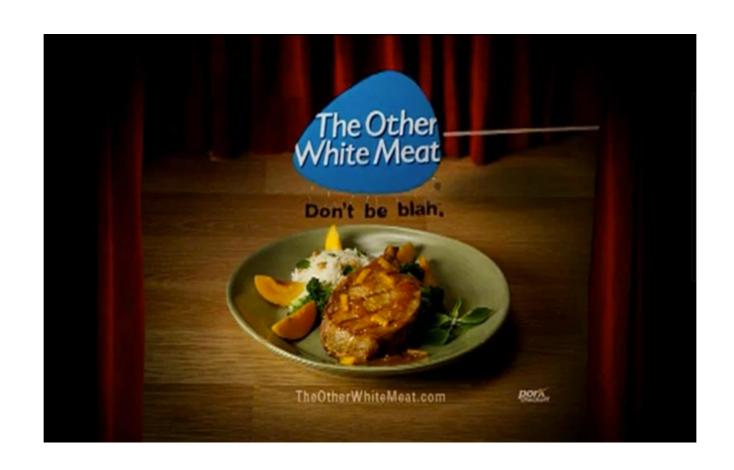
Recap

- False fame illusion
- Cryptomnesia
- Mirror effect
- Reaction time vs. confidence

The Sternberg Paradigm:

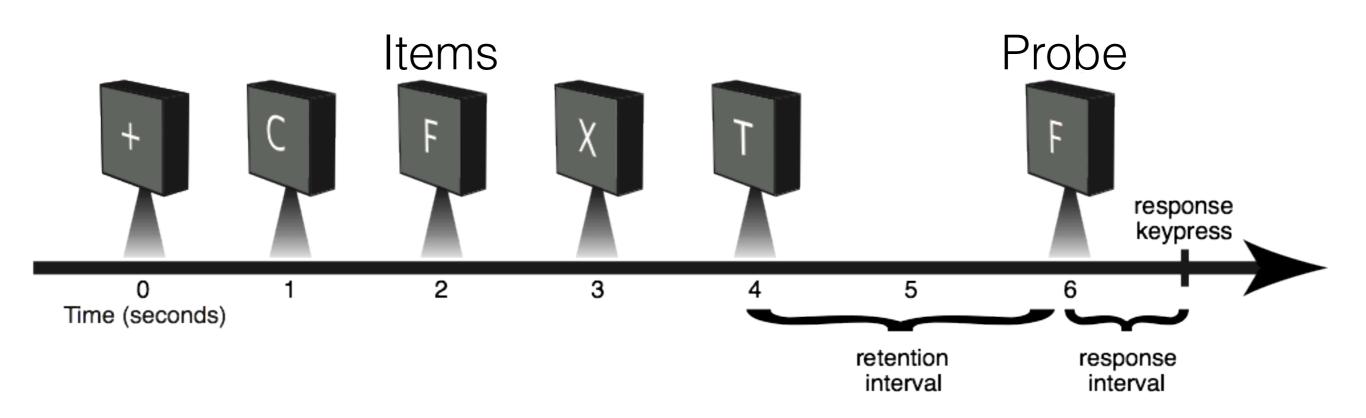
AKA "The 'other' recognition memory experiment"







