In this paper, I argue that we need to distinguish carefully between descriptive categories, i.e. categories of particular languages, and comparative concepts, which are used for cross-linguistic comparison and are specifically created by typologists for the purposes of comparison. Descriptive formal categories cannot be equated across languages because the criteria for category-assignment are different from language to language. This old structuralist insight (called categorial particularism) has recently been emphasized again by several linguists, but the idea that linguists need to identify "cross-linguistic categories" before they can compare languages is still widespread, especially (but not only) in generative linguistics. Instead, what we have to do (and normally do in practice) is to create comparative concepts that allow us to identify comparable phenomena across languages and to formulate cross-linguistic generalizations. Comparative concepts have to be universally applicable, so they can only be based on other universally applicable concepts: conceptual-semantic concepts, general formal concepts, and other comparative concepts. Comparative concepts are not always purely semantically-based concepts, but outside of phonology they usually contain a semantic component. The fact that typologists compare languages in terms of a separate set of concepts that is not taxonomically superordinate to descriptive linguistic categories means that typology and language-particular analysis are more independent of each other than is often thought.

1. INTRODUCTION: HOW TO COMPARE LANGUAGES

The purpose of this paper is to argue that cross-linguistic comparison should be based on comparative concepts created by the typologist, rather than on cross-linguistic categories which are instantiated in different languages, and to show how comparative concepts differ from language-specific descriptive categories. Although in practice typologists generally work with such special comparative concepts, this distinction between comparative concepts and descriptive categories has not been articulated clearly before.

More commonly, linguists tend to assume that there is a substantial set of universally available CROSS-LINGUISTIC CATEGORIES (such as adjective, passive voice, accusative case, future tense, second person, subject, affix, clitic, phrase, wh-movement) from which languages may make a selection (Newmeyer 2007), and which are used both for description/analysis and for comparison. Typological research would then simply consist in identifying adjectives, passives, and so on in each language that has the category, and examining the ways in which the properties of the categories

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vary across languages. In this approach to cross-linguistic comparison, which we can call *categorial universalism*, it is one of the main tasks of comparative linguists (i.e. typologists) to determine what these cross-linguistic categories are. For linguists working on individual languages, this means that language-particular categories can be expected to be drawn from a relatively small set, that they can be equated with categories of other languages, and that they can be identified with (or instantiate) the cross-linguistic categories. Thus, comparative linguistics is an important necessary prerequisite for analyses of particular languages. Categorial universalism has been uniformly adopted in generative typology since its beginnings, and it appears to be implicitly assumed by many other linguists as well (e.g. Payne 1997, Corbett 2000, Van Valin 2005, Dixon 2010). It is sometimes even assumed that particular categories are universal not only in the sense of being universally available, but also of being universally instantiated (e.g. nouns and verbs in Baker 2003, adjectives in Dixon 2010).

The present paper starts out from an alternative view of the tasks of comparative linguistics. Following recent work on the foundations of grammatical typology by various authors (Dryer 1997, Croft 2001, Lazard 2006, Haspelmath 2007, Cristofaro 2009), I assume that grammatical categories are not cross-linguistic entities (either universally available or universally instantiated). Each language has its own categories, and to describe a language, a linguist must create a set of descriptive categories for it, and speakers must create mental categories during language acquisition. These categories are often similar across languages, but the similarities and differences between languages cannot be captured by equating categories across languages. It was one of the major insights of structuralist linguistics of the 20th century (especially the first half) that languages are best described in their own terms (e.g. Boas 1911), rather than in terms of a set of pre-established categories that are assumed to be universal, although in fact they are merely taken from an influential grammatical tradition (e.g. Latin Grammar, or English grammar, or generative grammar, or Basic Linguistic Theory). This alternative, non-aprioristic approach to categories can be called *categorial particularism*. In this approach, language-particular analyses can be carried out independently of comparative linguistics.¹

Categorial particularism appears to make cross-linguistic comparison more challenging, but I argue that there exists a coherent and viable methodology for typological research that is compatible with it, which has in fact been employed by most researchers in the Greenbergian tradition (e.g. Greenberg 1963, Mallinson & Blake 1981, Comrie 1989, Dryer 1992, Croft 2003, Haspelmath et al. (eds.) 2005, Song (ed.) to appear). This is the use of comparative concepts, i.e. concepts specifically designed for the purpose of comparison which are independent of descriptive categories. However, linguists have often been unclear about the way in which the apparent paradox of comparability of incommensurable systems can be resolved. It is my goal in this paper to explicate this approach and defend it against challenges from a categorial universalist perspective such as Newmeyer (2007).

