Empirical valency research and the problem of predicting syntactic behaviour from semantics

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This paper will challenge the widely held assumption that syntactic configurations mirror certain underlying semantic conceptualizations and that semantic similarity consequently entails syntactic similarity. Goldberg (2006: 58), for instance, argues that “[s]emantically similar verbs show a strong tendency to appear in the same argument structure constructions” and Pinker (1989: 62) maintains that the “[s]yntactic argument structures of verbs are predictable from their semantic structures, via the application of linking rules”. Similarly, addressing the question of the syntax-semantics interface from a more data-driven perspective, Hunston and Francis (2000) argue in the corpus-based Pattern Grammar that verbs occurring in the same syntactic pattern often also share semantic aspects, and Levin (1993) claims the same for verbs allowing the same syntactic alternations. Yet while syntactic similarity is often (although clearly not categorically) correlated with semantic similarity, it cannot automatically be concluded that semantic similarity entails syntactic similarity. What the approaches mentioned above either fail to address or at least severely underestimate is the fact that there are cases where the same semantic proposition can be verbalized by different (albeit semantically similar) verbs, which cannot always be complemented with the same syntactic patterns: of all theoretically possible, i.e. semantically plausible, verb-pattern combinations only a sub-group represents acceptable uses of present-day English (cf. the notion of constructeme in Herbst 2009), i.e. there are also syntactic gaps (cf. Mukherjee 2005).

This paper will present the results of a corpus-based comparison (Faulhaber 2011) of semantically similar verbs and their various complementation patterns as attested in the Valency Dictionary of English (Herbst et al. 2004) and the BNC. It will be shown that such gaps do not just constitute minor exceptions and that semantically similar verbs can also differ with respect to which pattern they prefer in terms of frequency, if more than one pattern is available for the same pragmatic purpose. While different semantic aspects can be shown to have a certain influence on the choice of pattern, the syntactic behaviour of verbs can clearly not be predicted on the basis of their meaning, which provides a strong case against a deterministic role of semantics in verb complementation and in favour of strengthening the role of storage in the cognitive representation of language instead. It will be argued that while argument structure generalizations of the kind suggested by Goldberg (2006) are certainly justified to some extent, they should be seen as limited generalizations and that a component specifying not only the semantic (i.e. participant role) but also the formal valency properties of words will have to be part of any theory of complementation (Herbst and Schüller 2008).

Herbst, Thomas (2010), “Valency constructions and clause constructions or how, if at all, valency grammarians might sneeze the foam off the cappuccino”, in: Hans-Jörg


Mukherjee, Joybrato (2005), *English Ditransitive Verbs - Aspects of Theory, Description and a Usage-based Model*. Amsterdam: Rodopi.