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Rapport de mission
Participation au colloque
Empirical, Theoretical and Computational Approaches to Countability in Natural Language

Ce colloque a été organisé par Tibor Kiss et son équipe du département de Sciences du langage de la Ruhruniversität Bochum en Allemagne, et a réuni une trentaine de participants du 22 au 24 septembre 2010.

Argumentaire général du colloque (en anglais)

The distinction between mass and count nouns has been addressed in a variety of linguistic (and also extra-linguistic) approaches. Initially, it has been suggested that the distinction is a property of lexemes, or that it can be derived from properties of the objects denoted by the respective nouns. This assumption has been severely challenged by a variety of approaches, leading to the assumption that countability is a property of constructions and phrases. Yet, a critical survey of the most advanced work on the count-mass distinction has shown that multiple, partially conflicting views on this phenomenon are still competing.

As an illustration for unsettled questions, consider the following:

- If the mass-count distinction is actually dependent on formal syntactic and/or semantic marking, how are nouns to be classified that lack such a marking, e.g., nouns in preposition-noun combinations (determinerless PPs)?
- If mass is taken to be a basic property of nouns to which syntactic marking must be added to transform the noun into a count noun, why do certain languages already require such marking for mass terms (e.g., Romance languages)?
- How can the apparent tension between theoretical constructional (i.e., token-based, and hence construction-specific) and computational (i.e. primarily type-based, and hence possibly lexical-class-based) classification be resolved?

The goal of this conference is to bring researchers from all areas of linguistics together to clarify the numerous existing theories concerning the count-mass distinction and also to offer a platform for new insights and constructive criticism.

Pour l'abstract de ma communication, cf. les pages suivantes.

Problematic Feature Mappings in Number

1 Introduction

Countability and number are central issues in the linguistic analysis of noun phrases. The problem has been treated from two different perspectives: semantics and morphology (or morphosyntax). Countability underlies the mass-count divide, and from a semantic point of view, it makes a difference if something can be counted or not, and if there are single instances of it, or several. Considerable work in formal syntax and semantics, starting from Link (1983/2000), has been dedicated to the problems associated with these issues.

On the other hand, number is also a pervasive issue in morphology, as testified by books like Corbett (2000). Yet, as noted by Harbour (2008), morphology- and semantics-based approaches to number do not interact that much. One does hardly ever find any explicit reference to morphology in semantics literature, or to semantics in morphology literature. One interpretation (the optimistic one) of this state of affairs is that the mapping between the semantic category of number (henceforth: S-number), and the morphological category of number (henceforth: M-number) is entirely transparent: a category of S-number is systematically encoded as the equivalent category in M-number, and vice-versa. If this were the case, of course, disregarding one or the other aspect of number would not be a problem. However, should the mapping turn out not to be that transparent, by not treating one aspect of number, one might miss important parts of the puzzle.

The general aim pursued in this paper is extremely modest: I will argue that the mapping from M-number to S-number — even in languages like German or English — is not obvious. More specifically, I will try to show that indeed i) there are cases of conflict between M- and S-number; ii) that M-number maybe does not encode what has been analysed as S-number; and iii) that for the moment being, our strategy should be to clearly keep these two notions apart. To the end, I will present data from Southern German indefinite articles, which exemplify both complicated alignment patterns and an interaction between S- and M-number.

2 Background

Much of linguistic theorizing has been trying to account in some way or another for a similarity in behaviour between mass and (count) plural nouns. However, it has not so often been looked at what separates these two categories: mass seems to be singular (M-singular, at least) after all, and as we will see, other diagnostics fail to unite these two as well.

2.1 Mass Nouns as Lexical Plurals

A dominant idea in the area of semantics is that mass nouns are lexical plurals (cf., e.g., Chierchia, 1998a; Chierchia, 1998b; Rothstein, 2010). Like plurals, mass have the properties of cumulativity and divisivity (cf. Kiparsky, 1998; Krifka, 1998), and as mass is M-singular, one might consider that we are faced with a possible source of conflict between M- and S-number. One of the motivations for the mass-is-plural hypothesis is combinatorial: it has often been observed (for instance with indefinite articles) that mass nouns — while being M-singular like count singulars — pattern with respect to determiners with M-plural count nouns. A suggested explanation is that they are both S-plural.