The remainder of this paper is organized as follows. In §2 I give an overview of the crucial notion of comparative concept and provide an initial example. In §3, I characterize descriptive categories and show that they must be different in different languages, and in §4 I argue against the use of cross-linguistic categories. The heart of the paper is §5, where I give seven concrete examples of well-known grammatical comparative concepts and show that the corresponding language-particular

¹I use the terms "comparative linguistics" and "typology" interchangeably in this paper. "Typology" is often associated with specifically non-generative approaches, so I generally prefer the broader (and more transparent) but longer term "comparative linguistics".
categories are crucially different. §6 addresses the terminological issues arising from this distinction, and §7 reviews earlier approaches to grammatical comparison. I show that very few earlier authors have made this important distinction explicit, even though in practice many linguists distinguish the two notions implicitly. In §8 I ask how comparative concepts are chosen, concluding that no general answer can be given because multiple perspectives of comparison can be adopted simultaneously without contradiction. Finally, §9 emphasizes that comparative concepts are not simply generalizations over linguistic categories, and that typology cannot be based on the comparison of categories in the sense of structurally coherent units of languages.

2. TYPOLOGISTS USE COMPARATIVE CONCEPTS

Typologists have often observed that cross-linguistic comparison of morphosyntactic patterns cannot be based on formal patterns (because these are too diverse), but has to be based on universal conceptual-semantic concepts (e.g. Stassen 1985:14, to appear, Croft 1990:11-12, 1995:88, 2003:13-14, Heger 1990/91, Givón 2001:20-23, Song 2001:10-12, Haspelmath 2007). However, as Newmeyer (2007:136) rightly emphasizes, "typological generalizations need to make reference to the specific form in which these universal concepts are realized as well" (see also Rijkhoff 2009, to appear). Typologists make generalizations about phenomena such as case affixes, gender, adpositions, passive constructions, and relative clauses, and none of these can be defined in purely conceptual-semantic terms.

Thus, I claim that what cross-linguistic grammatical research is based on in general is comparative concepts. Comparative concepts are concepts created by comparative linguists for the specific purpose of cross-linguistic comparison. Unlike descriptive categories, they are not part of particular language systems and are not needed by descriptive linguists or by speakers. They are not psychologically real, and they cannot be right or wrong. They can only be more or less well-suited to the task of permitting cross-linguistic comparison. They are often labeled in the same way as descriptive categories, but they stand in a many-to-many relationship with them (§9). Comparative concepts are universally applicable, and they are defined on the basis of other universally applicable concepts: universal conceptual-semantic concepts, general formal concepts, and other comparative concepts. Comparative concepts have often been used implicitly in the typological literature, but there has not been any detailed and explicit discussion of the difference between comparative concepts and language-particular descriptive categories.

Comparative concepts are needed for stating empirically testable universal claims. Consider the generalization in (1).

(1) In all languages with a dative and an accusative case, the dative case marker is at least as long as the accusative case marker.

To test this claim, we need to identify dative and accusative case markers across languages, and we need to measure phonological length in a cross-linguistically meaningful way. It is relatively easy to see that dative cases (or dative-like cases) cannot be equated across languages, i.e. there is no cross-linguistic dative category. The Russian Dative, the Korean Dative and the Turkish Dative are similar enough to be called by the same name, but there are numerous differences between them and they cannot be simply equated with each other. Clearly, their nature is not captured
satisfactorily by saying that they are instantiations of a cross-linguistic category "dative".

However, dative case can be defined as a comparative concept, as in (2).

(2) A dative case is a morphological marker that has among its functions the coding of the recipient argument of a physical transfer verb (such as 'give', 'lend', 'sell', 'hand'), when this is coded differently from the theme argument.

This definition is based on the conceptual-semantic concepts 'recipient' and 'physical transfer verb', as well as the comparative concepts 'morphological' and 'argument'. The comparative concept 'morphological', in turn, presupposes the comparative concept 'word', perhaps definable as a 'segment string that cannot be interrupted by a free form without changing the meaning', and the comparative concept 'argument' can be defined as 'referential phrase that can fill a verb's semantic valency position'. These definitions are still not composed of primitive concepts, but they do not (at least not evidently) introduce language-particular concepts, so they are (or can be made, with suitable refinement) cross-linguistically applicable. Thus, given the definition of the comparative concept 'dative' in (2), we can go on to test the generalization in (1).

This is done by matching the phenomena of languages with the comparative concepts. The Russian Dative matches the 'dative case' concept in (2), and so does the Finnish Allative, but the Nivkh Dative-Accusative case, for instance, does not match it, despite its name, as it is used to express the causee in causative constructions, but not the recipient of a physical transfer verb. Note that we cannot say that the Russian Dative and the Finnish Allative "instantiate" the 'dative case' concept, because these categories have many more properties than are contained in the definition in (2). This is the crucial difference between comparative concepts as proposed here and the cross-linguistic categories that I reject. On the categorial universalist view, categories in particular languages instantiate cross-linguistic categories, and they can thus be equated across languages. On the view presented here, the fact that two language-particular categories both match a comparative concept just means that they are similar in the relevant respect, but not that they are "the same" in any sense (see §9 for further discussion).

