UDACITY

Logo

PROJECT

Test a Perceptual Phenomenon

A part of the Data Analyst Nanodegree Program

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Meets Specifications

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Dear student,

Congratulations on finishing this difficult project! Good job! Your work definitely shows your strong statistical reasoning ability. Remember that all the hard work will pay back. Keep up your good work! :)

Responses to Project Questions

✓ **Q1: Question response correctly identifies the independent and dependent variables in the experiment.**

✓ **Q2a: Null and alternative hypotheses are clearly stated in words and mathematically. Symbols in the mathematical statement are defined.**

Good job describing the null and alternative hypotheses. Note that the tricky part is that the hypotheses are used to make inferences about the population rather than the samples. So the mean values should be population means.

The mathematical statement should be something like this:

```
H0: μold = μnew
HA: μold ≠ μnew
```

✓ **Q2b: A statistical test is proposed which will distinguish the proposed hypotheses. Any assumptions made by the statistical test are addressed.**

✓ **Q3: Descriptive statistics, including at least one measure of centrality and one measure of variability, have been computed for the dataset's groups.**

✓ **Q4: One or two visualizations have been created that show off the data, including comments on what can be observed in the plot or plots.**

✓ **Q5: 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.**

✓ **Q6: 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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