Processing suffix combinations in Slovene

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In morphological theory, it is assumed that all derivations start from a lexical base (be it a root or a stem) to which then affixes are attached step by step, i.e. for suffixation: 

\[ \text{BASE} \rightarrow \text{BASE+SUFF1} \rightarrow \text{BASE+SUFF1+SUFF2}, \text{etc.} \]

All theories, irrespective of the type of morphemes they recognize (classical morphemes relate meaning and form, e.g. as in Minimalist Morphology; abstract morphemes correspond to terminal nodes in a syntactic tree, e.g. as in Distributed Morphology; morphemes have also been seen as markings that are semantically empty, e.g. as in Paradigm Function Morphology), agree that affixes without bases do not play any role in morphology. However, recent psycholinguistic studies (Beyersmann et al. 2016, Crepaldi et al. 2016, Lázaro et al. 2016, Manova & Brzoza 2015) provide evidence that affixes have a life of their own and can be accessed and processed without reference to lexical bases or any other semantic cues. The results of the present study speak for this view.

The psycholinguistic experiment the results of which we will report in this talk was an adapted-to-Slovene replication of Manova and Brzoza (ms) that is on the processing of the Polish suffix combinations. The Slovene experiment consisted of the identification of 60 suffix combinations (30 existing and 30 non-existing), all without bases. We controlled for two variables: 1) existing versus non-existing combinations; and within the existing combinations, for 2) productive versus unproductive combinations. Productivity was determined based on type-frequency. The frequencies were counted in the SSKJ (Slovar slovenskega knjižnega jezika). 32 native speakers of Slovene (age M = 37.06, SD = 14.72) participated in the experiment. The accuracy of recognition of the existing and non-existing combinations was very high (89.17 % for the existing and 85.67 % for the non-existing combinations, see Figure 1) but the difference between the two types of combinations was not statistically significant, \( t(29) = -.99; p = .33 \). We interpret this result as convincing evidence that native speakers know which suffix combinations exist and which do not, i.e. suffix combinations should be listed in the mental lexicon as such. With respect to productivity, the participants were better at recognizing productive combinations (see Figure 2) and there was a statistically significant difference in the accuracy of recognition of the productive and unproductive combinations, \( t(29) = 8.16; p < .01 \), which we see as evidence that productive and unproductive suffix combinations should be processed (and learned) differently. The talk
will present the selection of the data as well as the experiment and its results in detail and will discuss the relevance of the results to both, linguistic theory and methodologies for foreign language learning.

2.830 characters

Figure 1: Accuracy of recognition of the existing and non-existing suffix combinations

Figure 2: Accuracy of recognition of the productive and unproductive suffix combinations

References

