Prompt 1

Variable Name Class Levels

Species Factor Adelie, Chinstrap, and Gentoo Island Factor Biscoe, Dream, and Torgersen

Bill Length (mm) Numeric Null
Bill Depth (mm) Numeric Null
Flipper Length (m Integer Null
Body Mass (g) Integer Null

Sex Factor Female and Male

The 7 different variables can be split into three classes of data: Factor, Numeric, and Integer. Only factor variables have levels, such as Species, Island, and Sex.

Prompt 2

There were 152 adelie penguins, 68 chinstrap penguins, and 124 Gentoo penguins in total.

Prompt 3

Sex	Female		Male	160	NA
# Penguins		165		168	11
Island	Biscoe Island		Oream Island		Torgersen Island
# Penguins		168		124	52
Species	Adelie		Chinstrap		Gentoo
# Penguins		152		68	124

	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	NA's
Bill Length (mm)	32.1	39.23	44.45	43.92	48.5	59.6	2
Bill Depth (mm)	13.1	15.6	17.3	17.15	18.7	21.5	2
Flipper Length (m	n 172	190	197	200.9	213	231	2
Body Mass (g)	2700	3550	4050	4202	4750	6300	2

Prompt 4

While there are small amounts of missing data across multiple variables, the amount isn't significant enough to invalidate the data.

The island a penguin resides on doesn't have any noticable affect on body mass/flipper length. Instead, species determines these variables.

Gentoo are the largest penguins in terms of body mass/flipper length

Research question: Why are Gentoo larger than the other species? They are only found on Biscoe, is this related to their relative size?