Week 4 Day 1: PA Warm-up

## read\_xlsx()

1. What’s wrong with the top of the gov\_spending\_per\_capita.xlsx spreadsheet?
2. Fill in the code you would need to read in the cleanest version of these data.

military <- read\_xlsx("gov\_spending\_per\_capita.xlsx",
 sheet =
 skip =
 n\_max =
 )

1. What are the three ways NA values were coded in these data?
2. What would you input into the na = argument of read\_xlsx() to recode these values as NAs?

## pivot\_longer()



1. Why don’t we want to pivot our data manually?
2. Fill in the code below to pivot the military data from wide to long:

military |>
 pivot\_longer(cols =
 names\_to =
 values\_to =
 )

1. What do you notice is weird about some of the values of Country?

## if\_any() & if\_all()

These functions are used with filter() to select rows based on a logical statement applied to multiple columns

* if\_any() – returns a logical vector (one element for each row) that is TRUE if the logical statement is true for **any** column in the supplied columns
* if\_all() – returns a logical vector (one element for each row) that is TRUE if the logical statement is true for **all** columns in the supplied columns
1. Fill in the code to filter() the military data to only include observations that have **at least one** missing value for the military spending:

military |>
 filter(
 if\_any(
 .cols =
 .fns =
 )
 )