BST 219
Core Principles of Data Science

Lecture 6: R Basics Continued
September 19, 2024

Snow Skin Mooncakes
(2 days late for the Mid-Autumn Festival)

What do you mean I'm not supposed to chew the cart?!?

Agenda

- Announcements
  - Lab this week! FXB G03 and Zoom
  - Office hour change: Wednesday 3-4pm in Heather's office instead of Thursday 1:30-2:30pm
  - Homework #1 due 9/27 by 11:59pm
    - Plots: for this HW **only** axis labels do not need to be "pretty" or intuitive/informative. We will be learning how to do this in the next module.

- R functions glossary

- Continuation of coding basics

Glossary

Cheat sheet of functions used in the lessons

Lesson 1 – Introduction to R

- `sqrt()` # calculate the square root
- `round()` # round a number
- `args()` # find what arguments a function takes
- `length()` # how many elements are in a particular vector
- `class()` # the class (the type of element) of an object
- `str()` # an overview of the object and the elements it contains
- `typeof` # determines the (R internal) type or storage mode of any object
- `c()` # create vector; add elements to vector
- `[ ]` # extract and subset vector
- `%in%` # to test if a value is found in a vector
- `is.na()` # test if there are missing values
- `na.omit()` # Returns the object with incomplete cases removed
- `complete.cases()` # elements which are complete cases