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Readings

Reading Check due
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UTC 

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Week 3: Hypothesis Testing (Two Group Means) > Lab > Reflect on the Question



Bookmark

Reflect on the Question

Analyze the Data

Draw Conclusions

Lab 3: Post Student-Survey Data



Students at The University of Texas at Austin answered a set of questions for us at the beginning of the semester and then again at the end. We'll use this data to compare different groups, and to explore what has (or has not) changed over time for these students. **Please note that in the United States, college and university students may choose to participate in social clubs called "sororities" and "fraternities." These social clubs are known as "Greek" clubs.**

(2/2 points)

Review of Two-Sample t-Tests


In this lab, you will use **two-sample t-tests** to answer a question of interest. Let's start by remembering why we use these hypothesis tests.

Two samples are considered **dependent** when:

- ☒ each score in one sample is paired with a specific score in the

R Tutorial Videos


Pre-Lab

Pre-Lab due May 03, 2016 at 17:00 UTC 

Lab

Lab due May 03, 2016 at 17:00 UTC 

Problem Set


Problem Set due May 03, 2016 at 17:00 UTC 

► Week 4: Hypothesis Testing (Categorical Data)

other sample. 

- ☐ the variables of interest are both measures of time.
- ☐ we expect the difference to be statistically significant.
- ☐ the subjects have not been randomly assigned.

Two samples are considered **independent** when:

- ☐ there is no statistically significant difference between the means of both samples.
- ☐ the scores are recorded without measurement error.
- ☒ the scores of one sample do not affect the scores of the other sample. 
- ☐ the subjects are being measured on variables that are time-dependent.

You have used 1 of 1 submissions

(2/2 points)

Lab Preparation

In this lab you will be working with data from the UT Post Student Survey.

1. Open RStudio. Make sure you've installed the SDSFoundations package.
2. Type `library(SDSFoundations)`. This will automatically load the data for the labs.
3. Type `post <- PostSurvey`. This will assign the data to your Workspace.

Alternatively, you can follow the steps in the "Importing a Data Frame" R tutorial video, and use the PostSurvey.csv file. (Right-click and "Save As.") Make sure to **name** the dataframe "post" when importing.

1. Open RStudio.

2. Click on "Import Dataset" button at the top of the workspace window. Choose "from text file."
3. Click on the location of the PostSurvey.csv file you just downloaded.
4. Click on the PostSurvey.csv file. Then, click Upload.

Feel free to use the script from the week's PreLab, which you can modify for use in this Lab.

We will be answering **each** of the following questions in lab. Match each question to the type of t-test needed to run the analysis.

Question 1: Do students at UT spend more time on homework per week in college than they did in high school?

dependent t-test ▼



Answer: dependent t-test

Question 2: Do students in fraternities and sororities get less sleep on the weekends than other college students?

independent t-test ▼



Answer: independent t-test

You have used 1 of 1 submissions

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