

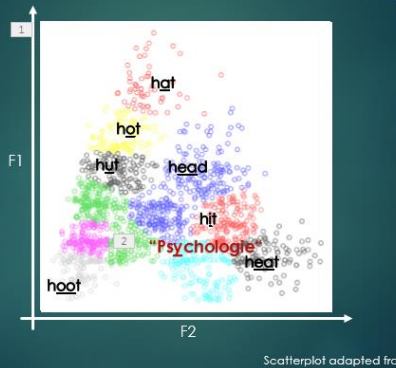
How do we learn vowels?

Till Poppels

Supervised by: Daniel Swingley, PhD

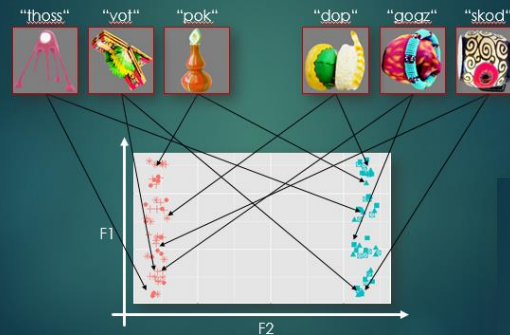
1. Vowels

A word on vowels



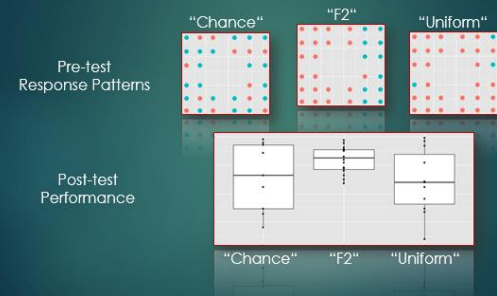
2. Design

The Control Condition

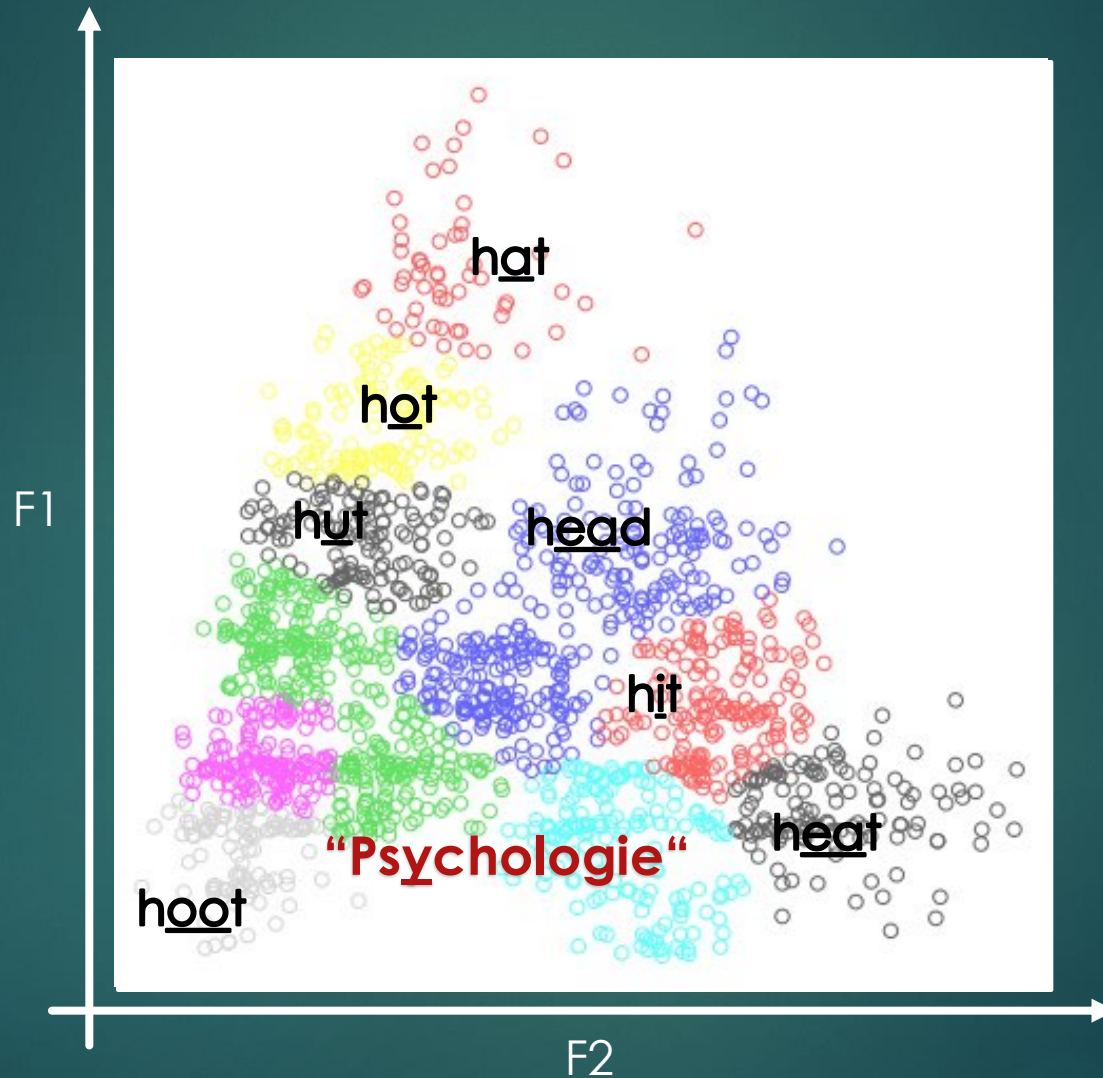


3. Results

Ceiling effect?

