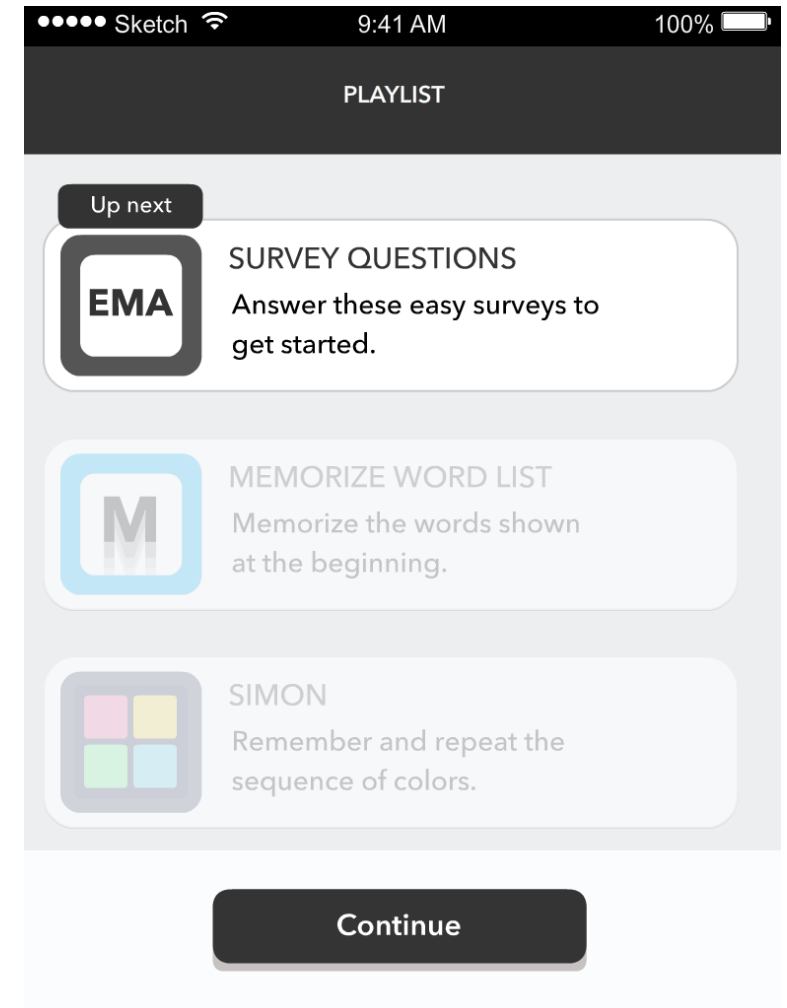




Raeanne C. Moore, Ph.D.
Assistant Professor of Psychiatry
University of California, San Diego (UCSD)

What Mobile Cognitive Testing Is

- Quick, repeatable cognitive tests completed on smartphones in the real-world
- Cognitive performance
- Measures cognitive abilities when someone is:
 - Distracted
 - Interrupted
 - Multitasking
 - Stressed
 - Under the influence
 - Etc.



What Mobile Cognitive Testing Is Not

- Replacement for traditional neuropsychological testing
- Measure of cognitive capacity



Challenges in Mobile Cognitive Testing

- Development Challenges:

- Programming costs
- Tech support over time
- HIPPA
- Confidentiality “in the wild”
- Psychometrics
- Screen sizes, response time latencies
- Response output

- Practical Challenges:

- Secluded vs. distractions
- Glare from sun
- Cheating

- Design Challenges - User:

- Adherence
- Similar to standard NP? Gamified?
- Active vs. passive data collection
- Ecological validity

- Design Challenges - Researcher:

- Burst methodology vs. long-term monitoring
- Standardization in administration
- Norms
- Learning
- Use in clinical trials

Acknowledgements

