Limitations on concept formation in personal pronouns
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## Questions \& Hypotheses

What is the inclusive?

Why is only the combination of speaker and
hearer lexicalised (INCL) and the other
combinations of the atoms unlexicalised?
combinations of the atoms unlexicalised?

Predicted by the Concept Formation Constraint:
The kite

## Analysis

The inclusive
Morphology:

- $80 \%$ of the languages: morphologically independent inclusive,
i.e. not related to first i.e. not related to first or second person (3) (Daniel 2005). Otherwise: mostly related to $1^{\text {st }}$ (and sometimes also to $2^{\text {nd }}$ ) person (4).
(3) Tümpisa Shoshone


Consider a Hasse diagram (Smessaert 2009, Jaspers 2012): - with atoms represented by bitstrings (5)
for $1^{\text {st, }} 2^{\text {nd }}$ and $3^{\text {rd }}$ person ( 6 ):


TOP (6)


The inclusive (Leve
and HR (Level 1):
(7) Tümpisa Shoshone


Unlexicalised combinations:
SP + NON-PART
HR + NON-PART
$\rightarrow$ Predicted by the concept formation constraint in the kite解ework (Jaspers 2012, Seuren \& Jaspers 2014)

The Kite Framework \& concept formation constraint The kite framework deals with (mereo)logical relations between concepts, represented in the geometrical figures (shown below):
Entailment and proper parthood (arrows)
Contradiction (full lines)
(Sub)contrariety (dotted and dashed lines)
The concept formation constraint posits that:
This results in a kite structure (9).

(9)


This has been demonstrated for a.o. the natural logic quantifiers predicate calculus operators and colour terms (Seuren \& Jasper 2014, Jaspers 2012).

The same applies to person, corresponding exactly to the
observations in the Hasse diagram:



Extension: Number
Confusing termino


Person and number:
Belonging to two distinct categories
I therefore employ the following terminology:


This distinction is confirmed by:
Semantics: person is deictic vs. plural is never defined as such . . Bejar Corbett 2004).
Morph
and 3
$3^{\text {rd }}$
For number, I propose the following extension (Sonnaert 2016)
(14)
001.10 -

NON-PART.SG
NOL


Bitstrings: to calculate further relations, such as the proper parthood relations between the singular and plural versions of parthood relations
the same person.
PART: Languages have no simplex lexicalisations for an extra number distinction in inclusive, which is why the PART corner

Jaspers, D. (2012). Logic and Colour. In: Logica
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Seuren, P. \& D. Jaspers (2014). Logico-Cognitive Smessaert, H. He Lexicon. In Language, 90, 3, 607-643. Smessaert, H. (2009). On the 3D Visualisation of Logical Sonnaert, J. Logica Universalis, 3, 303-332. Sonnaert, J. (2016). Limitations on Concept Formation of
Person Presentation at LSB Linguist's day Person. Presentation at LSB Linguists' day. UCL Louvain
La Neuve.

## Conclusion

A kite analysis of person sheds light on person distinctions in personal pronouns.

Captures the complexity of the inclusive person.
The system can be extended to add number in order account for the basic personal pronoun distinctions.

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