Data wrangling across columns

Warmup activity

Work on the activity (handout) with a neighbor, then we will discuss as a class

Warmup

Your friend writes the following code:

Why are they getting NAs?

What would I change to ignore missing values (NAs) when computing the median?

Now let's try with across...

Why is this code failing?

median() is evaluating (calling) the function:

```
1 median() (- problem: not calculating median of anything
```

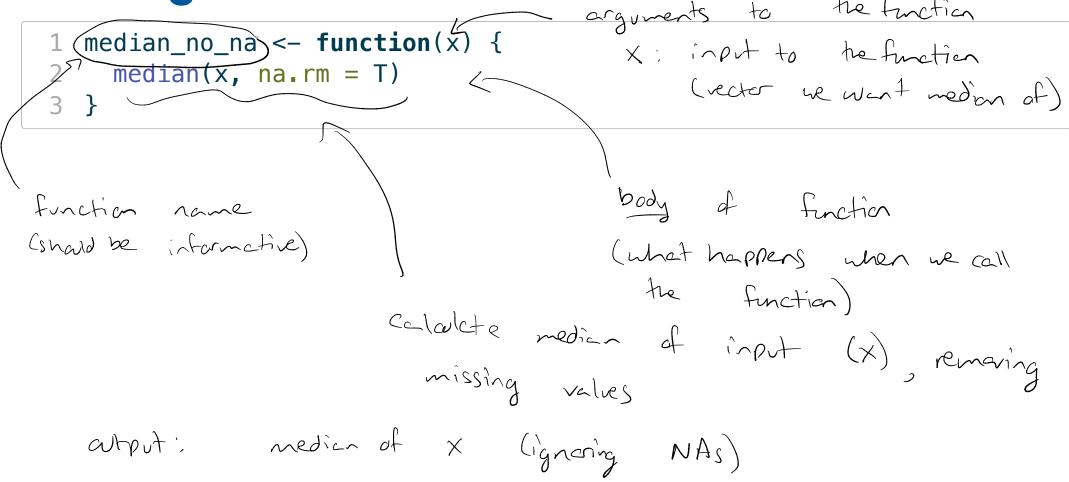
Error in median.default(): argument "x" is missing, with no default

What should we do instead?

We want a function that calculates the median without the NAs, so we can do something like

```
1 starwars |>
2 summarize(across(where(is.numeric),
3 list("median" = median_no_na)))
```

However, this median_no_na function doesn't exist. We have to write it ourselves!



```
1 median_no_na <- function(x) {
2  median(x, na.rm = T)
3 }</pre>
```

What will each of the following lines return?

What would I change if I want to calculate the mean instead of the median?

Will we need to use the mean_no_na or median_no_na functions many times?

Anonymous functions

If we don't need a function repeatedly, we can make an anonymous function instead:

Anonymous function:

for short functions, can make ananyment if we want use them repeatedly

Class activity

https://sta279-f25.github.io/class_activities/ca_08.html

- Work with a neighbor on the class activity
- At the end of class, submit your work as an HTML file on Canvas (one per group, list all your names)