The Sternberg Paradigm

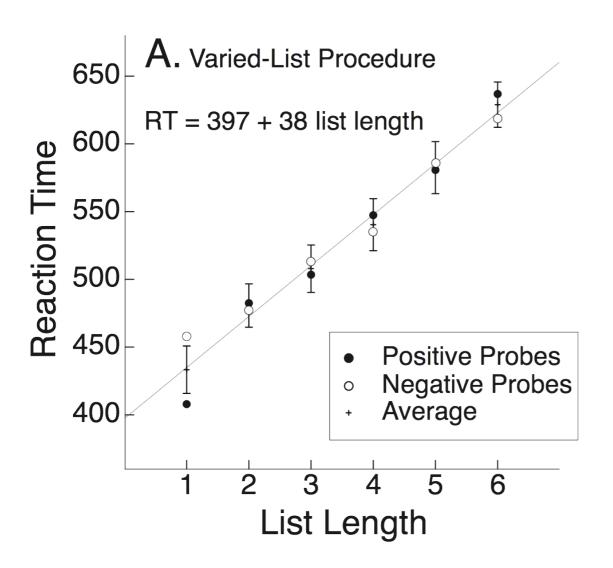


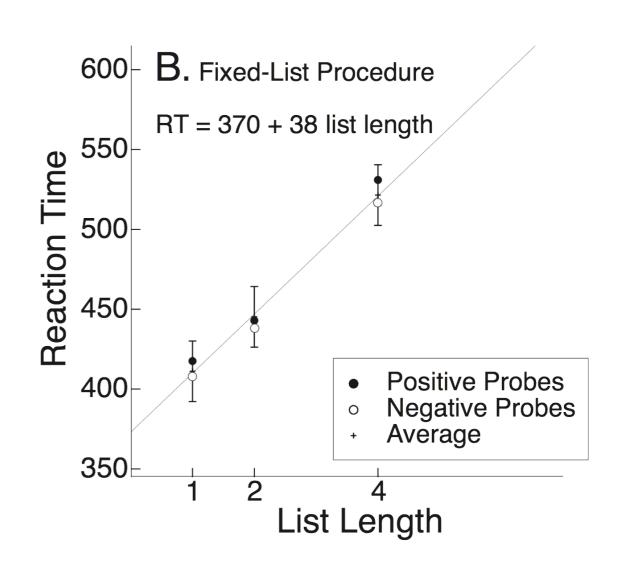
- Varied-list: list length changes on each trial
- •Fixed-list: list length held constant

The Sternberg Paradigm

- With practiced participants, errors are very rare
- We can use the response times to estimate how quickly people's brains the retrieve previously stored information

The Sternberg Paradigm



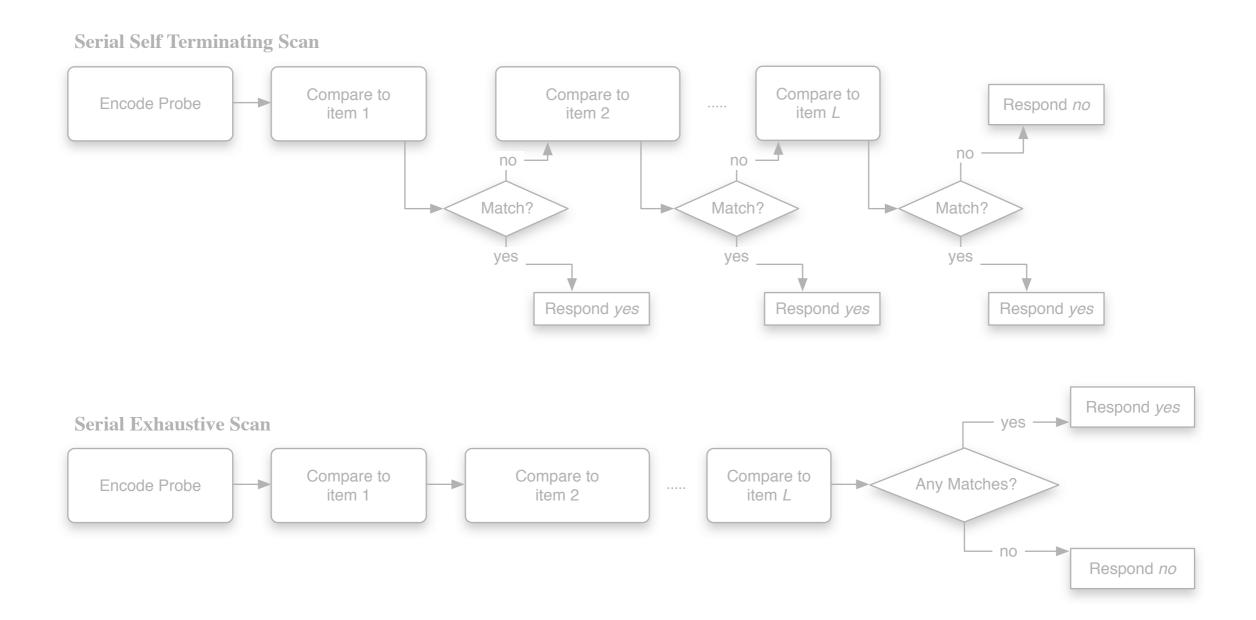


Strength theory does not explain this!

