

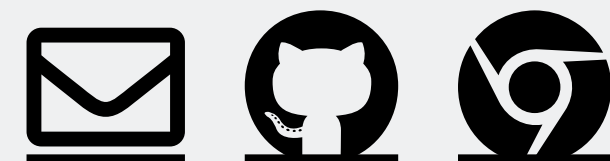
# Second Language Acquisition

**LG 376 — Semester 2, 2021 (Jan-May 2022)**

**LAB 1: INSTALLING PSYCHOPY**

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# Lexical decision task (LDT)

**Lexical decision task** (LDT) in psychology and psycholinguistic experiments

- coined by David E. Meyer and Roger W. Schvaneveldt in the 1970s
- used widely in studies testing semantic memory and lexical access
- known as *lexical decision*, *lexical acceptability*, *phrasal decision*, *phrasal acceptability*

# Lexical decision task (LDT)

In LDT, participants decide if a stimulus is a word or a non-word\*

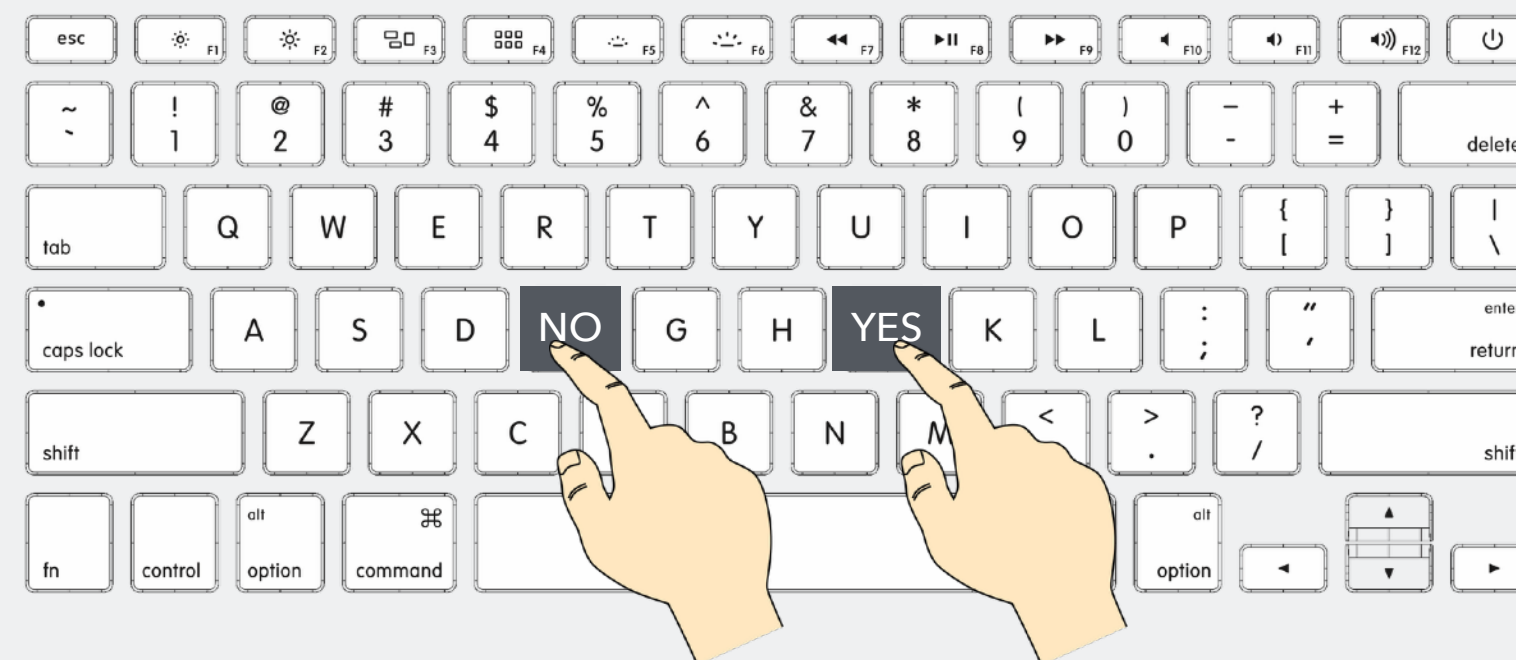
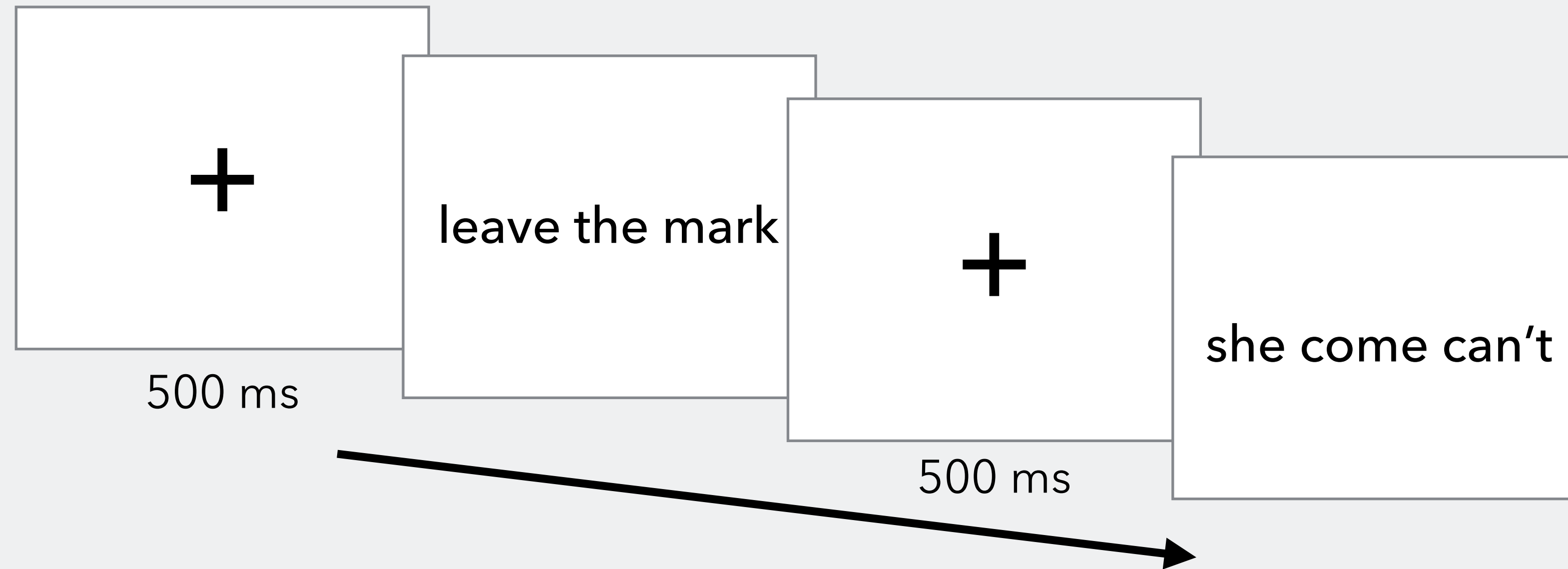
- Each stimulus presented visually or auditorily
- Words & non-words thrown in together
  - *home, dome, mehd, synt, fome, foam, ....*
- Response collected via button press (i.e., YES and NO on a keyboard)
- Task often combined with other techniques (priming, etc.)

