UDACITY

PROJECT

Test a Perceptual Phenomenon

A part of the Data Analyst Nanodegree Program

PROJECT REVIEW

NOTES

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Meets Specifications

Dear student,

you made it for a very good project, well done successfully addressing every previous issue. I've left some optional comments on how to further improve the test in section 2 in case you might be interested.

Congratulations on passing your exam!

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.

Optional: You answer meets specifications when choosing a two-tailed test though, in this case, the most appropriate set of hypotheses is that there is no difference in completion time between incongruent and congruent conditions (Null), while the alternative hypothesis is that the incongruent condition will take significantly longer than the congruent condition:

H0: μC = μI (or μC ≥ μI);
Ha: μC < μI

This would be a one-tailed test as there are reasons to assume directionality beforehand.
Please refer to this link for more information on direction hypothesis: http://support.minitab.com/en-us/minitab/17/topic-library/basic-statistics-and-graphs/hypothesis-tests/basics/directional-and-nondirectional-hypotheses/
http://support.minitab.com/en-us/minitab/17/topic-library/basic-statistics-and-graphs/hypothesis-tests/basics/what-is-a-hypothesis-test/

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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