

# PsychoPy

Experiment generation software in python;  
*precise* enough for psychophysics,  
*simple* enough for teaching,  
*flexible* enough for everything in between

## Features

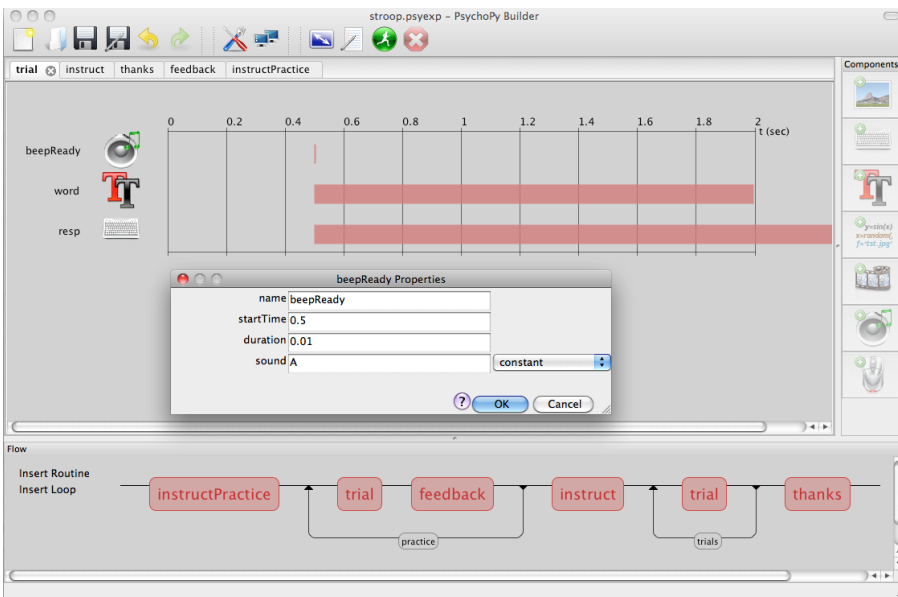
- Huge variety stimuli (see screenshots overleaf) generated in real-time:
  - linear gratings, bitmaps constantly updating
  - radial gratings
  - random dots
  - movies (DivX, mov, mpg...)
  - text (unicode in any truetype font)
  - shapes
  - sounds (tones, numpy arrays, wav, ogg...)
- Fully platform independent
- Real world units (degrees, cm, or pixels)
- 'Coder' interface for those that like to program
- 'Builder' interface for those that don't
- input from keyboard, mouse or button boxes
- Simple install process
- Multi-monitor support
- Automated monitor calibration

## Hardware integration

*PsychoPy* supports communication via serial ports, parallel ports and compiled drivers (dlls and dylibs), so it can talk to any hardware that your computer can! Interfaces are prebuilt for;

- Spectrascan PR650/655/PR670
- Minolta LS100/110
- Cambridge Research Systems Bits++
- Cedrus response boxes





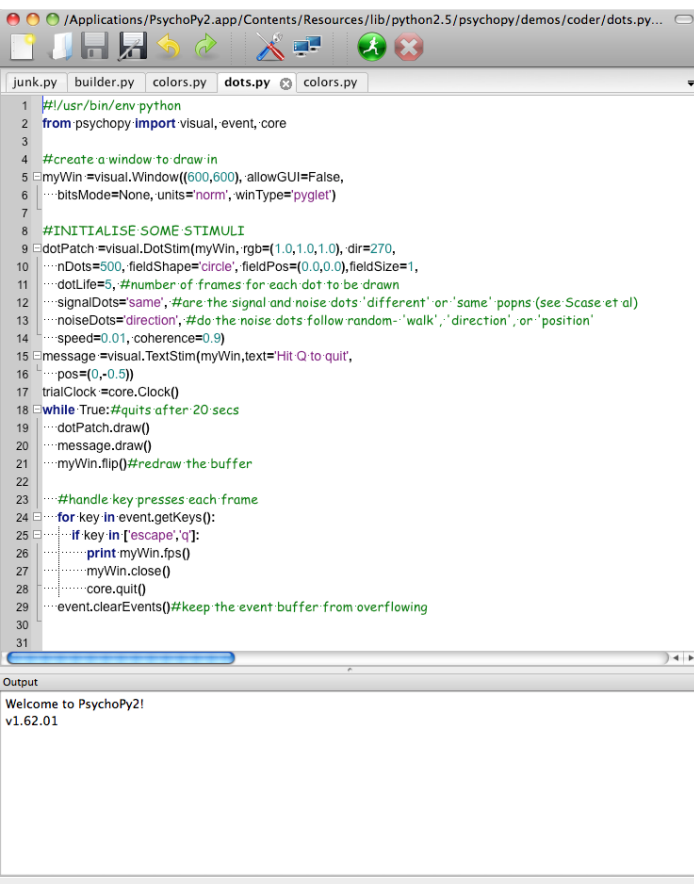
## Builder interface

A flexible, intuitive way to run experiments or generate new scripts.

Create *Routines*, with precise timing relationships. Combine *Routines* in a *Flow* to control repetition in a clear and flexible way. Copy and paste *Routines* between experiments.

When you're done either run the experiment or compile a script for further customisation.

## Coder interface; ultimate control for those that like to program



The coder view is a fully-functional Python editor with syntax highlighting, smart indenting and code folding. From here you can load demos and run any Python script with the output shown in the bottom panel.

## Wide range of stimuli, generated in realtime

