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.**

Well done! Null and alternative hypotheses have been specified correctly.

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.**

- Great work by setting up the correct null and alternative hypotheses.
- Mathematical symbols are specified correctly by following the convention referring to the population means.

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

Well done for providing the correct test choice with justification on

- why it is a t-test
- why it is a dependent t-test

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.**

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.**

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 by showing the key test statistics correctly step by step.
Conclusion drawn is well aligned with the test result.

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.**

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