Towards a Wide-Coverage Grammar: Graphical Abstract Categorial Grammars

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Abstract

We present work whose ultimate goal is the creation of a wide-coverage abstract categorial grammar (ACG) that could be used to automatically build discourse-level representations. In our work, we advance towards that goal by laying down the foundations necessary for building wide-coverage ACGs.

We first examine existing language resources, in particular the Frigram interaction grammar and its lexicon Frilex, and assess their utility to building a wide-coverage ACG. We then present our implementation of the ACG machinery which allows us to experiment with grammars lexicalized by Frilex. Finally, we consider the challenge of integrating the treatment of disparate linguistic constraints in a single ACG and propose a generalization of the formalism: graphical abstract categorial grammars. The report concludes with an exploration of some of the formal properties of graphical ACGs.