The eye/ear of the needle – Cross-linguistic differences in body part extensions

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Polysemy

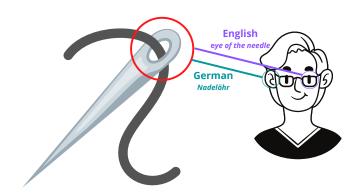


Polysemy across languages





Polysemy across languages



An English-centric perspective

- "idiosyncratic metaphorical expressions such as leg of the table and foot of the mountain are not used systematically in our language or thought" (Lakoff and Johnson, 1980, 54)
- "Since metaphor is based on the perception of similarities, [...]
 when an analogy is obvious, it should give rise to the same
 metaphor in various languages; hence the wide currency of
 expressions like the 'foot of a hill' or the 'leg of a table."'

(Ullmann 1963)

Hypothesis

Polysemy is based on a perceived similarity between concepts. Languages can choose to highlight different dimensions of similarity.

A cross-linguistic study of object and landscape terms

Aim and scope (Tjuka 2019):

- systematic typological study to investigate body part extensions
- elicitation with pictures for 92 body part extensions
- 13 speakers of different languages: Czech, Marathi, Persian, Greek, Vietnamese, Wolof, Mandarin Chinese, Khoekhoe, Hungarian, Japanese, Hebrew, Turkish, and Indonesian

A cross-linguistic study of object and landscape terms

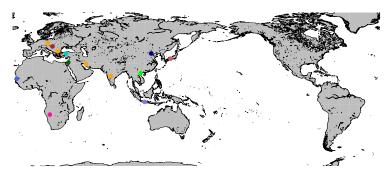


Figure 1: Overview of language families included in Tjuka (2019).

A cross-linguistic study of object and landscape terms

Result:

- the expressions leg of the chair/table/bed occur in the entire language sample
- body part extensions are based on perceptual similarities (shape, spatial alignment, function)
- languages can differ in terms of which body part the choose for a certain object feature (e.g., head, nose, and mouth were used for tip of an arrow)

- more data is needed to find patterns of language variation
- the CLICS database offers colexifications of 2,906 concepts across 2,940 languages
- colexification refers to the same lexeme having different meanings (polysemy and homonymy) (François 2008)



Figure 2: Language varieties in the CLICS database (Rzymski et al. 2020).

Research questions:

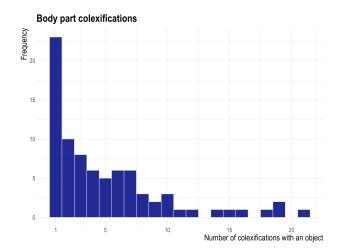
- 1. How many colexifications of body parts and objects are listed in CLICS?
- 2. What variation can be found in different languages concerning which body part is chosen for the same object?

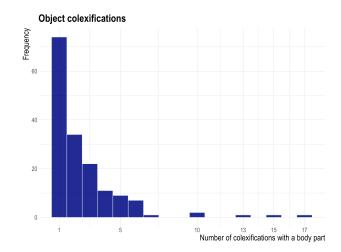
Data:

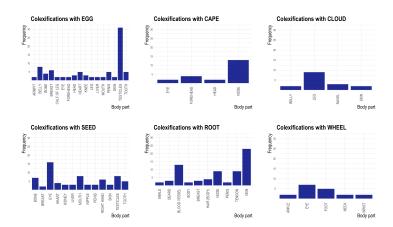
- 81 body part concepts and 163 object concepts
- the object concepts are comprised of items from different categories, i.e., tool, food, landscape, plants, and furniture.

Results:

 411 colexifications between human body part concepts and objects in CLICS







Colexification networks

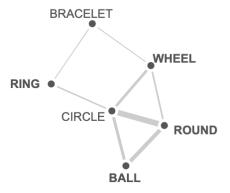


Figure 3: Infomap of the colexification network of the concept CIRCLE.

Implications

- diverse languages seem to have different colexifications networks (e.g., for emotion concepts see Jackson et al. 2019)
- languages might have preferences to highlight a certain dimension of perceptual similarity in body part extensions

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