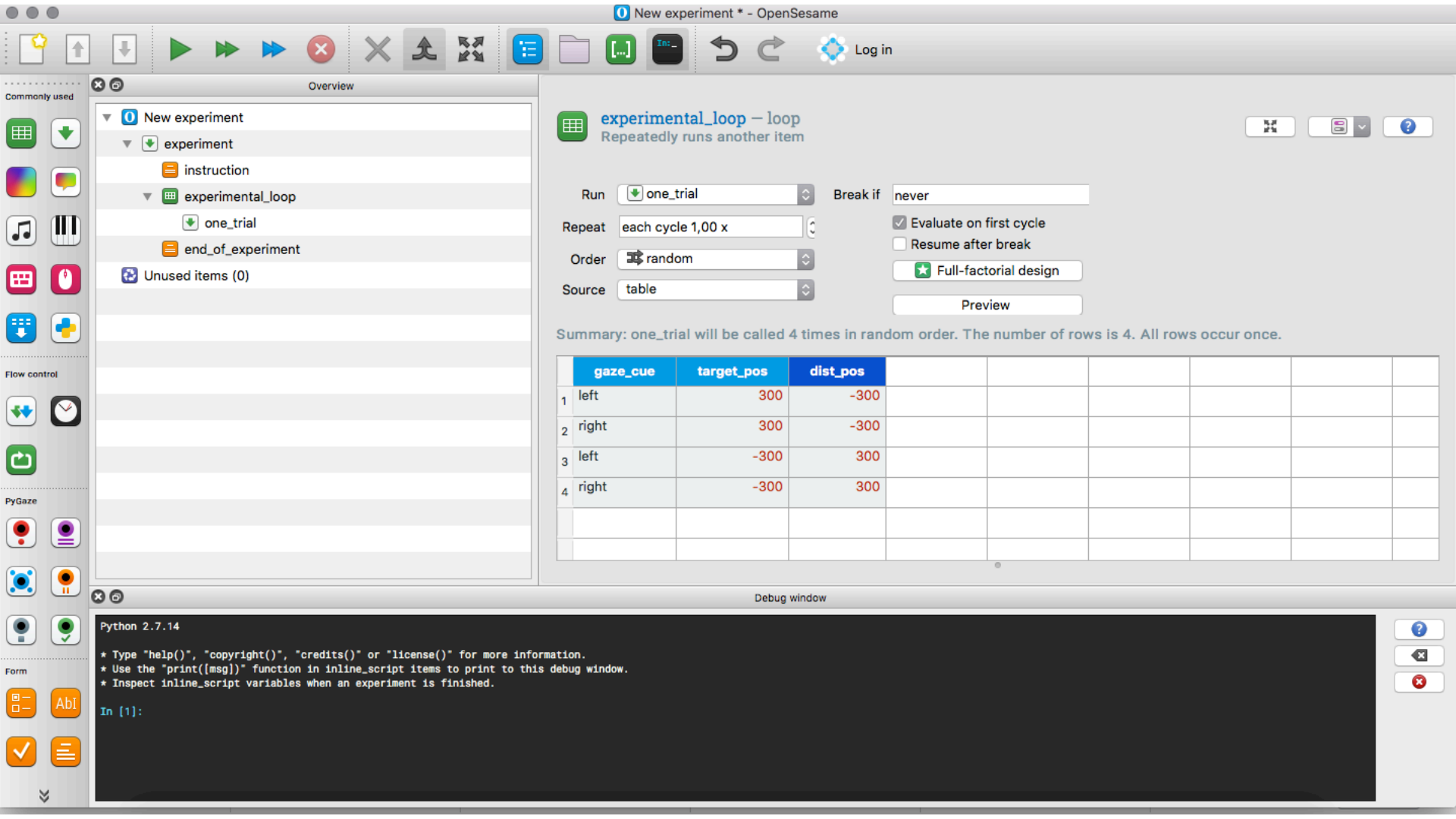
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experiment
instruction
experimental_loop
one_trial
end_of_experiment
Unused items (0)
experimental_loop — loop
Repeatedly runs another item
Run
one_trial
Break if
never
Repeat
each cycle 1,00 x
Evaluate on first cycle
Resume after break
Order
random
Full-factorial design
Source
table
Preview
Summary: one_trial will be called 4 times in random order. The number of rows is 4. All rows occur once.
gaze_cue
target_pos
dist_pos
1 left 300 -300
2 right 300 -300
3 left -300 300
4 right -300 300
Debug window
Python 2.7.14
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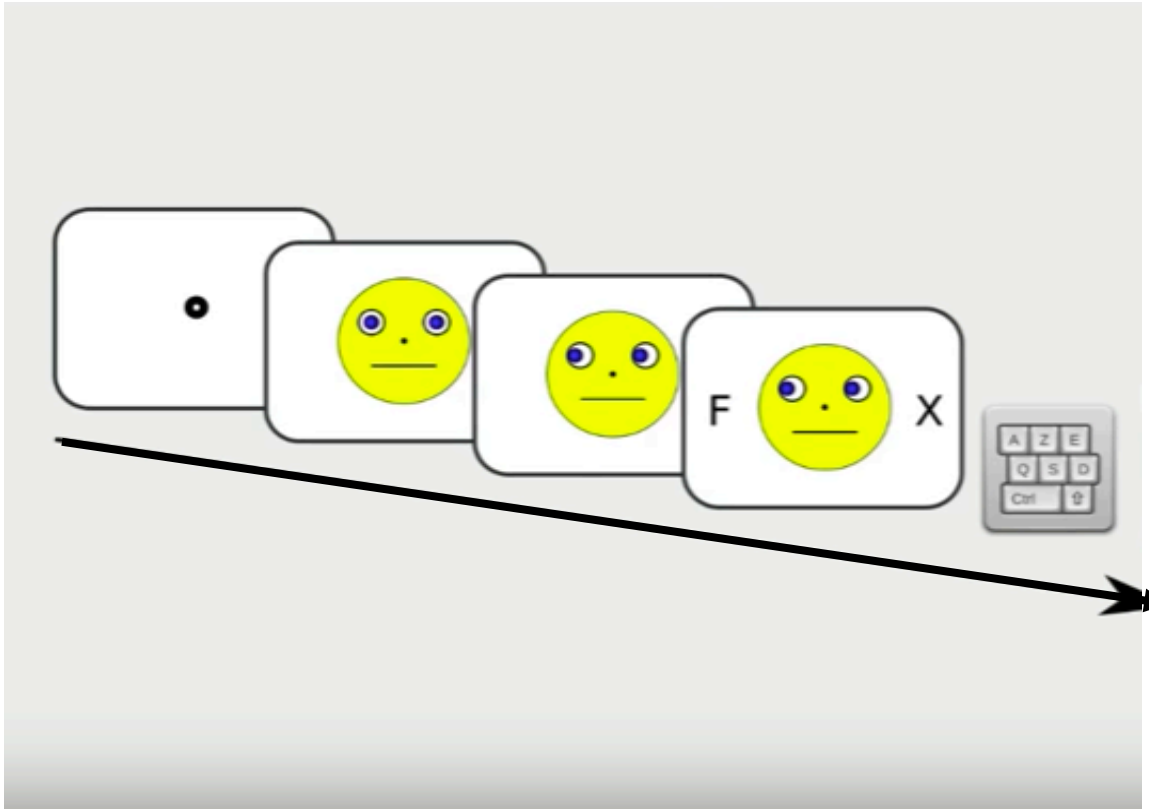
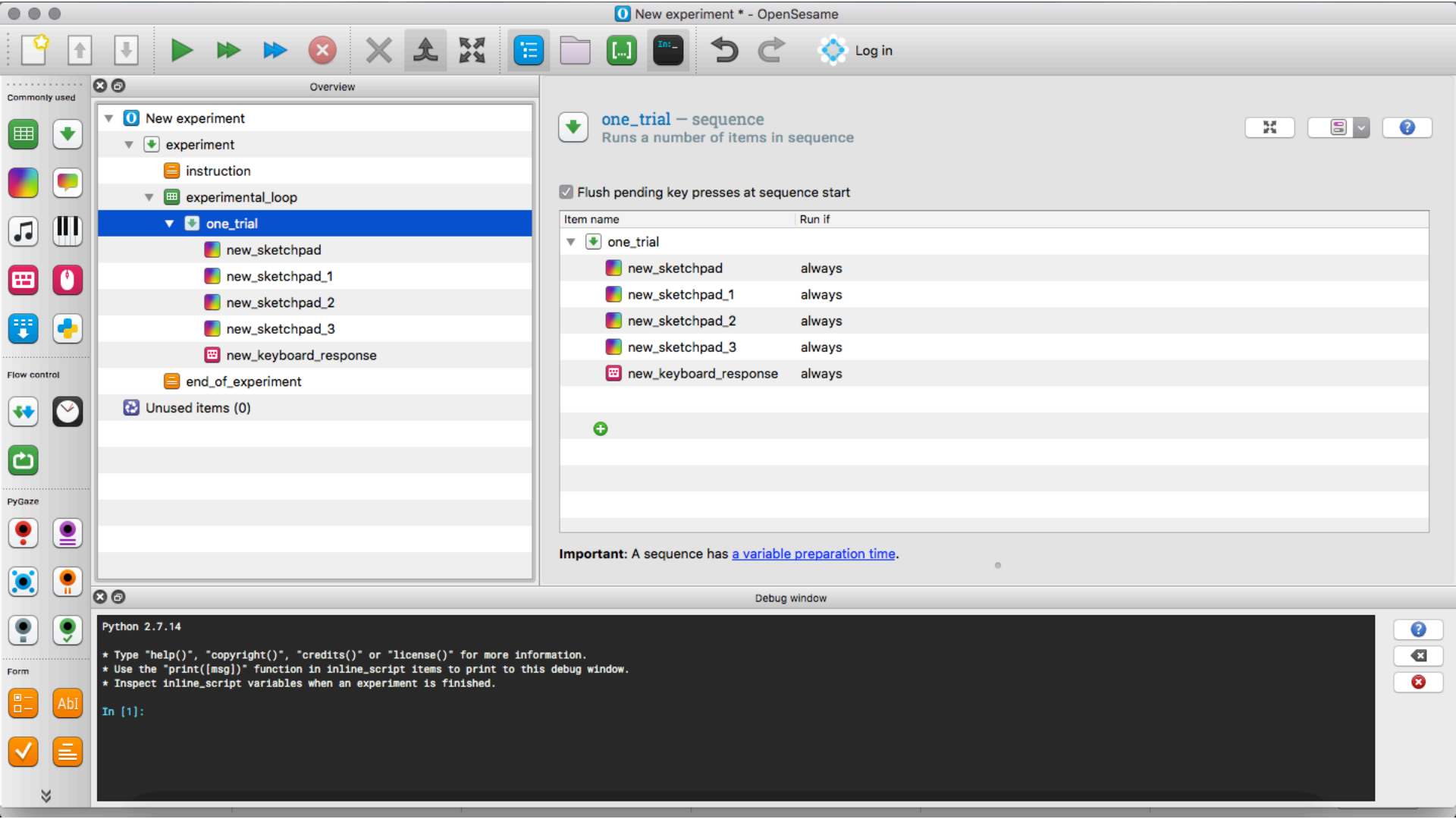
* Inspect inline_script variables when an experiment is finished.
In [1]:

