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Title: Computational Explorations in Morphological Derivation

Abstract: (Morphological) derivation is a process of word formation which combines a content base with a functional affix (*un-do*, *bake+er*). Derivation is a challenge because it is highly productive in many languages but its associated meaning transformations are only semi-regular (compare *bake* > *baker*, *cook* > *cooker*, *boil* > *boiler*) and thus represents a considerable challenge for (computational) linguistics. I will present a series of computational studies we have conducted on German derivation, including (a) the construction of a large-coverage derivation lexicon, (b) the use of this lexicon to analyse morphological priming effects, (c) an analysis of the linguistic factors that influence the regularity of derivation, as operationalized in compositional distributional models.