

# Morphological effects on pronunciation in German

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The morphological complexity of a word is thought to affect the time taken to prepare a verbal response. However, whether it also affects its pronunciation is currently under debate. In the present study, we investigated this issue in German using a reading aloud task. Sixty skilled adult readers read aloud 80 nonwords, comprising 40 morphologically-complex nonwords (e.g., HUNDUNG, where “Hund” is a stem, meaning “dog”, and “ung” is a suffix) and 40 paired non-morphological nonwords (e.g., HUNDAT, where “Hund” is a stem but “at” is not a suffix). The acoustic durations of the stems in the two experimental conditions were measured and statistically compared. Stems of morphologically-complex nonwords were realized acoustically with shorter durations than the same stems of their non-morphological counterpart nonwords. Our results suggest that a word’s morphological structure likely influences its pronunciation, thus posing a challenge to traditional theories of speech production, which postulate that phonetic processing does not have access to morphological information.

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