One trial:




New experiment * - OpenSesame
Log in
Commonly used
Flow control
PyGaze
Form
Overview
New experiment
experiment
instruction
experimental_loop
one_trial
new_sketchpad
new_sketchpad_1
new_sketchpad_2
new_sketchpad_3
new_keyboard_response
end_of_experiment
Unused items (0)
one_trial — sequence
Runs a number of items in sequence
Flush pending key presses at sequence start
Item name
Run if
one_trial
new_sketchpad always
new_sketchpad_1 always
new_sketchpad_2 always
new_sketchpad_3 always
new_keyboard_response always
Important: A sequence has a variable preparation time.
Debug window
Python 2.7.14
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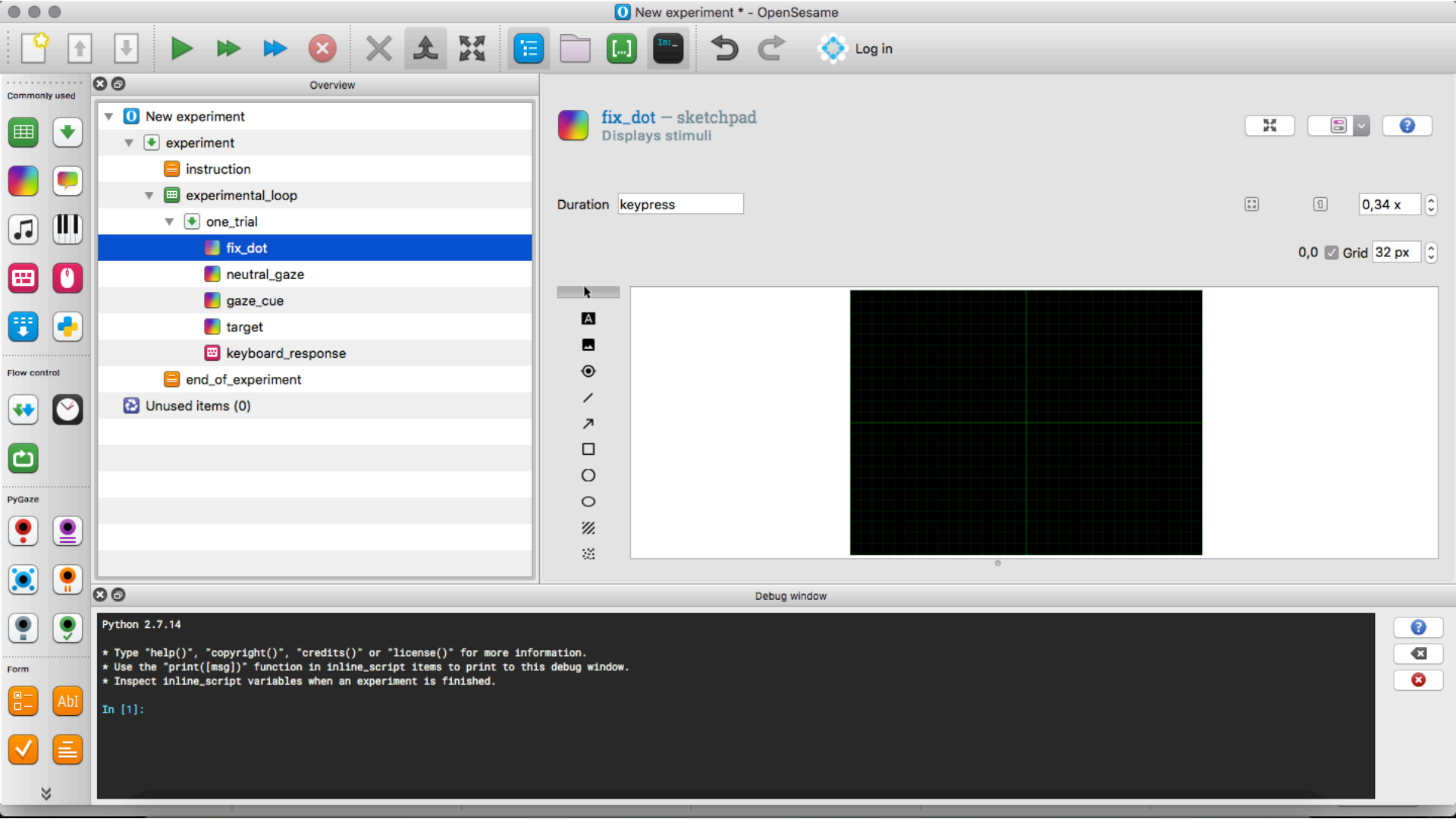
New experiment * - OpenSesame
Log in
Commonly used
Flow control
PyGaze
Form
Overview
New experiment
experiment
instruction
experimental_loop
one_trial
fix_dot
neutral_gaze
gaze_cue
target
keyboard_response
end_of_experiment
Unused items (0)
fix_dot — sketchpad
Displays stimuli
Duration
keypress
0,34 x
0,0
Grid
32 px
Debug window
Python 2.7.14
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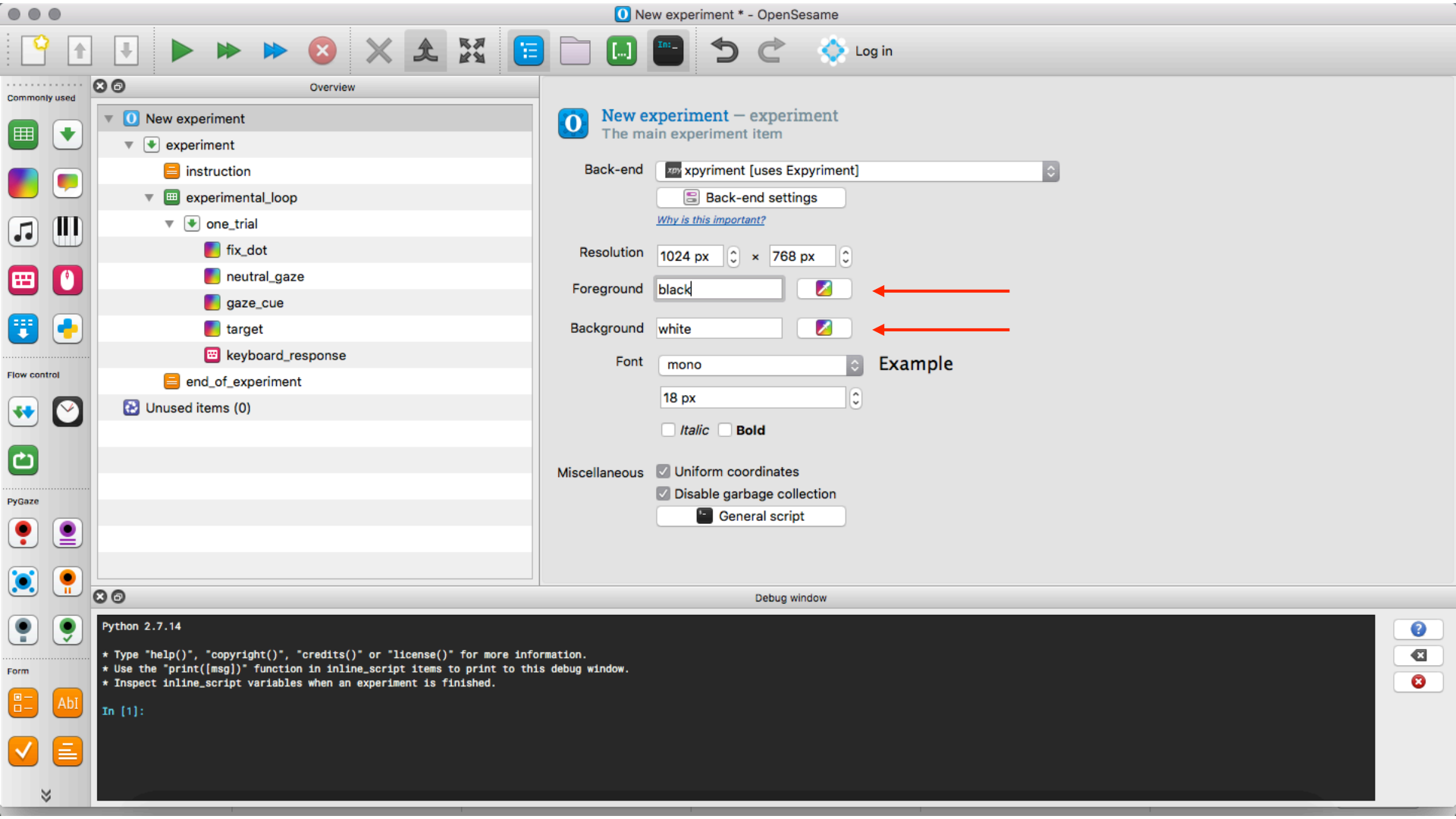