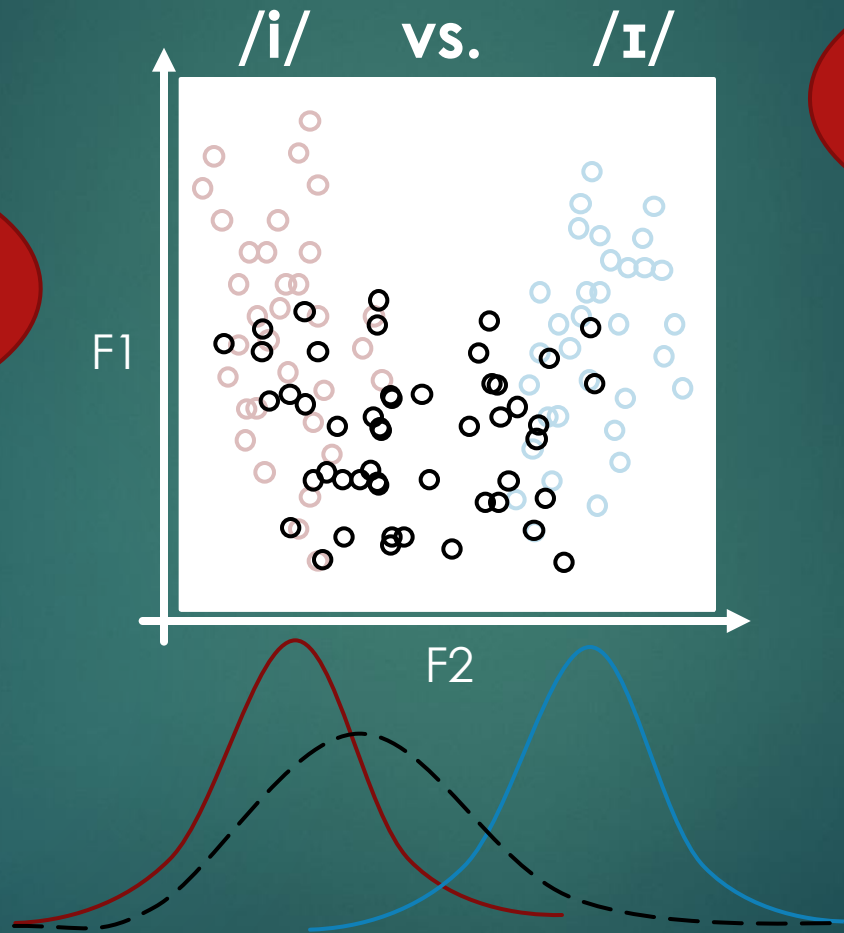


A word on vowels



Learning by Listening

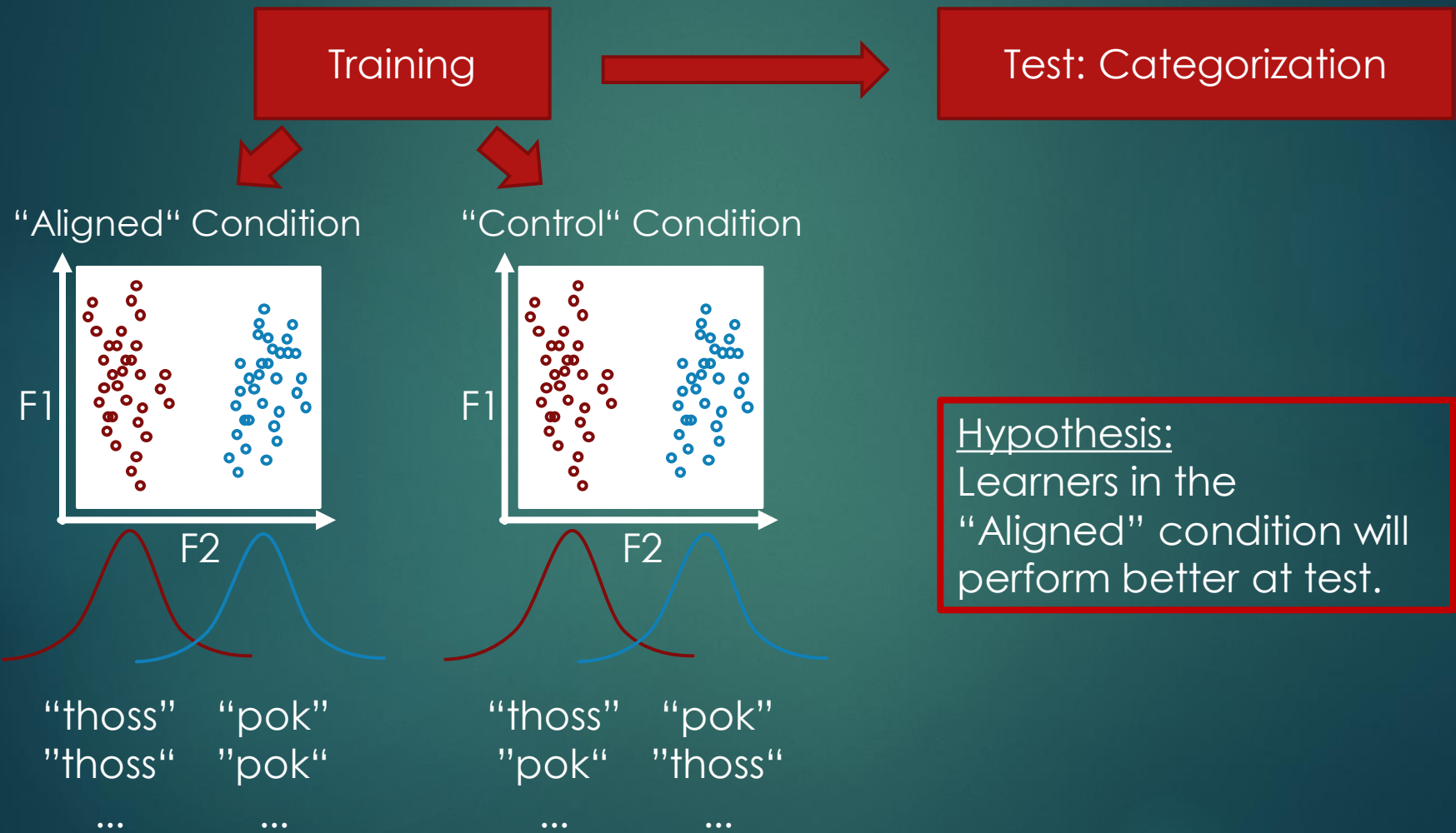
Yes!
And adults do
it, too.



