

Hand Size vs Typing Speed

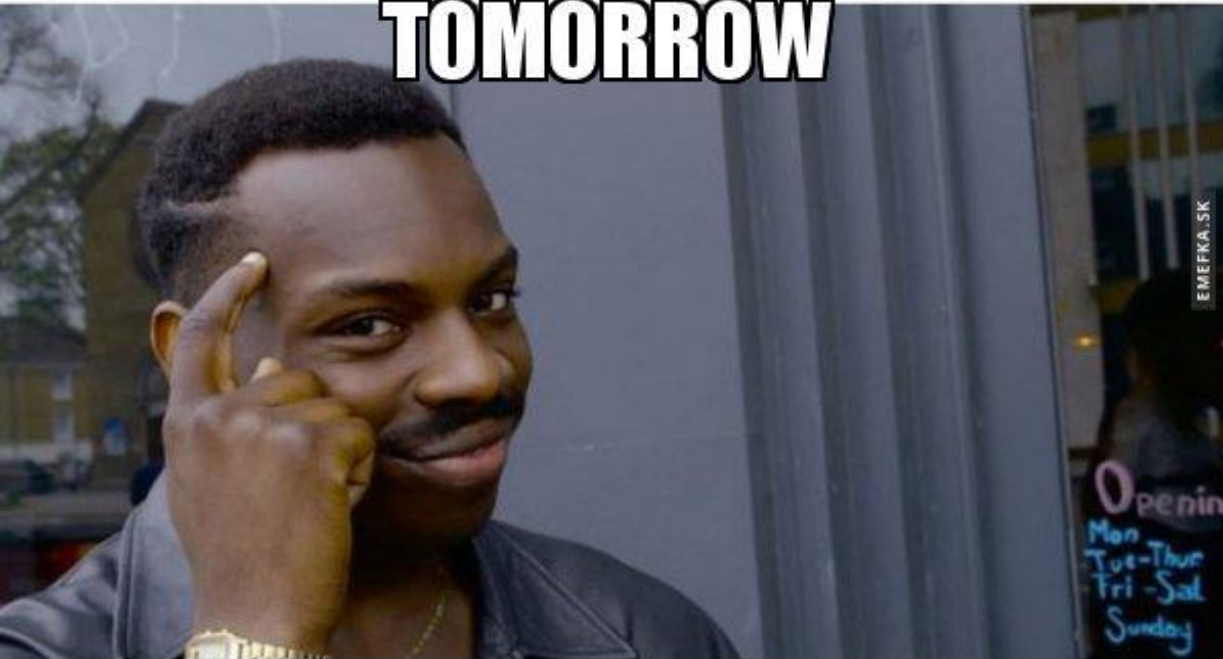
James Ding

Ellie Ku

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**"DUE TOMORROW" DUE, DO
TOMORROW**



makeameme.org



Intro

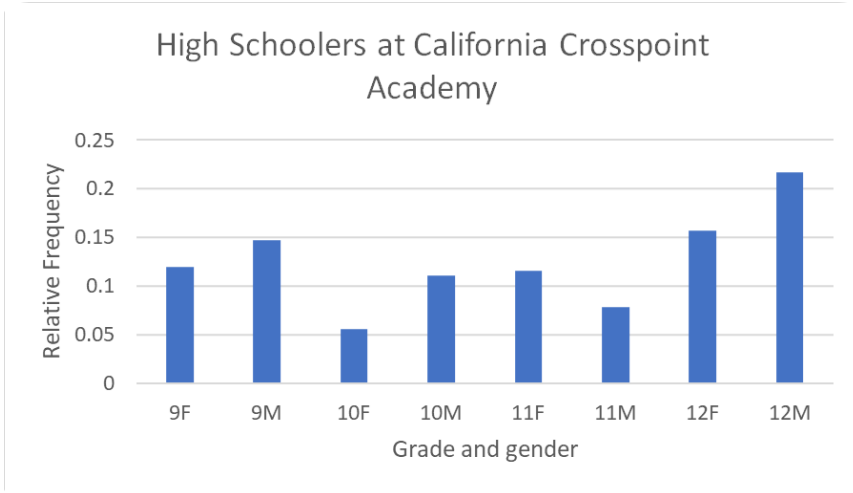
Hypothesis: People with larger hands tend to type faster



Intro-Confounding Variables

- Familiarity – typing faster on a keyboard they're familiar with
- Personal laptop – provided by the student
- School laptop - Lenovo 300e 2nd Gen 81M9 R91339FX

