Paper 3 – Description and Procedure

* Study the effect of the Stroop Test and noise distractors on response times
  + Testing the effect of interference
* Two independent variables
  + Stroop test – two levels
    - Easy (congruent words and colors)
    - Hard (incongruent words and colors)
  + Noise condition – two levels
    - Easy (no noise distractor)
    - Hard (with noise distractor)
* Dependent variable – response time

**Research Questions**

* Is there a difference in response times on the Stroop congruent and incongruent conditions?
* Does having a distractor, such as an annoying sound, affect response time on the Stroop task?
  + Is there an interaction between the Stroop test and noise distractor on response time?

**Hypotheses**

\*Hypothesis on main effect of IV1 – Stroop test level

Hypothesis on main effect of IV2 – noise condition

\*Hypothesis on interaction – Stroop with noise

**\*Need at least these two hypotheses**

We hypothesize that there will be a significant difference between response times with Stroop test difficulty levels. [MAIN EFFECT]

The participants’ response times will be faster in the congruent Stroop test than in the incongruent Stroop test. [MAIN EFFECT]

We predict that there will be a main effect of Stroop difficulty on the response time. [MAIN EFFECT]

We hypothesize that there will be an interaction between Stroop test difficulty and the noise condition on response times. [INTERACTION]

**Running the Stroop Experiment:**

Run Stroop experiment in pairs

**The experimenter should:**

1. Go to our website and open the googledoc where we will input our data
2. Plug in your headphones to test your sound level
   1. Youtube video to test sound (on website)
   2. Pick comfortable volume – probably around 20%
3. Open Stroop Test (also on website)
4. Open annoying sound youtube video, pause until you’re ready
5. Run trials in the order of your slip of paper
   * + **A:** Easy practice test (congruent words and colors), no sound
     + **B:** Easy practice test (congruent), with sound
     + **C:** Real hard test (incongruent), no sound
     + **D:** Real hard test (incongruent), with sound
6. Take 30 second break between each trial – chat, drink water, move around…
7. Input times into googledoc (on website)
8. Complete one partner, all 4 trials
9. **Bring slip back to me and get a new slip**
10. Follow same procedure with 2nd participant

**Participant should only be reciting words, not doing anything on the computer**