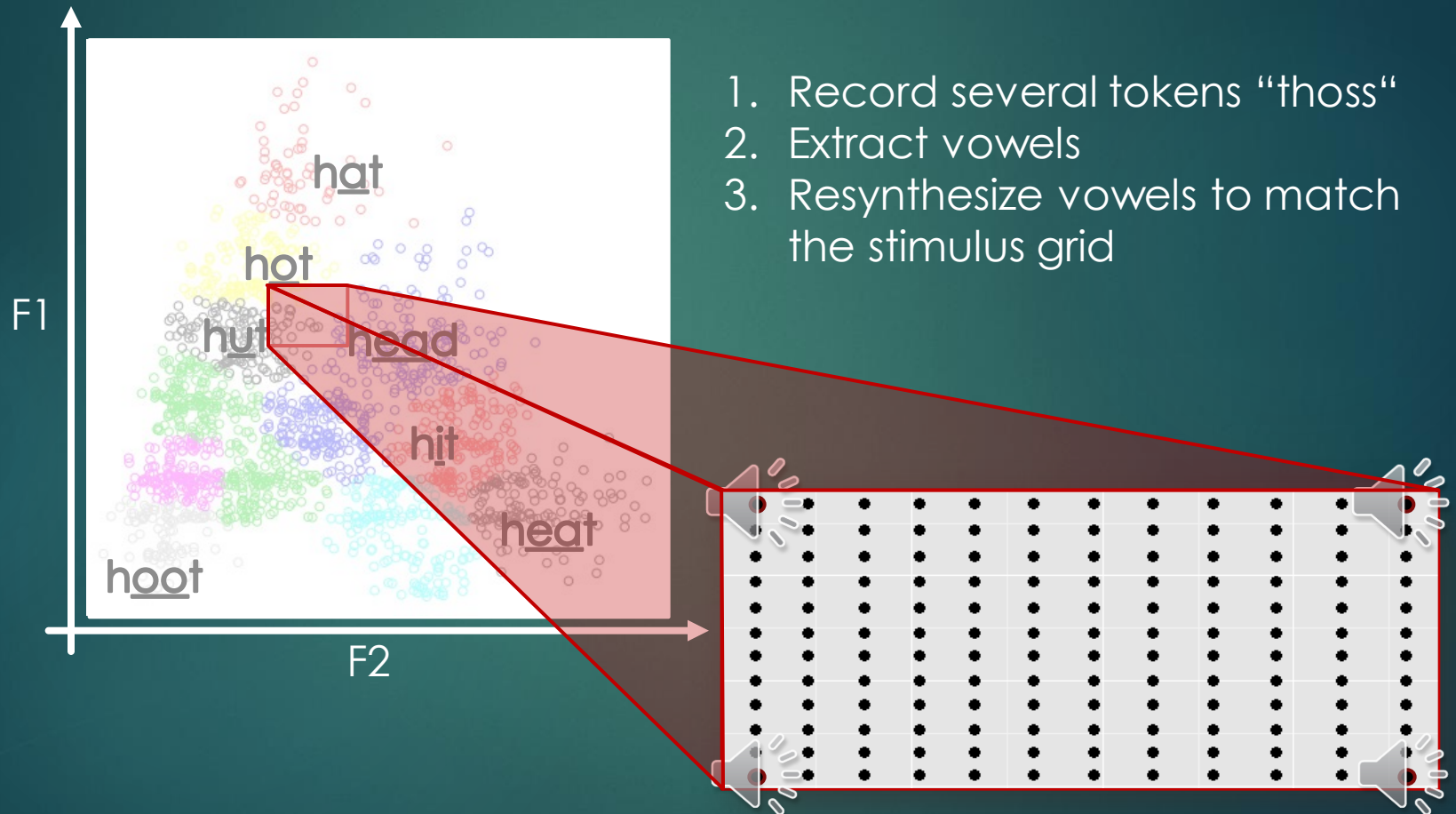
Infants doing
Statistics?
Really?!

