## A Superlative Theory of Amount Relatives

Amount relatives are a heterogeneous class of relative clauses, including there-insertion relatives and some ACD relatives, that are assumed to involve degree quantification and share specific determiner and relativizer restrictions. This paper proposes that some amount relatives involve a covert superlative morpheme, which accounts for their properties.

The puzzle of there-relatives is that if we assume relativization to be over variables of type $<\mathrm{e}>$ we expect them to be ungrammatical because of the presence of a strong variable in an existential context, a prediction which is not borne out, as shown by the grammaticality of (1). Carlson (1977) and Heim (1987) propose that relativization is of a degree variable, which Carlson argues is strong by itself but weak inside the degree expression $d$-many books, on a par with the contrast between the strong definite DP in (2a), and a definite DP containing a degree expression, as in (2b). A degree variable in there-relatives, however, predicts that the interpretation of (1) should be as in (3b), rather than the observed (3a), as first discussed in Grosu and Landman (1998). This paper proposes that a covert superlative is responsible for the interpretation. I propose that relativization is over degrees and individuals (embedded in a larger expression, therefore in a "weak" environment, in keeping with Carlson's idea). One motivation for postulating a covert superlative in there-relatives comes from the observation that only removes the amount reading (shown in (4a)) from ACD relatives (see McNally 2006), which is also true of superlatives (and ordinals). Unlike (4), (5) contains a superlative and is not ambiguous. The second is the fact that superlatives rescue definite singulars in there-relatives, as shown by the contrast between (7) and (8). (7) is bad for the same reason a superlative such as the tallest boy is bad when the comparison set is a singleton set.

In order to explain the complete absence of the amount reading from the there-relative despite its degree semantics, I suggest that a covert superlative morpheme "absorbs" the degree and yields for (1) the individual reading in (9b). The semantics of the covert EST is the same as that of the overt superlative in (6), inspired by Heim (1999), except that it combines exclusively with numerical degrees in (9b). This degree does not correspond to the cardinality of $Y$, but is forced to be 1 by a) the quantification over atomic parts of $y$ and $b$ ) by the monotonicity of $R$, crucially providing a plural individual rather than a set of degrees.

Some ACD relatives have the amount interpretation in (4a), in addition to the restrictive interpretation in (4b). Assuming a covert superlative in the semantics of ACD relatives leaves us without an explanation for the availability of an amount reading. Adopting the covert EST semantics for (4) yields (10a) with the interpretation in (10b), which is identical to that resulting from a purely intersective semantics. I propose that (4a) can be obtained without recourse to degrees from an E-type semantics for the past tense pronoun, as in (11), where $f(x)$ is a relation between objects and the times they are put in the pocket.

The differences between there- and ACD-relatives have led to proposals that thererelatives are either special (cf. Grosu and Landman 1998) or not amount relatives at all (cf. McNally 2006). My proposal is of the former kind, but, unlike Grosu and Landman's, derives rather than postulates the distribution of the amount reading. Also, this proposal explains the absence of definite singulars from there-relatives, as in (7), which would be surprising if they are purely restrictive, as McNally suggests. Aside from the definite singular restriction, the determiner restrictions amount to Grosu and Landman's maximalization, while the relativizer restrictions are handled along the lines of Heim (1987).
(1) I took with me every book that there was on the table.
$\forall \mathrm{x}$ such that Marv could put x in his pocket at a time $\mathrm{f}(\mathrm{x})$, Marv put x in his pocket at the time $\mathrm{f}(\mathrm{x})$ (when he could put x in his pocket)

Carlson, G. 1977. Amount relatives. Language 53:520-542. Grosu, A. and F. Landman 1998. Strange Relatives of the Third Kind. NALS 6: 125-170. Heim, I. 1987. Where does the definiteness restriction apply? In The representation of (in)definiteness, eds. Reuland \& ter Meulen, 21-42. MIT Press. Heim, I. 1999. Notes on Superlatives. Ms., MIT. McNally, L. 2006. Properties, entity correlates of properties, and existentials. To appear in $Q P$ structure, nominalizations, and the role of $D P$, eds. A. Giannakidou \& Rathert, M. OUP.

