

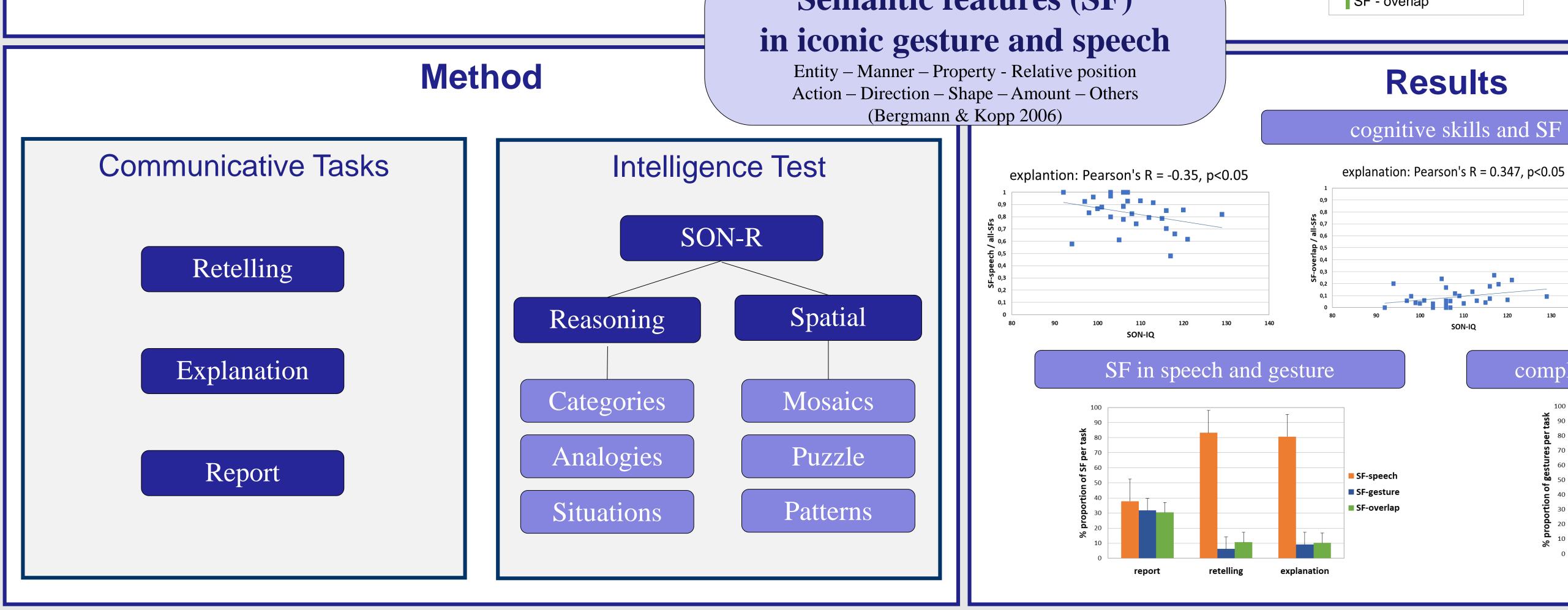
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Introduction

Spoken language and co-speech iconic gestures underlie the same cognitive Preschool children (n = 40) from Germany at the age of 4 participated in our study. During representations [1] and are systematically organized in relation to one another, but do not the first session children completed three different communicative tasks. At the second necessarily expressing identical aspects [2]. Thus, both modalities together convey the full session they completed the non-verbal Intelligence Test SON-R 2.5 - 7. meaning of the speaker's cognitive representations [1]. Holler and Beattie [3] argue, Coding however, that speech and gesture are more flexibly integrated, depending on the communicative intention of the speaker and they hypothesize that semantic features (SF) in gesture and speech vary according to communicative demands.

Here, we pose the following questions:

- How are semantic features distributed in children's speech and gesture?
- How does the distribution vary with different communicational demands?
- How are children's cognitive skills related to the use of semantic features in speech and gesture?



References

[1] McNeill, David (1992). Hand and Mind: What Gestures reveal about thought. University of Chicago Press. [2] McNeill, Ed. Cambridge, UK: Cambridge University Press, 2000, pp. 141–161 [3] Holler, Judith & Beattie, Geoffrey. (2003). How iconic gestures and speech interact in the representation of meaning: Are both aspects really integral to the process? Semiotica 146. 81-116; [4] Bergmann, Kirsten & Kopp, Stefan. (2006). Verbal or visual? How information is distributed across speech and gesture in spatial dialog.

Semantic coordination of speech and gesture in young children

CogSci'19, Montreal

Procedure



	00:16:38.000	00:16:38.500
/erbal_C 39)		aber d
Child.Sequence		
- Child.SF.Gesture	Action Direction Er	ntity,Manne) Shape
- Child.semantic.relation	complements	
Child.phrase	1	
۱۹ - Child.SF.Speech (۱۹)		Action
[is]		
_		
SF	- speec	h
SF	- gestur	e
	•	
	- overla	n
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Semantic features (SF)

