Chapter 1 exercises: Coder edition

Use the National Health and Nutrition Examination Survey (NHANES) data to examine marijuana use in the United States. Spend a few minutes looking through the NHANES website (https://www.cdc.gov/nchs/nhanes/index.htm) before you begin, including finding the online codebook for the 2013–2014 data. Complete the following tasks to explore whether age is related to marijuana use in the United States.

1. Open the 2013–2014 NHANES data file saved as nhanes\_2013\_ch1.csv with the book materials at **edge.sagepub.com/harris1e** (Achievement 1)
2. Examine the data types for DUQ200, RIDAGEYR, and RIAGENDR, and fix data types if needed based on the NHANES codebook (Achievements 2 and 3)
3. Based on the online NHANES codebook, code missing values appropriately for DUQ200, RIDAGEYR, and RIAGENDR (Achievement 4)
4. Create a bar chart showing the percentage of NHANES participants answering yes and no to marijuana use (Achievement 5)
5. Recode age into a new variable called age.cat with 4 categories: 18–29, 30–39, 40–49, 50–59 (Achievement 7)
6. Create a bar chart of marijuana use by age group (Achievement 6)
7. Add a prolog and comments to your code (Achievement 1)
8. Following the R code in your code file, use comments to describe what you found. Given what you found and the information in the chapter, what do you predict will happen with marijuana legalization in the next 10 years? Discuss how the omission of older people from the marijuana use question for NHANES influenced your prediction. Write your prediction and discussion in comments at the end of your code file. (Achievement 1)

Chapter 1 exercises: Hacker edition

Read the coder instructions and complete #1–#5 from the coder edition. Then do the following:

1. Create a bar chart of marijuana use by age group and sex with side-by-side bars (Achievement 5)
2. Add a prolog and comments to your code (Achievement 1)
3. Following the R code in your code file, use comments to describe what you found in no more than a few sentences. Given what you found and the information in the chapter, what do you predict will happen with marijuana legalization in the next 10 years? Discuss how the omission of older people from the marijuana use question for NHANES influenced your prediction. Write your prediction and discussion in comments at the end of your code file. (Achievement 1)