Scanning models

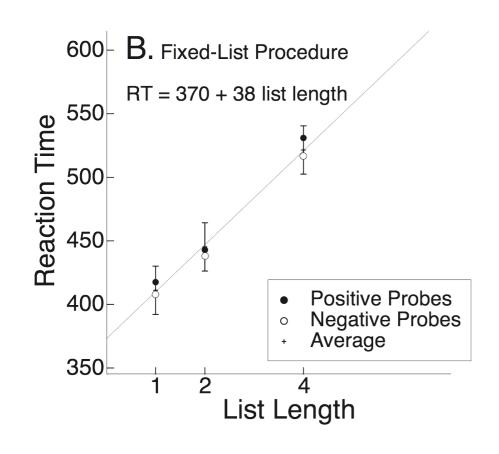
- Since reaction time increases linearly with list length, maybe the probe gets (mentally) compared to each presented item:
 - Serial comparison process: each new comparison happens after the previous one is completed (RT increases with list length)
 - Parallel comparison process: everything gets compared at once

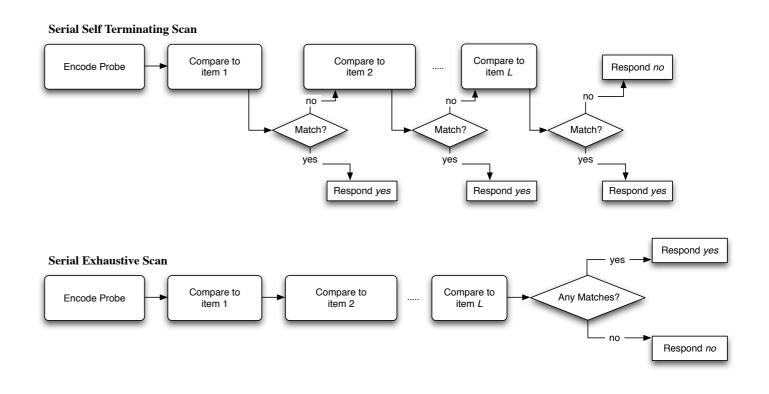
Serial search models



Serial search models

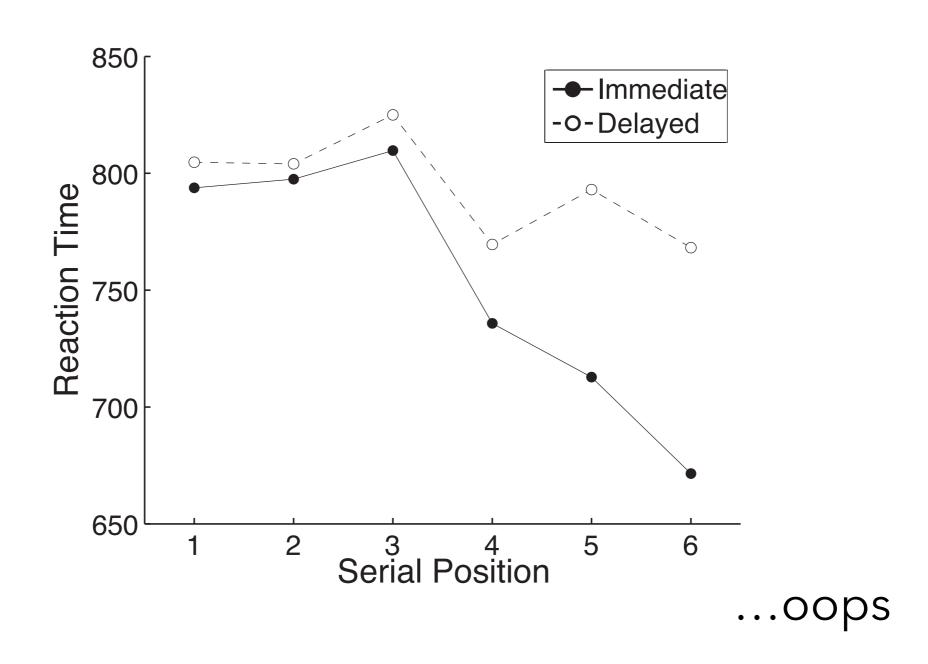
- Self-terminating: no responses take longer
- Exhaustive: both responses have similar RTs