I use the term comparative concept (rather than comparative category) in order to emphasize that the comparative concepts are typologists' constructs, not part of the structure of languages. Since Aristotle, we have known that speakers need categories (semantic categories and formal-grammatical categories) to be able to use language, and linguists need (corresponding) categories to describe individual languages. Comparative concepts, by contrast, are a sort of metacategory that is irrelevant to language learning or language description/linguistic analysis. Linguists tend to use the same grammatical terms for descriptive categories and comparative concepts, but these two uses of the terms refer to different kinds of entities.

3. DESCRIPTIVE LINGUISTS USE LANGUAGE-PARTICULAR DESCRIPTIVE CATEGORIES

A large part of linguists' activity is descriptive in the sense that it focuses on the analysis of a particular language, whether one's main concern is theoretical or applied.² To describe a language, one needs categories, because it is not possible to

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² I follow Lyons (1981:34-35) in contrasting descriptive linguistics (the study of particular languages) with general linguistics (the study of language in general). The theoretical-applied distinction is orthogonal to the descriptive–general distinction. I only address theoretical concerns here, i.e. by
list all the acceptable sentences of a language. Out of the countless possibilities, linguists typically value those descriptions most highly that "do justice" to the language in an optimal way. Well into the 19th century, it was common to find descriptions of caseless languages in terms of the Latin six-case model (nominative: John, accusative: John, dative: to John, genitive: of John, ablative: from John, vocative: o John). Descriptions of this sort worked, in that they allowed the users of the description to distinguish between acceptable and unacceptable expressions in the language, but they did it in a way that has been unacceptable to linguists since the advent of structuralism at the latest. At least as theoretical linguists, we are not satisfied with getting the facts right, but we also want to gain insights into the inner workings of the language, into the way its various elements cohere. This means that English should be described non-aprioristically, with descriptive categories designed for English, not with categories designed for Latin, Arabic or any other language. As the American structuralists recognized, this emancipation from the Latin (or Standard Average European) model must be extended to all other languages. According to Boas (1911:81), the descriptive categories chosen by the authors of the *Handbook of American Indian Languages* "depend entirely on the inner form of each language ..." See Gil (2001) for a recent compelling formulation of the argument against apriorism in linguistic analysis.

However, a very different view has come to prevail in the second half of the 20th century, according to which there exists a set of cross-linguistic categories (some of them perhaps even universal) from which languages may choose. According to this view, English happens not to have a dative case, but the Korean dative case instantiates the same cross-linguistic category as the Icelandic dative case (see Maling 2001); adjectives in Tariana are adjectives in the same sense as adjectives in Russian (see Aikhenvald 2004); or subjects in Tagalog are subjects in the same sense as in English (see Kroeger 1993). On this view, the task of descriptive work is to identify the phenomena of a language with these pre-established cross-linguistic categories. These categories are often assumed to be part of the innate Universal Grammar (substantive universals, Chomsky 1965:§1.5), but sometimes linguists simply assume their cross-linguistic validity without any cognitive commitment.3

More recently, a number of linguists have argued against the view that grammatical categories are cross-linguistic, and have essentially returned to the structuralist position that each language has its own categories and that there are no cross-linguistic categories (Dryer 1997, Culicover 1999: ch. 2, Croft 2000, 2001, Lazard 1992, 2005, 2006, Haspelmath 2007, 2010, Mielke 2008, Cristofaro 2009).

The argument for categorial particularism is simple: The criteria used for identifying categories such as cases, word classes and grammatical relations are themselves language-particular. Subjects in English are identified by a set of criteria that is only partially comparable to the set of criteria that might be used to identify subjects in Tagalog (cf. Schachter 1976). Adjectives in Mandarin Chinese are identified by a set of criteria that is quite different from the criteria applied in Russian (cf. McCawley 1992). Many criteria are completely lacking in many of the languages. Since there is no principled way of deciding which criteria are relevant,

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1'descriptive' I mean 'theoretical-descriptive'. (Instead of description, many linguists use the equivalent term analysis.)

3 A reviewer claims that on a non-innativist view, it is incoherent to assume that children learning different languages on the basis of different data learn the same categories. While I certainly agree that it is more natural to assume that if categories are not given in advance, they cannot end up the same, I could still imagine that learners of different languages somehow converge on the same categories (e.g. because the categories are so evidently useful). Thus, I treat generative categorial universalism together with non-generative categorial universalism (e.g. Van Valin 2005, Dixon 2010) here, even though their views of course differ in important ways.
linguists that assume cross-linguistic categories are often (indeed, usually) in disagreement over category assignments: Is Thai dii a verb or an adjective (cf. Prasithrathsint 2000)? Are the French subject pronouns je, tu, il (etc.) pronouns or agreement markers (cf. De Cat 2005)? Is the English genitive marker 's an enclitic word or a phrasal suffix (cf. Zwicky 1987)? Such category-assignment controversies cannot be resolved, because the answer one gives depends on one's choice of criteria, and this choice is "opportunistic" (Croft 2001:30, 41, 2009). Linguists inevitably choose the criteria in such a way that they obtain the result that fits their general perspective best. But since perspectives differ, different linguists arrive at different categories, and it is impossible to tell which category assignment is correct. The solution is to accept that categories and language-particular, and to describe languages in their own terms.

