

The background of the slide is a light gray gradient with several realistic water droplets of various sizes scattered across it. The droplets have highlights and shadows, giving them a three-dimensional appearance. The text is centered and written in a bold, purple, sans-serif font.

A FEW THOUGHTS,  
A CONUNDRUM,  
AN EVALUATION,  
AND  
THE BEST ADVICE (EVER)

FROM ANDRÉ

# 1. IT'S A GREAT TIME TO BE TEACHING STATISTICS!

- NCIS
- NCIS LA
- NCIS NO
- CSI

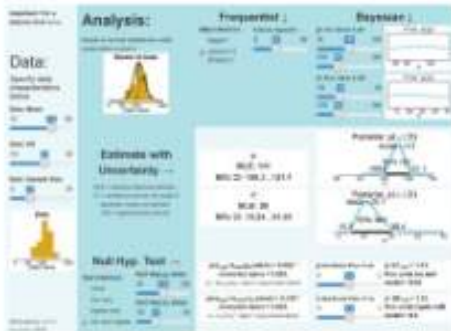
<http://www.indiana.edu/~kruschke/>

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## The Shiny App: Bayesian and Frequentist Side by Side

This is an interactive web app for doing Bayesian and frequentist analysis side by side. An extensive tutorial guides you through all the interactive capabilities. You get to see the different information delivered by Bayesian and frequentist analyses. You get to see the different information delivered by parameter estimation with uncertainty versus hypothesis testing. You get to interactively experience the dependencies of the analyses on different assumptions.

[The Shiny App: Frequentist and Bayesian Side by Side \(external site\)](#)