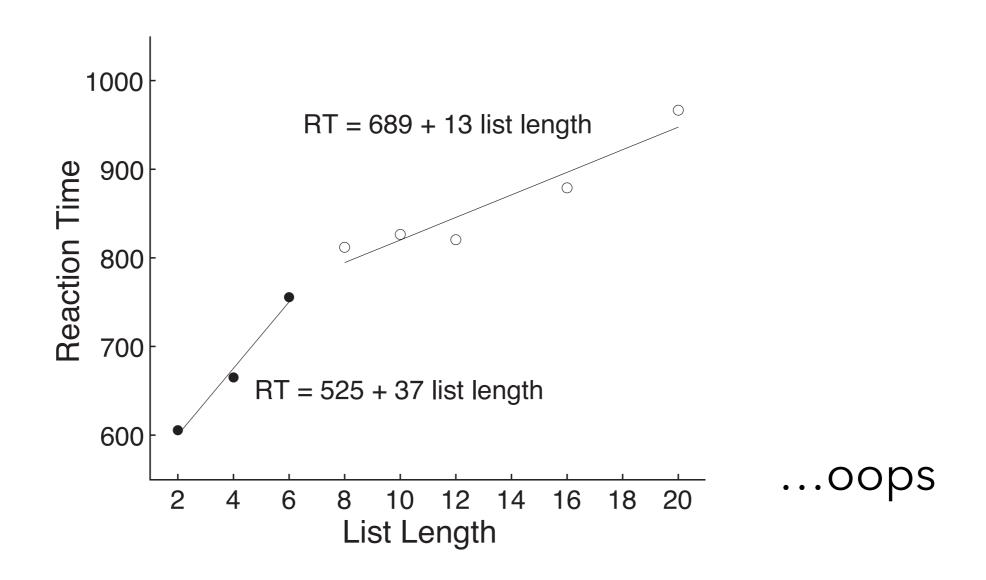
Wait for a response until every comparison is made

 Therefore RTs should not depend on the serial position of the probe...

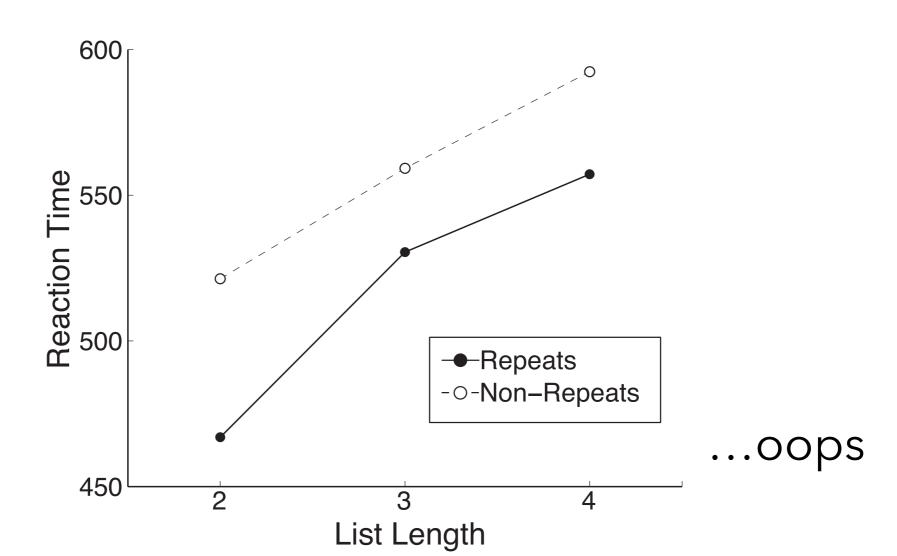


- Another prediction: reaction time should increase linearly with list length
- Test: the prememorized-list technique
 - Participants get lots of practice studying longer lists than Sternberg used
 - Then they are probed with one item (as in the "classic" Sternberg paradigm)

 Another prediction: reaction time should increase linearly with list length



 Another prediction: repetitions should not affect reaction times, since every presentation must be examined in serial



Where does this leave us?

- We've discussed two classes of models:
 - Strength-based models (including some more complicated variants)
 - Scanning models
- None of the models explain everything
- So...???