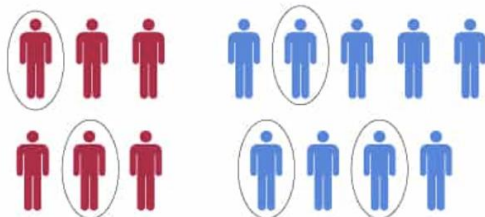




Data Collection-Sample Space

- Stratified random sample by grade and gender
 - Representative of our school population
 - RNG to choose students
- Convenience Sample
 - Mainly juniors and seniors
- Randomized surveyors
 - Minimize response bias

Stratified random sampling

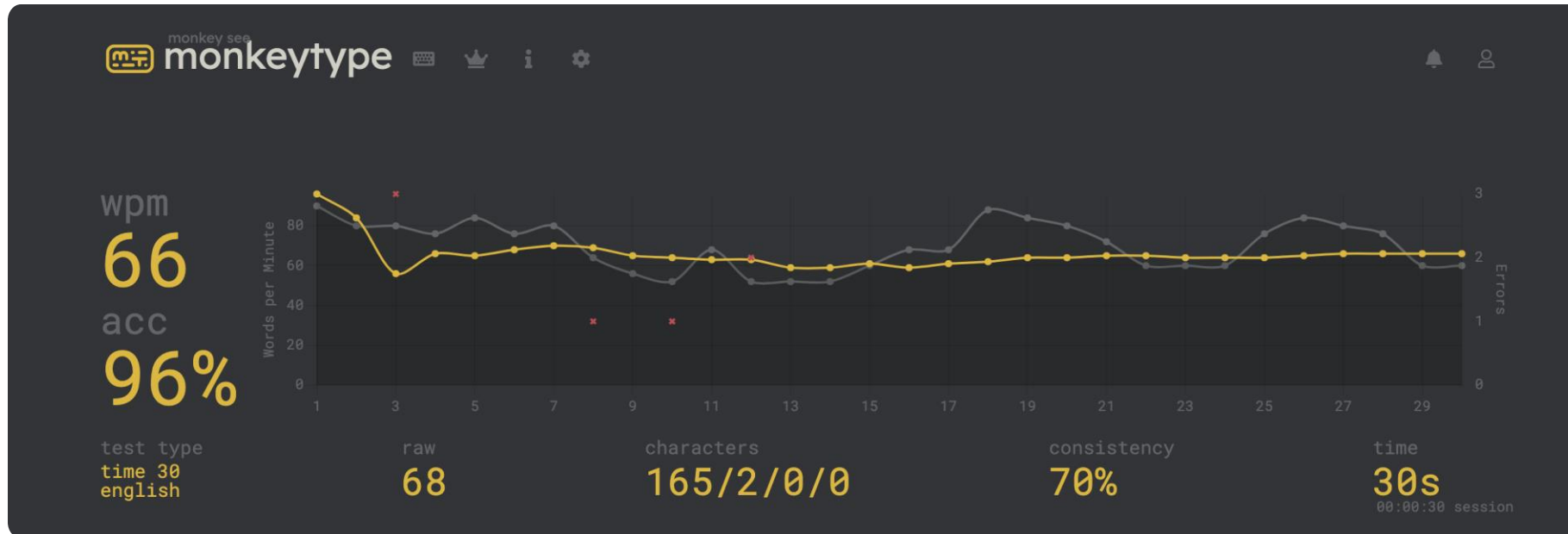




Data Collection- Tools

- Monkey Type
- 30 Second timed test





Data Collection- Tools

WPM (Word per Minute)-The total amount of characters in the correctly typed words including spaces, divided by 5 and normalized to 60 seconds.