Language-particular descriptive categories are required in phonetics and phonology as well. Port & Leary (2005) argue against the assumption of "a fixed, universally available alphabet-like phonetic inventory", and Ladd (to appear) likewise notes that phonetic research of the last decades is not compatible with the "universal categorization assumption", the idea that there is a closed universal inventory of possible segment types. The distinctive features of modern phonology were originally conceived of as language-particular categories (Trubetzkoy 1939), and it was only later in work by Roman Jakobson, Morris Halle and others that they were reconceptualized as cross-linguistic categories. More recently, a number of phonologists have advocated a return to the Trubetzkoyan view. In Mohanan et al.'s (to appear) approach, "UG does not provide an inventory of specific distinctive features... Inventories of features, contrastive segments and feature-constraints emerge in an individual grammar in the course of language development through exposure to data." Similarly, Mielke's (2008) "emergent feature theory" argues against innate, cross-linguistic features and in favor of language-particular features. Mohanan et al. (to appear) recognize that this has consequences for cross-linguistic comparison, which cannot be based on a universal list of pre-defined features: "What is needed is a cross-linguistically valid currency of distinctive features: such a currency can obtain without reference to a set of features stipulated in UG" (§6). In other words, phonological typology needs comparative phonological concepts, and it is such comparative concepts that good phonological typology (e.g. Maddieson 1984) is based on, often implicitly. Maddieson (1984), for instance, does not discuss the theoretical basis for comparison explicitly, but he essentially compares segments across languages in terms of the IPA symbols. As D.R. Ladd (p.c.) observes, the International Phonetic Alphabet is useful as a set of widely understood comparative concepts for cross-linguistic comparison, but not as "a set of symbols for representing all the possible sounds of the world's languages" (IPA 1999:159).

The distinction between descriptive categories and comparative concepts is even more familiar from lexical comparison. While simplistic approaches such as Swadesh-list-based comparison make the simplifying assumption of a one-to-one correspondence between lexical meanings and words, and thus between words across languages, reality is more complex: Words in one language are often in semantic many-to-many relationships with words in another language. Any systematic lexical comparison of languages needs to work with a somewhat arbitrarily chosen set of standardized lexical meanings (e.g. the World Loanword Database, Haspelmath & Tadmor 2009a, 2009b). These lexical meanings are comparative concepts, and the meanings of individual languages are language-particular semantic categories. Neither can be reduced to the other.
4. CROSS-LINGUISTIC CATEGORIES CANNOT BE THE BASIS FOR COMPARATIVE LINGUISTICS

The approach to language comparison in terms of cross-linguistic categories has not been successful. If there were such a limited set of universally available categories from which languages may choose, we would expect that grammatical research from various perspectives would gradually converge on these categories. However, linguists differ widely in the kinds of categories they assume, and a common experience of typologists is that each new language presents them with something that they have never seen before. While there is a core set of phenomena that tend to be quite similar across languages (noun, verb, demonstrative, personal pronoun, subordinate clause, question-word fronting, etc.), there is a large periphery of construction types that are not readily identifiable across languages. And where there is broad agreement about certain categories and construction types, it is sometimes hard to avoid the impression that the agreement is based more on grammatical traditions (influential frameworks, or influential languages such as English or Dyirbal) than on real convergence of analyses. As Bach (2004:56-57) notes, early generative grammar "took over with no substantial justification the categories of traditional grammar ... The initial empirical base was English and as this base was broadened to include more and more different languages, these categories were naturally taken over for the 'new' languages".

The Boasian position that each language has its own categories avoids the problems of category-assignment controversies and bias by traditions. Its most glaring potential problem is that it makes languages seem incommensurable, rendering language comparison impossible. And indeed, as Greenberg (1974:42) noted, American structuralists "largely ignored typology". However, I am arguing in this paper that language comparison should not be (and in the best cases is not) based on structural linguistic categories at all, but on comparative concepts. Thus, there is no conflict or tension between a Boasian and a Greenbergian approach.

