# Head-Driven Phrase Structure Grammar

The handbook

Edited by

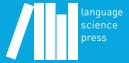
Stefan Müller

Anne Abeillé

Robert D. Borsley

Jean-Pierre Koenig

Empirically Oriented Theoretical Morphology and Syntax



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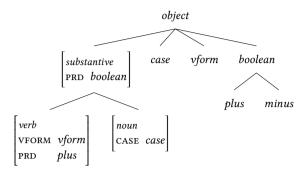
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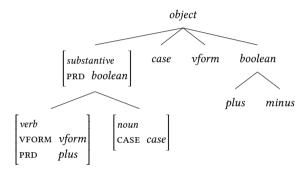
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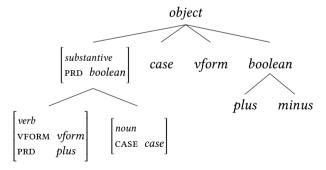
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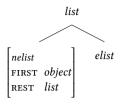


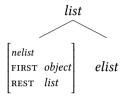




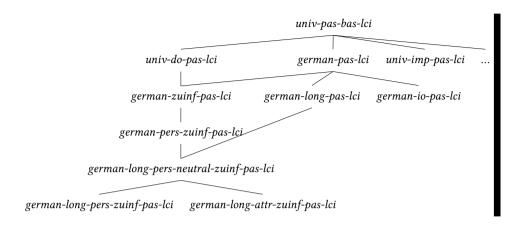
Stefan: The AVMs should come out north and the atomic types (case, vform, ...) too. You did this in the second example. This is nice. Can this be done in the type hierarchy style?

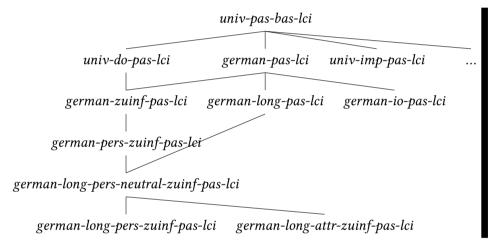
What does "calign children" do?



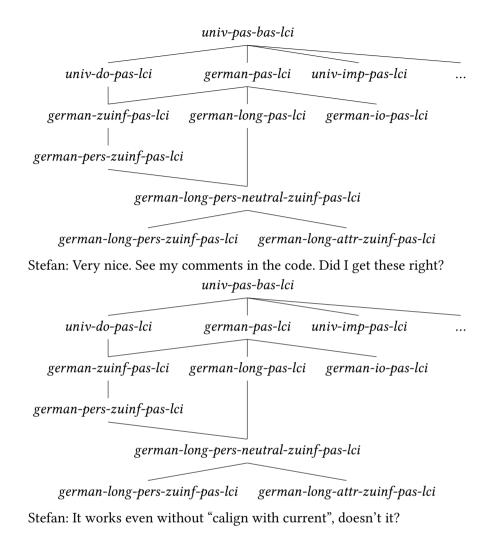


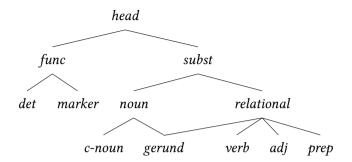
Stefan: Both AVMs and types should come out north.

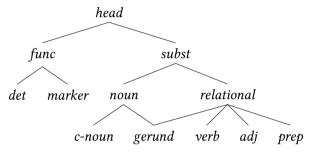




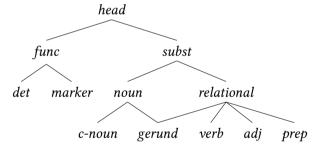
Stefan: Do you know what one can do about the black bars? The figure is scaled to fit the linewidth, so there should not be any black bars.

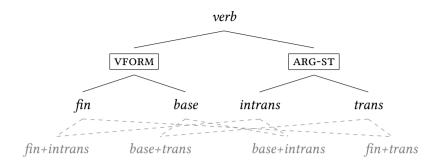


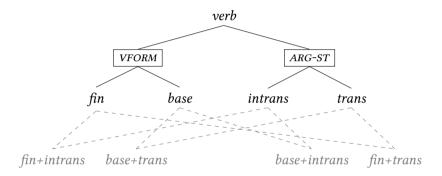


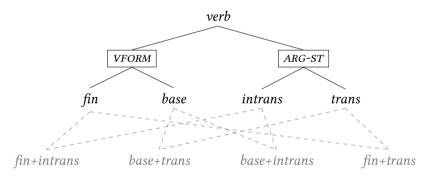


Stefan: What does "calign children" do? "identify" seems to be even better here:





