

## PROMPT 1

## Class Command

Variable	Class
<b>Sex</b>	Factor
<b>Species</b>	Factor
<b>Island</b>	Factor
<b>Body Mass (g)</b>	Integer
<b>Flipper length (mm)</b>	Integer
<b>Bill length (mm)</b>	Numeric
<b>Bill depth (mm)</b>	Numeric

## Level Command

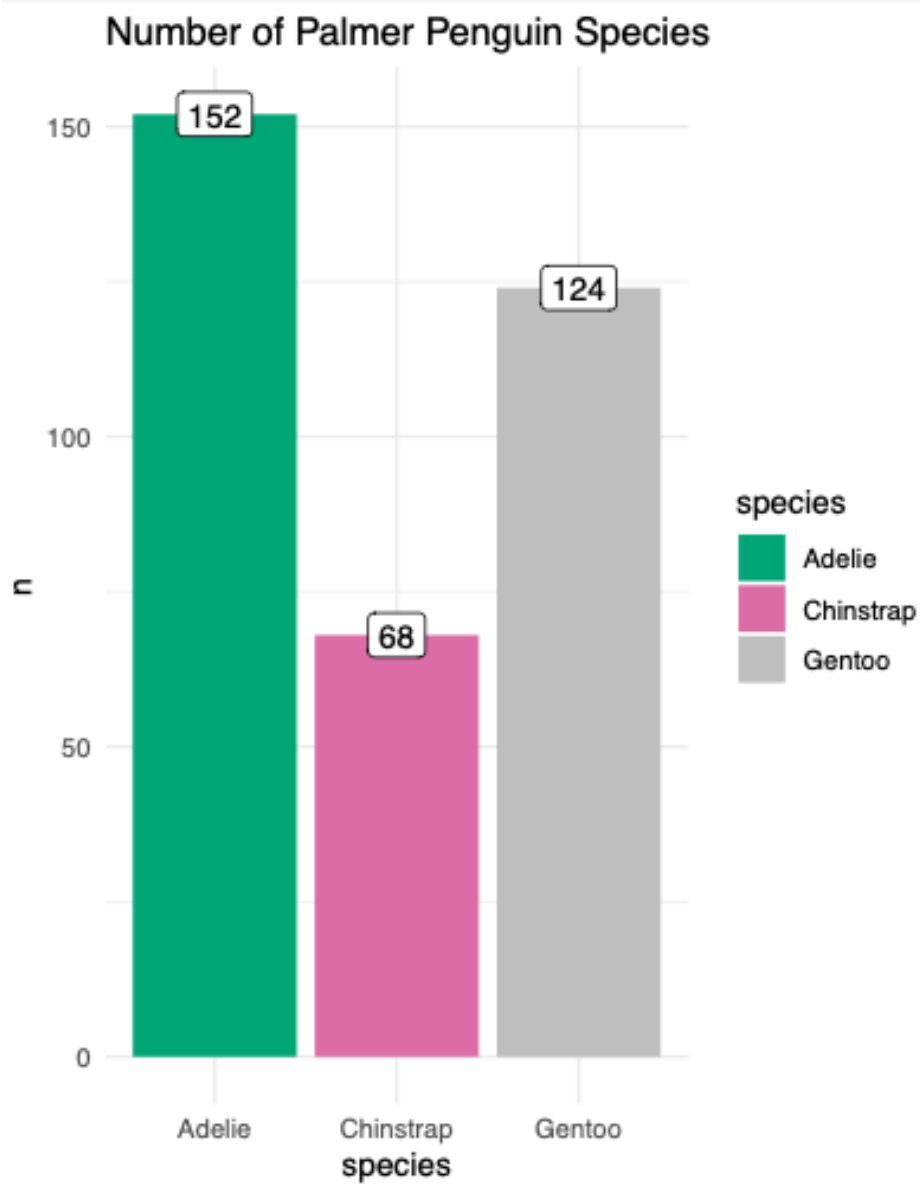
Variable	Level
<b>Sex</b>	Female/Male
<b>Species</b>	Adelie, Chinstrap, Gentoo
<b>Island</b>	Biscoe, Dream, and Torgersen
<b>Body Mass (g)</b>	NA
<b>Flipper length (mm)</b>	NA
<b>Bill length (mm)</b>	NA
<b>Bill depth (mm)</b>	NA

## Interpretation:

Factor: have identifiable levels

Numeric of factor: can only have one output and a specific time

## PROMPT 2



Interpretation:

Bar graph shows number of penguins that are in each of the counts (sex count, island count, and species count)

### PROMPT 3

#### SUMMARY COMMAND

Variables			
Sex Count	Female	Male	NA
	165	168	11
Species Count	Adelie	Chinstrap	Gentoo
	152	68	124
Island Count	Biscoe	Dream	Torgerson
	168	124	52

Variable	Flipper Length (mm)	Body Mass (g)	Bill Length (mm)	Bill Depth (mm)
Min	172.0	2700	32.10	13.10
1 <sup>st</sup> Quartile	190.0	3550	39.23	15.60
Median	197.0	4050	44.45	17.30
3 <sup>rd</sup> quartile	213.0	4750	48.50	18.70
Mean	200.9	4202	43.92	17.15

- 1) I learned that based on the scatterplot there are three different counts of species on the 3 islands and well as 3 different counts of species for sex count and species count, the NA scatterplot showed how more data can be collected for those that fall into that category.
- 2) Is the bill length and depth a way to sex penguins, is that why it is being observed?