

Children's Comprehension of Logical Connectives (#4334)

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1) Have any data been collected for this study already?

No, no data have been collected for this study yet

2) What's the main question being asked or hypothesis being tested in this study?

Four-year-olds' provide naturalistic linguistic feedback that shows sensitivity to the exclusivity implicature of disjunction. Yet this sensitivity is not reflected in their judgements of whether the speaker's utterance was right or not (Truth Value Judgement).

3) Describe the key dependent variable(s) specifying how they will be measured.

Two DVs: 1. Children's naturalistic linguistic reaction to the puppet's guesses divided into three categories: Judgements (The child only said yes/no), Descriptions (the child said what is on the card), and Corrections (the child used the words Just, Only, AND (stressed), or Both to correct the puppet). 2. Children's yes/no response to the question: "was the puppet right?"

4) How many and which conditions will participants be assigned to?

8 trial-types based on the number of animals on the card and the puppet's guess. Participants see two trials per trial type.

5) Specify exactly which analyses you will conduct to examine the main question/hypothesis.

DV 1: A multi-level logistic regression on the number of Corrections.

DV 2: mixed-effects logistic regression on the number of Yes/No responses. We predict that there will be no significant difference between XY-XorY and XY-XandY trials in truth value judgments.

6) Any secondary analyses?

We also look at the sub-levels of Judgements (None, No, Yes) and Corrections (None, Exclusive, Inclusive). We use a multi-level logistic regression to show that in clearly true trials (X-X, XY-XandY) we get the highest number of "Yes"s, in clearly false trials (X-Z, XY-Z) we get the highest number of "No"s, and in other trials children opt for more informative feedback: description and correction. We also check the agreement between children's spontaneous Yes/No judgments and their responses to the TVJT question using Cohen's Kappa.

7) How many observations will be collected or what will determine sample size? No need to justify decision, but be precise about exactly how the number will be determined.

50 based on the previous study with similar design.

8) Anything else you would like to pre-register? (e.g., data exclusions, variables collected for exploratory purposes, unusual analyses planned?)