It should be noted that the arguments against cross-linguistic categories apply with equal force if one adopts an innatist stance. A reviewer thinks that generative linguists "can claim that linguistic categories are innate and such a claim seems impervious to most arguments against cross-linguistic categories." But since generative linguists do not have direct access to mental grammars either, they have to justify their category assignments in the same way as linguists who do not make assumptions about innateness. One may of course assume that children are born with a subject category, but if linguists cannot identify subjects cross-linguistically for lack of consistently applicable criteria, then speakers can hardly learn subjects either. Culicover (1999: ch. 2), coming from a generative background, arrives at a particularist conclusion without even considering linguistic diversity in detail, only on the basis of learnability considerations. He observes that syntactic categories must be taken to have subcategories, comprising items with specific properties not shared by all members of the category (e.g. pronouns as a subcategory of nouns). Sometimes these subcategories are small, consisting only of a single member (e.g. postposed degree adverbs, of which English has only one: enough). Culicover notes that if such small and idiosyncratic categories are also assumed to be drawn from a universal set, this entails "that all conceivable sets of elements that could share any...

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4 As Dryer (1997:123) emphasizes, there is no need to appeal to cross-linguistic categories to explain these similarities, because functional explanations are generally available for them. For instance, the fact that nouns and verbs contrast grammatically in most languages is evidently due to the fact that all human beings tend to use time-stable thing concepts as referents and ephemeral process concepts as predicates (Croft 1991:ch.2).
formal property at all are universally available syntactic categories, including every individual lexical item" (p. 40). He concludes that this renders the categorial universalist position vacuous, and that it must be abandoned.

5. EXAMPLES OF COMPARATIVE CONCEPTS

Comparative concepts are necessary for the formulation of cross-linguistic generalizations (or "language universals"). If we were not interested in such generalizations, we could do without comparative concepts, and of course many descriptive linguists, psycholinguists and sociolinguists do not use comparative grammatical concepts in their work at all. To give the reader a better sense of what I am talking about, I give seven concrete examples of comparative grammatical concepts from morphosyntax and of the way they are used in cross-linguistic studies. In each of the following subsections, I will first cite a proposed generalization, and then give a definition for one of the key concepts in the generalization. As in our first example in §2, the definitions will appeal only to conceptual-semantic concepts, to general (not linguistics-specific) formal concepts (such as 'precede', 'identical', 'overt', which I assume to be unproblematic), and to other comparative concepts. The definitions of comparative concepts must not contain language-particular components. The space limitations of this paper do not allow me to define all the concepts used in the definitions and to justify all aspects of the definitions and the universality of the concepts used in them. A complete account will of course have to be fully explicit, but here the point is primarily to show that comparative concepts are quite different from descriptive categories used for the analysis of particular languages.5

5.1. ADJECTIVE

Comparative part-of-speech concepts such as 'adjective' are necessary for stating the well-known Greenbergian generalizations (see 3). Greenberg and other word order typologists have worked with a definition of 'adjective' along the lines of (4).

(3) Generalization: If a language has dominant SOV word order and the genitive follows the governing noun, then the adjective likewise follows the noun (Greenberg 1963, universal 5).6

(4) Definition: An adjective is a lexeme that denotes a descriptive property and that can be used to narrow the reference of a noun.

This definition makes use of the comparative concept 'lexeme' and the conceptual-semantic concepts 'property' and 'narrow the reference' (the latter is necessary to

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5 All seven examples concern concepts that include a meaning element in their definition. However, morphosyntactic typology also widely uses comparative concepts in whose definition meaning plays no role: word, affix, phrase, clitic, etc. Everything I say about comparative concepts applies to them as well (as it does to phonological comparative concepts), but I do not discuss them here because the illustration would be even more complex, and I am less certain of their actual usefulness for typology (cf. Haspelmath 2009 for serious doubts concerning the notion 'word').

6 This generalization has been called into question by Dryer (1988, 1992, 2005a). This is irrelevant for this paper, because my purpose is merely to explain how comparative concepts function in typology. If Greenberg and Dryer had not assumed this sense of the term adjective (as a comparative concept), neither the formulation of the generalization nor its refutation would have been possible.
exclude words like size and beauty, which denote properties, but are not normally used to modify a noun).

Importantly, it is irrelevant for this definition whether a language has a separate word class that would be called "Adjective" (i.e. a descriptive category), or whether it uses its "Noun" or "Verb" categories to attribute properties to nominal referents. In the latter case, a Verb (= descriptive category) may be an adjective (= comparative concept) for the purposes of cross-linguistic comparison (cf. Dryer 2005a:354). Since descriptive categories and comparative concepts are different kinds of entities, there is no contradiction here. (There is a terminological problem, however, which I address in §6 below.)

5.2. Future tense

Tense-aspect concepts have also been widely compared across languages by typologists. Let us consider 'future tense'.

(5) Generalization: In all languages, markers of future tense are less bound than markers of present tense or past tense, or equally bound, but never more so. (Ultan 1978:91)

(6) Definition: A future tense is a grammatical marker associated with the verb that has future time reference as one prominent meaning.