And: words
help!

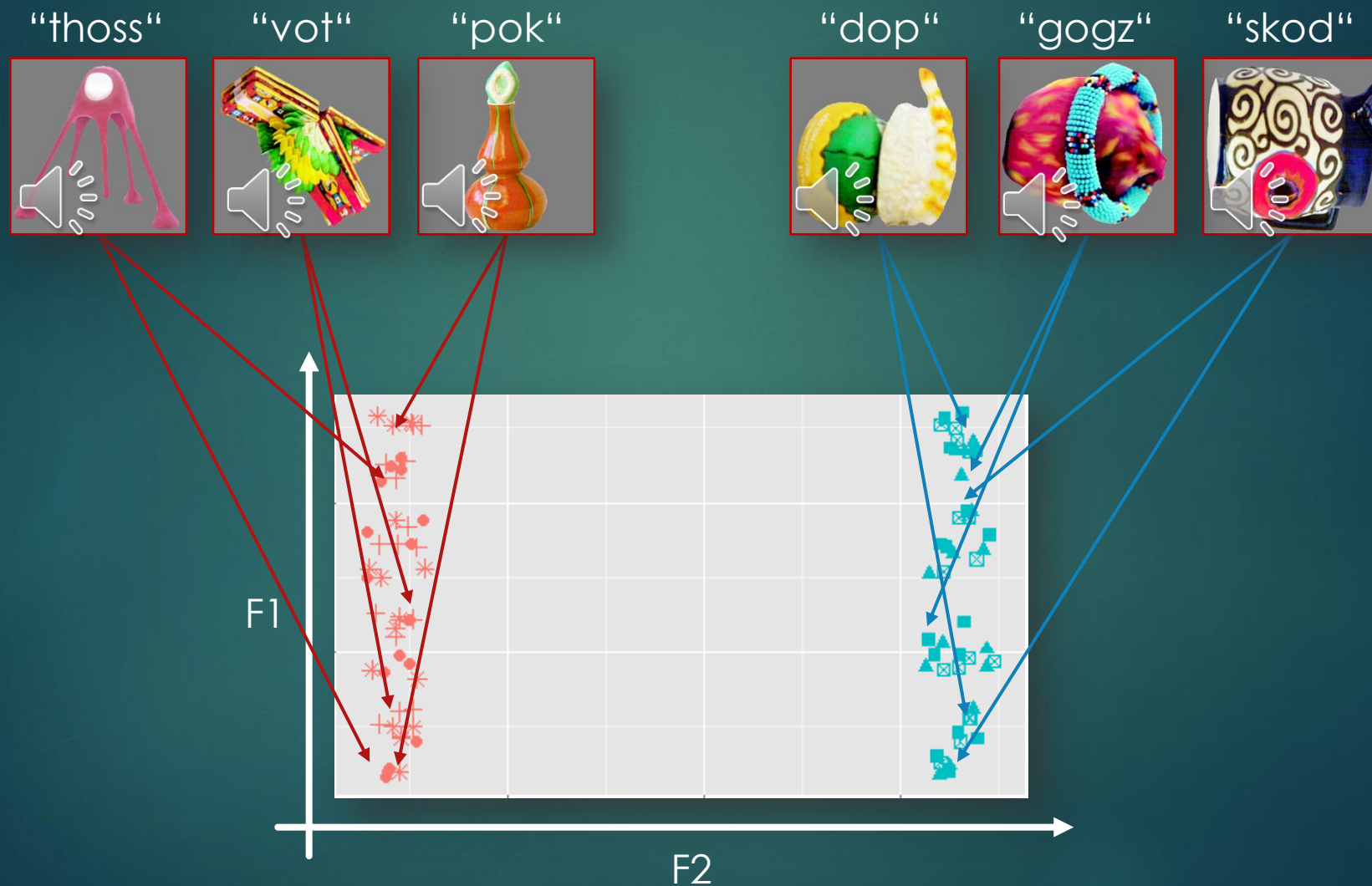
How can we test this?