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experimental_loop
one_trial
fix_dot
neutral_gaze
gaze_cue
target
keyboard_response
end_of_experiment
Unused items (0)
New experiment — experiment
The main experiment item
Back-end
xpyriment [uses Expyriment]
Back-end settings
Why is this important?
Resolution
1024 px
×
768 px
Foreground
black
Background
white
Font
mono
Example
18 px
Italic
Bold
Miscellaneous
Uniform coordinates
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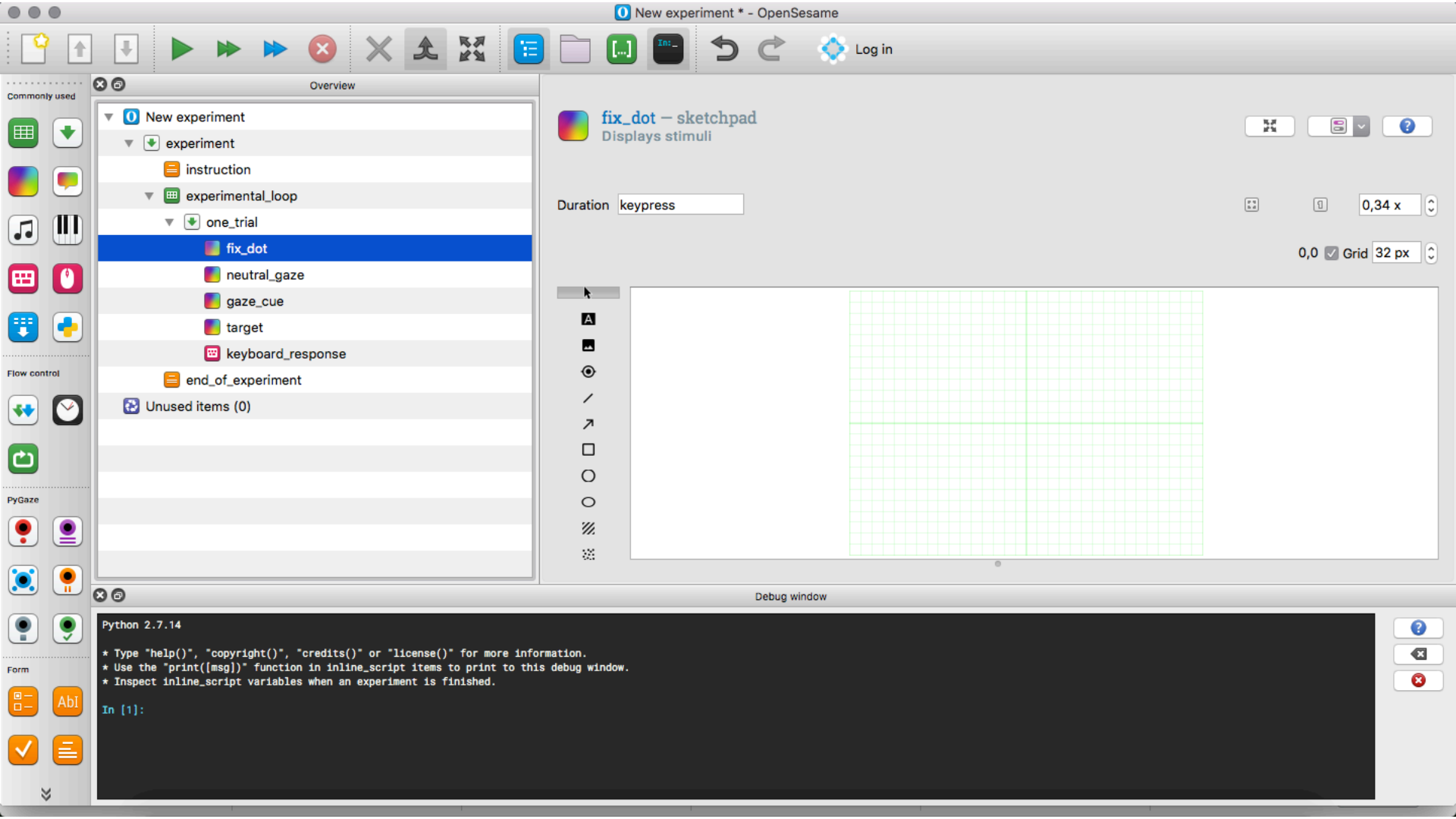
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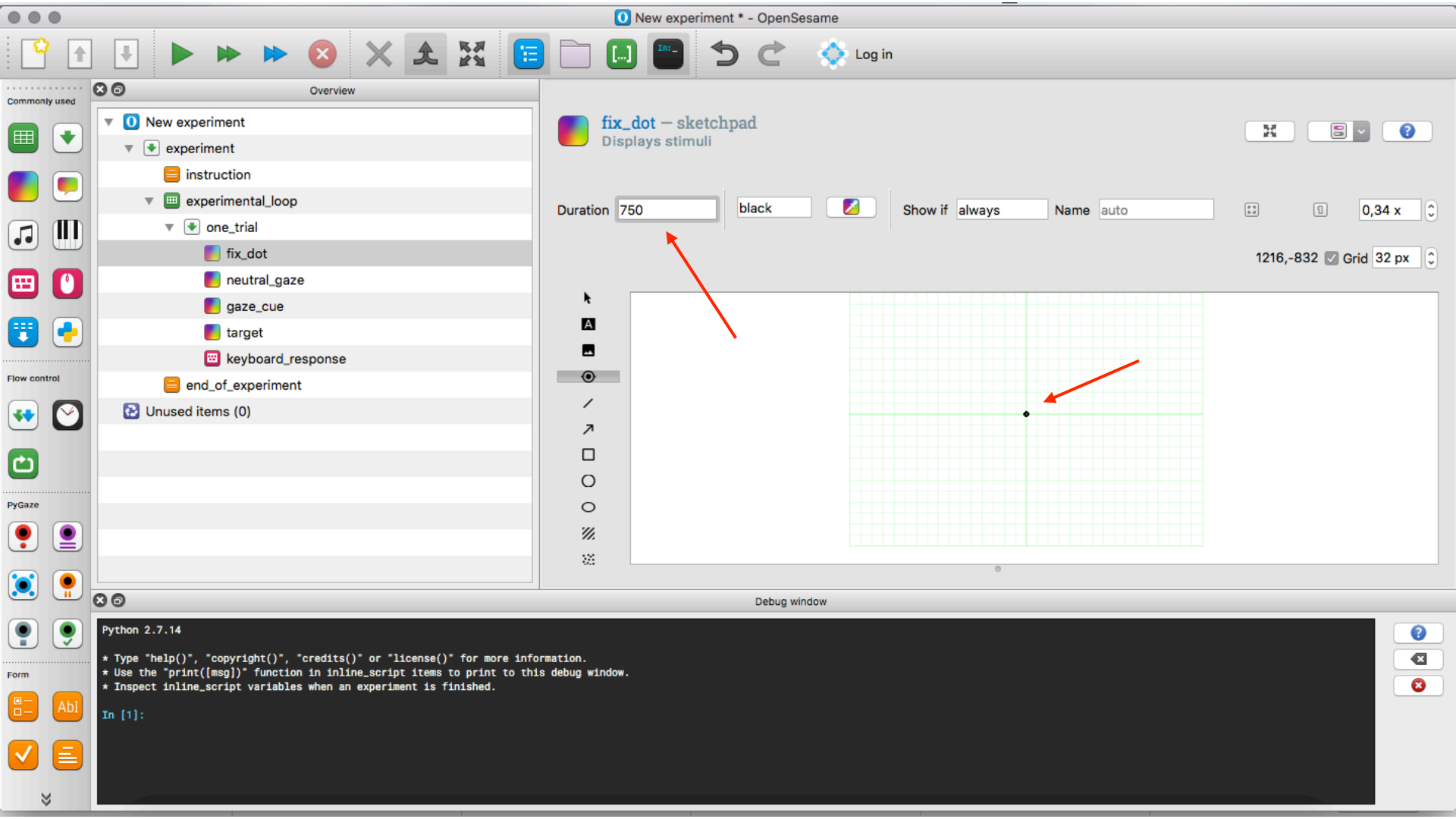
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Commonly used
Flow control
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Form
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New experiment
experiment
instruction
experimental_loop
one_trial
fix_dot
neutral_gaze
gaze_cue
target
keyboard_response
end_of_experiment
Unused items (0)
fix_dot — sketchpad
Displays stimuli
Duration 750
black
Show if always
Name auto
0,34 x
1216,-832
Grid 32 px
Debug window
Python 2.7.14
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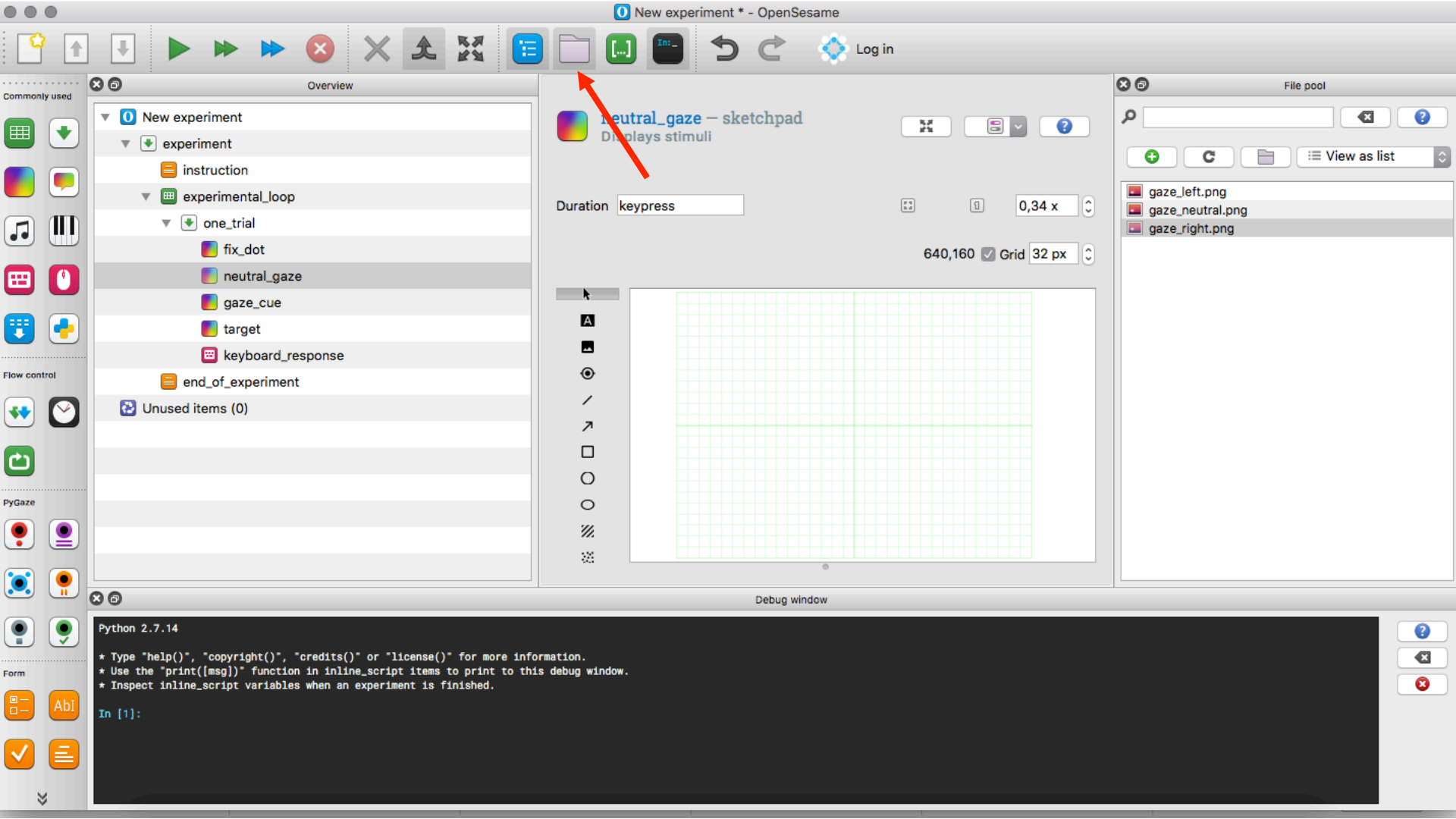
In [1]:

