

SMITH & YU (2008) COGNITION

Early word learning usually focuses on one-shot learning / fast mapping but:

- ① word learning scenes may be much more cluttered than test scenes
- ② children younger than 2 aren't particularly good @ fast mapping but still accumulate lots of lexical knowledge

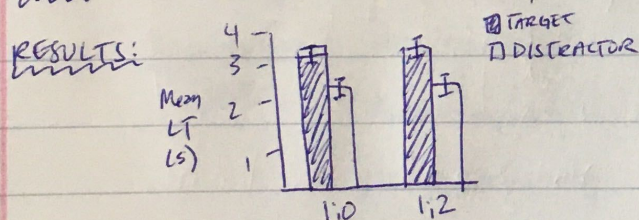
IDEA: word-referent pairings can be acquired w/ accumulated evidence over ambiguous scenes → involves tracking / learning multiple labels at once

PARTICIPANTS: 28 1;0 & 27 1;2 (+ an additional two who didn't finish the task)

STIMULI: 6 novel, colorful shapes + 6 labels (non-word) ⇒ displayed in pairs on a large screen ⇒ 30 pairs shown w/ a label of one object (random order & placement)

PROCEDURE: Sesame Street character image interspersed to hold attention during training. Video of kid's face to see when / where they were looking (hand coded)

TEST: 12 trials: each w/ 1 label repeated 4 times w/ an object pair



- Both age groups looked more @ target

- 1;2 kids showed a bigger effect

- Some correspondences learned better than others

- For both groups, reliable learning of 4/6 words
↳ learning a system of words

DISCUSSION:

- "Making use of complexity" ~ complexity can be helpful (adults learn a set of 18 better than a set of 9)

- Consistent w/ other SL abilities but mechanism is unclear:

① hypotheses updated after each trial

② accumulated associative learning

Ⓚ This is far from true messy, real life scenes — the authors' point ① from the intro still holds — how much evidence is needed? what is the role of attention? Also, younger kids were slightly worse — what are the implications?