

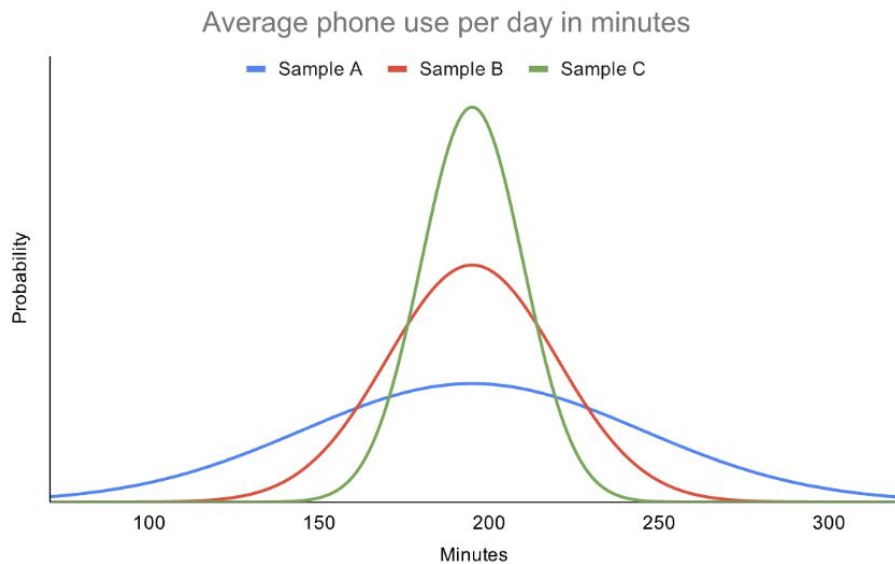
# MEASURES OF VARIABILITY

Created by - Ashish Kumar Singh

[Measures of Variability — Range, IQR, Variance and Standard Deviation | by Ashish Kumar Singh | Medium](#)

# WHAT IS VARIABILITY

- Variability describes how far apart data points lie from each other and from the center of a distribution.



Although the data follows a normal distribution, each sample has different spreads. Sample A has the largest variability while Sample C has the smallest variability.

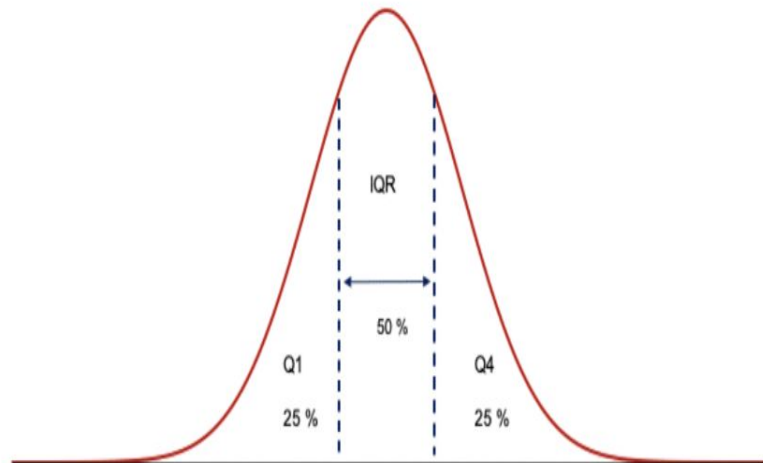
# MEASURES OF VARIABILITY



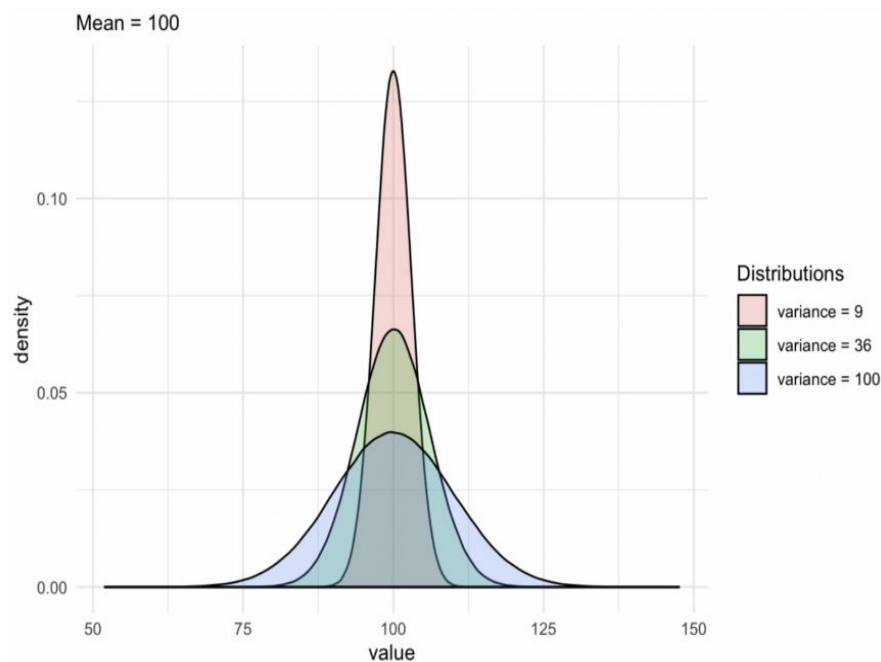
## RANGE

is the difference between  
the greatest and smallest value.

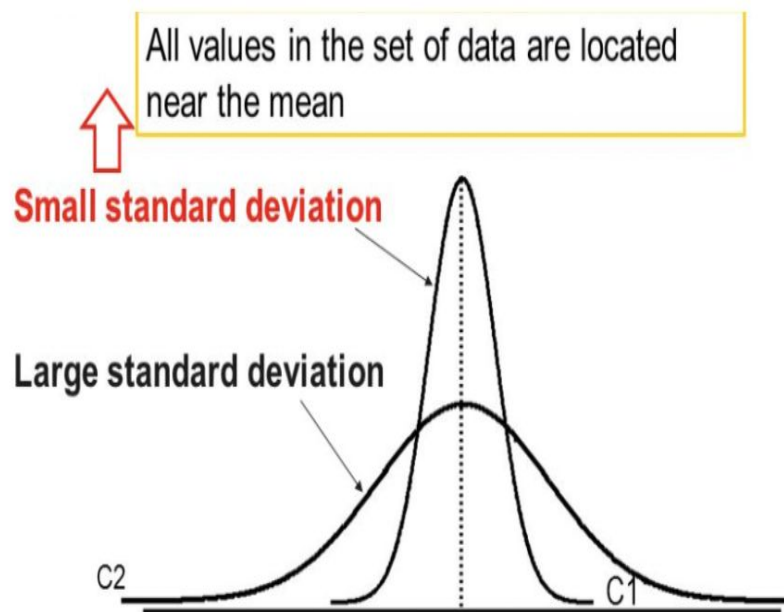
Interquartile range on a normal distribution



# MEASURES OF VARIABILITY



Normal Distributions with different variances



Low SD — Data points tend to be close to the mean High SD — Data points are spread out over a large range of values

# THANK YOU FOR READING!!!

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