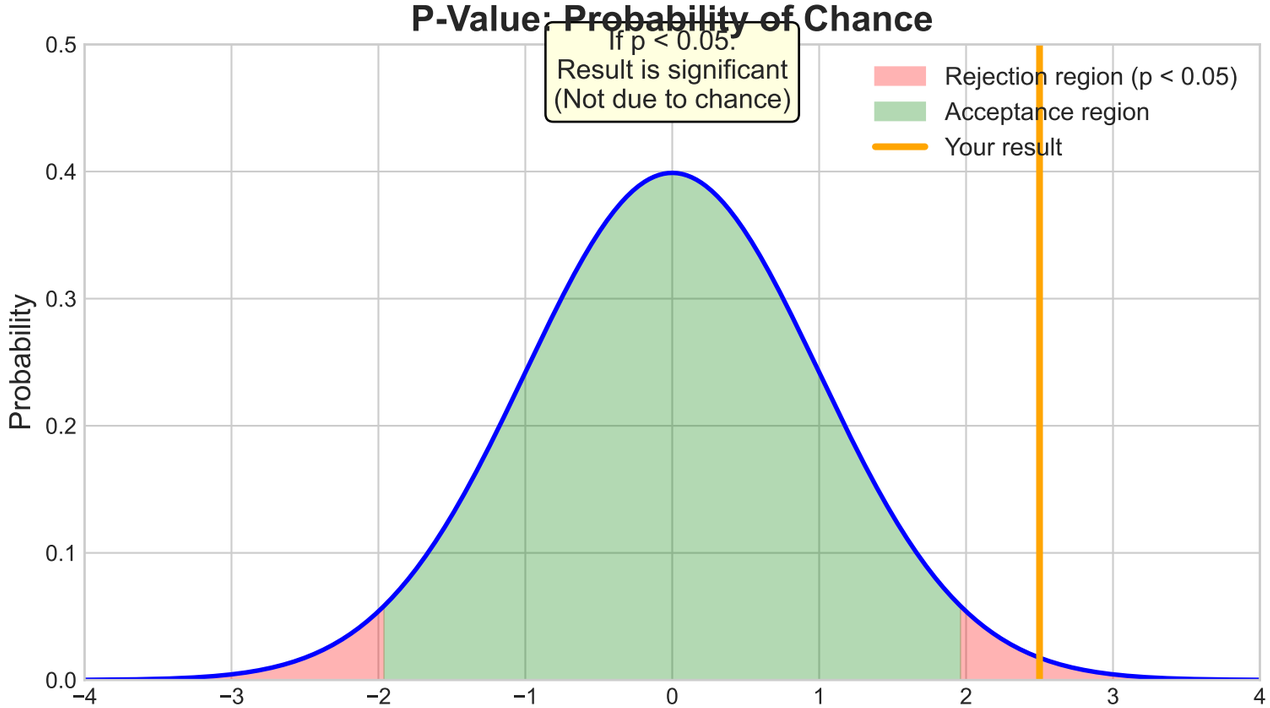
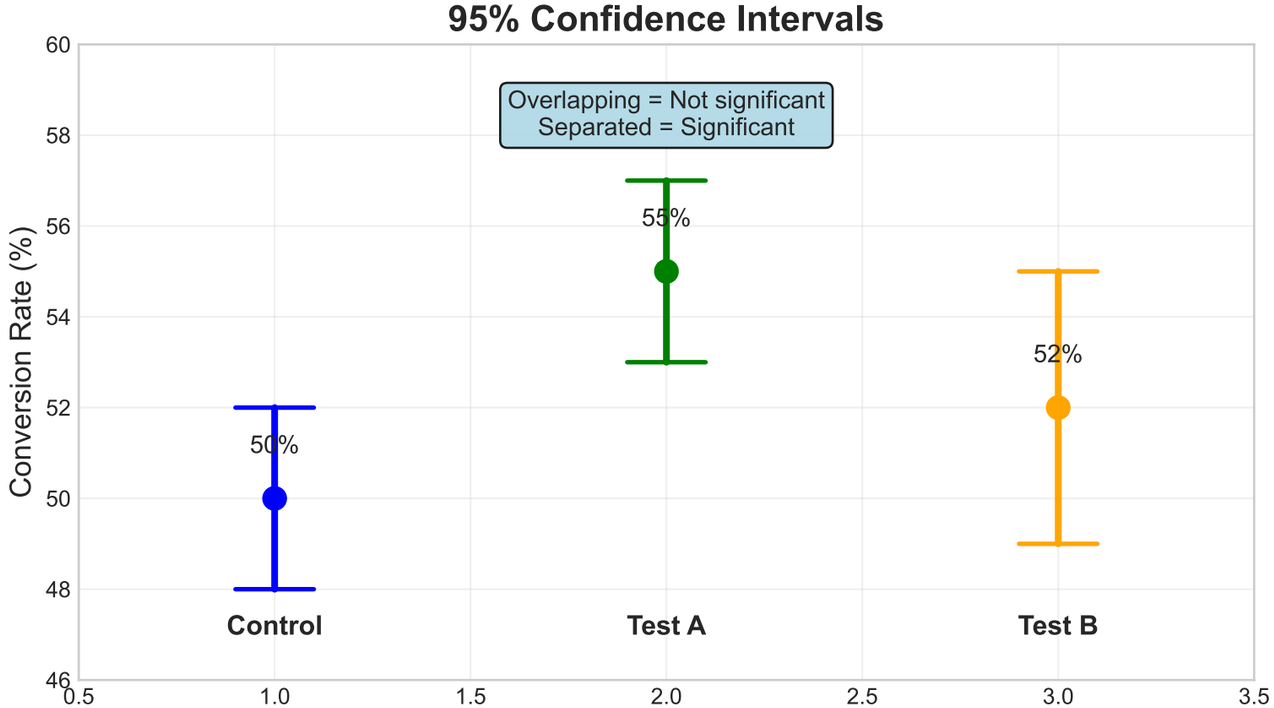
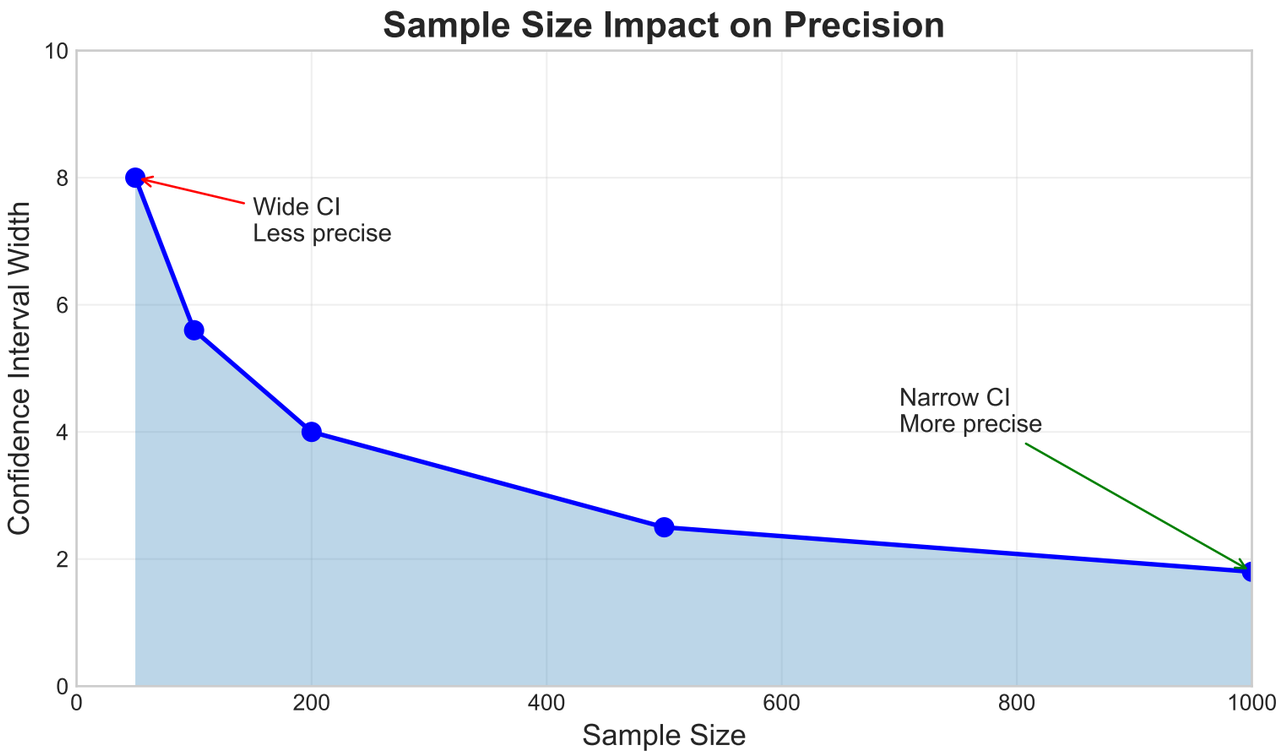
Statistical Significance Made Simple







Type I vs Type II Errors

	Reality: No Effect	Reality: Effect Exists
Test: Significant	Type I Error (False Positive) α = 5%	Correct! (True Positive) Power = 80%
Test: Not Significant	Correct! (True Negative)	Type II Error (False Negative) β = 20%

Trade-off: Reducing Type I increases Type II