

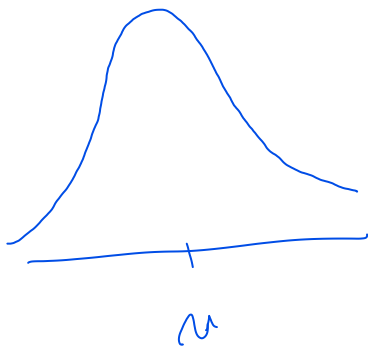
μ = mean in pop
 σ^2 = variance in pop
 π = prop. in pop

$\rightarrow \left. \begin{matrix} \hat{\mu} \\ \hat{\sigma}^2 \\ \hat{\pi} \end{matrix} \right\} \begin{matrix} \text{POINT} \\ \text{ESTIMATES} \\ \text{from sample} \end{matrix} \swarrow$

$$X_i \sim N(\mu, \sigma)$$

X_1, \dots, X_n indep and identic. distributed

C.L.T. $\bar{X} \sim N\left(\mu, \frac{\sigma}{\sqrt{n}}\right)$



tools; can we rely on estimate?

- marginal error
- confidence intervals
↳ INTERVAL ESTIMATE
- hypot testing \leftarrow

