

Nonmanual components with PALM-UP in Russian Sign Language.

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What is PALM-UP? Where did we start?

A basic form is the rotation of one or both open hands towards an upward palm orientation.

- Palm-up gesture is “one of the most frequently used” (Müller 2004: 234) and reported for various cultures (Cooperrider, Abner & Goldin-Meadow 2018; Kendon 2004).
- PALM-UP (PU) sign is of gestural origin (Loon, Pfau & Steinbach 2014) & is highly frequent in discourse (McKee & Wallinford 2011).
- Major functions as identified for ASL, DSL, NGT & NZSL:

1. **Conversation/discourse regulation** (turn taking, turn opening, turn ending, question particle, backchannel, pause filling)
2. **Connection/coherence** (comment, conjunction, temporal sequence, causal relationship, contrast, focus)
3. **Modal meaning** (uncertainty, obviousness, possibility)
4. Manual frame for unpredictable mouthings (NZSL, McKee & Wallingford 2011)

- PU sign has no semantic/pragmatic impact other than signaling a boundary; only the accompanying non-manual signals carry the meaning (Kooij, Crasborn & Ros 2006)

Research question & methods

Annotated data	
Total signs	37658
Tokens of PU	1719
Data videos	132
Signers	37
female	23
male	14

224 PU tokens & the accompanying nonmanual signals were:

- transcribed by a native RSL signer;
- annotated and searched in ELAN software;
- analyzed in terms of discourse functions.

Research question: Do the accompanying nonmanual components indicate the function of PALM-UP?

Russian Sign Language (RSL) Corpus

The online corpus of RSL (<http://rsl.nstu.ru>, Burkova 2012-2015) was made during the project “Corpus-Based Research on Morphosyntax and Vocabulary of the Russian Sign Language” funded by Russian Foundation for Basic Research.

- over 180 texts filmed from 59 RSL signers – men and women (18 to 63 years) with varying degrees of deafness: deaf, hard-of-hearing and CODA.
- Novosibirsk & Moscow.
- spontaneous speech (narratives and dialogues), texts on the basis of stimulus materials (cartoons retelling, picture based storytelling) & some elicitation data.

Which nonmanual signals accompany PU in RSL?



head movements



mouth gesture



body movements



shoulder shrug

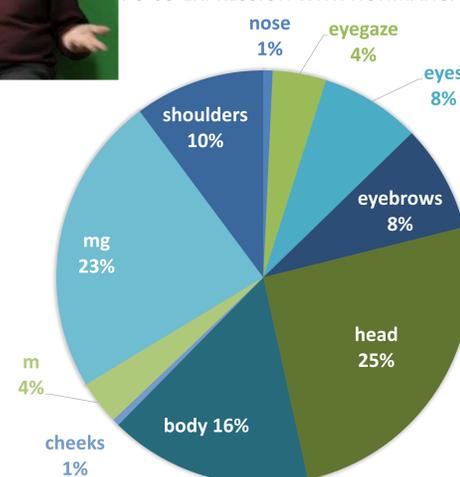


eyes



eyebrows

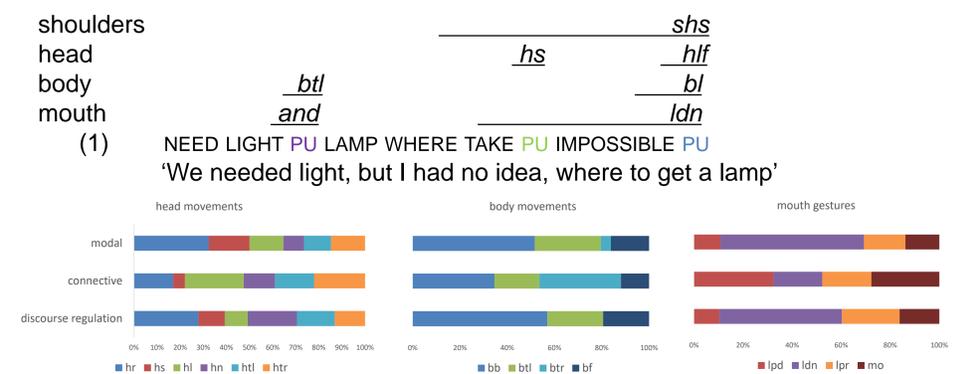
PU CO-EXPRESSION WITH NONMANUALS



Results

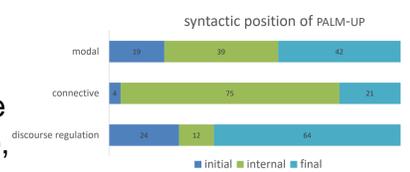
Three main functions were identified in the RSL data (as in (1)):

- discourse regulation (49%)
- modal meaning (28%)
- connection (23%)



hr (head turn to the right); hs (head shake); hl (head turn to the left); hn (head nod); htl (left head tilt); htr (right head tilt); bb (body lean backwards); btl (body shift to the left); btr (body shift to the right); bbf (body lean forwards); lpd (lips pushed forward); ldn (corners of the mouth lowered down); lpr (lips pressed together); mo (mouth open)

- PALM-UP is a multifunctional discourse marker in RSL
- Nonmanual components accompanying PU are not indicative of its functions (complex behaviour of similar nonmanual signals)
- Functions appear to be predictable in terms of syntactic role
- Frame for mouthing is not regarded a function here (only 4% of PU were accompanied by mouthing (e.g. AND, HERE, ALL, OK, IF, HOW etc.))



References

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