A Minimalist Theory of Human Sentence Processing

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I. Introduction

Research in the theory of human sentence processing can be characterized by 3 styles of explanation. Researchers taking the first track have tried to motivate principles of structural preference from extralinguistic considerations like storage capacity in working memory, or bounds on complexity of incremental analysis. Frazier and Rayner's (1982) Minimal Attachment and Right Association principles, and Gorrell's simplicity metric, are examples of this type of theory.

The second track eschews "parsing strategies", replacing them with a fairly complex tuning by speaker/hearers to frequency in the hearer's linguistic environment. The difficulty of recovering an analysis of a construction in a particular case is a function of how often similar structures or thematic role arrays appear in the language as a whole. The work of Trueswell et al (19