This definition makes use of the conceptual-semantic concept 'future time reference' and the comparative concepts 'verb' (defined in a manner analogous to the definition of 'adjective' that we just saw) and 'grammatical marker' (to delimit future tenses from temporal adverbs like tomorrow). The vague qualifications "associated with" and "prominent" will have to be made more precise in one way or another to make the generalization truly testable.

What is important here is that the generalization in (5) cannot be formulated in purely conceptual-semantic terms, because it is not supposed to make claims about temporal adverbs or adverbial clauses. Moreover, future tenses are normally not synonymous across languages. For instance, the Spanish Future tense (e.g. vendrá 'will come') is also used to express probability, but not habituality (Butt & Benjamin 2000:213-216), while the Lezgian Future tense (e.g. qwe-da 'will come') is also used to express habituality, but not probability (Hapelpmath 1993:141-142). The generalization in (5) is intended to cover both forms, but clearly they cannot be "the same category" in any sense. They are different descriptive categories, but they both match the comparative concept in (6). Note that (6) does not require that future time reference is the primary sense of the form in question, and a form such as the Korean -keyss-form, which is called "Volitional Mood" (as a descriptive category) by Chang (1996:128-131), can also express future tense and thus falls under (6) and (5), even though volition and probability are its primary senses.

5.3. Question-word movement

Comparative concepts are not restricted to concepts which are the counterparts of (morpho-)syntactic categories. Comparative linguists compare entire constructions across languages using comparative concepts, for example 'question-word movement' (often called wh-movement even in languages where question words do not begin with wh-).
(7) Generalization: Question-word movement is always to the left (Hawkins 1999:273, Dryer 2005b).

(8) Definition: Question-word movement is a syntactic pattern in which a question-word (or question-word phrase) occurs in a special position in which its non-question-word counterpart would not normally occur.

This definition makes use of the general formal concept '(special) position', and the comparative concepts 'syntactic pattern', 'question word' and 'question-word phrase' (the latter two are defined immediately below in §5.4). Note that it contains no conceptual-semantic concept.

Importantly, no claim is made that question-word movement is a cross-linguistically uniform process. We know that it is not: In some languages, both content interrogatives and relative clauses undergo a similar movement process (e.g. in English, where both have been unified under the language-particular label Wh-movement), in others only content interrogatives do, and in yet others a good case can be made that there is a general focus fronting rule that applies to question-word phrases and to focused non-question-word phrases alike. Thus, the fronting rules in these languages are all different descriptive categories, but they all fall under the comparative concept in (8).

5.4. QUESTION WORD

For a full understanding of 'question-word movement', we still need to define 'question word' (often called wh-word) as a comparative concept:

(9) Definition: A question word is a word that can be used as a question pronoun (or adverb), i.e. to represent the questioned content in a content question.

As in the case of the future tense, the definition does not assume that question words are restricted to the use as question pronouns, and this use does not even have to be their primary use. In many languages, question words are also used as indefinite pronouns (Haskemath 1997:§7.3, Bhat 2000) or as relative pronouns, and the question use may not even be more prominent than other uses. Such pronouns have therefore sometimes been called ignoratives (Wierzbicka 1980: ch. 8) or epistememes (Mushin 1995). But the only meaning that is universally available to what we call question words is the question-pronoun use, so this is the decisive criterion in the definition of the comparative concept in (9). Again, we can say without contradiction that in a certain language an epistememe (= descriptive category) is a question word (= comparative concept).

5.5. RELATIVE CLAUSE

Another comparative concept type that has figured prominently in cross-linguistic studies is 'relative clause'.

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7 It is true that abstract analyses are possible in which they are all the same process (e.g. move alpha, Chomsky 1981:ch.6), but such abstract analyses are very hard to test. Here I focus on cross-linguistic generalizations that are readily testable.

8 ‘Question-word phrase’ is simply defined as ‘a phrase that contains a question word’.
(10) Generalization: If the relative clause precedes the noun either as the only construction or as an alternate construction, either the language is postpositional, or the adjective precedes the noun or both (Greenberg 1963, universal 24).

(11) Definition: A relative clause is a clause that is used to narrow the reference of a referential phrase and in which the referent of the phrase plays a semantic role.

This definition is very similar to the definition in Keenan & Comrie's (1977) influential article on the typology of relative clauses. But while Keenan & Comrie (1977:63) consider it "an essentially semantically based definition", I emphasize here that it is a comparative concept that not only contains conceptual-semantic components such as 'narrow the reference', 'semantic role', but also the formal concept 'clause' (itself a comparative concept). This concept is necessary to delimit relative clauses from attributive adjectives in languages like English, and from possessors, which are semantically like relative clauses, but are not clauses.

