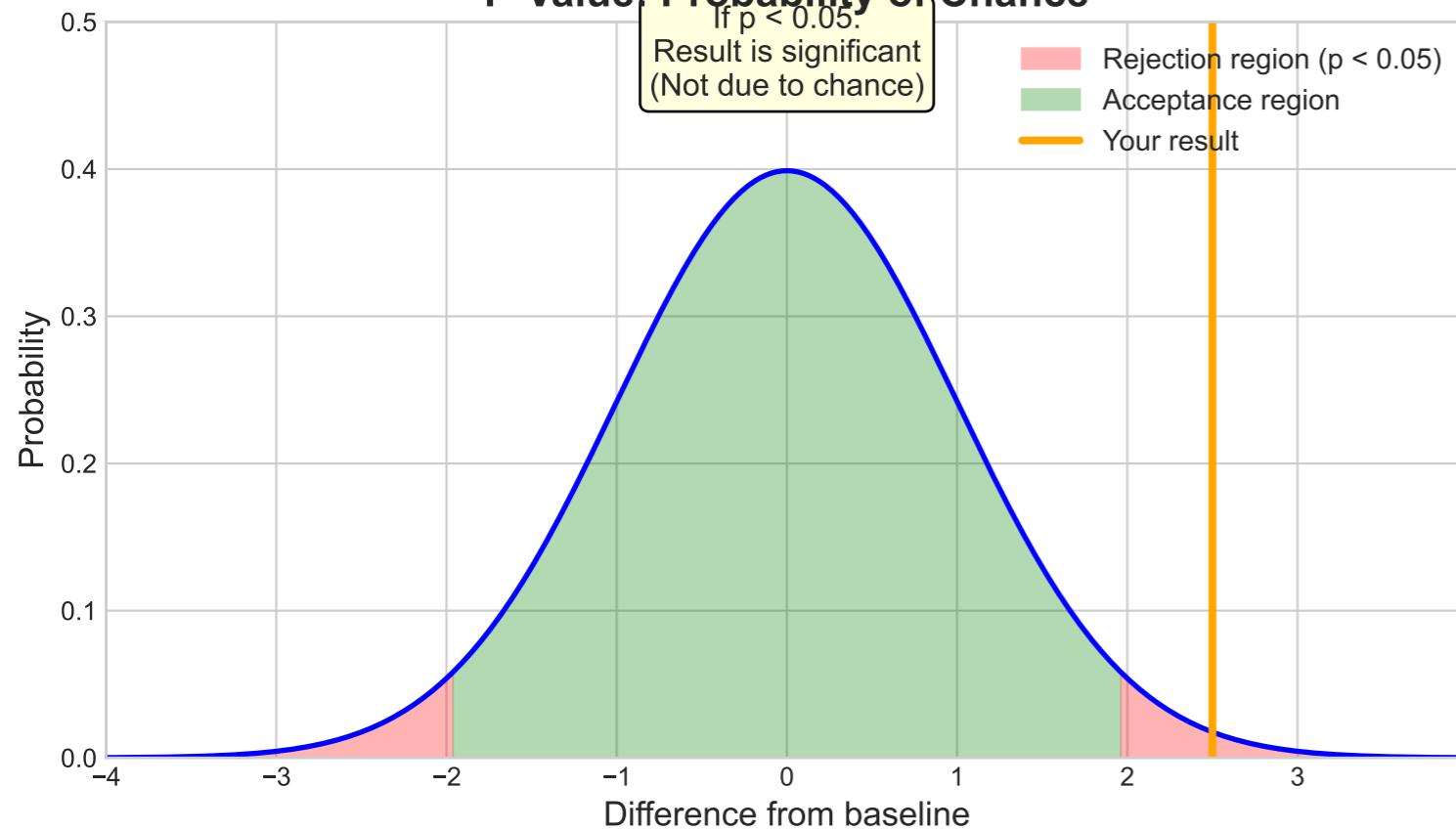
