Error Bar

visualizes the variability of the plotted data on a Cartesian graph.

Error Bars can be applied to graphs such as(Scatterplots, Dot Plots, Bar Charts or Line Graphs) to provide an additional detail on the presented data.

Error Bars help to indicate estimated error or uncertainty.

The length of an Error Bar helps reveal the uncertainty of a data point

A short Error Bar: shows that values are concentrated

A long Error Bar: would indicate that the values are more spread out and less reliable.

the length of each pair of Error Bars tend to be of equal length on both sides. However, if the data is skewed, then the lengths on each side would be unbalanced.