As in the earlier examples, a construction does not have to be a relative clause in a particular language to qualify as a relative clause for the purposes of cross-linguistic studies. Thus, Comrie & Horie (1995) and Comrie (1998), following Matsumoto (1988, 1997), argue that Japanese clauses such as (12a) instantiate the same construction as in (12b) and (12c).

(12)a. *gakusei ga katta hon*
   [student NOM bought] book
   'the book that the student bought'

b. *gakusei ga hon o katta zizitu*
   [student NOM book ACC bought] fact
   'the fact that the student bought the book'

c. *dareka ga doa o tataku oto*
   [someone NOM door ACC knock] sound
   'the sound of someone knocking at the door'

Matsumoto’s and Comrie’s "Noun-Modifying Construction" is thus a descriptive category within Japanese. Japanese has no category that closely corresponds to the descriptive category of Relative Clauses in English, but for cross-linguistic studies of relative clauses, the construction in (12a) can be taken as a relative clause (in the comparative sense, cf. Comrie & Kuteva 2005).

5.6. Reflexive pronoun

Reflexive pronouns are preferred in direct-object function (e.g. She saw herself) and are used less commonly in adnominal possessive function (cf. *She saw herself's son*). This can be expressed as a universal generalization:

(13) Generalization: If a language uses a reflexive pronoun for an adnominal possessor that is coreferential with the subject, then it also uses a reflexive pronoun for a subject-coreferential direct object (Haspelmath 2008b).
(14) Definition: A reflexive pronoun is a specialized anaphoric expression with a coreferential reading that can only be used in the same clause as the antecedent.

The definition of 'reflexive pronoun' thus has both a semantic ('anaphoric') and a formal ('in the same clause') component. The definition mentions only part of the usual properties of reflexive pronouns and is silent about the c-command requirement for the antecedent, subject orientation, and the distinction between local and long-distance reflexives. Few languages will have a descriptive category that corresponds exactly to (14), but for some typological purposes this definition is sufficient.

5.7. ERGATIVE CASE

(15) Generalization: In all languages with an ergative case, it has at least some overt allomorphs (cf. Dixon 1979:§2.3).

(16) Definition: An ergative case is a morphological marker that has among its functions the coding of the agent of typical transitive clauses, when this is coded differently from the single argument of intransitive clauses.

In most languages with cases that match the definition in (16), they are called ergative, but it is not possible to equate them across languages, because they may have quite a few additional functions as well (instrumental, locative, possessive, general oblique, cf. Dixon 1994:57). Within each language, there may well be reasons to regard the case not as polysemous, but as having a general meaning that happens to comprise the meaning of the transitive agent. In some languages, the corresponding descriptive category is traditionally known by a different name (Narrative case in Georgian, Relative case in Eskimo). Note also that the generalization in (15) and the definition in (16) are neutral with respect to the competing analyses of split ergative systems: Dixon's, according to which languages like Dyirbal have an ergative-absolutive case system coexisting with a nominative-absolutive case system (in the 1st and 2nd person pronouns), and Goddard's (1982), according to which such languages have a tripartite ('ergative-accusative-nominative') system. On the latter analysis, "Ergative" has a different meaning as a descriptive category, but the comparative concept and the generalization are not affected.

5.8. SUMMARY

Comparative concepts are concepts created by comparative linguists for the purpose of formulating readily testable cross-linguistic generalizations (such as those in (3), (5), (7), etc.). They are potentially applicable to any human language. Their definitions contain other universally applicable concepts of three kinds: universal conceptual-semantic concepts, general formal concepts (such as 'precede', 'overt'), and other (more primitive) comparative concepts.

Comparative concepts allow linguists to identify comparable grammatical phenomena in different languages, but by identifying a phenomenon in a particular language as a match of a comparative concept, nothing is claimed about the way in which that phenomenon should be analyzed within the language (what kind of
descriptive category should be used for it). Comparative concepts and descriptive categories are quite different kinds of entities that should not be confused (for more on the differences, see §9).

6. TERMINOLOGY: WHAT TO CALL COMPARATIVE CONCEPTS AND DESCRIPTIVE CATEGORIES

If there were a limited set of cross-linguistic categories from which languages choose, the terminological aspect of cross-linguistic research would be easy: We would simply have to settle on a unique term for each cross-linguistic category or feature. Since the cross-linguistic categories would be used by descriptivists, generalists and typologists alike, these could all use the same terms.

But with the distinction between comparative concepts and descriptive categories that is proposed here as an alternative, terminology becomes a serious issue, because the entities that need to be named are multiplied: comparative concepts are linguist-specific (in the sense that every linguist is free to define her or his own concepts), and descriptive categories are language-particular.