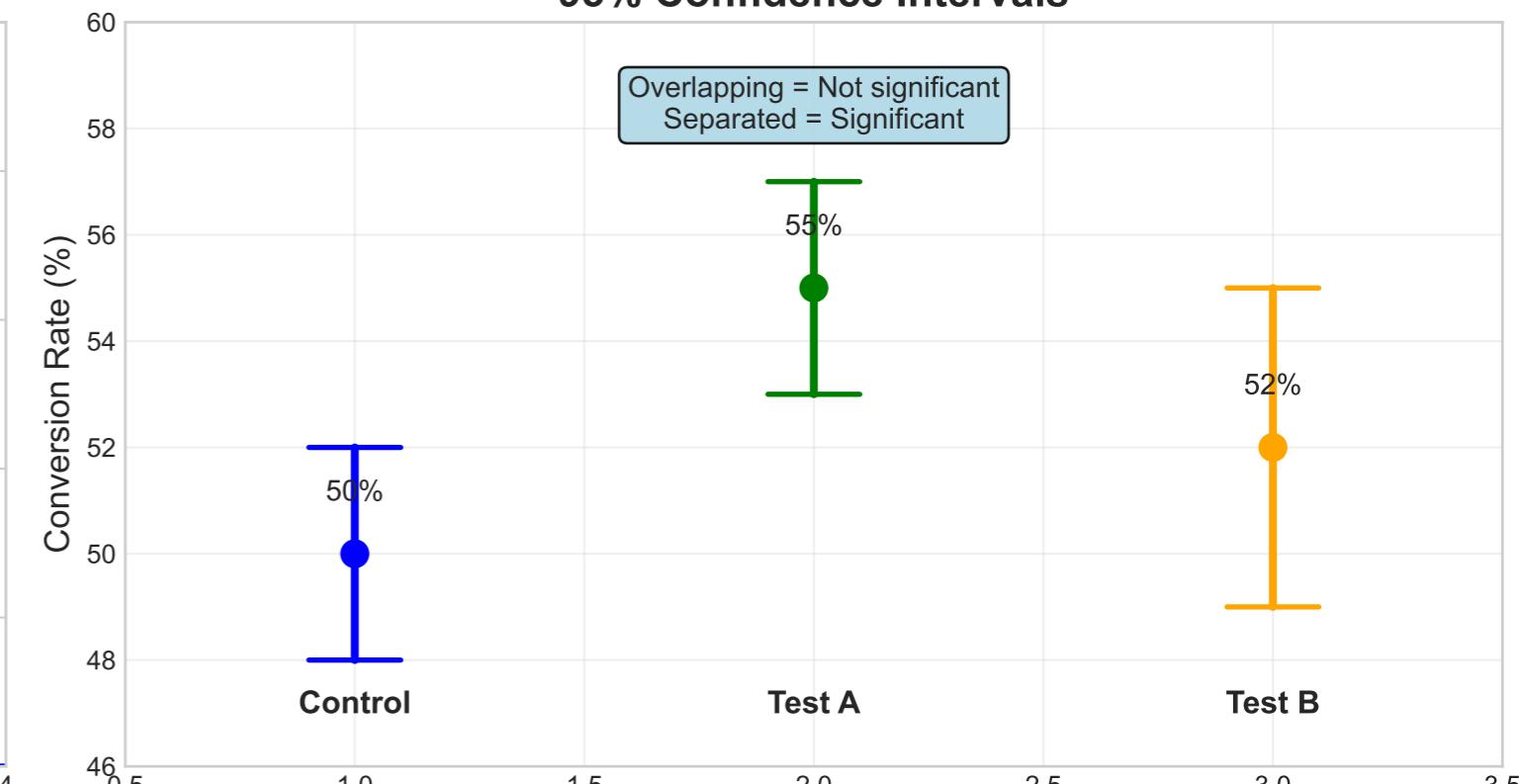


