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Publication date
2022

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Citation for published version (APA):

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Learnability Effects in Children: Are Languages with more systematic structure Easier to Learn?
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Background
Languages with more regular and compositional grammars are easier to learn. However, the causal relationship between the degree of systematicity and language learning have been tested insufficiently [1], let alone in child participants.

This study will answer the following research questions:
1. Do children and adults benefit from systematic structure in a similar fashion? Conceptual replication of [1]
2. Is there any correlation between learning behavior and cognitive abilities such as working memory and selective attention?

Methods: A preregistered study
Artificial language learning: 3 fantasy languages that vary in degree of systematicity (12 scene-label pairings). Guessing and production tasks assessing both memorization and generalization.

Low structure
- keuw (30°)
- pofs (45°)
- Kuim (0°)
- Goom (315°)

Medium structure
- kome (60°)
- woesiko (45°)
- woesiok (0°)
- kemet (315°)

High structure
- guaso (45°)
- wasoi (30°)
- festi (0°)
- festui (315°)

Cognitive abilities: Digit span working memory [2]; Map Search Selective attention [3,4]

Participants: 105 children (8-10 years; 35 per language); 105 adults (35 per language)

Previous Findings
Adults benefit from linguistic structure in a nonlinear way [1]

Expected Findings
1. Regularity will benefit both children and adults
2. Children may benefit even more compared to adults, since they’ve been found more biased and prone to regularities and generalizations
3. Participants with better WM and selective attention will better perform overall regardless of the level of regularity
4. Participants will generalize better for the more regularized languages

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