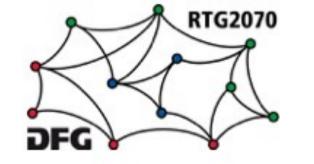
WORD LEARNING UNDER UNCERTAINTY IN YOUNG CHILDREN AND ADULTS







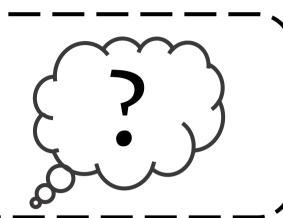




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BACKGROUND

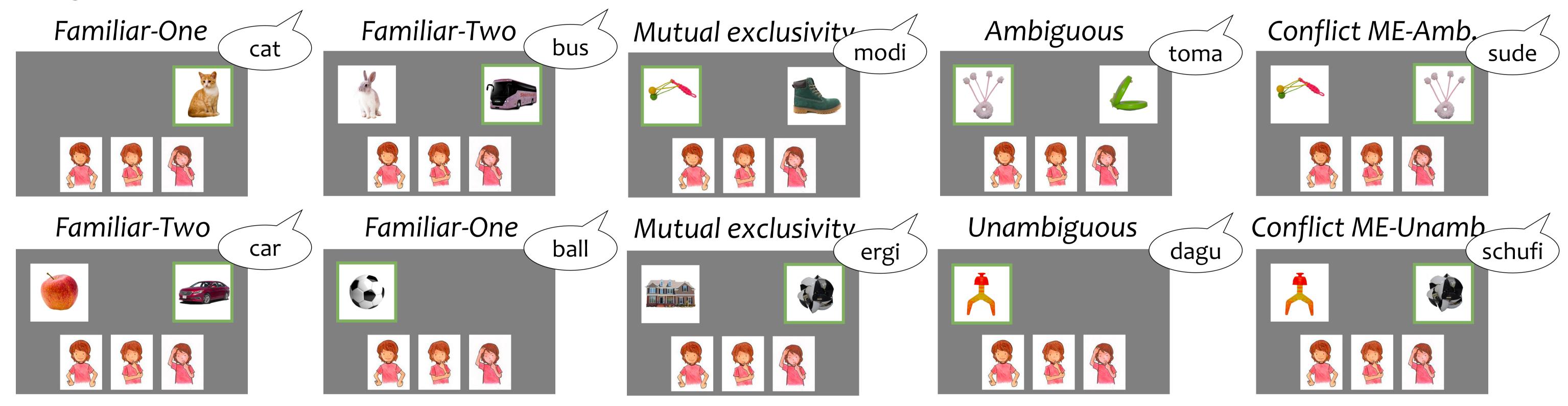
- Major challenge of early word learning: referential ambiguity (multiple possible referents for novel words)
- Despite this ambiguity, children infer the referents of novel words with relative ease: e.g., Mutual Exclusivity (ME) effect (Markman & Wachtel, 1988)
- → How do they resolve this ambiguity & learn words so quickly?
- One way to reduce this referential ambiguity: Preschoolers show systematic social information seeking that is sensitive to the amount of referential ambiguity (Hembacher et al., 2020)
- It remains unclear if children experience uncertainty during referential ambiguity that is explicitly available (as it is other areas, e.g., perceptual identification tasks; Coughlin et al., 2014, Hembacher & Ghetti, 2014), and if word-object-mappings learned in different levels of ambiguity are treated differently & are potentially more prone to updating later on
- I. Are children aware of the different levels of uncertainty involved in referent identification?
- II. Can they use this information to systematically update word-object links?

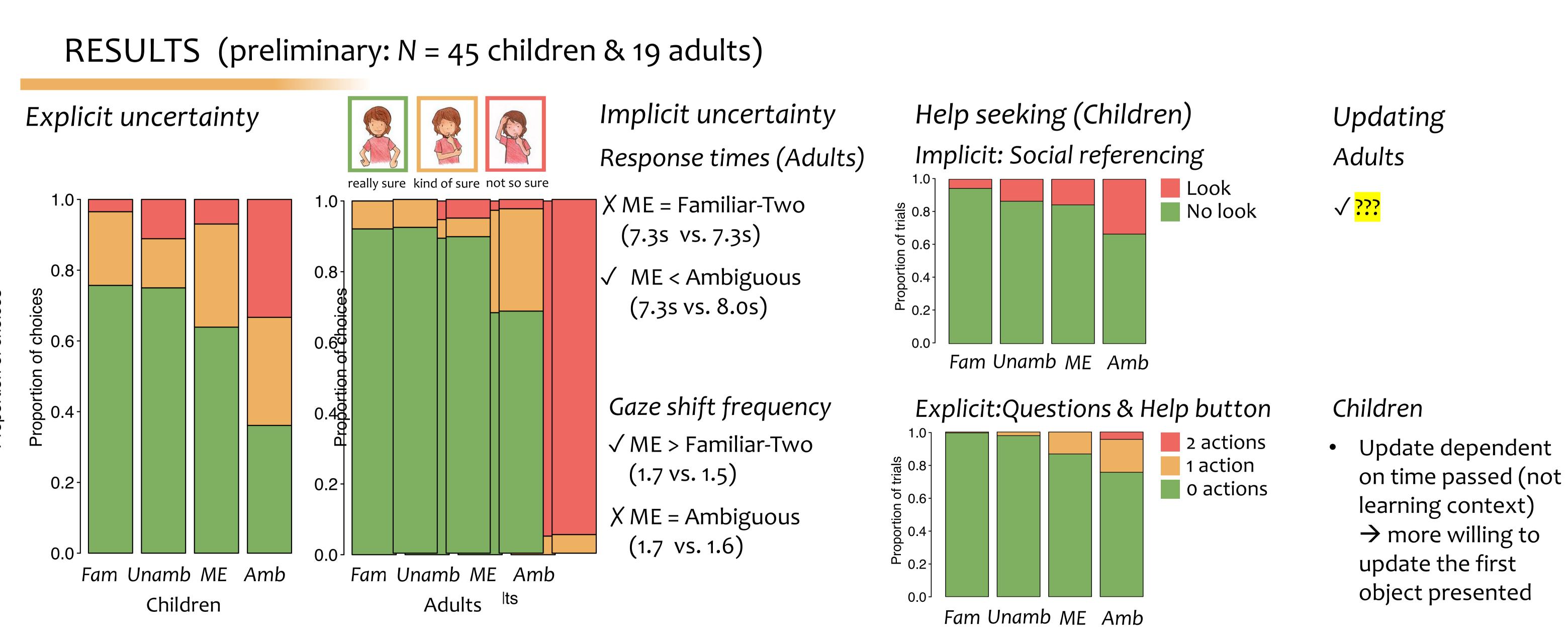


METHOD



Pre-registered study with 4- to 5-year-olds and adults:





DISCUSSION

- 4- and 5-year-olds' and adults' explicit uncertainty systematically increases with the level of ambiguity in the task
- With increasing referential ambiguity, children spontaneously seek more information
- → Children's uncertainty monitoring & active learning may help them to learn words so efficiently
- While adults used the ambiguity of the learning context as a basis for updating word-object-links, children instead rather updated labels for objects that were learned a longer time ago
 - → Open if if children do not consider the learning context as relevant information for label updating or if the task demands afffected their performance