Statistical Significance Made Simple

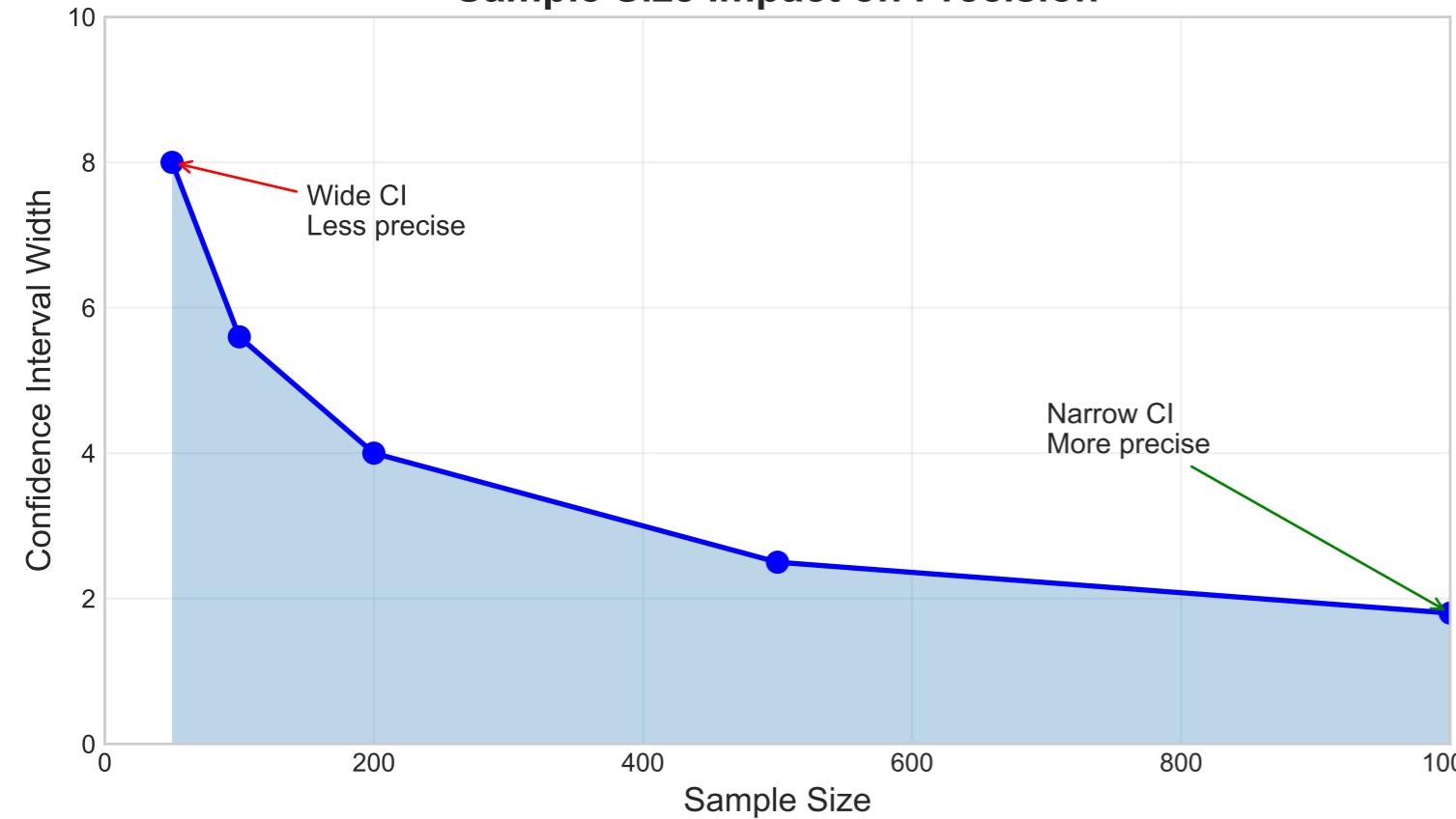
P-Value: Probability of Chance



95% Confidence Intervals



Sample Size Impact on Precision



Type I vs Type II Errors

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

Trade-off: Reducing Type I increases Type II