A prediction associated to the mass-is-plural hypothesis is that there are no determiner that combines exclusively with singular mass nouns and singular count nouns, while being inappropriate with plural count nouns. Stated differently: determiners do not care for morphology, they only care for semantics. I will present in section (3) a

counterexample to the prediction, but let us first see some more general inconvenients for this idea. First, as has been observed by Borer, 2005, one cannot say things like (1): M-number seems to be important and independent.

(1) *Water are refreshing.

The inacceptability of (1) might just be a fact about morphosyntactic agreement. However, the analogy of mass being plural might be problematic for semantic reasons as well. It has been observed by Farkas and Swart (2010, 6:11f.) that (personal) pronouns can be sensitive to semantic rather than morphosyntactic features.

(2) a. Három gyerek elment | *elementek b. Mari nem látta őket | *öt
 three child leave.PAST.SG | leave.PAST.PL Mari not see.PAST III.PL.ACC | III.SG.ACC
 ‘Three children left.’ ‘Mary didn’t see them.’

The point of (2) is the following: in Hungarian, cardinals require obligatorily singular M-number agreement on the noun and the verb. However, anaphora obligatorily take M-plural (cf. (2b)). This means that in Hungarian, discourse anaphora by pronouns agree with S-number rather than with M-number.

Now, should mass be semantically plural in any pertinent sense, one would expect pronouns that are anaphoric to mass nouns to allow for M-plural as well. Semantic agreement, however, does not seem to be even possible in these circumstances. I will illustrate the case with German, since there are known conflicts between morphological and “semantic” features which can be resolved either way, for instance with gender:

(3) Ich habe ein Mädchen_i gesehen. Es_i | Sie_i stand auf dem Tisch.
 I have a girl.NEUT seen. III.NEUT | III.FEM stood on the table
 ‘I saw a girl_i. She_i was standing on the table.’

So, one would expect that — if there were a conflict between S- and M- features in number — it could be resolved in a similar way.¹ This, however, is not the case for German, nor for English.

(4) a. Der Kellner brachte uns Wasser_i. #Sie_i waren kalt.
 the waiter brought us water. they were cold.
 b. The waiter served water_i. #They_i were cold.

So, the question remains whether this is a case where S-number would be for some reason inaccessible — in which case we could maintain the idea of ‘mass as plural’ —, or if mass and plural share some properties, but are not identical in all aspects.

2.2 An Alignment Puzzle

A second case in point to show that the mapping between S- and M-number is maybe not that simple is the fact that they have opposite poles of markedness: S-plural is unmarked, but M-plural marked, and M-singular is unmarked, but S-singular marked.

Generally, it is expected (by Horn’s division of Pragmatic Labour, cf. Horn (1989), or other, similar principles) that marked forms receive marked interpretations, and that unmarked forms go with unmarked interpretations. Yet, as has often been noted (cf. Bale, Gagnon, and Khanjian, in press for an overview and a detailed examination), with number, the Horn pattern does not seem to obtain.

The problem is the following: in languages such as English, morphologically, it is quite obviously the plural that is the marked form, since it has an -s suffix on what looks like the singular, whereas the singular seems to be identical to the root. So, the plural form F_{Pl} is more marked as the singular form F_{Sing} (cf. (5a)). However, the semantic side

¹This assumes that a given language resolves such feature conflicts in a coherent manner, which might not be a realistic assumption. In modern German, articles or relative pronouns have to agree with M-number (this might be a locality issue). Moreover, the pattern we observe in (3) might be a relatively recent one. For instance, in the Grimm brother’s version of *Cinderella*, agreement systematically proceeds with (neuter) M-number, whereas a version by Bechstein (roughly one generation later) displays a rather modern mixture of agreement with M-number and S-number.

