

# APS Workshop: **Introduction to Python** San Francisco, CA, 24 May 2018



## **Experiment Creation**

Christian C. Luhmann Stony Brook University

#### **Relevant Packages**

- psychopy
- pyserial
- pyparallel
- pyopengl
- pyglet
- moviepy
- pillow

- Originally created by Jon Pierce
- Initiated as a python replacement for Psychtoolbox
  - But it has grown in to much, much more
- It is recommended to install the Psychopy standalone alongside any data-centric python installation you might have (e.g., Anaconda)
- The "standalone" version of PsychoPy includes...
  - Python (2.x or, as of April 2018, 3.x)
  - PsychoPy
  - all the other packages required by PsychoPy

- Coder
  - Coder is PsychoPy's IDE (like Spyder)
  - Provides already-written demos and examples
- Builder
  - No programming required
  - Experiments are built using a graphical interface
  - (A couple) Demos/examples already built
- Can also use PsychoPy as a regular package within python (2.x or 3.x)

• Running PsychoPy (using the shortcut created during installation) should get this...

# Finish me

#### **Experiment Creation**

Let's go **build** some experiments!

#### **Take-homes**

• Hopefully you have now learned...

## Finish me

#### **Outline**

- 1. Overview
- 2. Ways of using Python
- 3. Python basics
- 4. Data set overview
- 5. Data wrangling
- 6. Statistics
- 7. Plotting
- 8. Experiment creation