Deviation

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$$Mean\langle x\rangle = \frac{1}{N}\sum_{i=1}^{n} x_i$$

$$Variance = \frac{1}{N}\sum_{i=1}^{n}(x_i - \langle x\rangle)^2 = \sigma^2$$

$$StandardDeviation = \sqrt{Variance} = \sigma$$

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