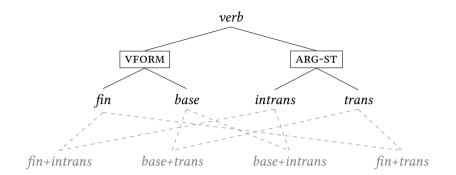


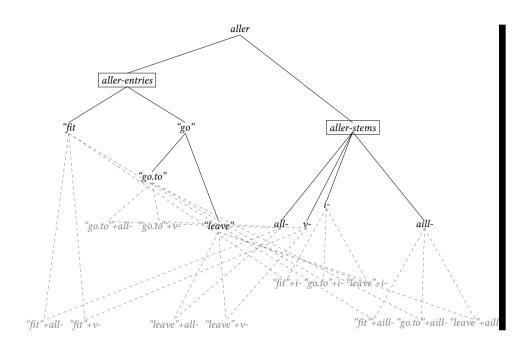


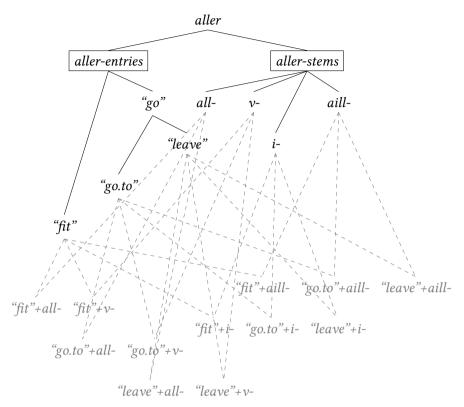
Stefan: Wow! Could you explain why tier=2 is needed? What does the "before drawing tree" magic do?

The lines should not touch the boxes as with the type in other trees.

I introduced the styles ",partition" and ",instance" for the boxed and the grey nodes. This is really cool! Thanks! Here is my version:

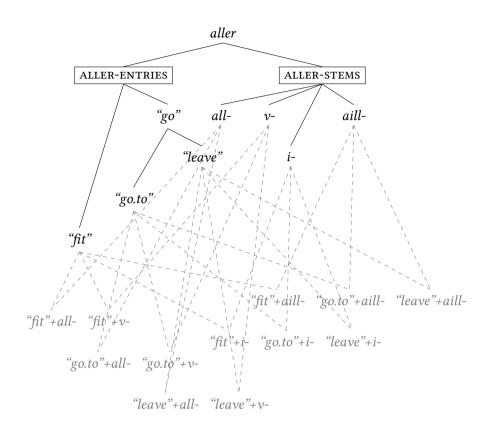


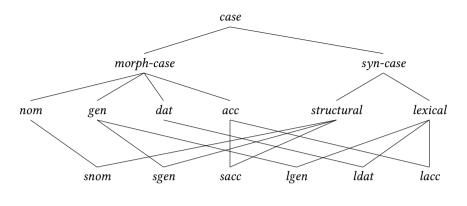


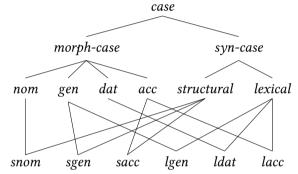


Here I would prefer if the dashed lines would not cross any black nodes. So edges from "all-" should not cross "leave". I guess this could be reached by shifting "all-" to the right or putting it on the same line as "leave". But I do not understand the code. Maybe there are better ways.

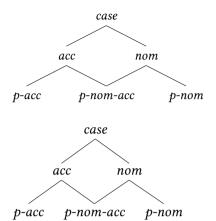
The n children=0 stuff is cool. I turned this into a style. =:-)

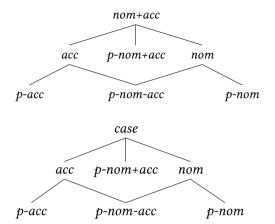




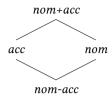


What does the magic code "before drawing tree" do?



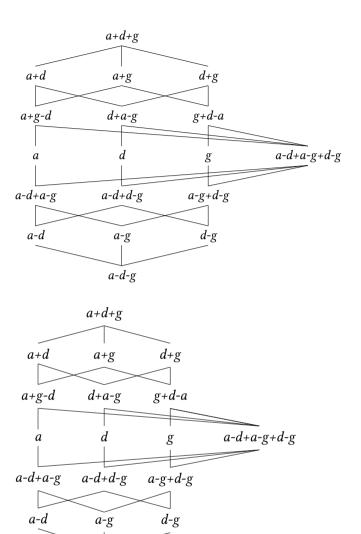


What does the "delay" do? Is it the case that without the "delay", "identify" would not know that p-nom-acc is a leaf?