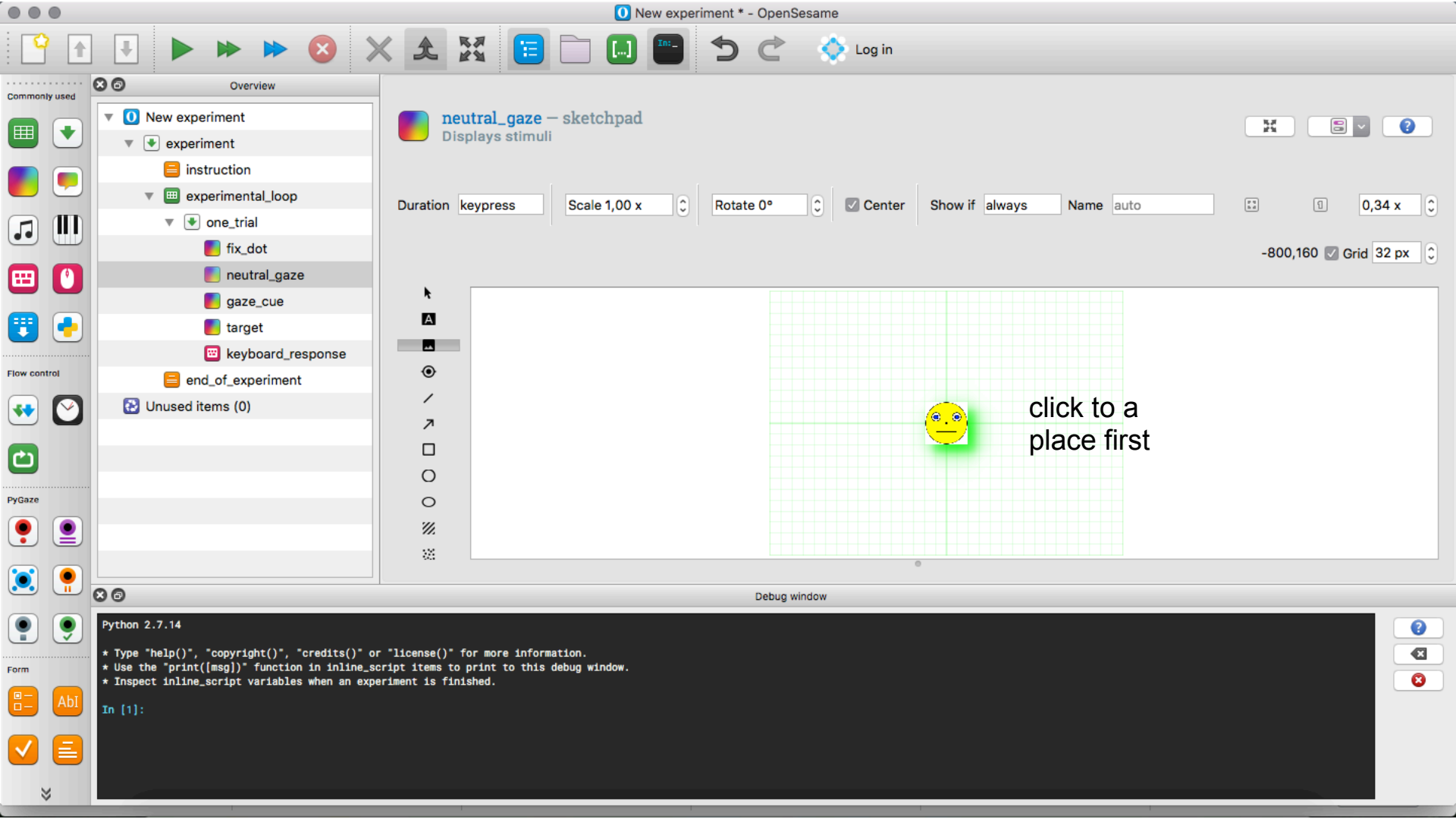
Face images

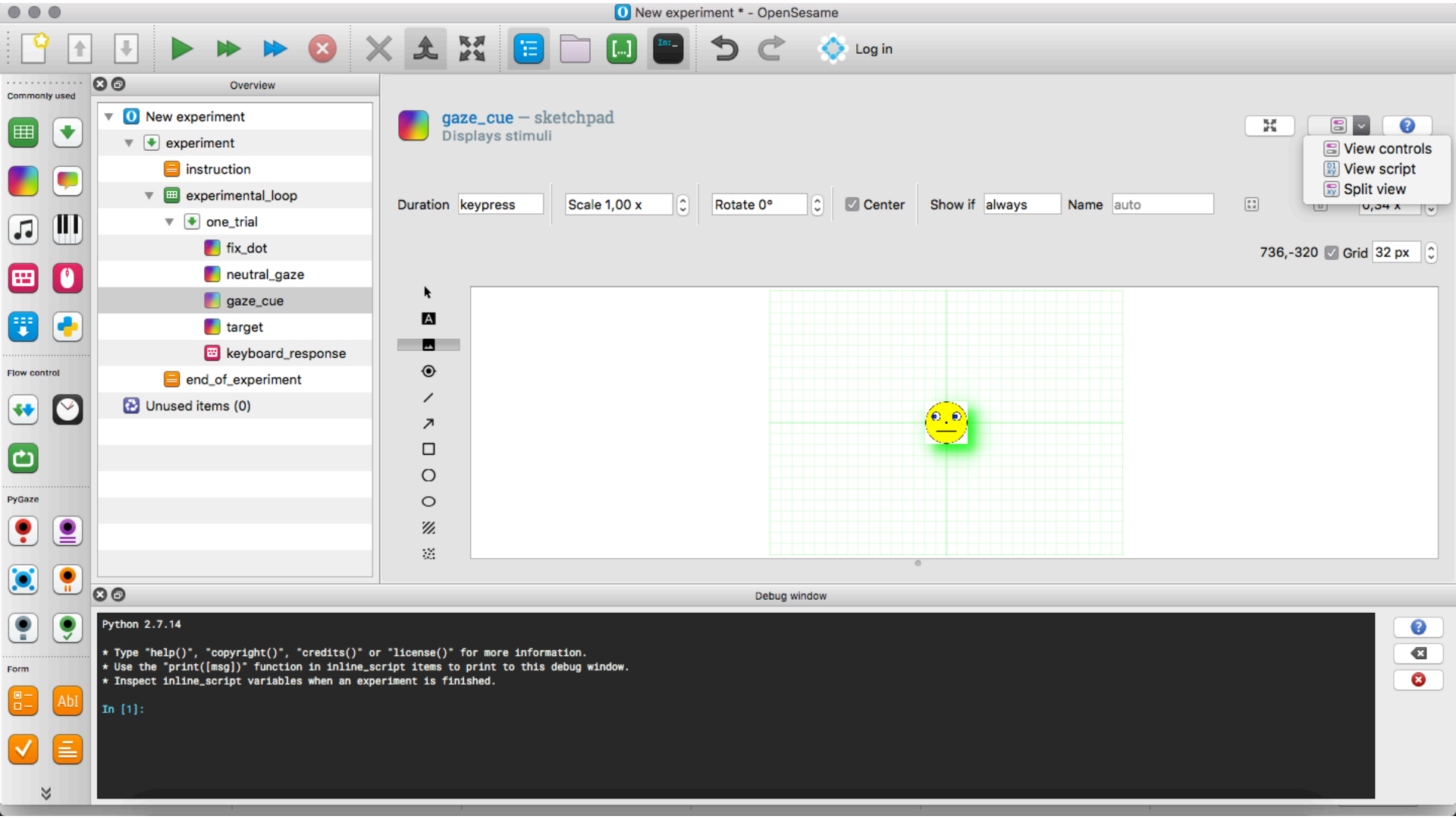
https://osdoc.cogsci.nl/3.2/tutorials/beginner/#step-4-add-images-and-sound-files-to-the-file-pool

