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

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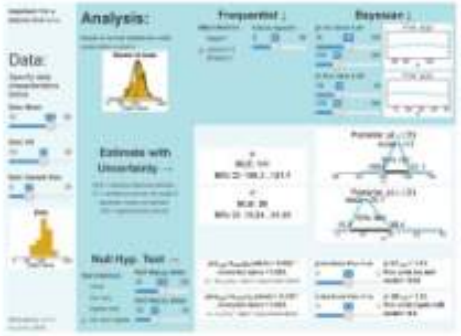
The Shiny App: Bayesian and Frequentist Side by Side

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

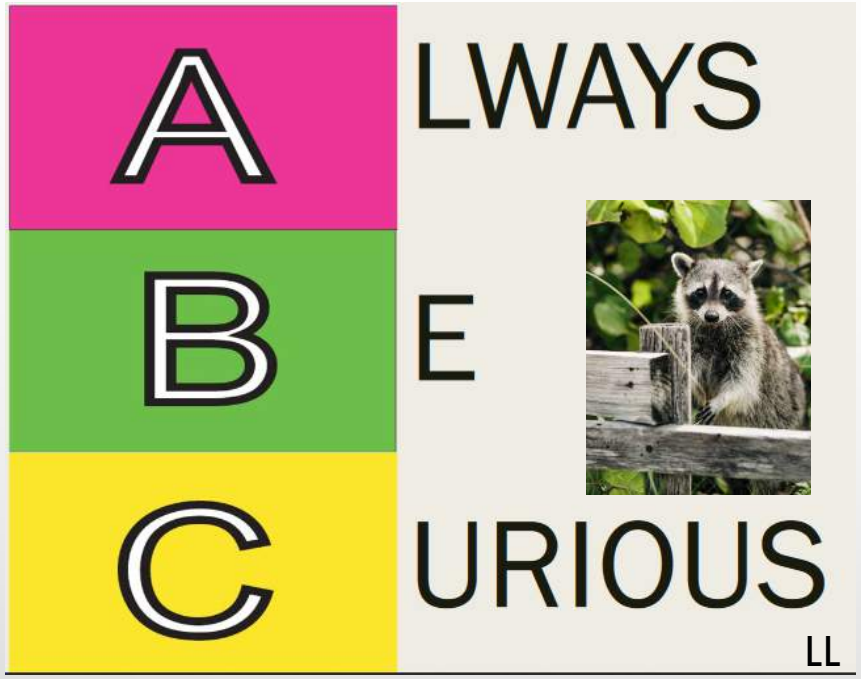
AND NOW IT'S TIME FOR

Data Scene Investigation

EVERY TIME

Puzzle

QUEST



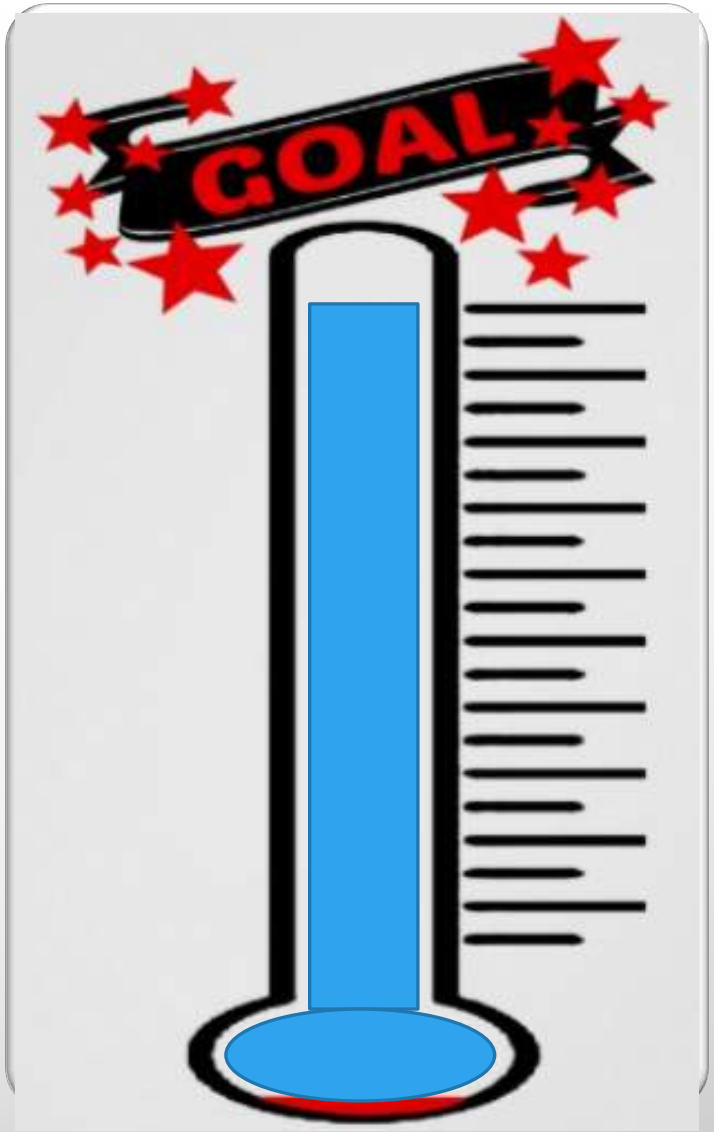
Mystery

Scavenger Hunt

THANK YOU

ENTHUSIASM

METER

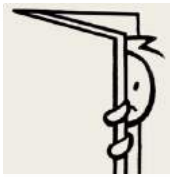


2. FOOD FOR THOUGHT

Top Drawer Teachers:

What's in my top drawer???

