Prototyping Transfer Functions

Describe (in a PDF document) an experiment, in which you could evaluate your transfer functions. Focus on your potential study design, your hypothesis dependent and independent variables as well as the task which participants would have to perform.

The experiment would test the amount of time taken for the participants to click a button to complete the mission with having one of the randomly chosen transfer functions to work for each trial. From the current processing code, an additional implementation of a button to click, for the purpose of recording the amount of time taken for the participant to click the button will be recorded and will be used to end one trial. As a result, the independent variable for the experiment will be the randomly selected transfer functions for each trial. The dependent variables will be the response time taken for the participant to press the button. The purpose of randomizing the transfer functions for each trial was with the intention that the participant would not get the hang of how to control the cursor, thus shortening the response time. Despite our efforts to stop the user from getting the hang of controlling the cursor throughout the trials, it is hypothesized that the participant will shorten the response time needed, in comparison to the earlier trials. Moreover, by comparing the collected data it would be possible to compare the average response time with the different transfer functions to detect what the participants found harder, in terms of the different transfer functions.