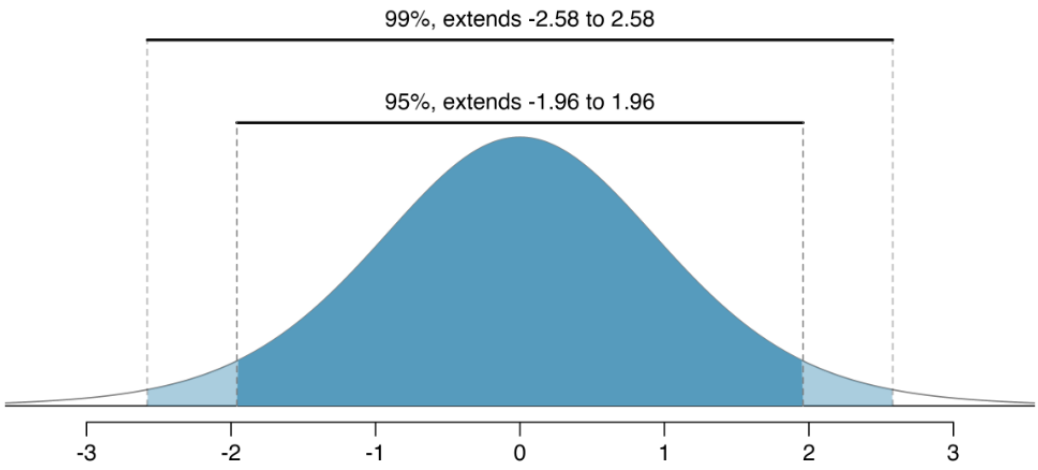
Formula Sheet

Standard Normal Distribution Cut Offs



Formulas

Single proportion SE calculations

$$\sqrt{\frac{\pi_o * (1-\pi_o)}{n}}$$

$$\sqrt{\frac{\hat{p} * (1-\hat{p})}{n}}$$

Difference in proportions SE calculations

$$\sqrt{\frac{\hat{p_{\text{pool}}} * (1-\hat{p_{\text{pool}}})}{n1} + \frac{\hat{p_{\text{pool}}} * (1-\hat{p_{\text{pool}}})}{n2}}$$

$$\sqrt{\frac{\hat{p_1} * (1-\hat{p_1})}{n_1} + \frac{\hat{p_2} * (1-\hat{p_2})}{n_2}}$$

Single mean SE calculations

$\frac{s}{\sqrt{n}}$

Difference in means SE calculations

$\sqrt{\frac{s_1^2}{n_1} + \frac{s_2^2}{n_2}}$

General Confidence Interval Formula

$statistic \pm multiplier * SE$

General Formula for Test Statistic

$\frac{statistic - \text{null value}}{SE}$