

PSYC 7720 Lab

Lab 12 Activity

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Directions:

- A. Download the `taste_data.csv`. This is a two-factor within subjects design with an additional between subjects factor (similar to a split-plot design). In this simulated data, participants were given 6 fruits that tasted either sweet, sour, or bitter as well as either round or angular in shape. They were then asked to give each fruit a rating between 0 (threatening) and 100 (pleasant). Half the participants completed the task at breakfast time, while the other half completed the task at lunch time.
- B. Answer the following questions and save the code you used in an R script.
- C. You have until the end of lab to complete.

Questions:

1. To practice, run a one-way multivariate RM ANOVA on taste, ignoring the shape of the fruit.
2. Run the more appropriate analysis here, the full two-way multivariate RM ANOVA on taste and shape. Interpret the results of the omnibus test.
3. Finally, run the same model as question 2 but add the between-subject factor *Meal_Time*. Interpret the results of the omnibus test.