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\*or phrases (and non-phrases)



# LDT variation: A phrasal decision task



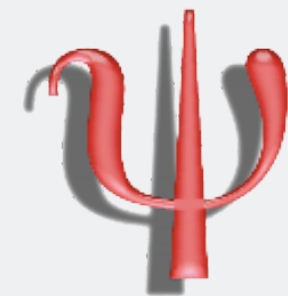
# Speaking of programs...

We need to use a program that can measure the responses and reaction times (RTs) of the subjects



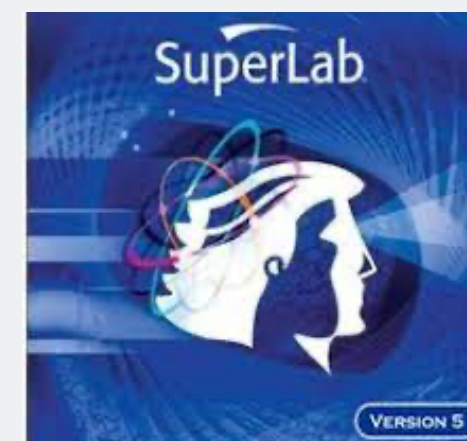
Windows

\$995\*



Mac

Free



Windows, Mac

\$695\*



Windows

Free



Web (JavaScript)

