Syntactic Structure of the Nominal Complex in Russian Sign Language

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Theoretical Background

"When any or all of the items (demonstrative, numeral, and descriptive adjective) precede the noun, they are always found in that order. If they follow, the order is either the same or its exact opposite" [Greenberg 1963]

Dem Num A N | N Dem Num A | N A Num Dem

Later several "impossible" word orders were attested. Cinque (2005) proposed a new definition of the Universal 20: all attested orders (namely, 14 out of 24 logically possible orders) can be derived from the order (Dem > Num > Adj > N).

Scott (2002) 's adjectives hierarchy:

<u>Subjective Evaluation</u> > <u>Size</u> > Length > Height > Speed > Depth > Width > Weight > Temperature > Wetness > Age > Shape > <u>Color</u> > Nationality/Origin > <u>Material</u> > Typing Attribute

Aims

- which orders are acceptable and which are not
- explain variability
- underlying word order

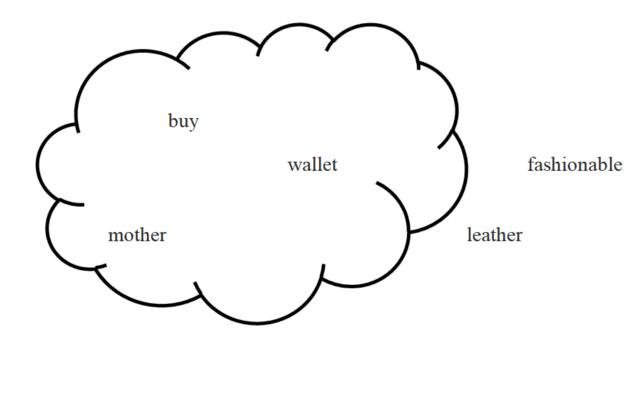
Methodology

There were 2 elicitation tasks. Informants were working in pairs to reduce loan translations from spoken language.

Number of informants (pairwise):

- 12 in the acceptability judgments task
- 8 in the 'clouds' task





Насколько правильное предложение? (7)

Is this sentence correct?						
totally ungrammatical!	1	2	3	4	5	Absolutely correct!
Совсем неправильно!	0	0	0	0	0	Абсолютно правильно!

Ac Am N > Am Ac N, N Ac Am, Ac N AmAe Ac N > Ae N Ac Num Ac N > Ac Num N As Ac N > Ac As NAe Am N > Am Ae N, N Am Ae, Am N Ae, Ae N Am, N Ae Am As Am N > N Am As, Am As N, N As Am, N.As Am, Am N As Ae Num N > Num N Ae

Table 1. General tendency for the preposition.

pre post

Table 2. Dependency on the number of modifiers by noun.

(Int mod

There is no correlation with the modifier type according to another generalized linear mixed model (with the modifier type as a predictor).

There is a slight dependency of position on age of the informants.



'Clouds' Task Results

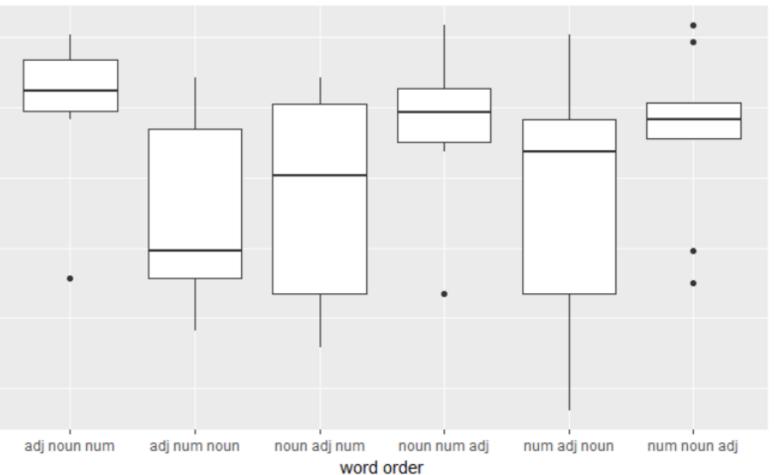
(As) Ae (As) Num (As) Ac Am N

eposition	0.68	
stposition	0.21	
_ N _	0.08	
N _ N	0.03	ſ
		•

	Estimate	Std. Error	z value	Pr(> z)
ntercept)	0.8136	0.1869	4.353	1.34e-05 ***
difiers+1 -many	0.7887	0.2102	3.751	0.000176 ***

Acceptability Judgments Task Results

Position of numeral and adjective



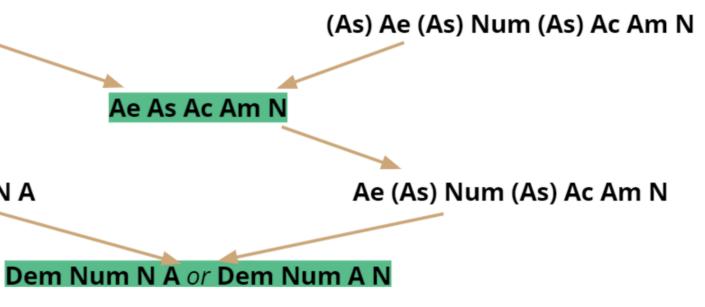
Acceptability Judgments Task Results

A N Dem (w)	<mark>N Ae As (w)</mark>	Num Dem N (w)	<mark>Num N A (w)</mark>
* N Dem A	* As N Ae	* Dem N Num	* A N Num
<mark>Dem N A</mark>	N As Ae	<mark>Dem Num N</mark>	* Num A N
A Dem N			* N A Num
	-		* A Num N
			N Num A

Comparison of the Results



Dem Num N A



Conclusions

- Variability
 - is
- Underlying order

Future Perspective

- influence of lexical items
- quantifiers, ordinal numerals ...)
- explore tendency to parceling

Selected References

- Vol. 36, No. 3, 315-332.



Num Dem N A \rightarrow **Dem Num N A**

• We obtained lists of acceptable orders and some unacceptable orders for combinations of pairs of modifiers

> partially explained by a number of modifiers accompanying noun

• Position with respect to noun does not depend on type of the modifier

relative ordering of adjectives: Ae As Ac Am N

underlying order: Dem Num N A or Dem Num A N

dependency on sociolinguistic factors

• extend with other possible NP constituents (possessives,

. Cinque, G. (2005). Deriving Greenberg's Universal 20 and Its Exceptions. Linguistic Inquiry,

2. Greenberg, J. (1963). Some Universals of Grammar with Particular Reference to the Order of Meaningful Elements. In Greenberg, Joseph H. (ed.), Universals of Human Language, 73–113.