

Amber Burrell

July 21, 2020

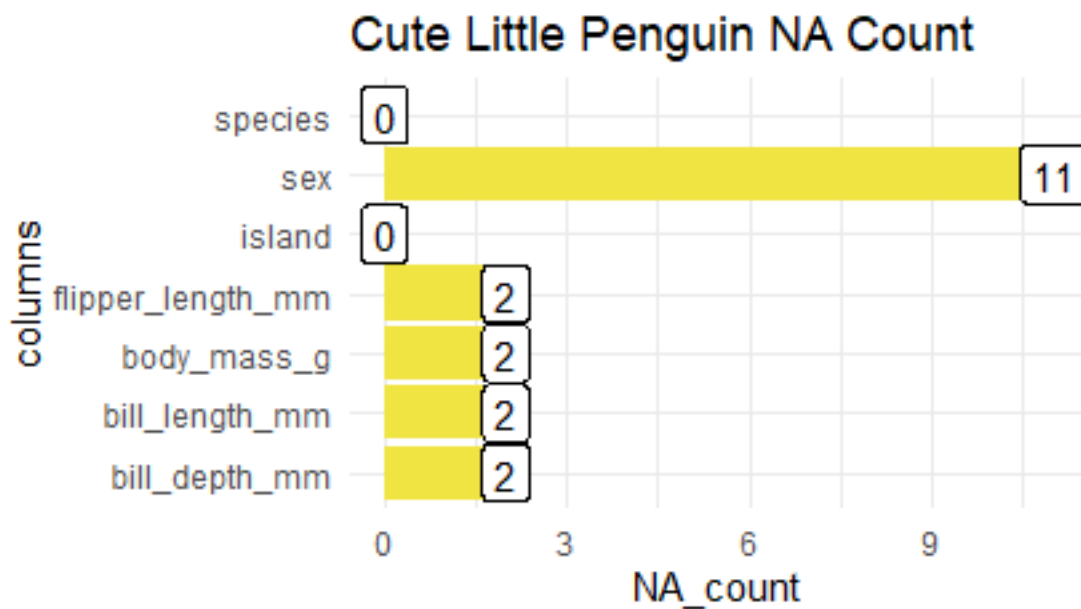
Assignment #3

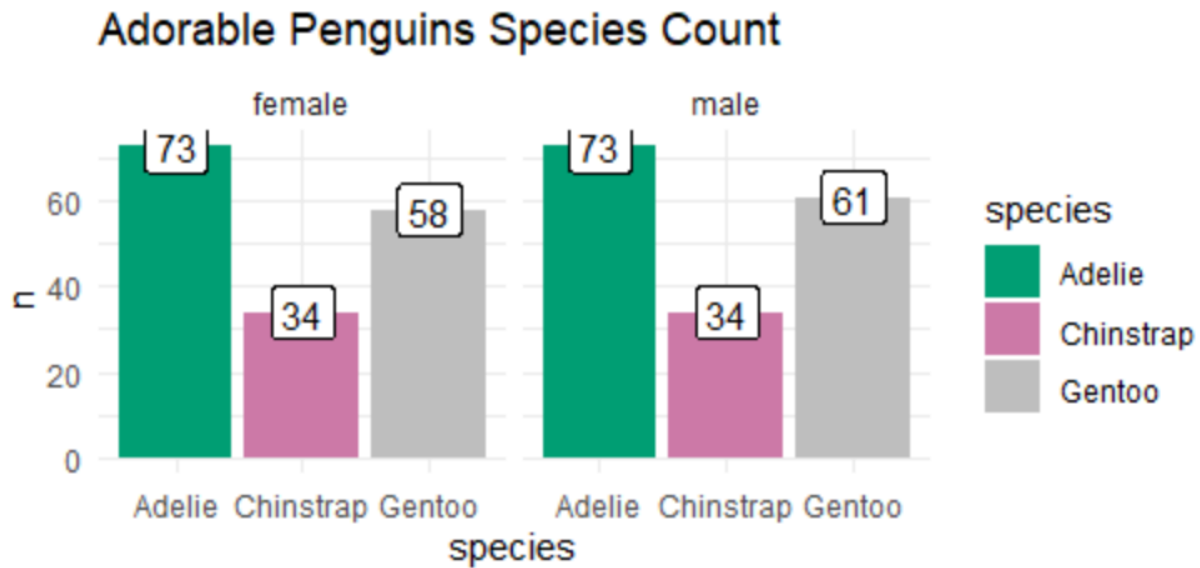
Penguin Bar Graphs

Prompt #1

	Prompt 1	
Variables	Class	Levels
Sex	Factors	Female, Male
Body mass	Integer	NULL
Species	Factor	Adelie, Chinstrap, Gentoo
Island	Factor	Biscoe, Dream, Torgersen
Flip. Len.	Integer	NULL
Bill Len.	Numeric	NULL
Bill Depth	Numeric	NULL

For the items that have something other than factors in "Class" they result in Null or not applicable.

Prompt 2



By putting the code in it was able to separate the data between male and females as well as the difference penguin species. There is approximately the same amount of female and male penguins. There are also very little Chinstrap penguins to be found for both male and females.

Prompt #3

Three Variables

	Adelie Species	Chinstrap Species	Gentoo Species	Biscoe island	Dream Island	Torgersen Island	Females	Males	N/A Sex
# Penguins	152	68	124	168	124	52	165	168	11

Output for the remain variables

		Prompt 3					
Variables	Min	1st Quart	Median	Mean	3rd Quart	Max.	NA's
Flipper Length	172	190	197	200.9	213	231	2
Body Mass	2700	3550	4050	4202	4750	6300	2
Bill Length	32.1	39.23	44.45	43.92	48.5	59.6	2

Prompt 4

- 1.) I learned that it is easier and more sufficient to read bar graph and the scatterplot. It is more organized and separated to read.
- 2.) Research Questions
 - a.) Group: Why are Chinstrap penguins only found on dream island?
 - b.) Why are there significantly more Adelie penguins in both sexes of all three islands combined?