













R Visualization Lab

DATA SCIENTISTS, INSOFE.

Types of plots

1. Line Chart - 2 Numeric Variables with 1-on-1 Mapping

- 2. Bar Chart 1 categorical variable
- 3. Histogram 1 Numeric variable
- 4. Box Plot 1 Numeric variable
- 5. Pie Chart 1 categorical variable
- 6. Scatter Plot 2 Numeric variables
- 7. Tree Maps
- 8. Heat-Maps

When to use which visualization?

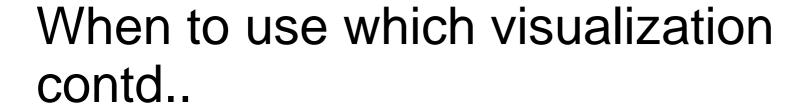


Univariate Analysis

- Numeric Data Histogram, Box Plot
- Categorical Data Bar Chart

Bivariate Analysis

- If both X, Y are numeric Scatter Plot
- If Y is numeric and X is categorical
 - Bar chart or Box Plot
- If both X, Y are categorical
 - we can group the variables and plot the counts





. 3 Variables:

- X,Y,Z all are numeric
 - We can use a scatter plot of X,Y and set the size of the points to vary according to the Z variable
- X,Y are numeric, Z is categorical
 - We can use a scatter plot of X,Y and set the color of the points to vary according to the Z variable