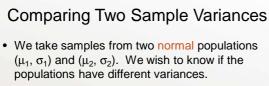


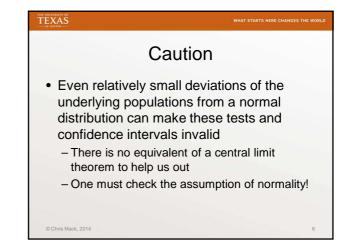
TEXAS



• The F-statistic:

$$F = \frac{S_1^2 / \sigma_1^2}{S_2^2 / \sigma_2^2}$$

is a RV that follows the F-distribution with n_1 -1 and n_2 -1 degrees of freedom



What is the sampling distribution of the variance? Under what assumptions? Explain the F-statistic and what it can be used for Explain why the statistical tests for variance could easily produce invalid results

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