

PROJECT

Test a Perceptual Phenomenon  
A part of the Data Analyst Nanodegree Program

PROJECT REVIEW

NOTES

Meets Specifications

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Question 1: Identify variables in the experiment

✓ Question response correctly identifies the independent and dependent variables in the experiment.

Question 2: Establish a hypothesis and statistical test

✓ Null and alternative hypotheses are clearly stated in words and mathematically. Symbols in the mathematical statement are defined.

The null and alternative hypothesis are accurate.

✓ A statistical test is proposed which will distinguish the proposed hypotheses. Any assumptions made by the statistical test are addressed.

The statistical test that you choose is appropriate.

Question 3: Report descriptive statistics

✓ Descriptive statistics, including at least one measure of centrality and one measure of variability, have been computed for the dataset's groups.

The mean, variance and standard deviation that you calculate for each condition are accurate.

Question 4: Plot the data

✓ One or two visualizations have been created that show off the data, including comments on what can be observed in the plot or plots.

Well Done!! the charts depict the times difference between the two conditions.

Question 5: Perform the statistical test and interpret your results

✓ A statistical test has been correctly performed and reported, including test statistic, p-value, and test result. The test results are interpreted in terms of the experimental task performed.

Well done for the implementation and the clear interpretation of the statistical test

Question 6: Digging deeper and extending the investigation

✓ Hypotheses regarding the reasons for the effect observed are presented. An extension or related experiment to the performed Stroop task is provided, that may produce similar effects.

Intresting discussion about the Stroop effect.

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