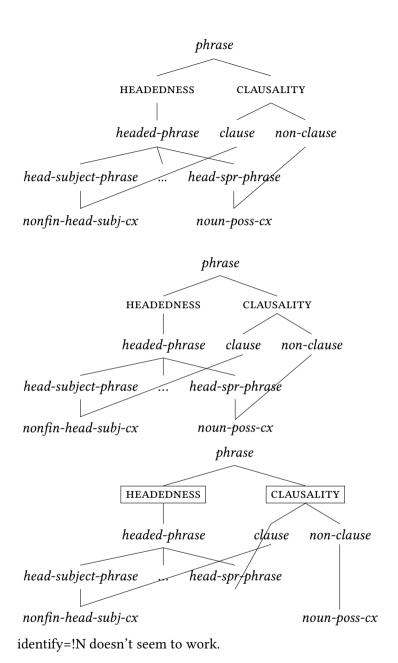


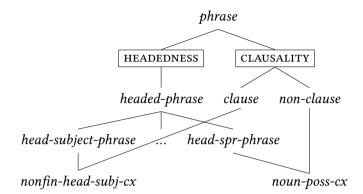
What is "before drawing tree" doing?



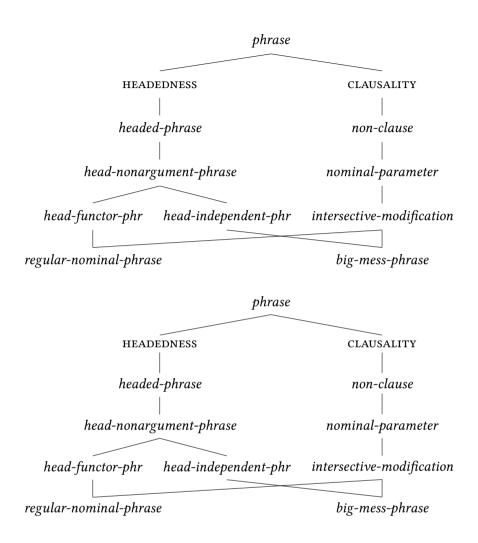
Is "edge to" the counter part of "edge from"?

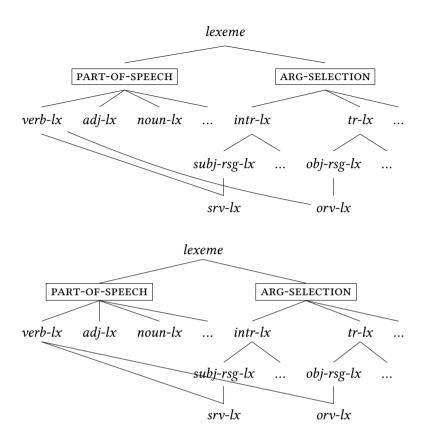
a-d-g



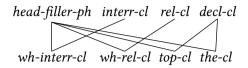


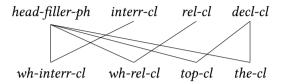
This works without crossing branches, but maybe it would be nicer if noun-poss-cx would be in the midlle of head-spr-phrase and non-clause.



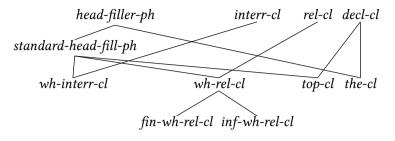


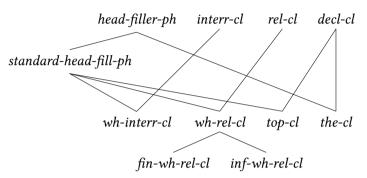
The original did apply a bend to the edge. Would this be possible to avoid the overlap?



