Daily Homework

Read, from the Lock5 text

- Section 1.1, in full
- Section 2.1, pp. 46–49 up to "Two Categorical Variables: Two-Way Tables"
- Section 2.2, pp. 60–64 up to "The Center of a Distribution"

Exploration

- Watch the video at `http://scofield.site/courses/s145/videos/RStudioIntro.mp4`. Have another browser window or tab open, and carry out the steps you see performed in the video, as completely as possible.
- After watching the video, use RStudio to carry out these tasks. There is no formal write-up required of you, but you are required to submit a question to the class forum as described below.

    1. Make RStudio display the data of **StudentSurvey** (a Lock5 data set; make sure you have the "Lock5withR" package loaded) that appears much the same as Table 1.1 on p. 4 in the Lock5 text.
    2. Determine the names of the variables in the **NutritionStudy** data frame (another Lock5 data set)
    3. Produce a frequency table for the `Eversmoke` variable from the **NutritionStudy** data frame.
    4. Find another non-binary categorical variable (i.e., one with 3 or more values) in **NutritionStudy** other than `EverSmoke`. Display its distribution using a bar graph.
    5. Produce a graph displaying the distribution of the quantitative variable `Cholesterol` in **NutritionStudy**. Which word/phrase most accurately describes this distribution among these choices: *symmetric*, *skewed to the right*, or *skewed to the left*?
    6. Determine the minimum value of the `Cholesterol` variable among "Current" smokers. (Hint: Use the `filter()` command. The answer is 78.3.)

Reporting: As you worked through the video or the tasks following it, most likely questions arose about the software. Submit one question in the class forum as a reply to the thread titled First experience in RStudio.