Creating Stimuli



The Aligned Condition



The Control Condition

“thoss“



“vot“



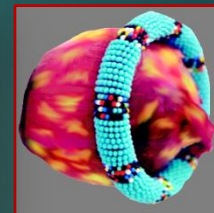
“pok“



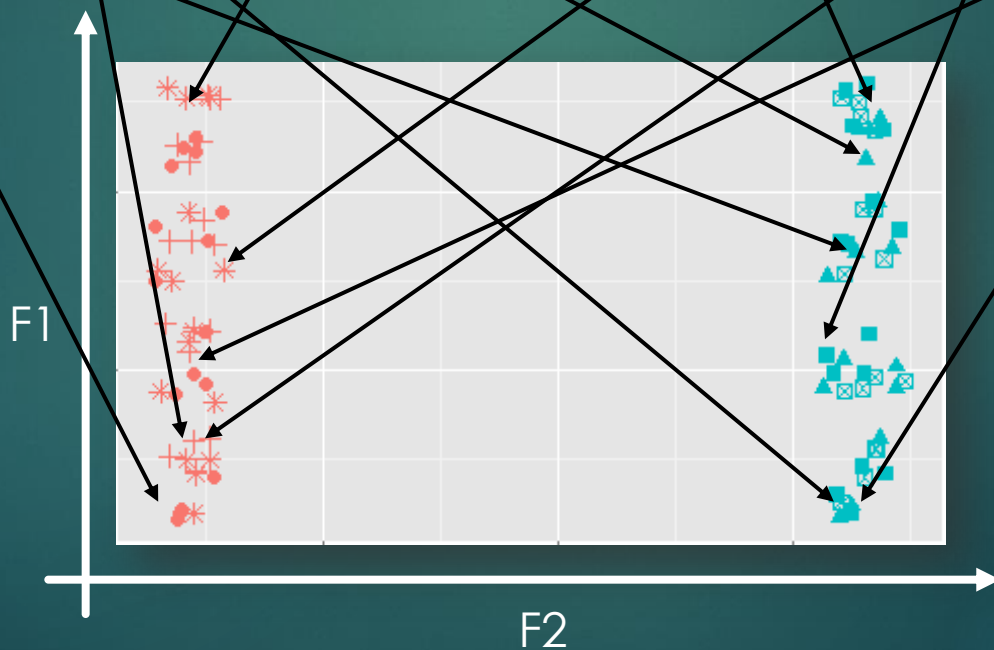
“dop“



“gogz“



“skod“

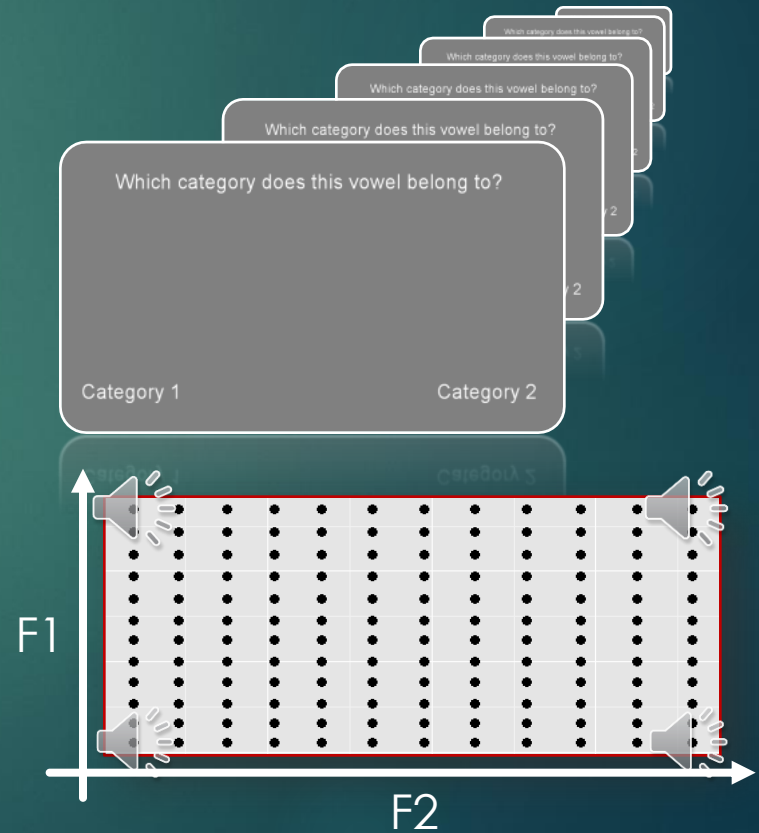
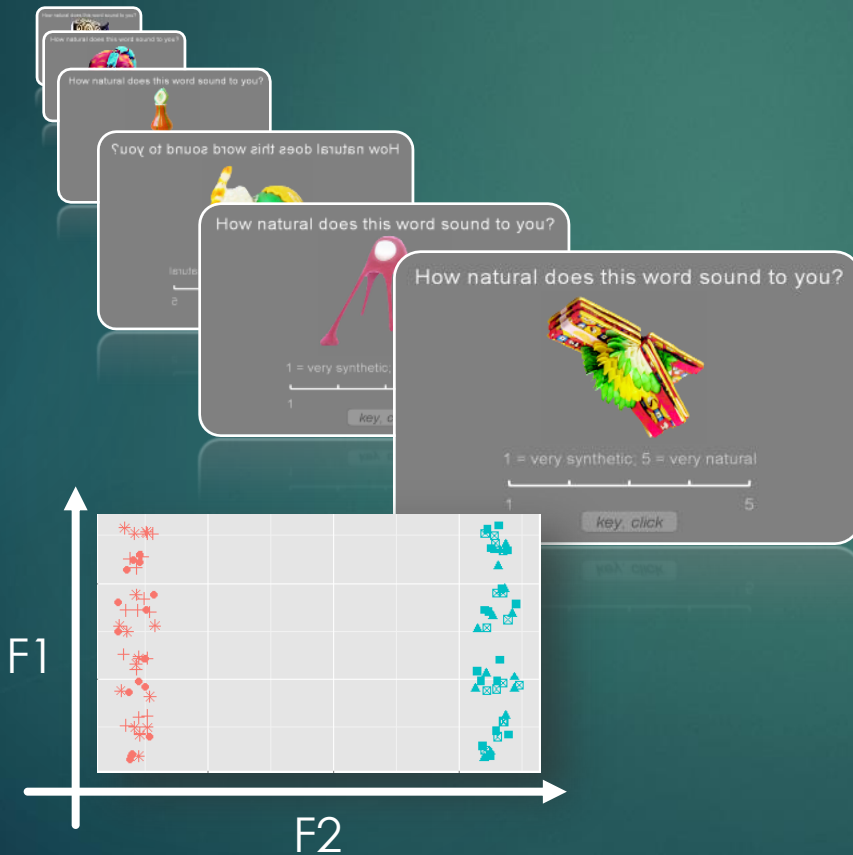