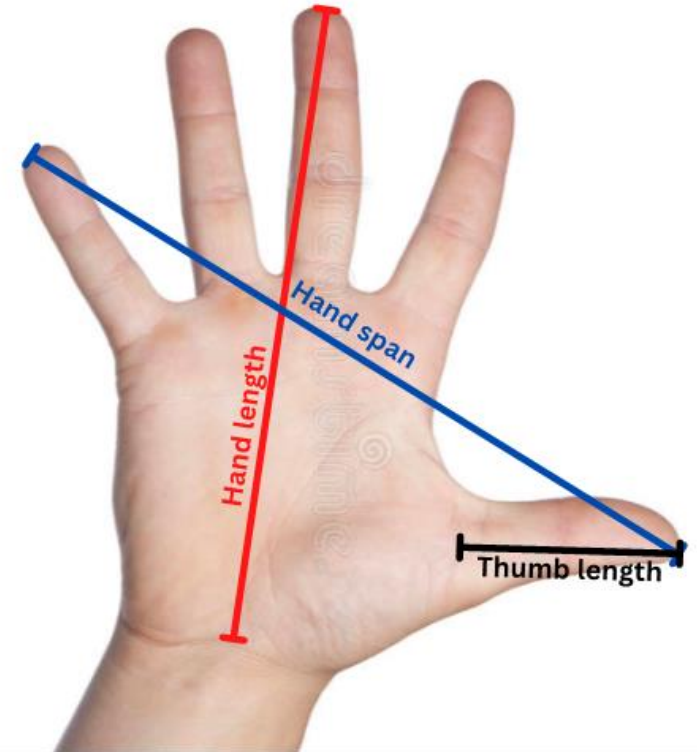
Raw WPM – Calculated just like WPM, but also includes incorrect words

Accuracy – The percentage of correctly pressed keys

Consistency – Based on the variance of your raw wpm. Closer to 100% is better. Calculated using the coefficient of variation of raw wpm and mapped onto a scale of 0 to 100.

