



μ_1, μ_2

$H_0 \bullet$

$H_0 : \mu_1 = \mu_2$

$H_1 \bullet$

$H_1 : \mu_1 \neq \mu_2$

$H_1 : \mu_1 < \mu_2$
 $H_1 : \mu_1 > \mu_2$

$$t = \frac{(\bar{x}_1 - \bar{x}_2)}{\sqrt{s_p^2 \left(\frac{1}{n_1} + \frac{1}{n_2} \right)}}$$

$\bar{x}_2 \bar{x}_1 \bullet$

$n_2 n_1 \bullet$

$n_2 n_1 s_2^2 s_1^2 s_p^2 \bullet$



d

$$d_i = X_{1i} - X_{2i}$$

$$\bar{d}iX_{2i}X_{1i}$$

$$\mu_d$$

$$H_0 \bullet$$

$$H_0 : \mu_d = 0$$

$$H_1 \bullet$$

$$H_1 : \mu_d \neq 0$$

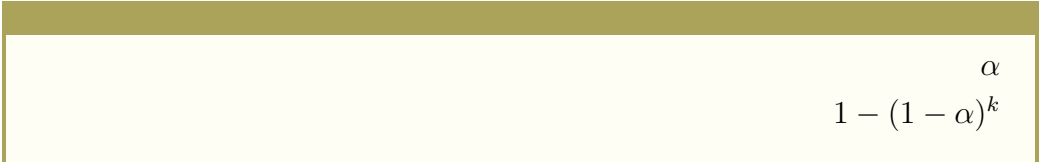
\bar{d}

$$t = \frac{\bar{d}}{s_d/\sqrt{n}}$$

$$\bar{d} \bullet$$

$$s_d \bullet$$

$$n \bullet$$



α

$$1 - (1 - \alpha)^k$$

$$\alpha_{new}k\alpha_{original}$$
$$\alpha_{new} = \frac{\alpha_{original}}{k}$$
$$\alpha_{new} = \frac{0.05}{10} = 0.005k = 10\alpha = 0.05$$
$$\alpha_{original}$$