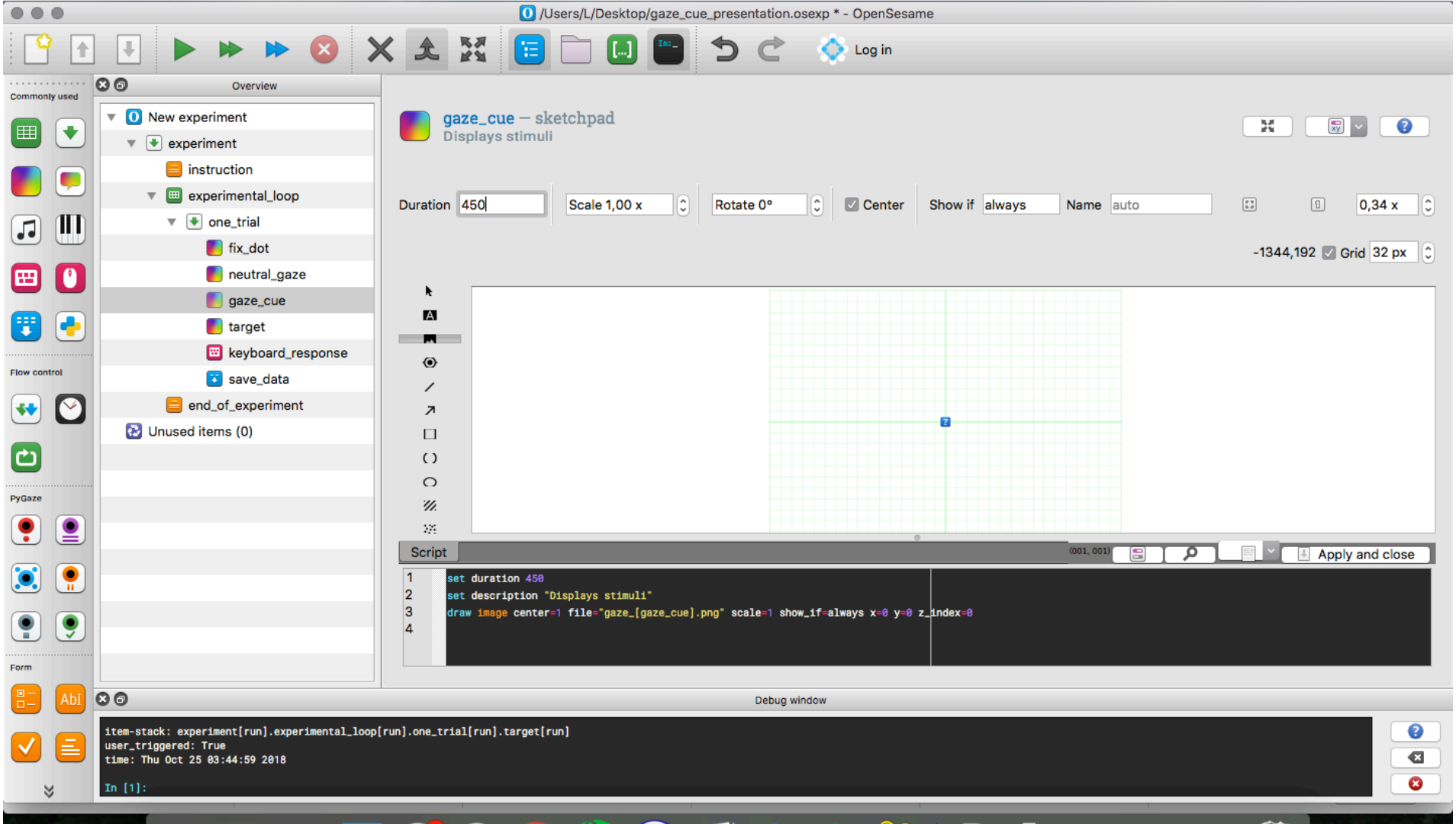
Take the pictures from: OpenSesame website -> Beginners Tutorial -> Step 4

Save at any place on your laptop. Don’t change the names


New experiment * - OpenSesame
Log in
Commonly used
Flow control
PyGaze
Form
Overview
New experiment
experiment
instruction
experimental_loop
one_trial
fix_dot
neutral_gaze
gaze_cue
target
keyboard_response
end_of_experiment
Unused items (0)
eutral_gaze — sketchpad
Displays stimuli
Duration
keypress
0,34 x
640,160
Grid
32 px
File pool
View as list
gaze_left.png
gaze_neutral.png
gaze_right.png
Debug window
Python 2.7.14
* Type "help()", "copyright()", "credits()" or "license()" for more information.
* Use the "print([msg])" function in inline_script items to print to this debug window.
* Inspect inline_script variables when an experiment is finished.
In [1]:


New experiment * - OpenSesame
Log in
Commonly used
Flow control
PyGaze
Form
Overview
New experiment
experiment
instruction
experimental_loop
one_trial
fix_dot
neutral_gaze
gaze_cue
target
keyboard_response
end_of_experiment
Unused items (0)
neutral_gaze — sketchpad
Displays stimuli
Duration keypress
Scale 1,00 x
Rotate 0°
Center
Show if always
Name auto
0,34 x
-800,160
Grid 32 px
click to a
place first
Debug window
Python 2.7.14
* Type "help()", "copyright()", "credits()" or "license()" for more information.
* Use the "print([msg])" function in inline_script items to print to this debug window.
* Inspect inline_script variables when an experiment is finished.
In [1]:


New experiment * - OpenSesame
Log in
Commonly used
Flow control
PyGaze
Form
Overview
New experiment
experiment
instruction
experimental_loop
one_trial
fix_dot
neutral_gaze
gaze_cue
target
keyboard_response
end_of_experiment
Unused items (0)
gaze_cue — sketchpad
Displays stimuli
View controls
View script
Split view
Duration keypress
Scale 1,00 x
Rotate 0°
Center
Show if always
Name auto
736,-320
Grid 32 px
Debug window
Python 2.7.14
* Type "help()", "copyright()", "credits()" or "license()" for more information.
* Use the "print([msg])" function in inline_script items to print to this debug window.
* Inspect inline_script variables when an experiment is finished.
In [1]:


/Users/L/Desktop/gaze_cue_presentation.osexp * - OpenSesame
Log in
Commonly used
Flow control
PyGaze
Form
Overview
New experiment
experiment
instruction
experimental_loop
one_trial
fix_dot
neutral_gaze
gaze_cue
target
keyboard_response
save_data
end_of_experiment
Unused items (0)
gaze_cue — sketchpad
Displays stimuli
Duration 450
Scale 1,00 x
Rotate 0°
Center
Show if always
Name auto
0,34 x
-1344,192
Grid 32 px
Script
Apply and close
1 set duration 450
2 set description "Displays stimuli"
3 draw image center=1 file="gaze_[gaze_cue].png" scale=1 show_if=always x=0 y=0 z_index=0
4
Debug window
item-stack: experiment[run].experimental_loop[run].one_trial[run].target[run]
user_triggered: True
time: Thu Oct 25 03:44:59 2018
In [1]:

Do the same for the “target” sketchpad

X

F

/Users/L/Desktop/gaze_cue_presentation.osexp * - OpenSesame

Log in

Commonly used

Flow control

PyGaze

Form

Overview

- New experiment
  - experiment
    - instruction
    - experimental_loop
      - one_trial
        - fix_dot
        - neutral_gaze
        - gaze_cue
        - target
        - keyboard_response
    - end_of_experiment
  - Unused items (0)

target — sketchpad

Displays stimuli

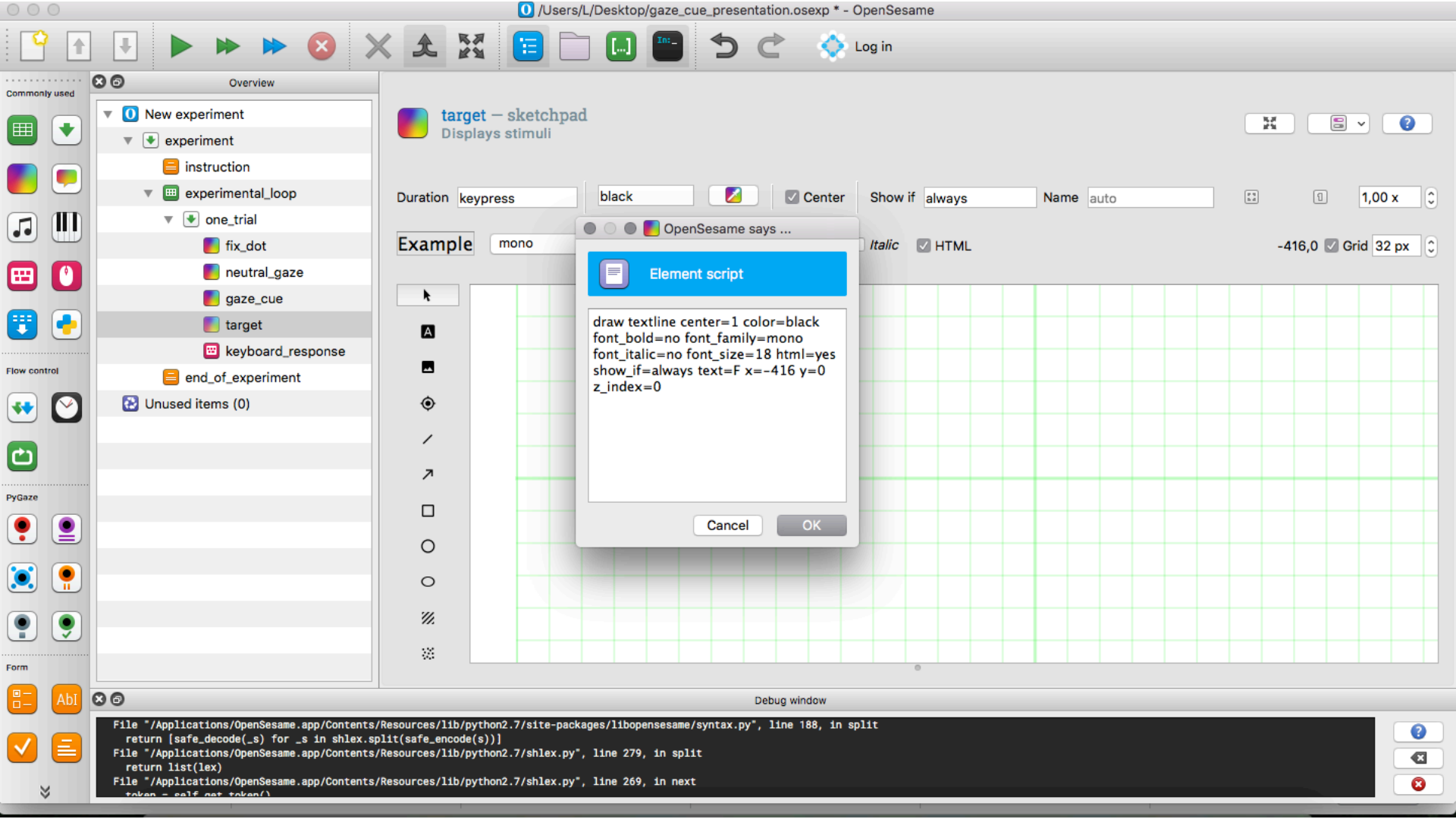
Duration keypress | black | Center | Show if always | Name auto | 1,00 x

