Theoretical
X
E[x]

Var[x]= E[(X-E[x])2]

SD[x] = \ Var [x]

$$x_{1}, x_{2}, \dots, x_{n}$$

$$\overline{x} = \frac{x_{1} + x_{2} + \dots + x_{n}}{x_{n}} \quad \text{mean}(\cdot)$$

$$S^{2} = \frac{1}{n-1} \sum_{i=1}^{\infty} (x_{i} - \overline{x})^{2} \quad \text{var}(\cdot)$$

$$S = \sqrt{S^{2}} \quad \text{sd}(\cdot)$$