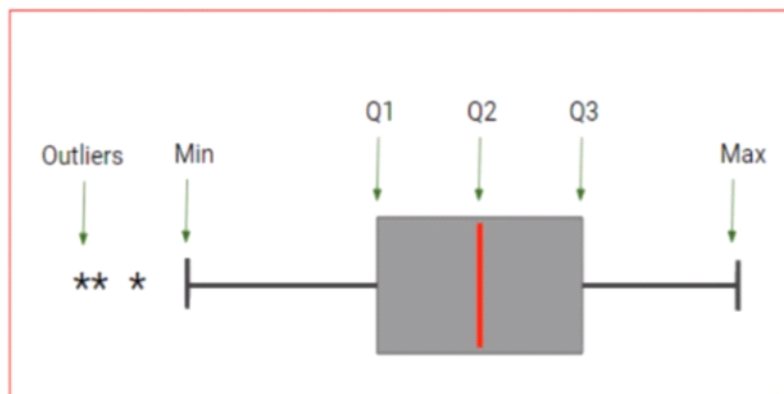


# 03.O que é um Boxplot?

domingo, 13 de agosto de 2023

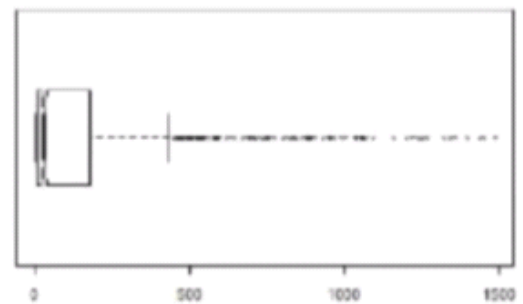
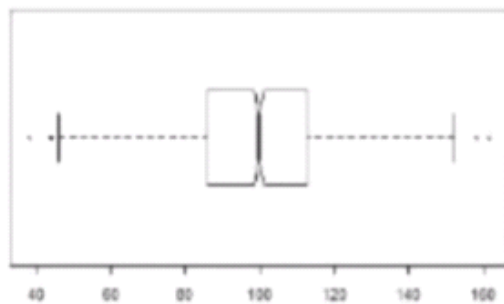
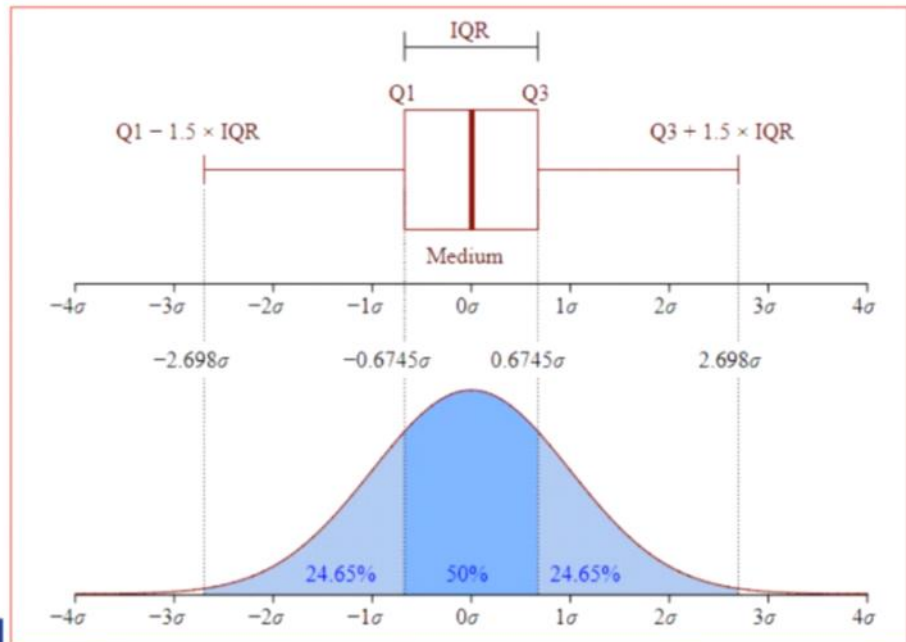
20:04

- **É um gráfico que utiliza cinco medidas estatísticas:**
  - Valor mínimo
  - Valor máximo
  - Mediana
  - Primeiro quartil
  - Terceiro quartil
- **Boxplot** oferece a ideia:
  - Posição
  - Dispersão
  - Assimetria
  - Caudas
  - Dados discrepantes

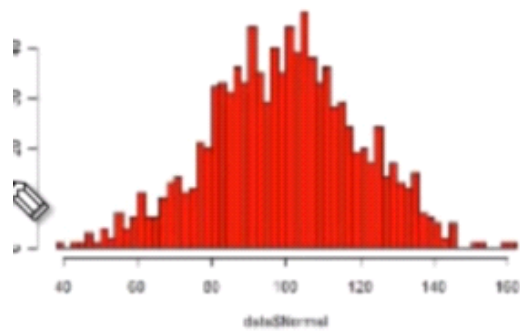


- Posição central: Mediana
- Dispersão:  $dq = Q3 - Q1$
- Assimetria: Posições relativas entre  $Q1$  ( $p_{25}$ ),  $Q2$  ( $p_{50}$ ), e  $Q3$  ( $p_{75}$ )
- O tamanho da cauda são dados por linhas
- $Min = Q1 - 1.5 * dq$ ,  $Max = Q3 + 1.5 * dq$

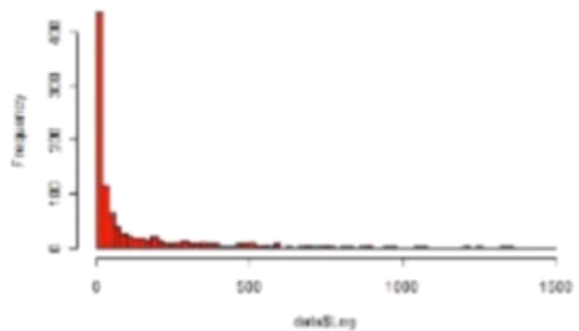
IQR = dq



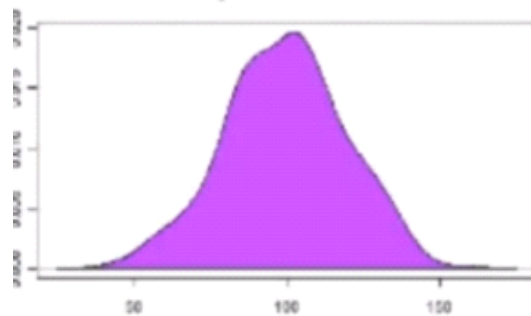
Histogram of Normal Data



Histogram of Skewed Data



Density Plot of Normal Data



Density Plot of Skewed Data

