

Assignment 2

KINESIOL 736 - Scientific Computing for Reproducible Science

Instructions

Complete the following exercises using a quarto document. It will allow you to mix text and code within the same document and then render (i.e., compile) to a .pdf file using the Render button at the top. Alternatively, you can use the keyboard shortcut for rendering:

- on Mac, this is CMD+SHIFT+K
- on Windows and Linux, this is CTRL+SHIFT+K

Exercises

Part A

1. Read in the file `lord-of-the-rings-trilogy.csv` that contains data on the number of words spoken in the Lord of the Rings movies for males and females of three of the main races of Middle Earth.
2. List all the ways this dataset is not tidy.
3. How many columns and rows would you have if this dataset was tidy?
4. What would the column names be in tidy format?

Part B

1. Tidy the dataset you read in from A1.
2. What's the total number of words spoken by: a) male hobbits, b) female elves, and c) male elves?
3. Is the number of spoken words in a movie dominated by a single race?
4. Does the dominant race depend on the movie?

Submission guidelines

Your assignment should be submitted as a .pdf file and must include your last name, first initial, and student ID using the following format: `hw-2_last-initial_ID.pdf`. I would submit an assignment named: `hw-2_carter-m_3351871.pdf`.

This assignment is due **Tuesday October 8 at 5 pm EST**. If you have any questions, please come and see me or email me to set up an appointment.