LAB 1A: Data, Code & RStudio Response Sheet

Directions: Record your responses to the lab questions in the spaces provided.

Welcome to the labs!

So let's get started!

Describe the data that appeared after running View(cdc):

• Who is the information about?

• What sorts of information about them was collected?

Data: Variables & Observations

• Based on the data, describe a few characteristics about the first observation.

• What does the first column tell us about our observations?

Uncovering our Data's Structure

- How many students are in our cdc data set?
- How many variables were measured for each student?

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Some new functions

• Which of these functions tell us the number of observations in our data?

• Which of these functions tell us the number of variables?

First Steps

Syntax matters

• What happens after each command?

• Which does R understand?

R's most important syntax

Syntax in action

- Which one of these plots would be useful for answering the question: *Is it unusual for students in the CDC dataset to be taller than 1.8 meters?*
- Do you think it's unusual for students in the data to be taller than 1.8 meters? Why or why not?

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On your own:

• What is public health and do we collect data about it?

• How do you think our data was collected? Does it include every high school aged student in the US?

• How might the CDC use this data? Who else could benefit from using this data?

• What is the *typical* weight?

• About how many students did not eat fruit over the previous 7 days?