Sampling Distribution

Inference: statistic (sample, $\bar{x}$) --> parameter (population, μ)
CLT: large n --> $\bar{x}$~N(μ,σ/√n) - as n increases, $\bar{x}$ approaches μ
Sample Proportion: mean = p and s.d. = √[p(1-p)/n]
Z-statistic: when n>30, z=($\bar{x}$-μ)/(σ/√n) --> z-table
T-statistic: when n<30, d.f.=n-1 --> t-table

Statistical Inference

Inference	Confidence Interval	Tests of Significance
- probability --> trustworthy?	estimate+/- MoE	H0: "no effect"
- sample --> population	$\bar{x}$ +/- z*(σ/√n)	Ha: what we are testing
- based on sampling distribution	MoE ↓ = σ↓ = n↑= confidence ↓	Assume H0 --> what is the P of a result as/more extreme than statistic --> reject if P≤α

By **miksib10**
cheatography.com/miksib10/

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