



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



When to use which visualization contd..

. 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