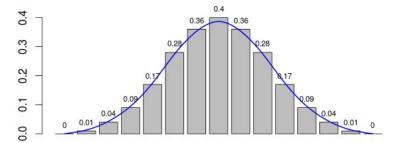
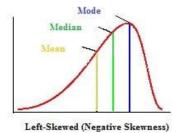
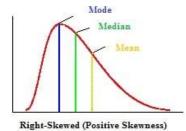
Statistics



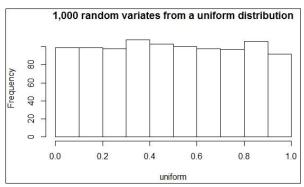
Distribution Types:







Normal Distribution



Uniform Distribution

Skewed Distribution



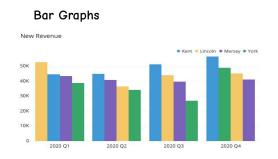
Terminologies:

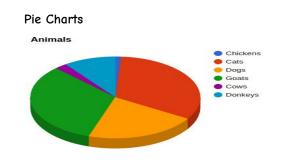
- Observations
- Ungrouped and Grouped Data
- Frequency Distribution
- Cumulative Frequency Distribution.

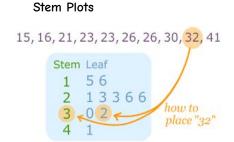




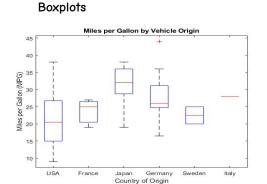
Graphical Techniques - (Data Representation)



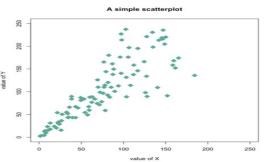




Histograms



Scatterplots



Analysis of a Single Categorical Variable

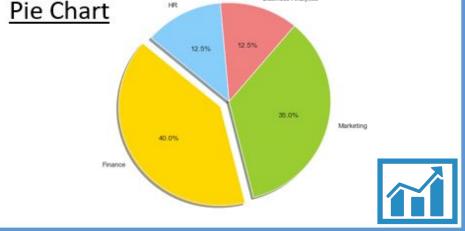
Categorical Variables are of two types, Nominal & Ordinal

- Mode is the only measure of central tendency that can be used for Categorical Variable.
- For certain Ordinal Categorical Variables like Feedback, Rating we may at times use Mean

Specialization Cnt_Students Pct_Students 0 Finance 80 0.400 70 0.350 Marketing **Business Analytics** 25 0.125 3 HR 25 0.125 **Business Analytics**

Frequency Table





Concepts of Sampling

- Sampling Inferring on a small part of the data under consideration.
- Parameter- In statistics, it is a measure of such a characteristic of data.
- Statistics- In order to gain some information we compute on some parameters which is summarized in the form of statistics.
- Types of Sampling-
 - Probability Sampling
 - Non-probability Sampling
- Sampling and Non-Sampling errors.