

Instructions for Dominant vs. Nondominant Reaction Time Test

Purpose:

The purpose of this experiment is to investigate the effect of reaction time on the dominant and nondominant hand. Human beings are born with some differences. One of those differences is the difference in neural activity that happens in the left and right hemispheres of the brain which tends to influence whether the left or right hand is dominant to the other hand. One of the ways to investigate these differences is by analyzing the hands' reaction times. Our approach to this experiment will be done using the Brain Gauge.

-PLEASE FILL THIS SHORT SURVEY BEFORE COMPLETING THE BATTERY

<https://forms.gle/ivtqX7eAoxTJfK3s7>

Open the Brain Gauge App.

Click on "Pro" (on the top right hand corner of the window).

Click on "Logout" (at the bottom right hand corner).

Click on "Already Have an Account?"

Log in with this information:

Email: fall2020-group1@cmetrics.co

Password: fall2020

Once you log-in, type in your subject ID number.

-This experiment will have two sets of trials.

Open the battery "Reaction Times". In this battery you will find the following tests:

- Hardware Reaction Time
- Hardware Choice Reaction Time

-Before starting, note:

- Even subject ID - if the last digit of your subject ID is even (0,2,4,6,8)
- Odd subject ID - if the last digit of your subject ID is odd (1,3,5,7,9)

-Run the battery once for each hand while sitting down.

Note: Before each time that you run the battery, ensure to select the corresponding hand (left or right) on the Testing Options. If the correct Testing Option was selected, then when the training

starts, the index finger corresponding to that hand should be pressed. If not, start over and ensure to select the correct Testing Option.

-The subjects with even subject ID numbers will perform the reaction time battery using their dominant hand first and then, right after, perform this battery again but using their non-dominant hand.

-The subjects with odd subject ID numbers will perform the reaction time battery using their non-dominant hand first and then, right after, perform this battery again but using their dominant hand.