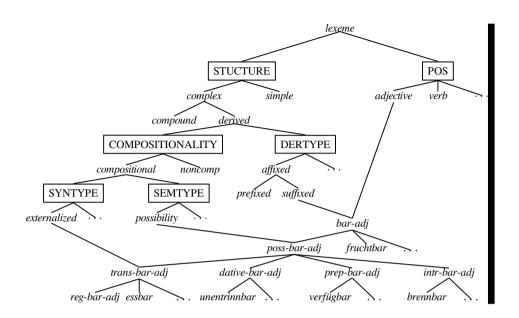


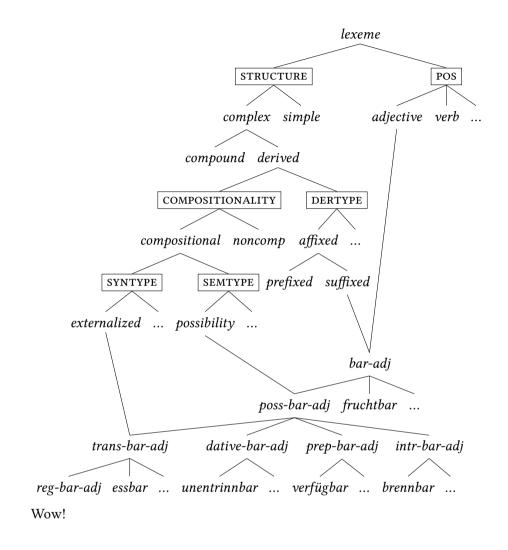
What does "for children" do?

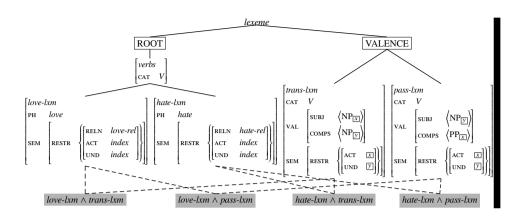


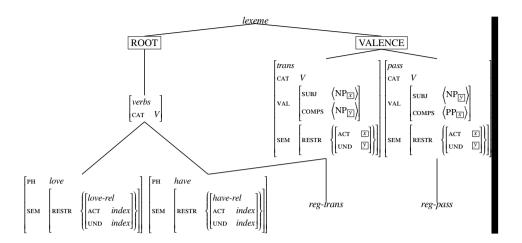


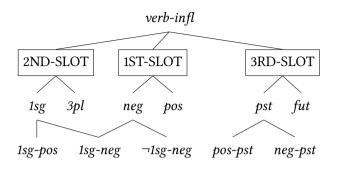
What does "for siblings" do? What does "anchor" do?

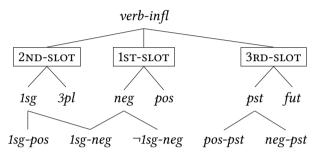




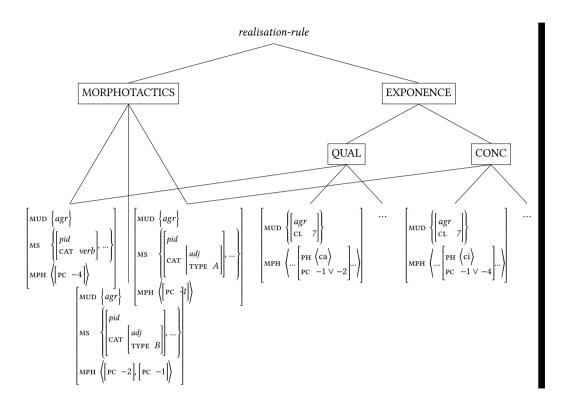




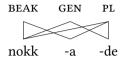


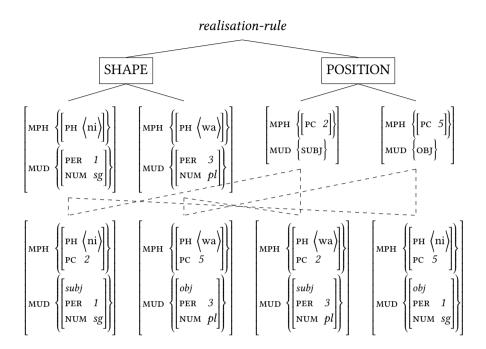


What does "Pp" mean? Isn't P the previous leaf and p the previous sibling. But the previous leaf is 1sg-pos and it does not have a previous sibling.









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### Head-Driven Phrase Structure Grammar

Head-Driven Phrase Structure Grammar (HPSG) is a linguistic framework that models linguistic knowledge on all descriptive levels (phonology, morphology, syntax, semantics, pragmatics) by using feature value pairs, structure sharing, and relational constraints. This volume summarizes work that has been done since the mid 80s. Various chapters discus formal foundations and basic assumptions, describe the evolution of the framework and go into the details of various syntactic phenomena. Separate chapters are devoted to non-syntactic levels of description. The book also handles related fields and research areas (gesture, sign languages, computational linguistics) and has a part in which HPSG is compared to other frameworks (Lexical Functional Grammar, Categorial Grammar, Construction Grammar, Dependency Grammar and Minimalim).