

$$\frac{Y - np}{\sqrt{np(1-p)}}$$

$$\frac{\bar{x} - \mu}{s/\sqrt{n}}$$

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

$$\frac{(n-1)s^2}{\sigma^2}$$

$$\left(\frac{(n-1)s^2}{\chi_{\alpha/2}^2}, \frac{(n-1)s^2}{\chi_{1-\alpha/2}^2} \right)$$

$$\frac{s_x^2}{s_y^2}$$
$$\frac{\sigma_x^2}{\sigma_y^2}$$

$$\frac{\bar{x}_1 - \bar{x}_2 - (\mu_1 - \mu_2)}{\sqrt{\frac{\sigma_1^2}{n_1} + \frac{\sigma_2^2}{n_2}}}$$

$$s_p^2 = \frac{(n_1 - 1)s_1^2 + (n_2 - 1)s_2^2}{n_1 + n_2 - 2}$$

$$\frac{\hat{p}_1 - \hat{p}_2 - (p_1 - p_2)}{\sqrt{\frac{p_1(1-p_1)}{n_1} + \frac{p_2(1-p_2)}{n_2}}}$$

$$\bar{p} = \frac{n_1\hat{p}_1 + n_2\hat{p}_2}{n_1 + n_2}$$