**“ADOPT”  
an  
app**

AND NOW IT'S TIME FOR

**DATA SCENE**

**INVESTIGATION**

EVERY TIME



Puzzle

QUEST

A	LWAYS
B	E 
C	URIOUS

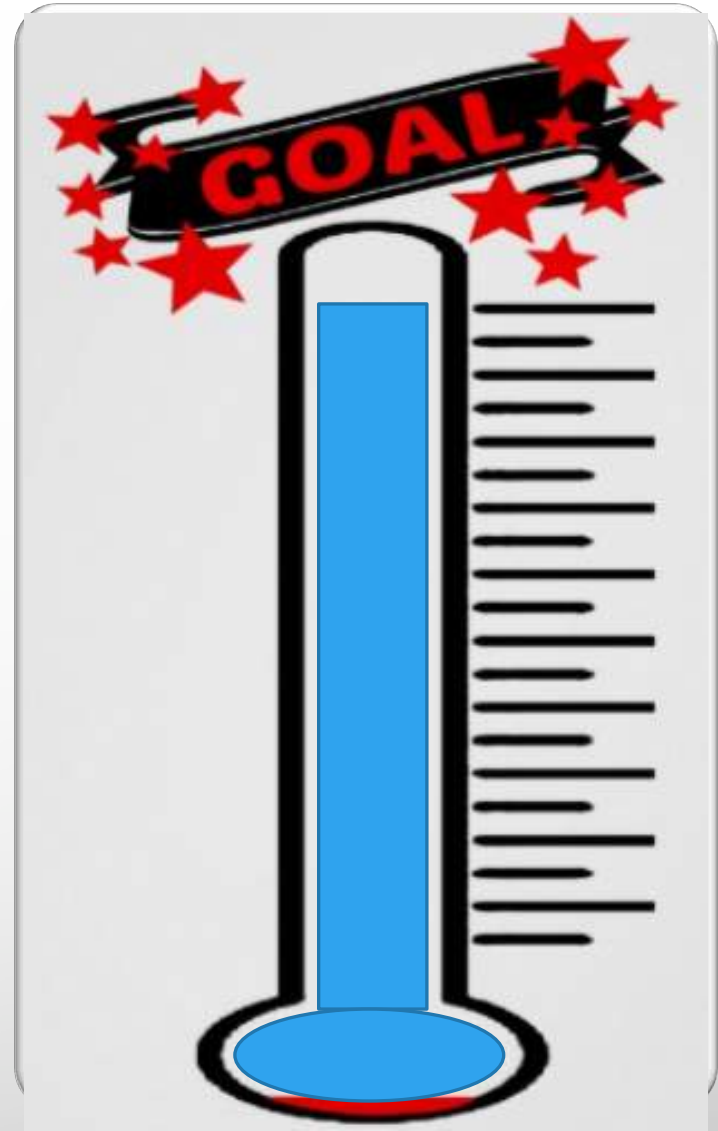
LL

Mystery

Scavenger Hunt

THANK  
YOU

ENTHUSIASM  
METER





## 2. FOOD FOR THOUGHT

**Top Drawer Teachers:**

**What's in my top drawer???**



- **A** Accept Uncertainty



Uncertainty:  
Something you can  
always count on





“ADOPT”  
an  
app

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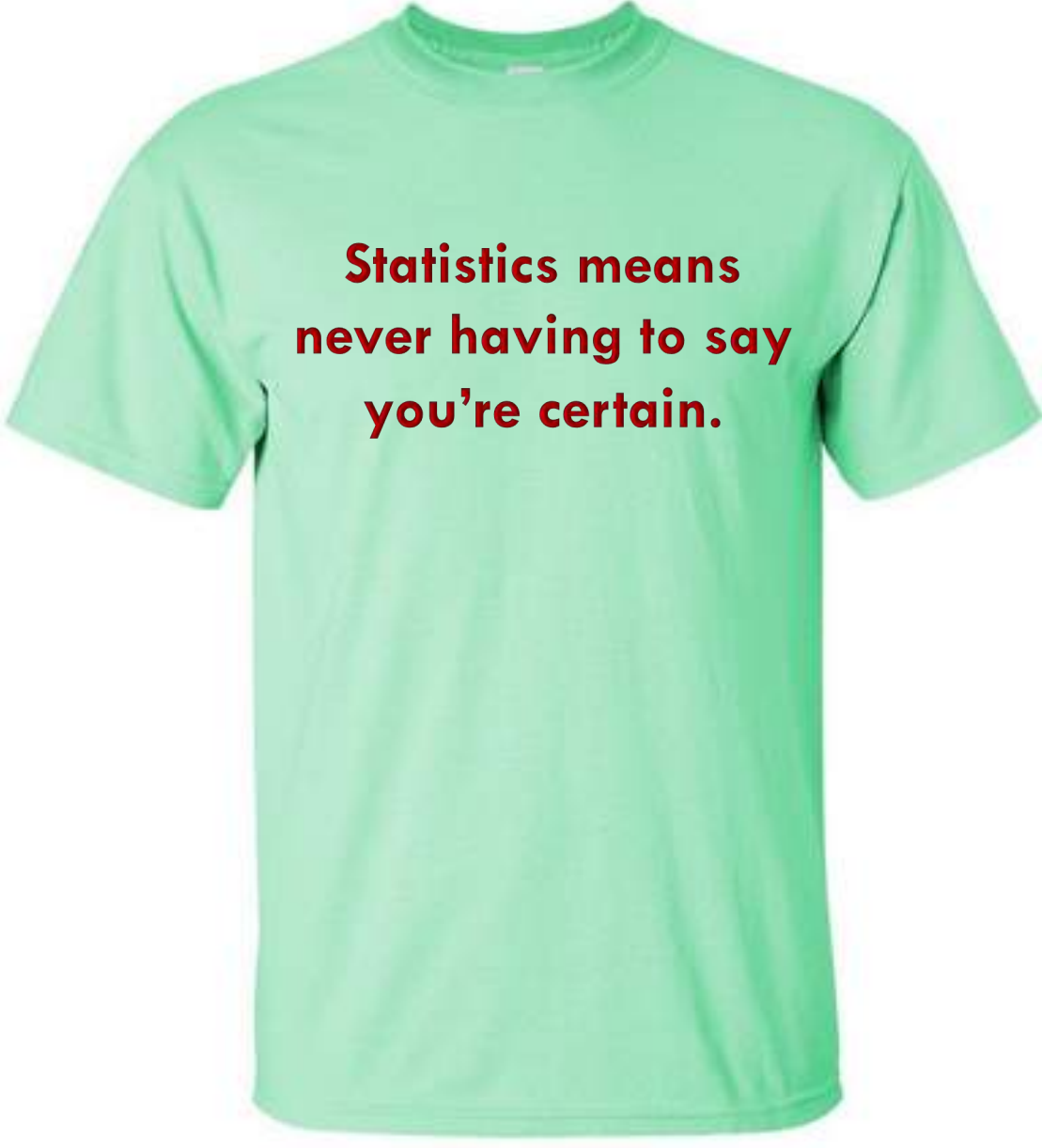
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The screenshot shows the Shiny App interface with three main panels: 'Analysis', 'Frequentist', and 'Bayesian'. The 'Analysis' panel includes a 'Date' input field, a histogram, and a 'Multi-App Test' section. The 'Frequentist' panel displays a normal distribution plot with mean and standard deviation values. The 'Bayesian' panel shows a tree diagram representing a probability model.





