Statistic vs Parameter

Duadistic		vs. I arameter		
Sample			\mathbf{P}_{0}	opulation
$ar{Y}$	\leftarrow	mean	\rightarrow	$\mathbb{E}[Y]$
$\hat{\sigma}$	\leftarrow	std. dev.	\longrightarrow	σ
n_{1}				

$$\bar{Y}$$
 \top mean \top \mathbb{E}[Y]
 $\hat{\sigma}$ \top std. dev. \top \sigma

proportion n_0+n_1 n

size correlation

$$\frac{n_1}{n_0 + n_1} \longleftrightarrow \text{proportion} \longrightarrow p$$

$$n \longleftrightarrow \text{size} \longrightarrow N$$

$$r_{xy} = \frac{S_{xy}}{S_x S_y} \longleftrightarrow \text{correlation} \longrightarrow \rho$$

$$\hat{\tau} \longleftrightarrow \text{ATE} \longrightarrow \mathbb{E}[Y(1) - Y(0)]$$