On the role of distribuitivity in the online comprehension of VP-conjunction

NDI

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THEORY

the meaning of **VP-conjunction** distributive interpretation

Champollion, 2015; Winter, 2001

 $\{x : \mathbf{P}(x) \land \mathbf{Q}(x)\}$

non-distr. interpretation $\{x: \exists y, z | y \oplus z = x \land P(y) \land Q(z)\}$

Heycock & Zamparelli, 2005; Krifka, 1990



N-D.I. only found in disjoint predicates (Winter, 2001) or untypical combinations (Poortman, 2014)



Condition 1 Distributive Scen. (non-disjoint pred.)



"The six seals are swimming **and** wearing hats"

Condition 2 Cumulative Scen. (disjoint pred.)



Winter, 2001[2]

exceptional

Q1. How do the **semantic properties** of the predicate and the context contribute to: a) the final interpretation b) the online processing of VP-conjunction?

Q2. Which readings of VPconjunction are **available**? which are preferred? which are easier to process?

Q3. How do children and adults differ in **interpretation** (availability & preference) and **processing** (delays? reanalysis?)



Participants:



"The six seals are swimming **and** surfing"

Condition 3 Cumulative Scen. (non-disjoint pred.)

"The six seals are swimming **and** wearing hats"

METHODS & PARTICIPANTS

48 German speaking adults 48 German speaking 6-to 10year-old children (M=7.8)

Generalized Linear Mixed Models Analysis: on participant choices/fixated quadrant

Semantic Choice Task: picture matching task with eyetracking; two scenarios presented simultaneously: ACCEPT one / REJECT both

DISCUSSION

exceptional (Hyp 3 > Hyp 1 & 2) nor harder to process (see Cond. 2)

- → Q1&Q2: initial interpretation determined by semantic property of **predicate** over visual context (strongest meaning compatible with the predicate: Cond. 1 & 2 vs. Cond. 3)
- \rightarrow Q2: if context does not support an early commitment: revision (Cond. 1 vs. Cond. 3)
- \rightarrow Q3: children struggle with revision more than adults (cf. Cond. 3, see Trueswell et al., 1999)

