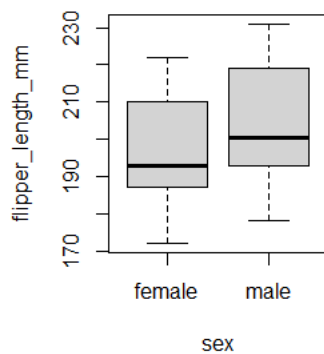


Jessica Martinez
Analysis of Environmental Data
In-Class Data Exploration 1

For the first class of plots, I choose to use a boxplot to display sex on the x axis and flipper length on the y axis using the Penguin data. This shows a summary of the data, indicating the minimum, maximum, median and interquartile range of data analyzed. Given the position of the median line (represented by the bold black line in each light grey box,) both the relationship between flipper length and sex are positively skewed with most data being clustered in the lower values of flipper length. In comparing male versus female, male penguins notably have a greater minimum and maximum flipper length value as well as a higher upper and lower quartile. From this boxplot it can be inferred that the male penguins observed within this data generally have a longer flipper length when compared to females.



For the second class of plots, I chose a histogram to display bill length of penguins using the penguin data. This plot also shows a summary of the data, visualizing the frequency distribution of each bin of penguin bill lengths with frequency on the y axis and bill length on the x. Given the curvature of the histogram bars, the data appears to be normally distributed.