Procedure

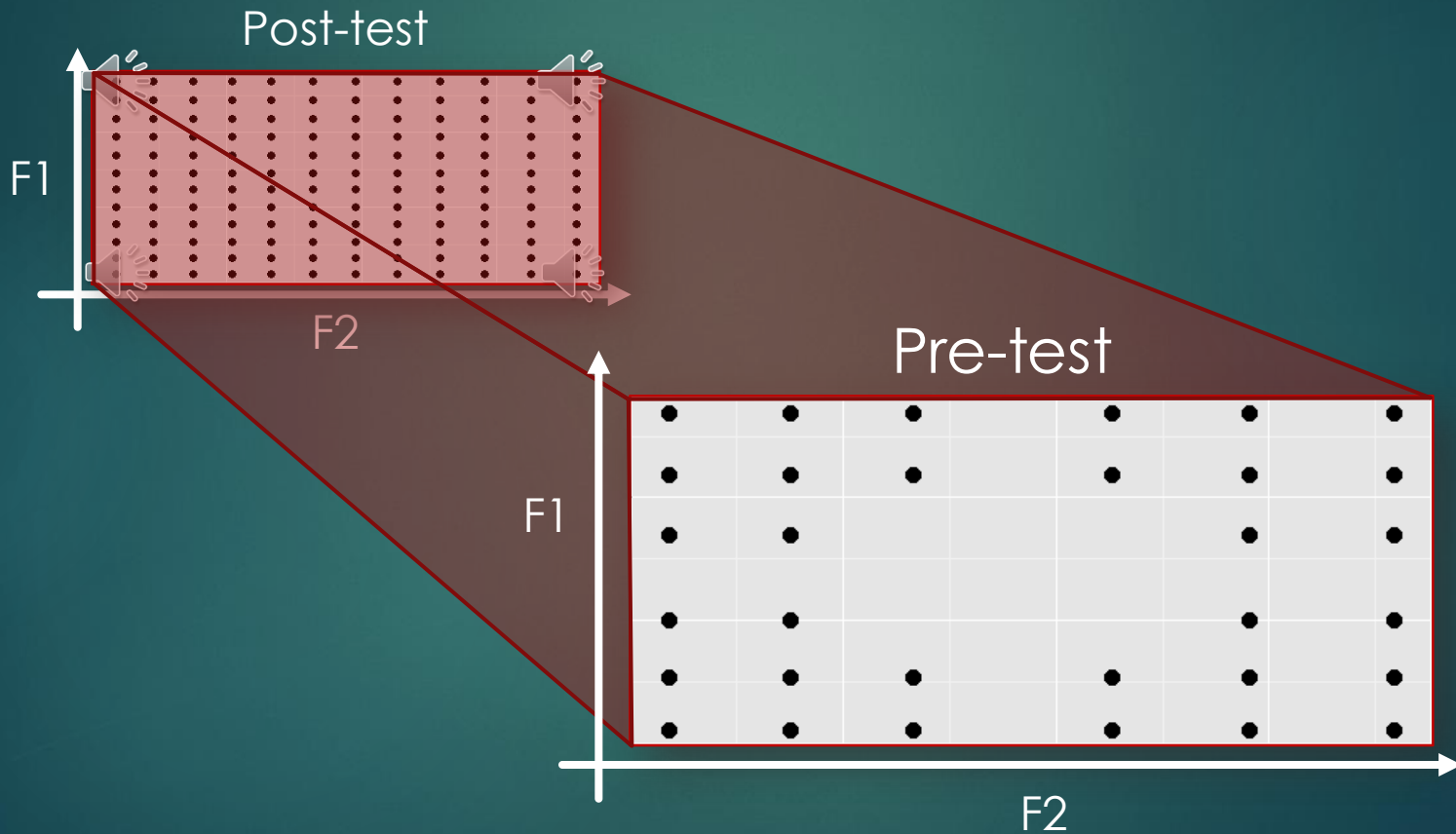
Training



Test: Categorization

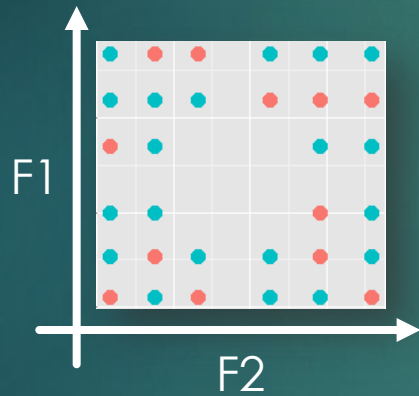


Before training: Pre-test

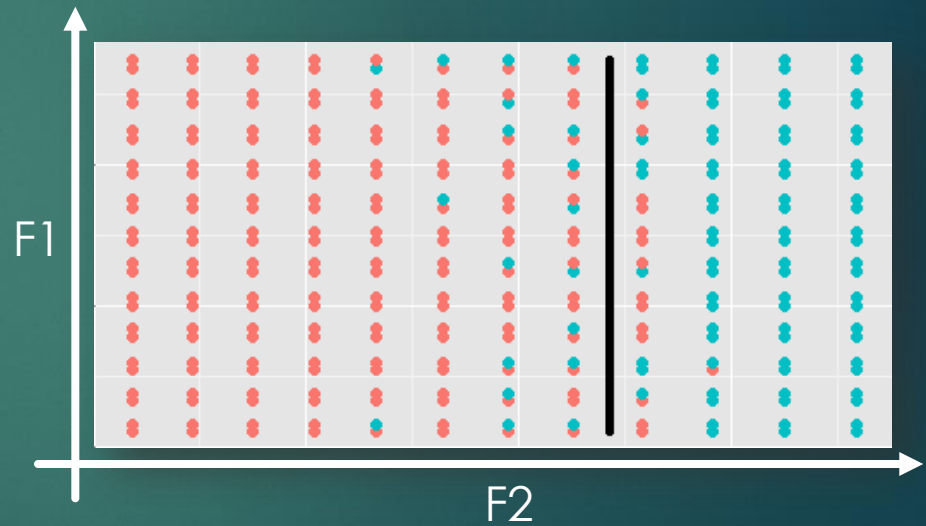


Individual Performance

Pre-test



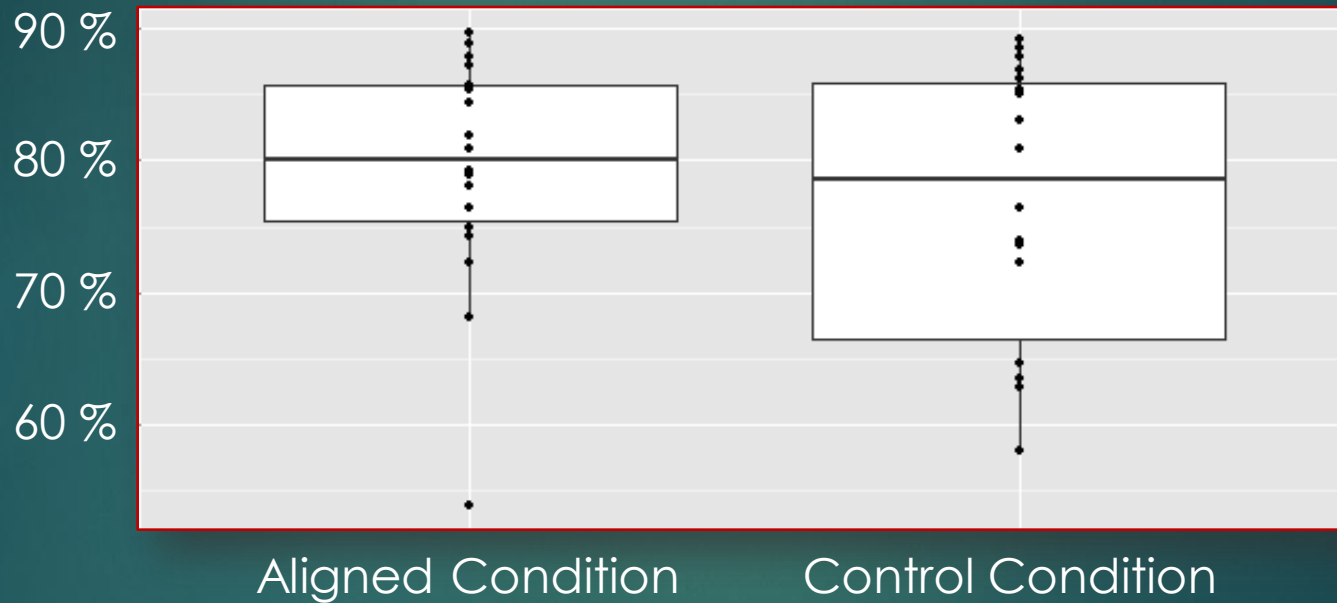
Post-test



...color indicates response: **left**/**right**

