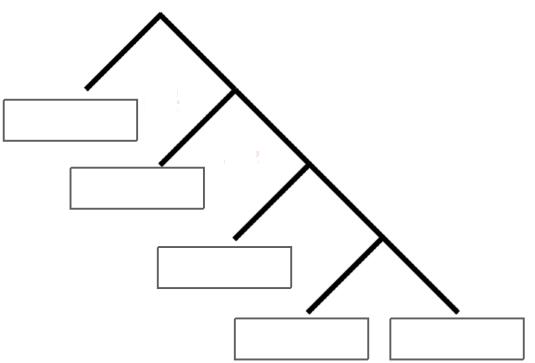


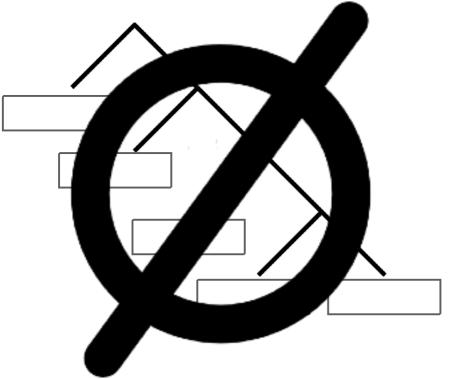
#### Frank & Christiansen, 2012 Gold et al., 2018



Brennan & Hale, 2019 Nelson et al., 2017 Ding et al. 2016

### THE NATURE OF THE INTERACTION BETWEEN SYNTACTIC AND SEMANTIC PROCESSES IS HIGHLY CONTROVERSIAL IN PSYCH-NEUROLINGUISTICS

#### THE INVOLVEMENT OF HIERARCHICAL STRUCTURES













processing is fundamentally sequential in nature, rather than hierarchical.

## (b) Evidence from psycholinguistics

A growing body of behavioural evidence also underlines the importance of sequential structure to language comprehension and production. If a sentence's sequential structure is more important than its hierarchical structure, the linear distance between words in a sentence should matter more than their relationship within the hierarchy. Indeed, in a speech-production study, it was recently shown that the rate of subject-verb numberagreement errors, as in (3), depends on linear rather than hierarchical distance between words [37,38].

(3) \*The coat with the ripped cuffs by the orange balls were ...

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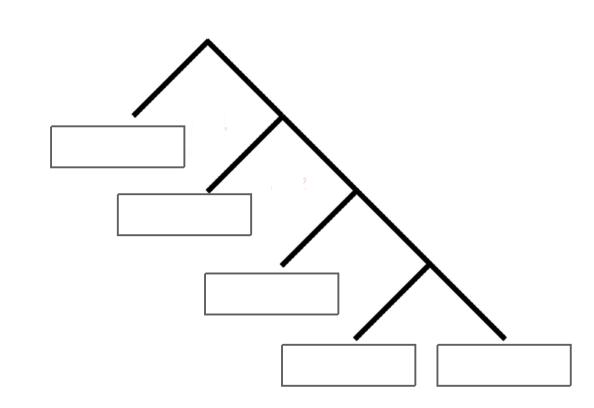
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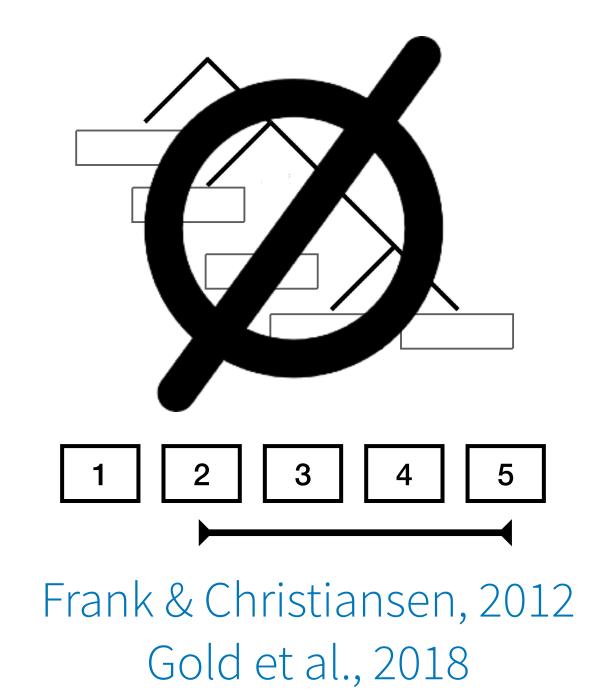


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→THE INFLUENCE OF SYNTAX ON SEMANTIC PROCESSING

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