

Test a Perceptual Phenomenon

This is a statistical project that is part of the Udacity Machine Learning Nanodegree. Use descriptive statistics and a statistical test to analyze the Stroop effect, a classic result of experimental psychology. Give your readers a good intuition for the data and use statistical inference to draw a conclusion based on the results

Project Overview

In this project, you will investigate a classic phenomenon from experimental psychology called the Stroop Effect. You will learn a little bit about the experiment, create a hypothesis regarding the outcome of the task, then go through the task yourself. You will then look at some data collected from others who have performed the same task and will compute some statistics describing the results. Finally, you will interpret your results in terms of your hypotheses.

What will you Learn?

- This project will review the basic concepts of statistics, including:
- How to identify components of an experiment
- How to use descriptive statistics to describe qualities of a sample
- How to set up a hypothesis test, make inferences from a sample, and draw conclusions based on the results