Morpho-syntactic Cues for Distributivity in Serbian
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Publication date:
2015

Link to publication in University of Groningen/UMCG research database

Citation for published version (APA):

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Background

1. Three clowns are holding two presents.

1a. Collective

1b. Distributive

English and Serbian acceptance rates are significantly different:

Serbian morphological system is more complex than English. Serbian children acquire distributive markers much later (age 8-9).

Serbian has several types of numerals and it shows a subject-verb agreement mismatch in environments with numerically quantified expressions. These factors may account for the disparity in English and Serbian child and adult results.

Serbian (age 5) and clown.

Since there is likely a mismatch (allow both sg and pl) before age 8.

1) Adults understand numerically quantified sentences without distributive markers as scalar/conversational implicatures.

2) Some children had a problem to interpret singular indefinite objects as conceptually plural. This was a motivation to reject distributive pictures in the Paucal experiment, which contrasts current empirical and theoretical data.

Future work:

• Hypothesis: complex morpho-syntactic system of Serbian is loading children's working memory, and it is affecting the processing of such ambiguous sentences.

• Proposed test: unloading the working memory will change children's choices and make them more adultlike.

• Following Van Rijn et al. (2009) – slowed-down speech rate

Serbian (age 5)

Methods

Two Truth Value Judgment Task

2x2 study, 24 items & 24 control items x 4 lists, balanced design

Paucal experiment:

38 Serbian non-linguist adults (MA: 26.9) and 25 native Serbian children (MA: 7.6)

• The factors tested were the influence of Number(singular and plural verbal agreement) and Collective/Distributive Interpretations.

Paucal experiment:

Mixed-gender experiment:

32 Serbian non-linguist adults (MA: 25.1) and 24 native Serbian children (MA: 7.7)

• General observations from the models are that adults are significantly less likely to choose distributive pictures matched with either singular (sg) or plural (pl) verb than children, and less likely to choose singular verbal agreement.

• Neither experiment showed significant correlations between verbal agreement and collective/distributive interpretations.

Research question

How, and to what degree, do subject-verb agreement mismatches influence Serbian interpretation preferences of numerically quantified sentences?

Results

Paucal experiment:

YES responses

Mixed-gender experiment:

Mixed-gender adults (MA: 25.1) and 24 native Serbian children (MA: 7.7)

4.64

4.38

4.64

4.38

Results

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