STANDARD DEVIATION

STANDARD DEVIATION

$$\sigma = \sqrt{\frac{1}{n} \sum_{i=1}^{N} (x_i - \mu)^2}$$

n → Number of observations

x_i → observation value

μ → population mean

SAMPLE STANDARD DEVIATION

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

$n-1$ → Bessel's Correction

x_i → observation value

$\bar{x}$ → sample mean

BY CHRIS ALBON