**SUPPLEMENTARY MATERIAL 2**

Syntactic structure influences speech-gesture synchronization

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## Method

*Coding*

We annotated utterances and gestures using the ELAN 2017 (Version 5.1). The timing and duration of each gesture were noted. As a coding scheme, we used the modified version of Kita, Gijn, and Hulst’s (2014) gesture coding. In this scheme, a gesture consists of a preparatory movement, followed by a stroke, and a finishing movement thereafter. We recorded the time of the onset and end of each gesture stroke to determine whether gestures are produced simultaneously with a particular word among the four words produced. There were a total of 10 possible patterns of duration of gesture production. These are as follows: *synchronization with the first word only, the first word and the second word, the first through the third word, the first through the fourth word, the second word only, the second word and the third word, the second through the fourth word, the third word only, the third through the fourth word, and the fourth word only.* A second coder coded around 25% of the gestures based on the co-occurrence with a word or a phrase. The two coders had a 94% agreement (Cohen’s kappa = 0.83, see Cohen, 1960). This means that the coding was appropriately executed and reliable.

**References**

Cohen, J. (1960). A coefficient of agreement for nominal scales. Educational and Psychological Measurement, 20, 37-46. <https://doi.org/10.1177/001316446002000104>

Kita, S., van Gijn, I., & van der Hulst, H. (2014). The non-linguistic status of the symmetry condition in signed languages: evidence from a comparison of signs and speech-accompanying representational gestures. Sign Language & Linguistics, 17, 215-238. https://doi.org/[10.1075/sll.17.2.04kit](http://dx.doi.org/10.1075/sll.17.2.04kit)