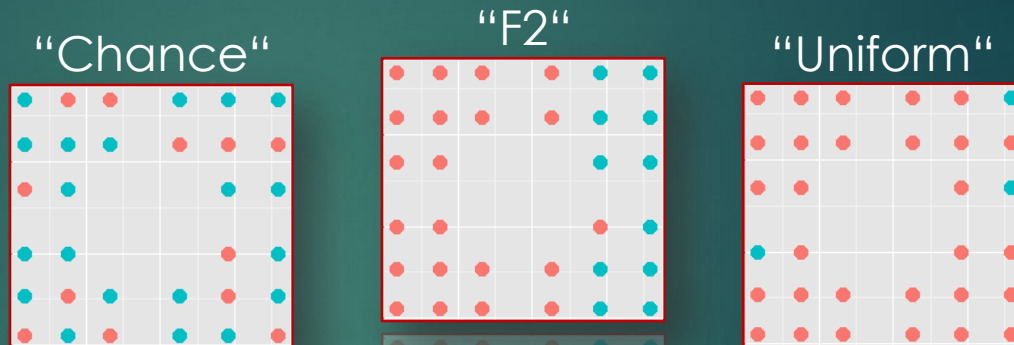
Group Results

Post-test Performance

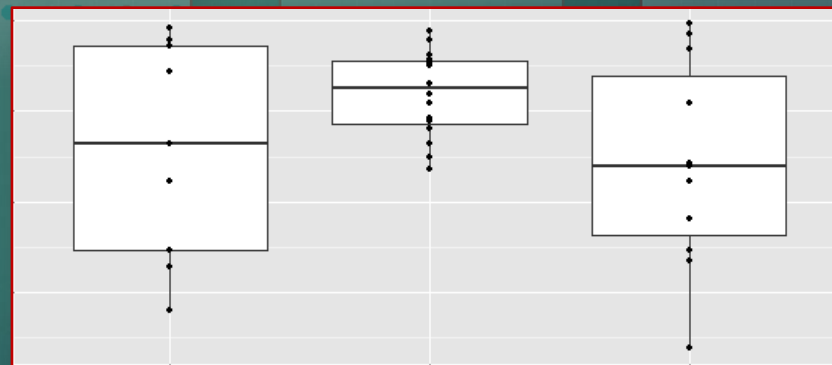


Ceiling effect?

Pre-test
Response Pattern



Post-test
Performance



"Chance"

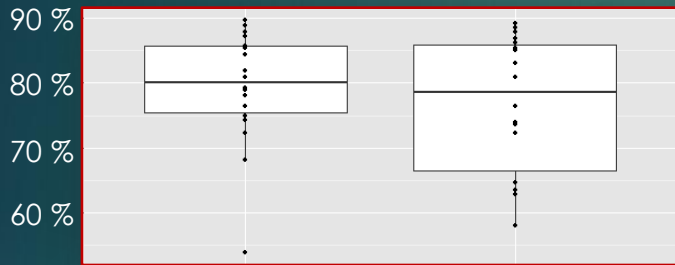
"F2"

"Uniform"

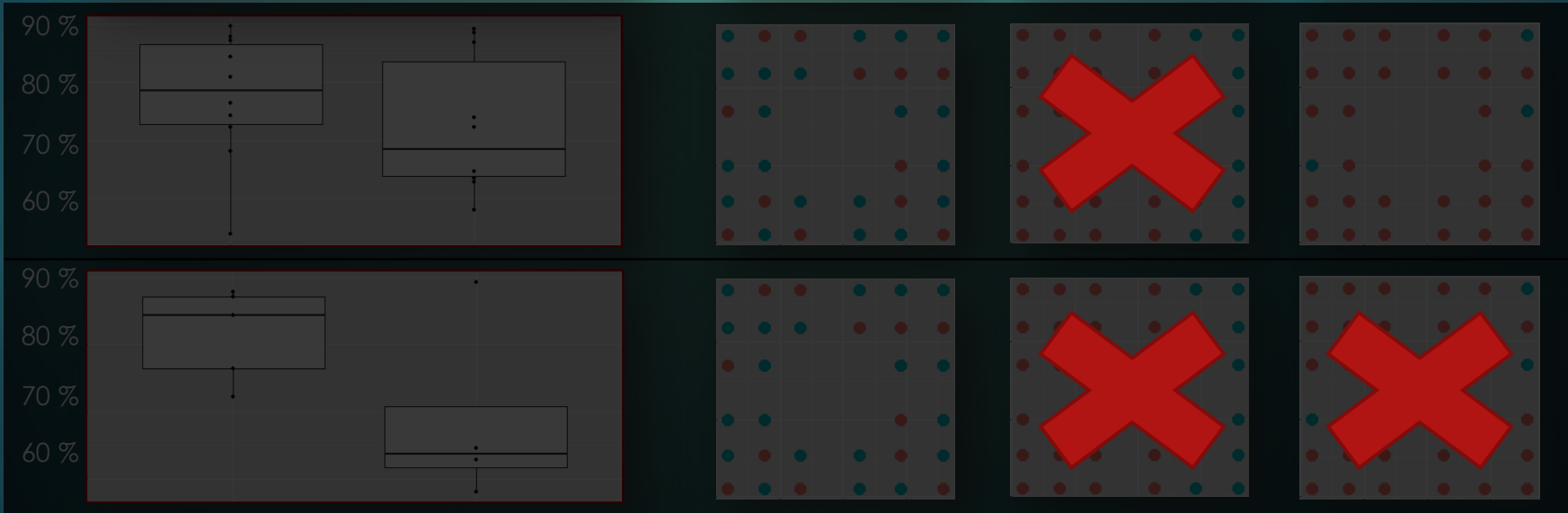
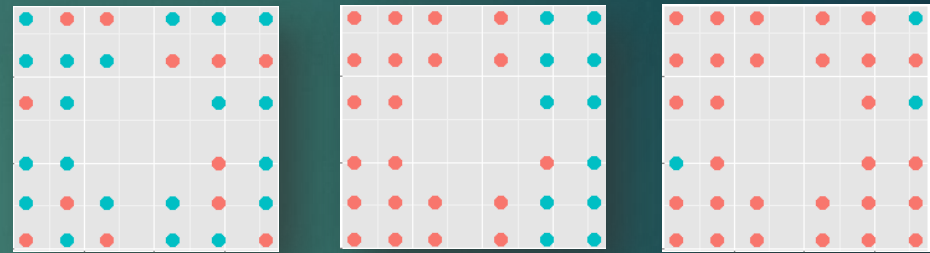
Group Results (revisited)



Post-test Performance



Pre-test Response Patterns



Aligned

Control

Chance

F2

Uniform

If I did this again...

3 things to try:

- Increase spread of F1 – to make it more compelling for categorization
- Change categorization task – possibly a same/different task?
- Target F1

Thanks for listening!