

## Two sided:

$$H_0: \mu = \mu_0$$

$$H_1: \mu \neq \mu_0$$

### CRITICAL VALUE

Reject  $H_0$  if

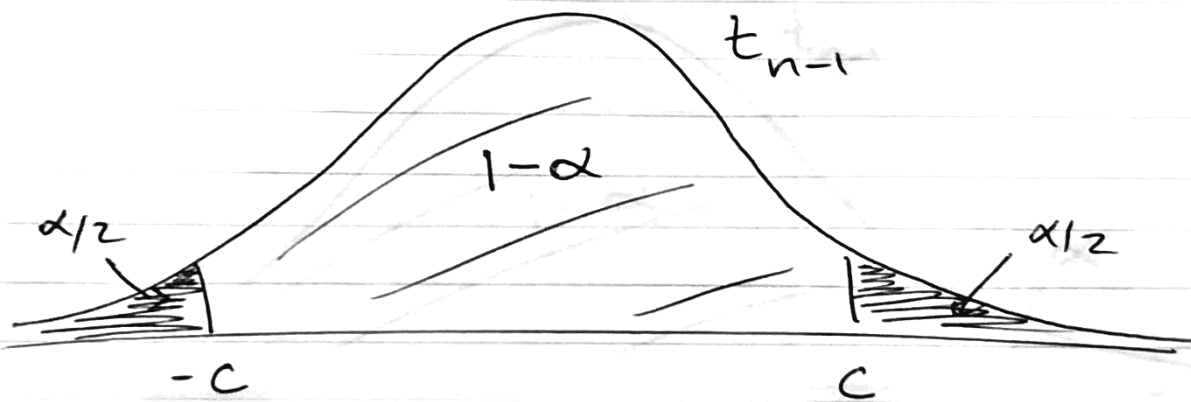
$$\left| \frac{\bar{x} - \mu_0}{s/\sqrt{n}} \right| > c$$

### CONFIDENCE INTERVAL

Reject  $H_0$  if  $\mu_0$   
is NOT in

$$\bar{x} \pm c \frac{s}{\sqrt{n}}$$

How to find  $c$ ?



## One sided

$$H_0: \mu = \mu_0$$

$$H_1: \mu < \mu_0$$

### CRITICAL VALUE

Reject  $H_0$  if

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

### CONFIDENCE INTERVAL

Reject  $H_0$  if  $\mu_0$  is  
NOT IN

$$\left( -\infty, \bar{x} + c \frac{s}{\sqrt{n}} \right]$$

How to find c?

