THE STRUCTURE OF NOMINAL CLASSIFIER SYSTEMS 1

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1. Introduction

Syntactic manifestation of semantic classificatory systems is a common trait in natural language. Thus, in the familiar languages of the Indo-European family, differences in gender are reflected in concord requirements that exist between ad-nominals and relative pronouns and the nouns. In a threegender system such as that of Latin and its derivative Romance languages, there is a greater variety of co-occurrence constraints than in a two-gender system such as that of modern Dutch. In the non-Indo-European languages, particularly those in Asia, semantic classification in nominal structures typically takes on a wider domain. The syntactic manifestation may appear either in the nominal structure or in the verbal structure, and the incorrect use of classifiers renders a sentence 'ungrammatical'.

Nominal classifiers are attested among most languages in Asia, including the Sino-Tibetan languages, the Austroasiatic languages, the Malayo-Polynesian languages, even some of the Indo-Aryan languages bordering on these languages, 2 and the Altaic languages. Their use is generally associated with the quantification of objects or nouns and as a rule they usually occur immediately adjacent to the numeral in a measure phrase or in conjunction with demonstratives. Nominal classifiers were also very much

evidence among the native languages in America, rticularly among the Athapaskan languages. In these nguages the semantic classification of nouns is nifested in the verbal structure, perhaps reflectg the general tendency of verbal incorporation. 3 eneau has posed a very interesting and important oblem concerning the areal spread of classifiers. will be important to consider areal linguistics the light of possible independent phylogenetic velopments as opposed to a possible combination of th independent evolution and structural borrowing cause of prolonged language contact in contiguous ographical areas. A better understanding of the ructure and development of such syntactic traits n aid in tracing genetic relationships, particularthose among Austroasiatic languages, Sino-Tibetan inguages, and Malayo-Polynesian languages. lls for more than exhaustive taxonomic descriptions classifiers in each language. It will be necesry to devise a formal apparatus by which both the nchronic systems as well as diachronic developments nominal classifiers may be compared.

Moreover, the study of nominal classifier sysms suggests an important hypothesis that the use nominal classifiers and the use of the plural rpheme are in complementary distribution in natural anguage. More concretely, it suggests that either a natural language has either nominal classifiers plural morphemes, or b) if a natural language has the kinds of morphemes, then their use is in complentary distribution.

2. The structure of the ad-nominal classificatory system

Nominal classifiers are the lexical items that usually come between the numeral and the noun in a measure phrase. Under this definition the number of classifiers in a particular language generally ranges from a handful to about two hundred.

The actual range, as we shall show later, is relatively open-ended. I have proposed elsewhere that a four-way distinction in the kinds of classifiers is justified. They may be characterized by two features: [+ entity] and [+ exactness]. For example, in the case of 'chicken', the Chinese classifiers are (in Mandarin):

In (I) the measure refers to an exact quantity and involves discrete physical entities. A parallel case in English would be sheet (in two sheets of paper), which characterizes certain physical dimensions of 'paper', the mass noun. In (II) the measure is exact but it refers to no discrete physical entity. Pounds, gallons, and feet for example, are commonly known as measure words. Their function is to delimit exact amounts of unstructured and non-entity mass. The measure is applied to the unit of measurement and not to entities of the delimited mass. Two pounds of chicken (or beef) pre-

nts an exact measure, but it need not be a discrete tity in that more likely than not the 'Shylockian t' could not have been made. In (III) there is a finite sense of a well-defined discrete entity or tities, but the quantity is not exact either by sign or by convention. For example, a brood of icks (or a plate of chicken) is not an exact measure t there is a definite sense of physical entity and can be referred to as a unit. This may be conasted with two pounds of chicken (legs) as in I ught two pounds of chicken (legs) yesterday. ference is made to an exact quantity rather than object and there is the sense of physical entity cking. In (IV), which characterizes mainly stract nouns, the measure is neither exact nor does refer to a discrete physical entity.

asure, but the range of each kind of measure may ry in different languages. Mass nouns in English, comparison to those in Chinese, may be good amples of range difference. In the case of attle': two head(s) of cattle, head is a + entit asure; in two herds of cattle, herd is a exact entity measure; in twenty thousand pounds of entity]

ttle, pound is a [+ exact] measure; and in two
[-exact] nds of cattle, kind refers to unt nouns in English and other European languages ually require no overt markers for + exact asure, but the contrary is generally true of the nguages in Asia, where (I) embodies a rich and mplex classificatory system. The number of cateries is culture-bound and relatively finite for I). It depends on the standard measures of weight, lume, length, temporal extent, etc. (IV) univer-

Natural language exhibits all four kinds of