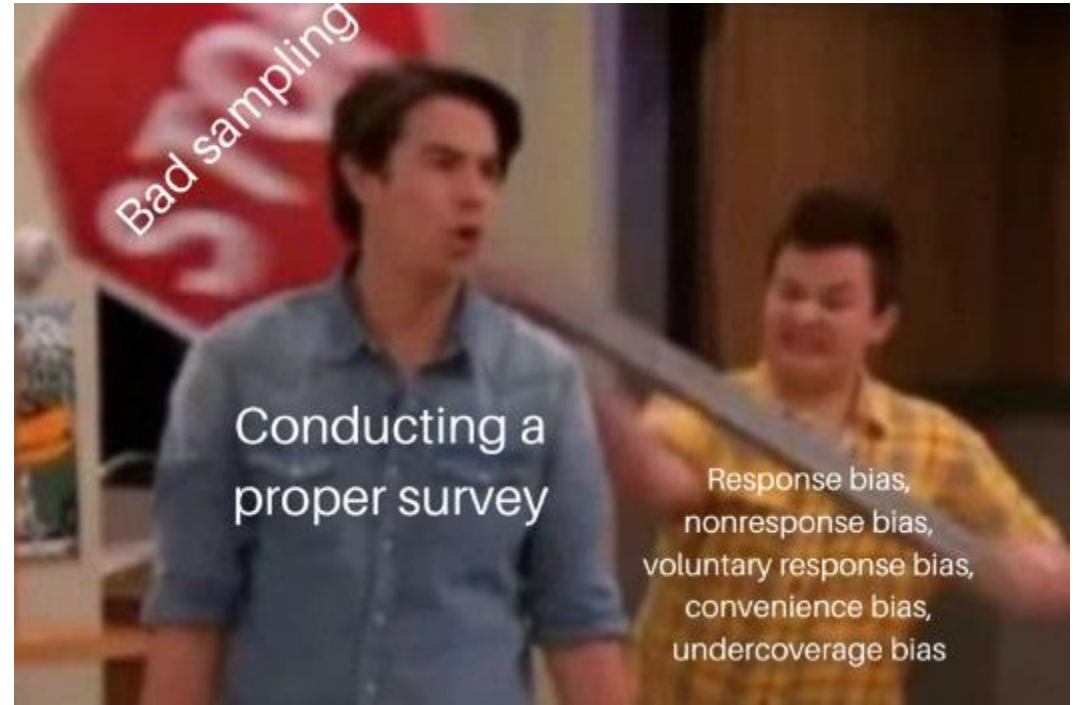
Data Collection- Methods

- Hand length, hand span, thumb length
 - Centimeters
- Monkeytype





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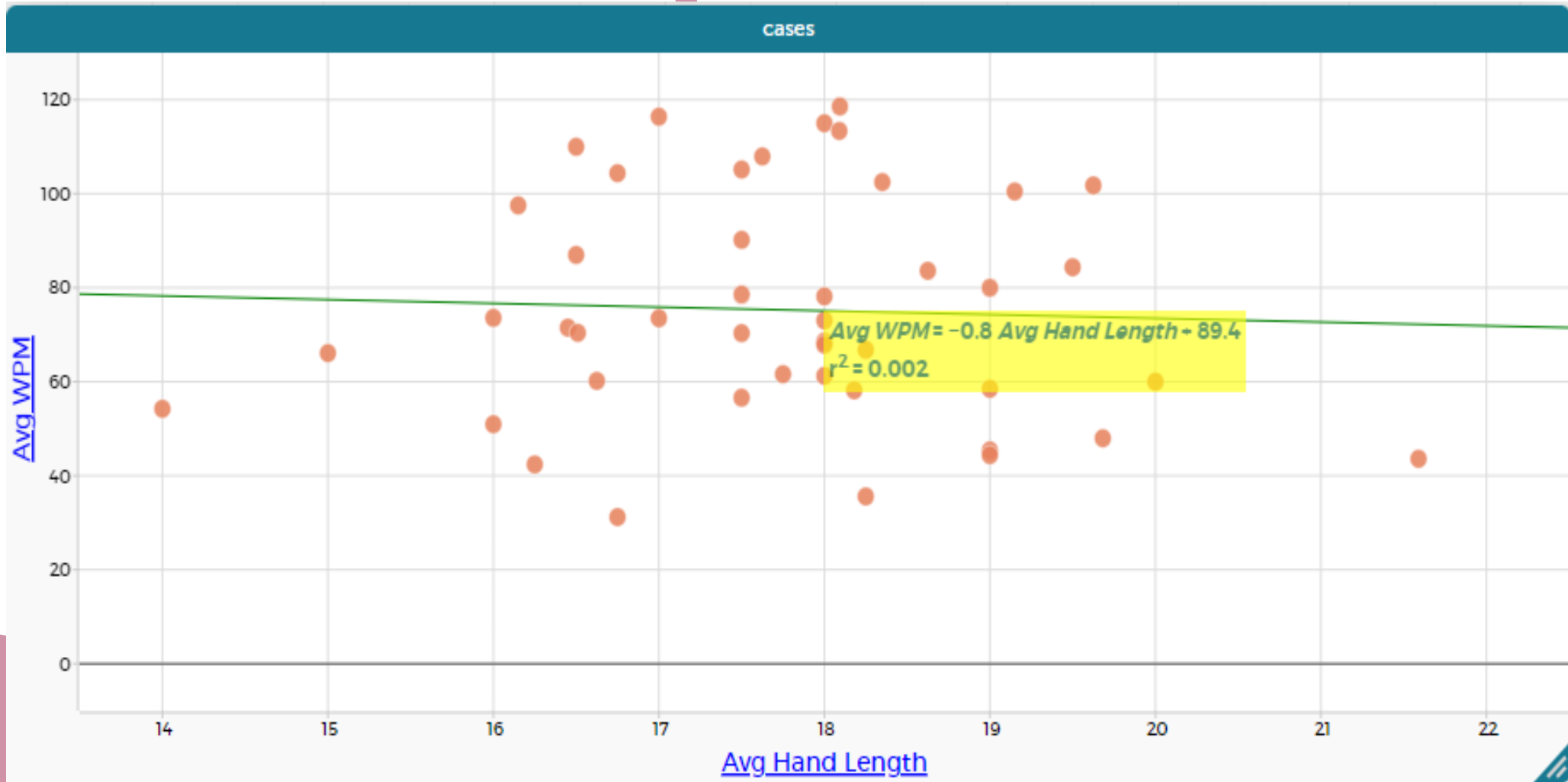


