MONDAY, MARCH 11, 2019
We are 95% confident that the true average length
Warm-up of tropical flowers is 26.341 ± 6.213 mehrs

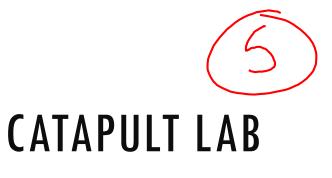
• Write the conclusions for the following confidence intervals: 20 128 and 32.55

•Fred measured the lengths of 23 tropical flowers and with a 95% confidence level, he calculated a confidence interval of 26.341±6.213 inches. aspirin is 325.623+ 2,216.

 A chemist measured the amount of acetylsalicylic acid in tablets of aspirin and, using a 99% confidence level, calculated a confidence interval of 325.623±2.216 cc's

Discuss test results

Intro to Inference with means...



Creating the confidence interval





CATAPULT LAB

Interpreting the confidence interval



GOSSET'S 7 William S. Gosset, an employee of the Guinness Brewery in Dublin, Ireland, worked long and hard to find out what the sampling model was.

GOSSET'S *T*The sampling model that Gosset found has been known as Student's *t*.

GOSSET'S T

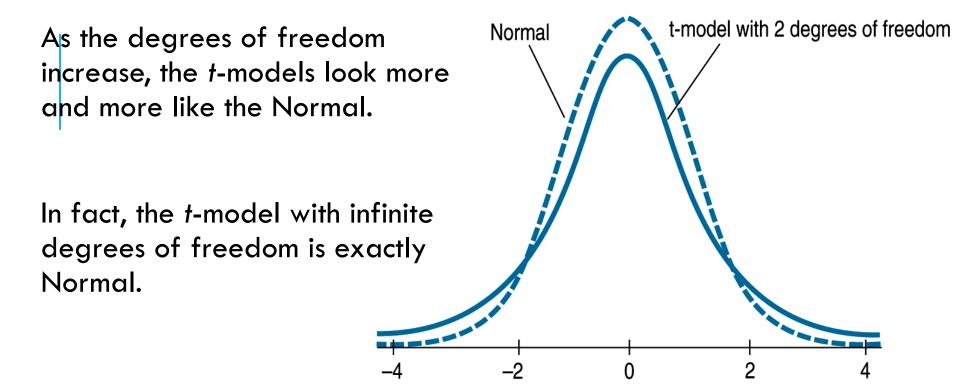
The Student's *t*-models form a whole family of related distributions that depend on a parameter known as degrees of freedom.

• We often denote degrees of freedom as df, and the model as t_{df} .

WHAT IS THIS DEGREE OF FREEDOM?



A CONFIDENCE INTERVAL FOR MEANS?



A QUICK EXPERIMENT



Compare z-distribution to t-distribution

