



The Syntactic Process (Language, Speech, and Communication)

By Mark Steedman

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In this book Mark Steedman argues that the surface syntax of natural languages maps spoken and written forms directly to a compositional semantic representation that includes predicate-argument structure, quantification, and information structure without constructing any intervening structural representation. His purpose is to construct a principled theory of natural grammar that is directly compatible with both explanatory linguistic accounts of a number of problematic syntactic phenomena and a straightforward computational account of the way sentences are mapped onto representations of meaning. The radical nature of Steedman's proposal stems from his claim that much of the apparent complexity of syntax, prosody, and processing follows from the lexical specification of the grammar and from the involvement of a small number of universal rule-types for combining predicates and arguments. These syntactic operations are related to the combinators of Combinatory Logic, engendering a much freer definition of derivational constituency than is traditionally assumed. This property allows Combinatory Categorial Grammar to capture elegantly the structure and interpretation of coordination and intonation contour in English as well as some well-known interactions between word order, coordination, and relativization across a number of other languages. It also allows more direct compatibility with incremental semantic interpretation during parsing.

The book covers topics in formal linguistics, intonational phonology, computational linguistics, and experimental psycholinguistics, presenting them as an integrated theory of the language faculty in a form accessible to readers from any of those fields.

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Editorial Review

Review

Steedman has deftly woven two decades of seminal work on human language understanding into this accessible and engaging volume. It provides a compelling illustration of how the categorical nature of the lexicon explains the combinatory possibilities for the seamless online integration of phonological, syntactic, semantic, and pragmatic information

(Bob Carpenter, Lucent Technologies' Bell Labs)

This is the book about Combinatory Categorial Grammar (CCG) that the community has been waiting for!

(**Mark Johnson**, Brown University)

About the Author

Idan Landau is Associate Professor of Linguistics at Ben-Gurion University.

Mark Steedman is Professor of Cognitive Science in the Division of Informatics at the University of Edinburgh. He is the author of *Surface Structure and Interpretation* (MIT Press, 1996).

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