Data Collection - unexpected difficulties

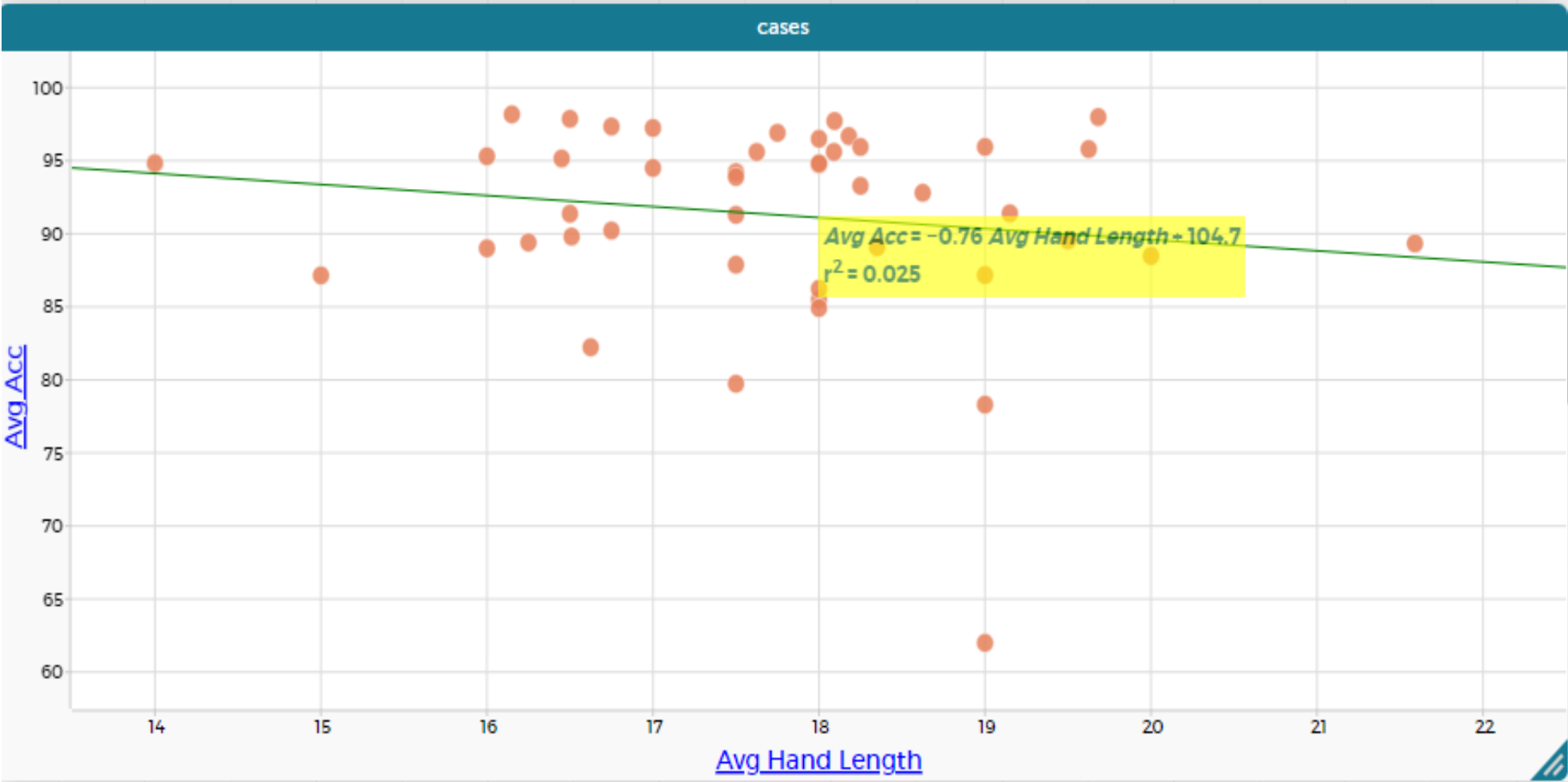
- Time constraints
- Non-response
 - Replacing people who were unavailable

