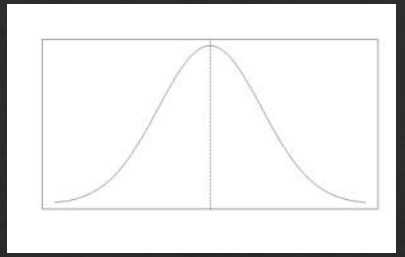
Standardized statistical moments

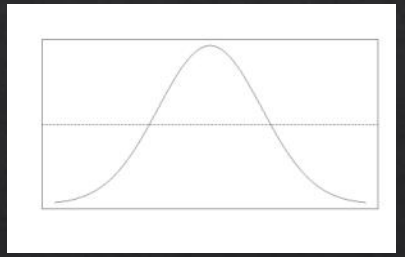
Mean – Center

$$m_1 = \frac{1}{n}\sum_{i=1}^{n} x_i$$



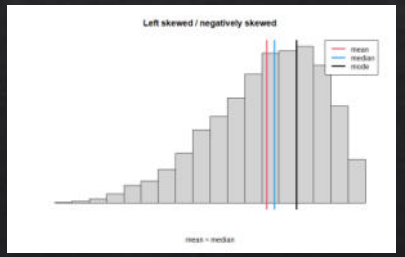
Variance – Spread

$$m_2 = \frac{1}{n}\sum_{i=1}^{n} (x_i - \bar{x})^2$$



Skewness – Dispersion asymmetry

$$m_3 = \frac{1}{(n\sigma)^3}\sum_{i=1}^{n} (x_i - \bar{x})^3$$



Kurtosis – Tail "heaviness"

$$m_4 = \frac{1}{(n\sigma)^4}\sum_{i=1}^{n} (x_i - \bar{x})^4$$