• Accept Uncertainty



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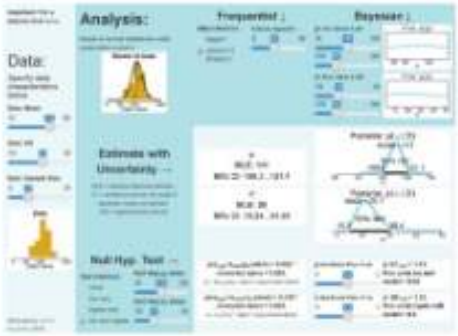
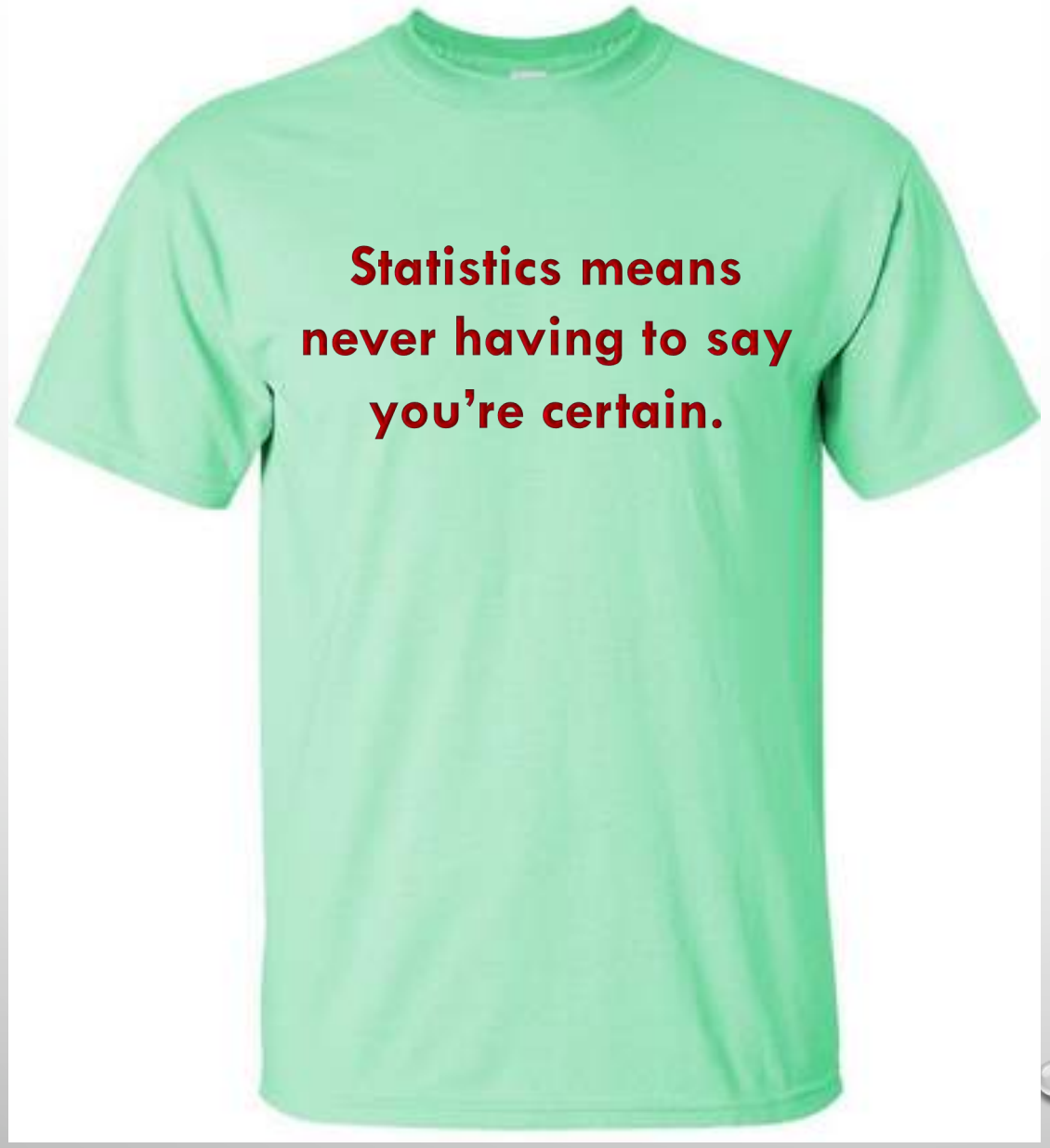


In God We Trust,
All others must
bring data.



BUT… now I can't even say I'm confident!

Compatibility Intervals???

3. DON'T BE DICHOTOMOUS

.05

SO …

Let's not be dichotomous about

statistical significance either!

Statistically significant → → **Strength of evidence**

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MY CONUNDRUM

EVALUATING THE EVIDENCE ABOUT USCOTS 2019

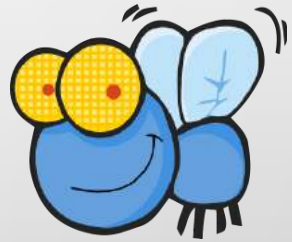
WILL/DOES USCOTS HAVE A SIGNIFICANT IMPACT ON ATTENDEES?

P-value = .0007

Effect size: 7

AML's measure 77

JACKPOT
SLOT MACHINE
7
7
7

THE BEST ADVICE

Become a nuisance …