Example | mono | 18 px | Bold | Italic | HTML | -416,0 | Grid 32 px

F

Debug window

```
File "/Applications/OpenSesame.app/Contents/Resources/lib/python2.7/site-packages/libopensesame/syntax.py", line 188, in split
  return [safe_decode(_s) for _s in shlex.split(safe_encode(s))]
File "/Applications/OpenSesame.app/Contents/Resources/lib/python2.7/shlex.py", line 279, in split
  return list(lex)
File "/Applications/OpenSesame.app/Contents/Resources/lib/python2.7/shlex.py", line 269, in next
```


/Users/L/Desktop/gaze_cue_presentation.osexp * - OpenSesame
Log in
Commonly used
Flow control
PyGaze
Form
Overview
New experiment
experiment
instruction
experimental_loop
one_trial
fix_dot
neutral_gaze
gaze_cue
target
keyboard_response
end_of_experiment
Unused items (0)
target — sketchpad
Displays stimuli
Duration keypress
black
Center
Show if always
Name auto
1,00 x
Example
mono
Italic
HTML
-416,0
Grid 32 px
OpenSesame says ...
Element script
draw textline center=1 color=black font_bold=no font_family=mono font_italic=no font_size=18 html=yes show_if=always text=F x=-416 y=0 z_index=0
Cancel
OK
Debug window
File "/Applications/OpenSesame.app/Contents/Resources/lib/python2.7/site-packages/libopensesame/syntax.py", line 188, in split
return [safe_decode(_s) for _s in shlex.split(safe_encode(s))]
File "/Applications/OpenSesame.app/Contents/Resources/lib/python2.7/shlex.py", line 279, in split
return list(lex)
File "/Applications/OpenSesame.app/Contents/Resources/lib/python2.7/shlex.py", line 269, in next

/Users/L/Desktop/gaze_cue_presentation.osexp * - OpenSesame

Log in

Commonly used

Flow control

PyGaze

Form

Overview

- New experiment
  - experiment
    - instruction
    - experimental_loop
      - one_trial
        - fix_dot
        - neutral_gaze
        - gaze_cue
        - target
        - keyboard_response
        - save_data
    - end_of_experiment
  - Unused items (0)

target — sketchpad

Displays stimuli

Duration keypress | Scale 1,00 x | Rotate 0° | Center | Show if always | Name auto | 1,00 x

-160,0 Grid 32 px

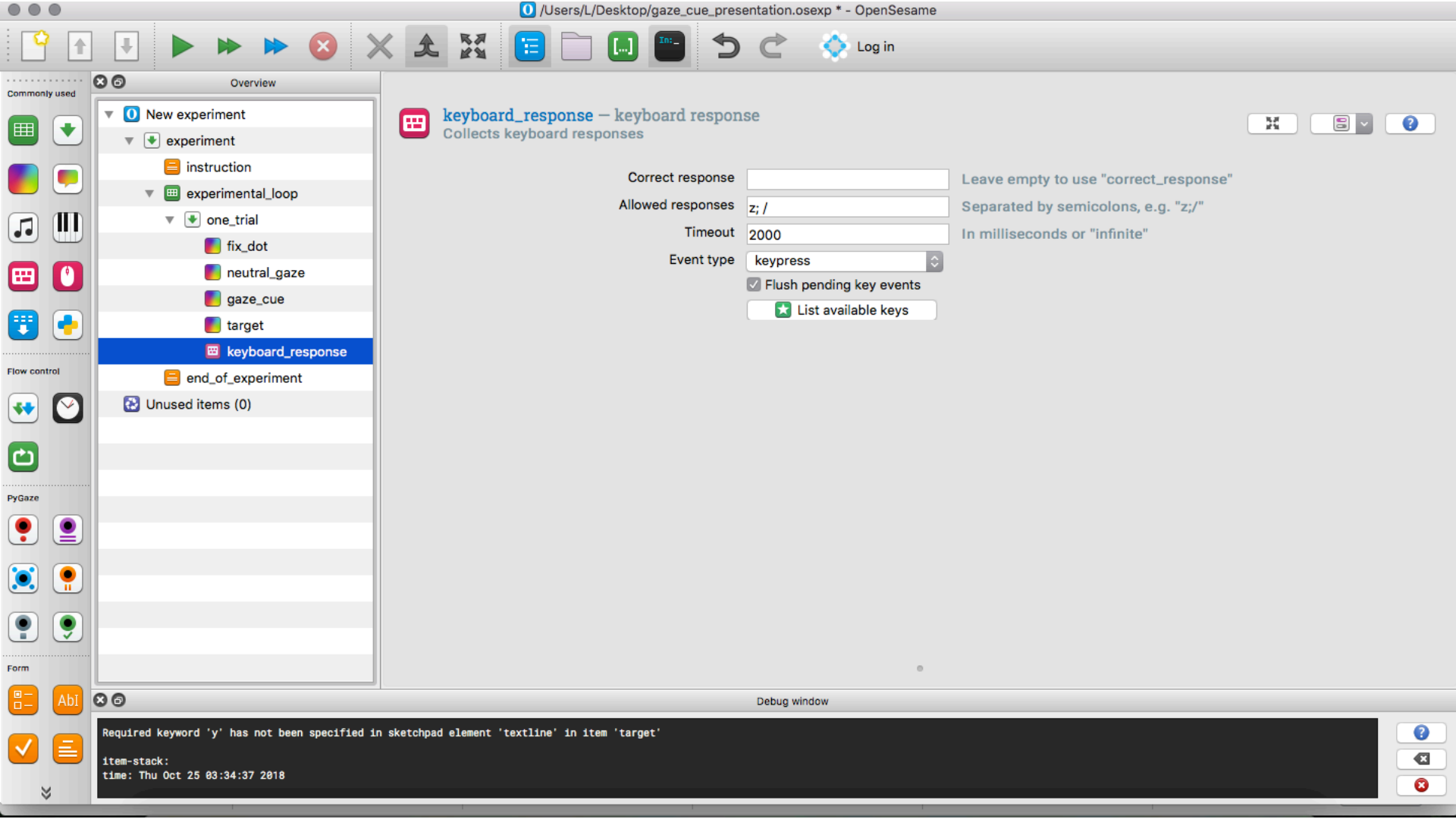
Script (088, 003) Apply and close

```
2  set description "Displays stimuli"
3  draw image center=1 file="gaze_[gaze_cue].png" scale=1 show_if=always x=0 y=0 z_index=0
4  draw textline center=1 color=black font_bold=no font_family=mono font_italic=no font_size=18 html=yes show_if=always text=F x="[target_pos]" y=0 z_index=0
5  draw textline center=1 color=black font_bold=no font_family=mono font_italic=no font_size=18 html=yes show_if=always text=X x="[dist_pos]" y=0 z_index=0
6
7
```