**Statistics means  
never having to say  
you're certain.**

**BUT... now I can't  
even say I'm  
confident!**

**Compatibility  
Intervals???**

### 3. DON'T BE DICHOTOMOUS



SO ...

Let's not be dichotomous about  
statistical significance either!

**Statistically significant**



**Strength of evidence**

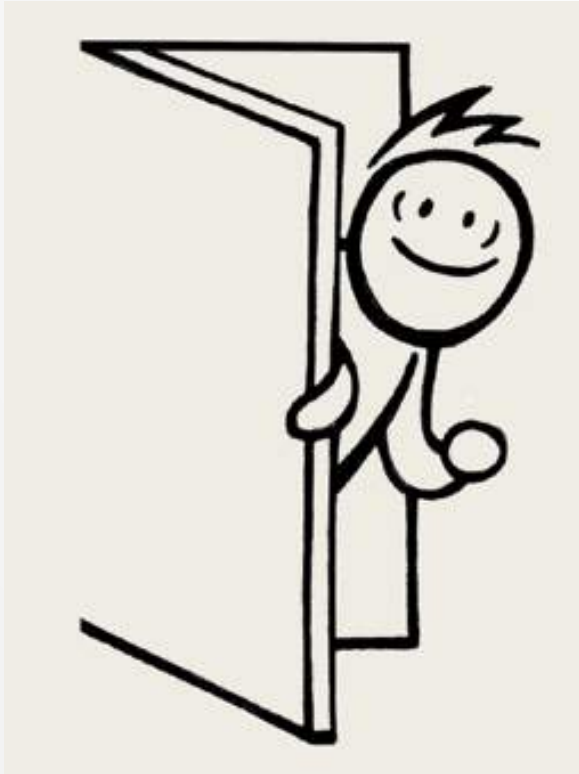




**“ADOPT” an app**



# MY CONUNDRUM





# EVALUATING THE EVIDENCE ABOUT USCOTS 2019

**WILL/DOES USCOTS HAVE A  
SIGNIFICANT IMPACT ON ATTENDEES?**

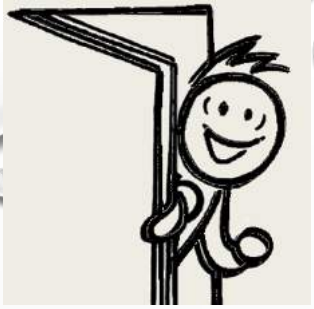


**P-value = .0007**

**Effect size: 7**

**AML's measure 77**





The image features a light gray gradient background with several realistic water droplets of various sizes scattered in the corners. The droplets have highlights and shadows, giving them a three-dimensional appearance. The text "THE BEST ADVICE" is centered in the upper half of the image.

# THE BEST ADVICE

Become a nuisance ...

