

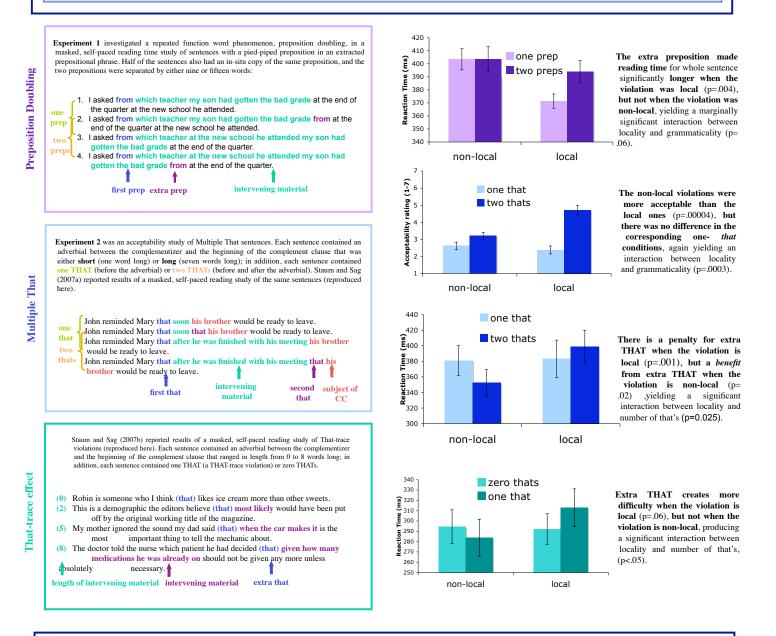
Antilocality in Ungrammaticality: Nonlocal grammaticality violations are easier to process Laura Staum Casasanto and Ivan A. Sag (Stanford University)



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Are non-local violations more acceptable than local ones? If so, are they also easier to process than local ones?

Grammaticality violations can be more or less local depending on the distance between the elements that produce the violation. For example, the locality of violations that stem from repeated function words depends on the number of words intervening between the two instantiations of the function word. Grammaticality violations are known to incur processing costs; however, the relationships between grammaticality, acceptability and processing difficulty are far from straightforward. Local and non-local violations are equivalent according to most competence theories of grammar. However, if acceptability judgments are a combination of competence and performance factors, non-local grammaticality violations might be less noticeable and thus incur lesser penalties than local ones. If they do, then non-local violations should be easier to process.



Grammaticality violations make structures harder to process, and when the violation is more local, it may be more noticeable, producing more difficulty. This is supported by both the interaction in the acceptability judgments for Multiple *That* sentences and the interaction in the reading times for all three phenomena (Preposition Doubling, Multiple *That* and *That*-Trace sentences). Locality influences both the acceptability and the processing difficulty of grammaticality violations. The existence of antilocality effects for grammaticality violations suggests that **the process of responding to a violation is a combination of competence and performance factors.**