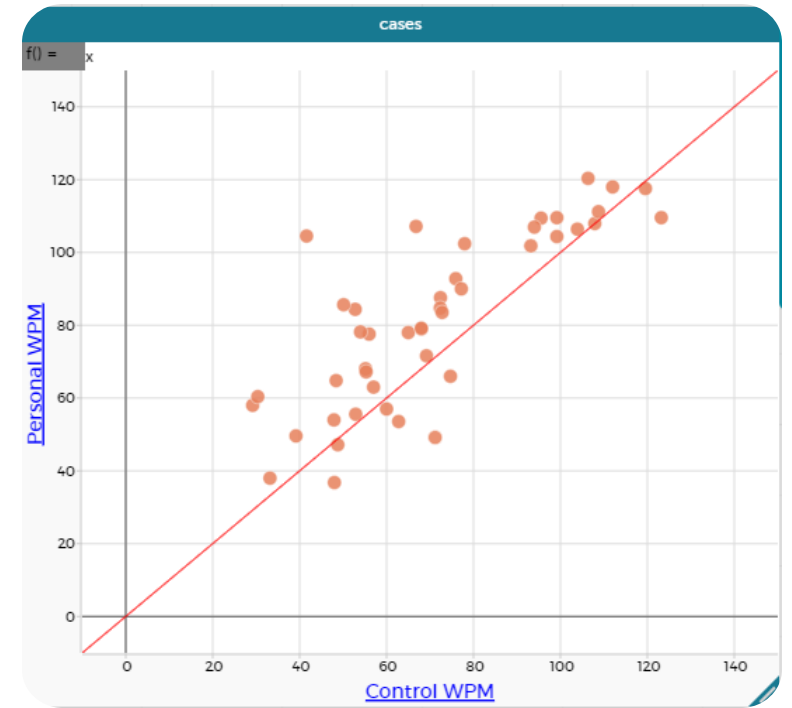
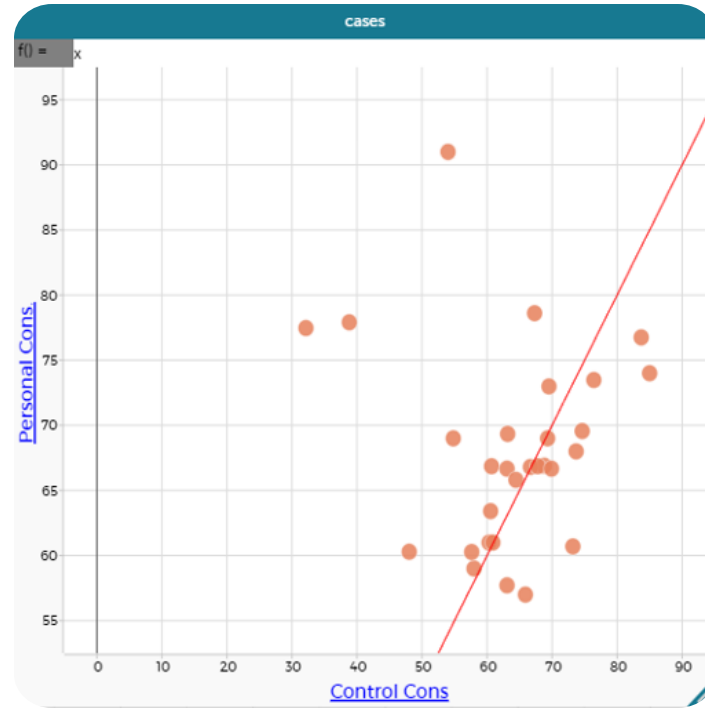
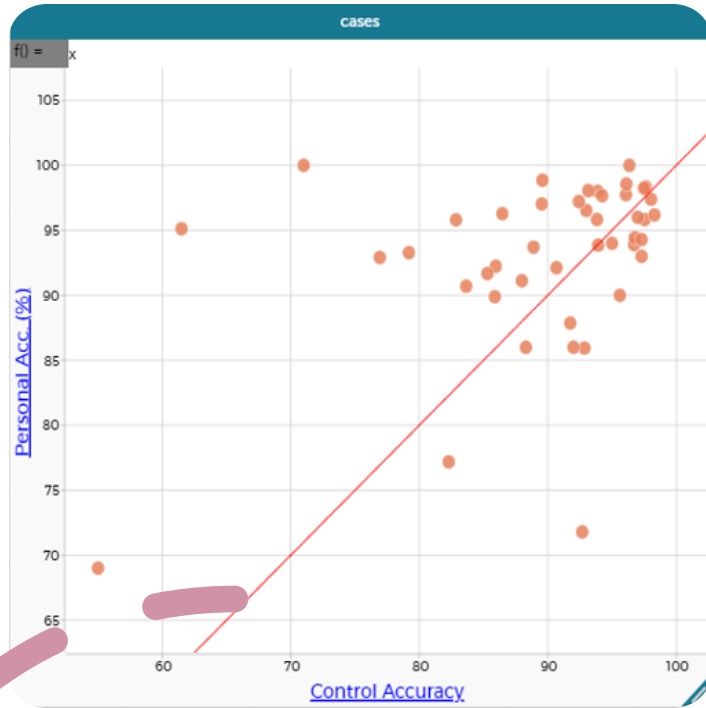


Data Analysis



Data Analysis (continued)





Personal vs. Control

- As expected, people did better on their personal laptops
- $Y=x$ line graphed

Conclusions

- No correlation :(
- Typing speed is a learned skill, not a natural one
- People with smaller hands can sometimes type faster than people with bigger hands



Question 2

When is the time that you should ask a question if you are confused about something?

a. When there's a quiz coming up

✓ b. The first moment you are confused

c. End of the quarter

d. You shouldn't ask



Crippling
Depression



Linear
Regression
($Y=a+bX$)



Thank You:)