Our time.

Lab 1H

Directions: Follow along with the slides and answer the questions in **red** font in your journal.

## We’ve come a long way

* The labs until now have covered a huge range of topics:
  + We’ve learned how to make plots for different types of variables.
  + We know how to subset our data to get a more refined view of our data.
  + We’ve covered cleaning data and making two-way frequency tables.
* In this lab, we’re going to combine all of these ideas and topics together to find out how we spend out time.

## First steps first.

* *Export*, *Upload*, *Import* the data from your class’ *Time Use* campaign.
* The data, as-is, is very messy and hard to interpret/analyze.
  + Fill in the blank with the name of your imported data to format it:

timeuse <- timeuse\_format( \_\_\_\_\_ )

* This function formats/cleans the data so that each row represents a typical day for each student in the class
* Hint: Search your History tab for the code to save your formatted timeuse data as an R data file (.Rda)

## timeuse\_format specifics

* In case you’re wondering, the timeuse\_format function:
  + Takes each student’s daily data and adds up all of the time spent doing each activity for each day.
  + The time spent on each activity for each day is then average together to create a *typical day* in the life of each student.

## Exploring your data

* Start by getting familiar with your timeuse data:
  + **How many observations and variables are there?**
  + **What are the names of the variables?**
  + **Which row represents YOUR *typical day*?**

## How do we spend our time?

* We would like to investigate the *research question*: “How did our class spend our time?”
  + To do this, we’ll perform a statistical investigation.
* **State and answer two statistical questions based on our *research question*.**
  + **Also, state one way in which your personal data is *typical* and one way that it *differs* from the rest of the class.**
* **Justify your answers by using appropriate statistical graphics and summary tables.**
  + **If you subset your data, explain why and how it benefited your analysis.**