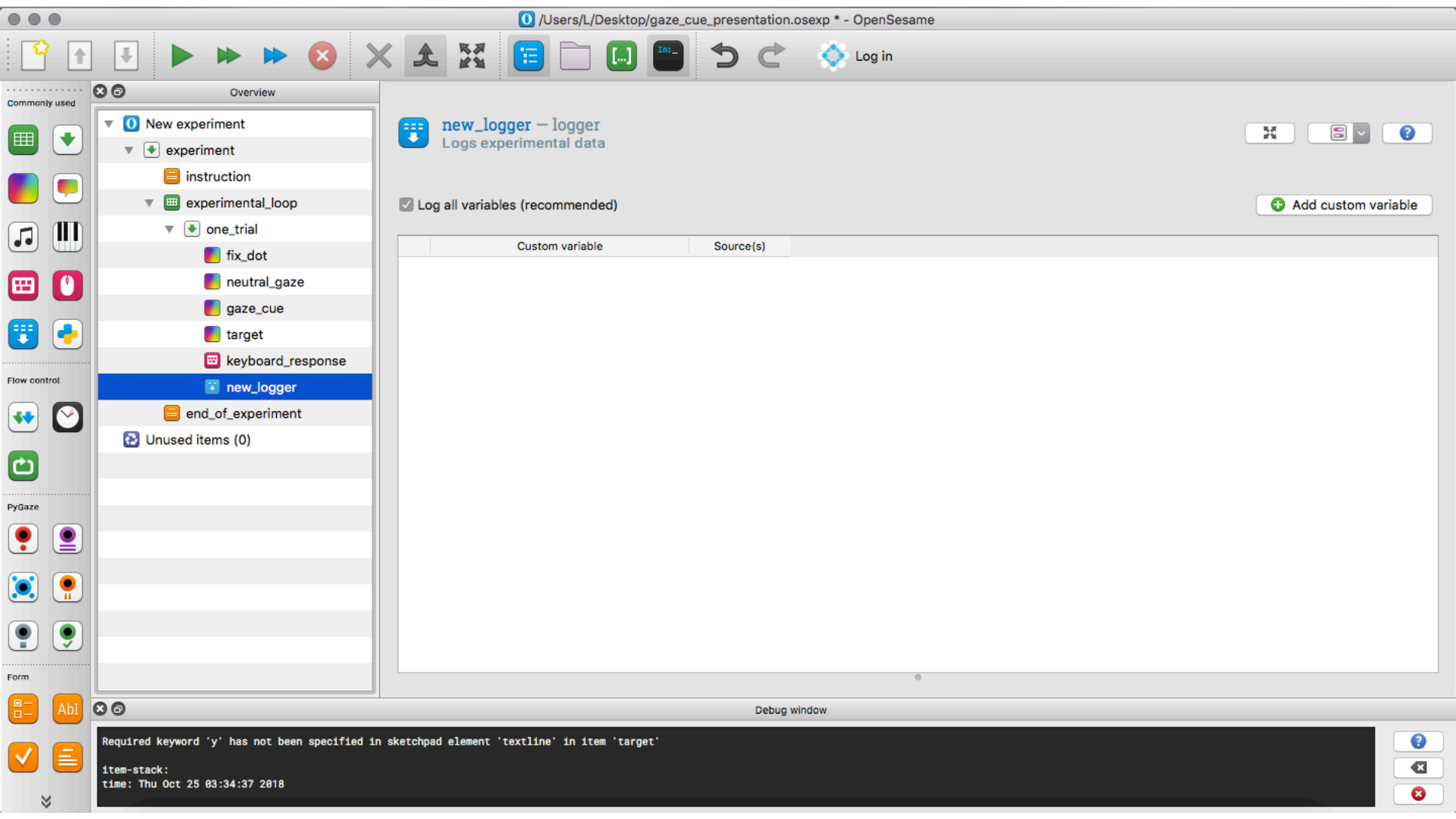
Debug window

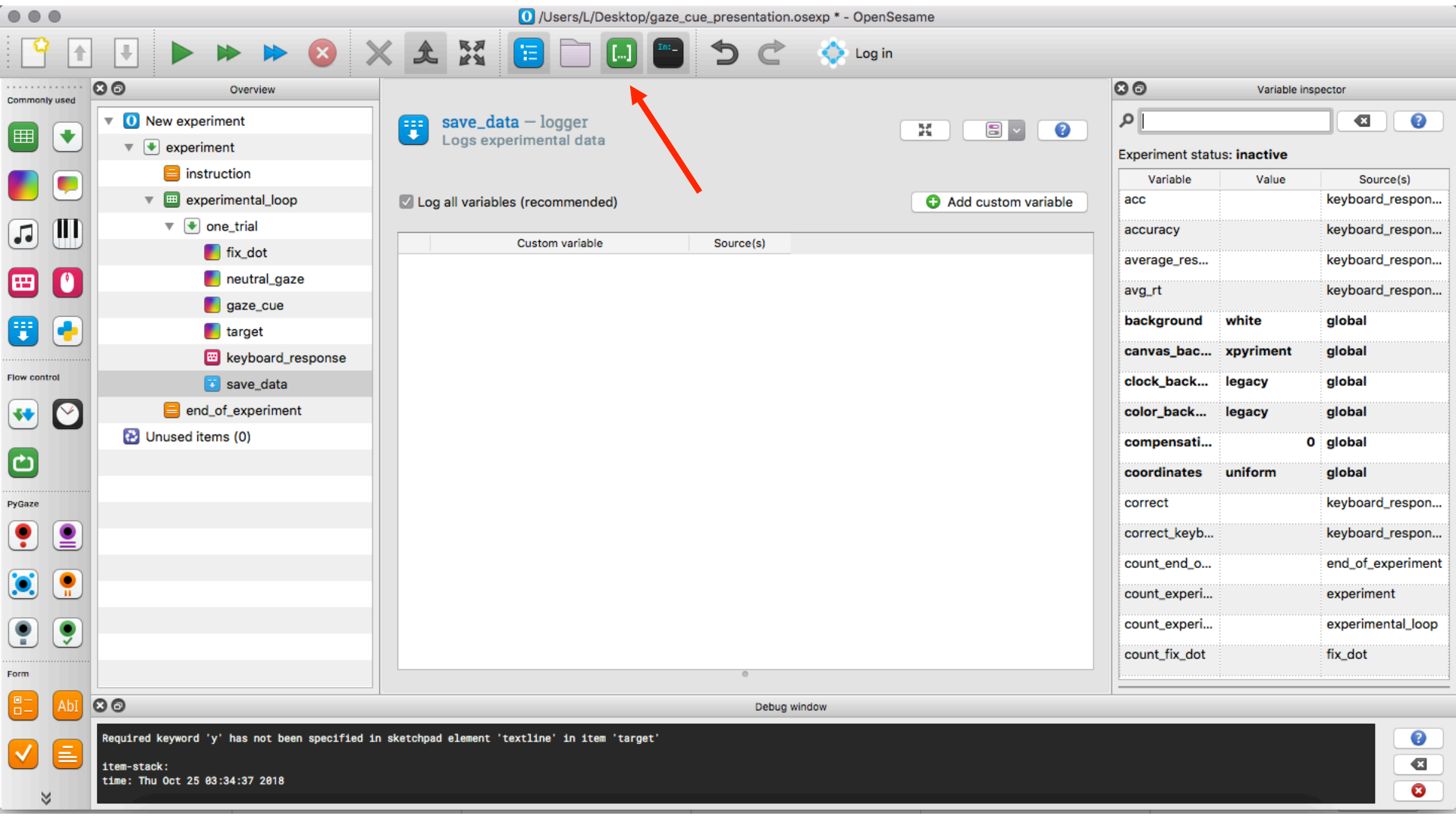
```
item-stack: experiment[run].experimental_loop[run].one_trial[run].keyboard_response[run]
user_triggered: True
time: Thu Oct 25 03:39:47 2018

In [1]:
```

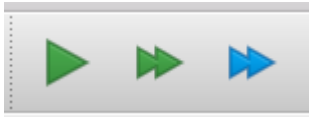

/Users/L/Desktop/gaze_cue_presentation.osexp * - OpenSesame
Log in
Commonly used
Flow control
PyGaze
Form
Overview
New experiment
experiment
instruction
experimental_loop
one_trial
fix_dot
neutral_gaze
gaze_cue
target
keyboard_response
end_of_experiment
Unused items (0)
keyboard_response — keyboard response
Collects keyboard responses
Correct response
Leave empty to use "correct_response"
Allowed responses
z; /
Separated by semicolons, e.g. "z;/"
Timeout
2000
In milliseconds or "infinite"
Event type
keypress
Flush pending key events
List available keys
Debug window
Required keyword 'y' has not been specified in sketchpad element 'textline' in item 'target'
item-stack:
time: Thu Oct 25 03:34:37 2018

Save data


/Users/L/Desktop/gaze_cue_presentation.osexp * - OpenSesame
Log in
Commonly used
Flow control
PyGaze
Form
Overview
New experiment
experiment
instruction
experimental_loop
one_trial
fix_dot
neutral_gaze
gaze_cue
target
keyboard_response
new_logger
end_of_experiment
Unused items (0)
new_logger — logger
Logs experimental data
Log all variables (recommended)
Add custom variable
Custom variable
Source(s)
Debug window
Required keyword 'y' has not been specified in sketchpad element 'textline' in item 'target'
item-stack:
time: Thu Oct 25 03:34:37 2018


/Users/L/Desktop/gaze_cue_presentation.osexp * - OpenSesame
Log in
Commonly used
Flow control
PyGaze
Form
Overview
New experiment
experiment
instruction
experimental_loop
one_trial
fix_dot
neutral_gaze
gaze_cue
target
keyboard_response
save_data
end_of_experiment
Unused items (0)
save_data — logger
Logs experimental data
Log all variables (recommended)
Add custom variable
Custom variable
Source(s)
Variable inspector
Experiment status: inactive
Variable
Value
Source(s)
acc
keyboard_respon...
accuracy
keyboard_respon...
average_res...
keyboard_respon...
avg_rt
keyboard_respon...
background
white
global
canvas_bac...
xpyriment
global
clock_back...
legacy
global
color_back...
legacy
global
compensati...
0
global
coordinates
uniform
global
correct
keyboard_respon...
correct_keyb...
keyboard_respon...
count_end_o...
end_of_experiment
count_experi...
experiment
count_experi...
experimental_loop
count_fix_dot
fix_dot
Debug window
Required keyword 'y' has not been specified in sketchpad element 'textline' in item 'target'
item-stack:
time: Thu Oct 25 03:34:37 2018