Free

# Why PsychoPy?

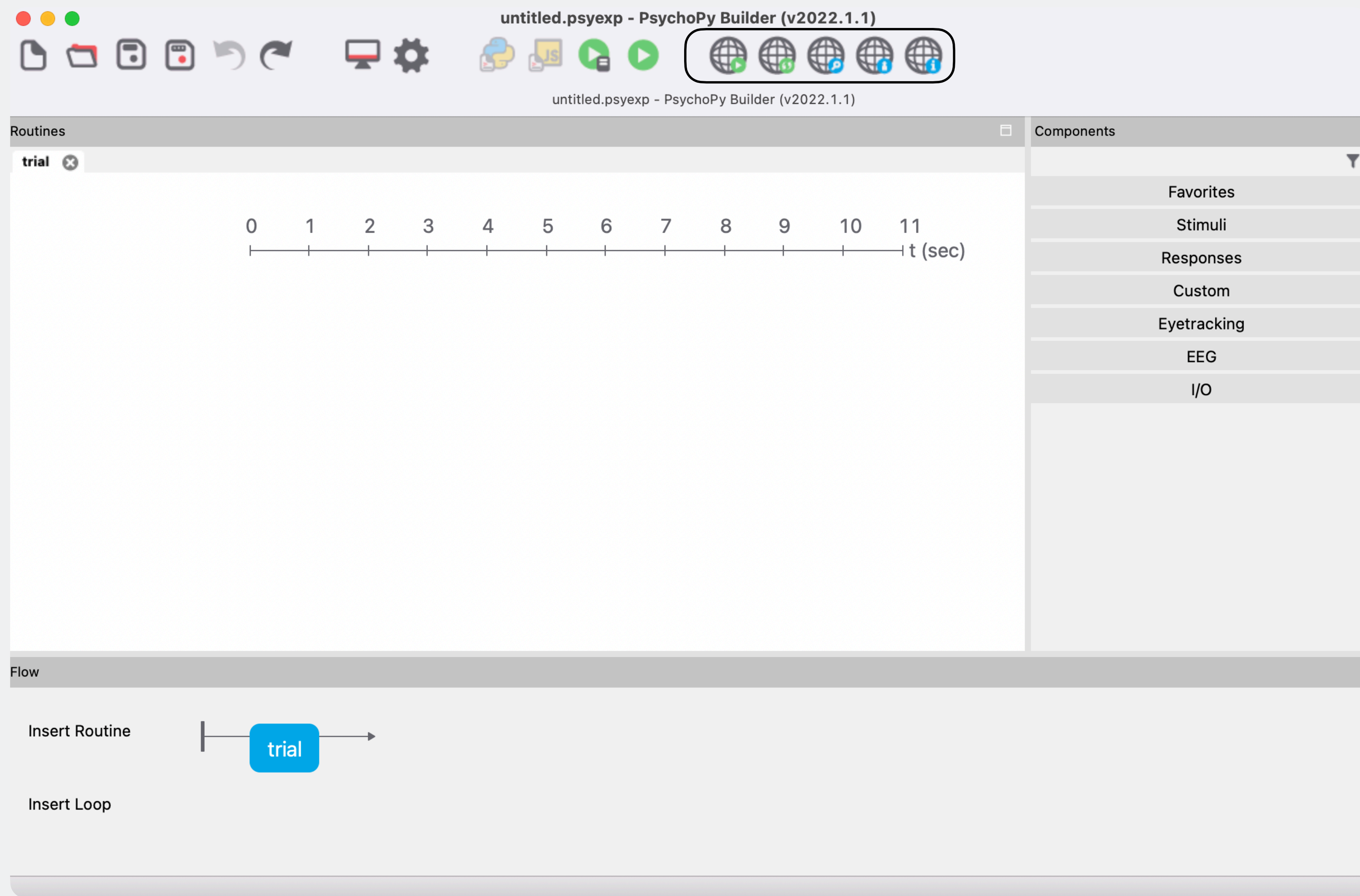
- Originally a Python library (in 2002) for psychophysics experiments
- Since PsychoPy 2 release, **Builder** interface (GUI)
- Cross-platform (Windows, Mac OS X, Linux)
- With PsychoPy 3, online web-based experiment (Python → JavaScript)
- Go to [www.psychopy.org](http://www.psychopy.org) to download the program (**Install** on top menu)

# PsychoPy basics

- When you first run PsychoPy, two windows will pop up
  - **Coder:** run scripts and do simple programming in Python
  - **Builder:** create experiments with click & drop and run them
- we will be using the Builder view most of the time, so close the Coder view for now (you can get it back from the View menu if you need to)

# PsychoPy basics

Routines



Components

Flow