UDACITY

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Test a Perceptual Phenomenon

REVIEW

HISTORY

Requires Changes

1 SPECIFICATION REQUIRES CHANGES

What a wonderful project 👏🏼
However, I left some suggestion below, please check :)

Responses to Project Questions

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

You have correctly stated the variables :)
But to enhance the answer, you could have said that the **independent variable** is **the congruency of the colour and text**. For the **dependent variable**, **Duration (time) to recognise the colours or the texts**

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

You have provided correct hypotheses statements in words and math symbols 👏🏼 Furthermore, you have clearly defined this symbols. This is important as people may have different interpretation about the symbols :)

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

It is cotter to use two-tailed t-test :)
However,

- Is it paired or unpaired?
- You have missed an important information, which is the assumptions to be made :)
  Please Read this and Read this

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

Correct calculations :)

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.

I love your plots :)
But can we say the distribution is normal or not normal by the small sample size that we have?
I suggest you to compare the experiments so you can predict the outcome of the hypothesis testing :) Hint: use boxplot or stacked histogram

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. Alternatively, students may use a bootstrapping approach to simulate the results of a traditional hypothesis test.

You have correctly calculated your statistics value and conclusion is well drawn 😉

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.

You have provided an interesting perspective here!
I want to give you another example of the case. It also usually used for marketing purposes (source). People tend to focus on the text context instead of the reality.

RESUBMIT

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Student FAQ