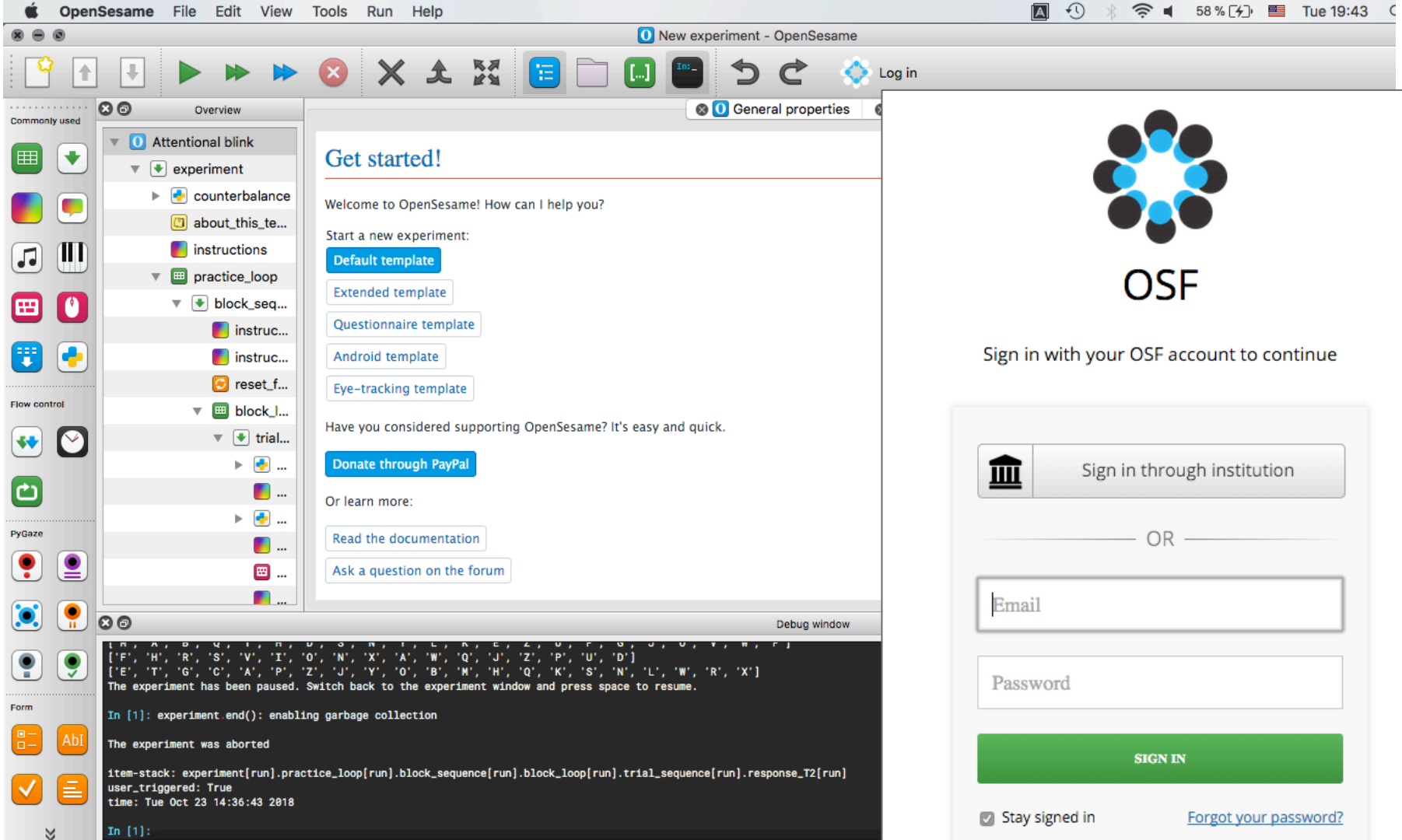
Run the experiment



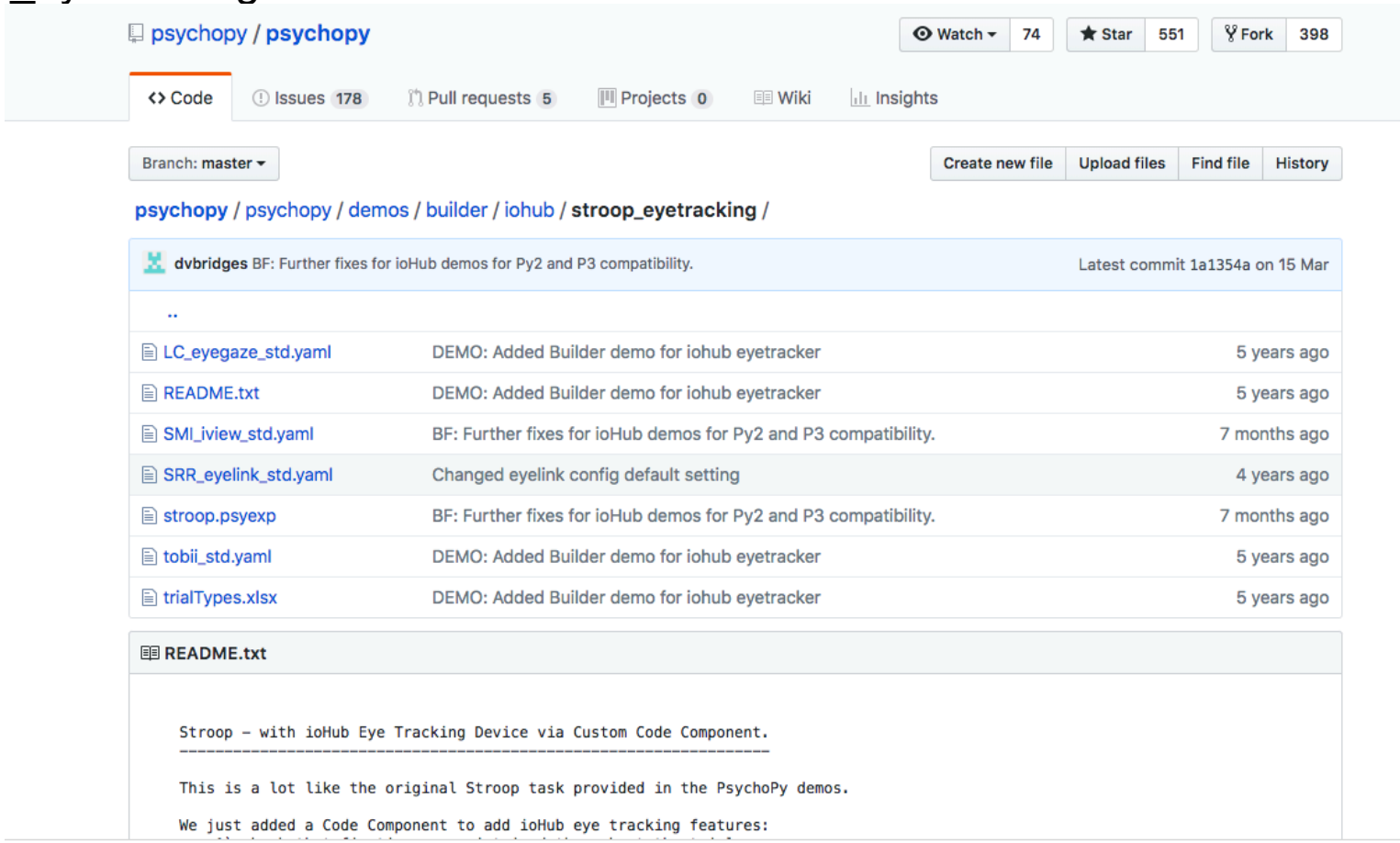
Add eye tracker

1. Initialize eye tracker at the beginning of the experiment (use “advanced dummy mode” for now)
2. Add start and stop recording
3. Save log file each trail

Other options


OpenSesame File Edit View Tools Run Help
Tue 19:43
New experiment - OpenSesame
Log in
Commonly used
Flow control
PyGaze
Form
Overview
Attentional blink
experiment
counterbalance
about_this_te...
instructions
practice_loop
block_seq...
instruc...
instruc...
reset_f...
block_l...
trial...
General properties
Get started!
Welcome to OpenSesame! How can I help you?
Start a new experiment:
Default template
Extended template
Questionnaire template
Android template
Eye-tracking template
Have you considered supporting OpenSesame? It's easy and quick.
Donate through PayPal
Or learn more:
Read the documentation
Ask a question on the forum
Debug window
['F', 'H', 'R', 'S', 'V', 'I', 'O', 'N', 'X', 'A', 'W', 'Q', 'J', 'Z', 'P', 'U', 'D']
['E', 'T', 'G', 'C', 'A', 'P', 'Z', 'J', 'Y', 'O', 'B', 'M', 'H', 'Q', 'K', 'S', 'N', 'L', 'W', 'R', 'X']
The experiment has been paused. Switch back to the experiment window and press space to resume.
In [1]: experiment.end(): enabling garbage collection
The experiment was aborted
item-stack: experiment[run].practice_loop[run].block_sequence[run].block_loop[run].trial_sequence[run].response_T2[run]
user_triggered: True
time: Tue Oct 23 14:36:43 2018
In [1]:
OSF
Sign in with your OSF account to continue
Sign in through institution
OR
Email
Password
SIGN IN
Stay signed in
Forgot your password?

https://github.com/psychopy/psychopy/tree/master/psychopy/demos/builder/iohub/stroop_eyetracking



psychopy / psychopy

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Branch: master | Create new file | Upload files | Find file | History

psychopy / psychopy / demos / builder / iohub / stroop_eyetracking /

dvbridges BF: Further fixes for ioHub demos for Py2 and P3 compatibility. Latest commit 1a1354a on 15 Mar

..

LC_eyegaze_std.yaml	DEMO: Added Builder demo for iohub eyetracker	5 years ago
README.txt	DEMO: Added Builder demo for iohub eyetracker	5 years ago
SMI_iview_std.yaml	BF: Further fixes for ioHub demos for Py2 and P3 compatibility.	7 months ago
SRR_eyelink_std.yaml	Changed eyelink config default setting	4 years ago
stroop.psyexp	BF: Further fixes for ioHub demos for Py2 and P3 compatibility.	7 months ago
tobii_std.yaml	DEMO: Added Builder demo for iohub eyetracker	5 years ago
trialTypes.xlsx	DEMO: Added Builder demo for iohub eyetracker	5 years ago

README.txt

```
Stroop - with ioHub Eye Tracking Device via Custom Code Component.
-----------------------------------------------------------------

This is a lot like the original Stroop task provided in the PsychoPy demos.

We just added a Code Component to add ioHub eye tracking features:
```

OS and Device Support

- Support for the following operating Systems:
    1. Windows XP SP3, 7, 8
    2. Apple OS X 10.6+
    3. Linux 2.6+

- Monitoring of events from computer devices such as:
    1. Keyboard
    2. Mouse
    3. Analog to Digital Converter
    4. XInput compatible gamepad
    5. Eye Tracker, via a Common Eye Tracking Interface

Note

The Common Eye Tracking Interface provides the same user level API for all supported hardware, meaning the same experiment script can be run with any supported eye tracker and the same data analyses can be performed on any eye tracking data saved via ioHub in the ioDataStore as long as the event type being used for analysis is supported by the different implementations used.

The Common Eye Tracking Interface currently supports the following eye tracking systems:

1. LC Technologies EyeGaze and EyeFollower models.
2. SensoMotoric Instruments iViewX models.
3. SR Research EyeLink models.
4. Tobii Technologies Tobii models.