| $\alpha$ | $z_{\alpha/2}$ |
|---|---|
| 0.01 | 2.576 |
| 0.05 | 1.96 |
| 0.1 | 1.645 |

$$t = \sum_{i=1}^{N} y_i$$

$$\bar{y}_U = \frac{1}{N} \sum_{i=1}^{N} y_i$$

$$S^2 = \frac{1}{N-1} \sum_{i=1}^{N} (y_i - \bar{y}_U)^2$$

$$p = \frac{M}{N}$$

$$\bar{y} = \frac{1}{n} \sum_{i \in \mathcal{S}} y_i$$

$$s^2 = \frac{1}{} \sum (y_i - \bar{y})^2$$