Sometimes descriptive categories have been identified by arbitrary numbers ("case 3"), and another possibility is to simply name a category after its exponent (e.g. the -ing-form in English, Quirk et al. 1985:92). But generally linguists prefer transparent names that make it easier to remember them, and language-particular labels that are very similar to the corresponding comparative concepts clearly facilitate communication among specialists of different languages. Since the 1980s, another convention for descriptive categories has gained some ground, especially among typologists who want to contrast descriptive categories with comparative concepts. Following Comrie (1976:10), Bybee (1985:141), and Dahl (1985:34), grammatical labels with an initial capital refer to language-particular descriptive categories (e.g. "the Russian Perfective aspect", "the Spanish Imperfect tense"), while ordinary lower-case spelling is used for comparative concepts. This makes sense because descriptive categories are akin to proper names in that they refer to unique entities (one can never say that a category is "an Imperfect", just as one can never say that a city is "a Warsaw"). Croft (2001:50) proposes to extend this convention to syntactic categories (e.g. "the Kutenai Verb") and constructions (e.g. "the Tagalog Actor Focus", "the English Relative Clause"), which are just as language-particular as the tense and aspect forms discussed by Comrie, Bybee, and Dahl. While the practice of capitalizing descriptive categories is not very widespread yet, it has occasionally been adopted in reference grammars (e.g. Haspelmath 1993, Maslova 2003). As the reader may have noticed, this practice has also been adopted in this paper, e.g. in the examples in §3.

No specific terminological convention is proposed for (linguist-specific) comparative concepts here. It might in general be good to adopt more semantic terms (e.g. possessor instead of genitive, irrealis instead of subjunctive, coreferential instead of reflexive), but this is not a general solution, because as we saw, comparative concepts are by no means always or even typically purely semantic concepts. Typologists normally use the same kinds of terms that are used in grammars of particular languages, and although this can give rise to misunderstandings, it seems unavoidable because we want the terminology to be transparent.
7. Earlier Approaches to Comparison of Grammars

A reviewer questioned whether the ideas presented in this paper were new, so it is useful to briefly recapitulate the history of comparative grammatical research from the point of view of comparative concepts. In this section, I show that with very few exceptions, the approach described here has not been articulated before, even though it has often been practiced, especially since Greenberg (1963).

7.1. 19th Century Linguistics

The idea that grammatical categories exist independently of particular languages and that different languages may have (some of) the same categories has a long history, going back at least to the 17th-18th century approach known as grammaire générale. The earliest large-scale typological studies, such as Humboldt (1830) on the dual, Gabelentz (1861) on the passive, and de la Grasserie (1896) on the article, do not show any awareness of the distinction between language-particular categories and comparative concepts. Just as language descriptions at the time tended to work with the categories inherited from Latin and Greek grammar, typology also worked with these categories. That each language has its own categories was an insight of the early 20th century, both among Boasian descriptivists and Saussurean generalists. However, as we saw in §4, the structuralists of the first half of the 20th century were not much concerned with cross-linguistic studies (with some exceptions such as Hjelmslev and Trubetzkoy).

7.2. Generative Linguistics

It was only in the 1960s that many general linguists became seriously interested in typological comparison again, especially under the influence of Greenberg (1963) and Chomsky (1965). Greenberg and his students worked with comparative concepts as conceived of in this paper, but they did not worry much about their relation to the descriptive categories of individual languages. Chomsky (1965), a work that became even more influential in the field, explicitly espoused categorial universalism: categories (or their more elementary components, features) are universal in the sense that they are part of the innate Universal Grammar. In the Chomskyan approach, individual languages need not instantiate all categories of UG, but every category of a particular language is an instantiation of a category of UG. Of course, over the decades the categories that are actually assumed to be universal have varied (and as in generative phonology, the morphosyntactic categories have often been decomposed into more abstract features), but the basic assumptions have remained remarkably constant.

The generative universalist position on categories, which has been dominant since the 1960s, has a very simple view of categories: There is only one set of them, and they are used by descriptivists, generalists, and typologists alike. Sometimes a distinction is made between "pretheoretical" or "descriptive" concepts on the one hand, and "theoretical" concepts on the other hand, but only the "theoretical" concepts are taken seriously. These are used both for language-particular analysis and for language comparison. These cross-linguistic categories thus conflate descriptive categories and comparative concepts, as understood in this paper.9

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9 This generative view has been adopted without further discussion by the knowledge-engineering proposals known as "General Ontology for Linguistic Description" (Farrar & Langendoen 2003, http://linguistics-ontology.org). The conclusions of this paper would argue for a reassessment of these proposals.
In practice, however, this creates considerable difficulties, because there is no agreement on what the cross-linguistic categories are, and on how individual languages should be analyzed in their terms. (Recall that I observed earlier, in §3, that category-assignment controversies cannot be resolved because there is no principled basis for choosing the relevant criteria.) Yet in the generative approach, analyses of individual languages in terms of cross-linguistic categories are a prerequisite for doing typology:

"Assigning category membership is often no easy task... Is Inflection the head of the category Sentence, thus transforming the latter into a[n] Inflection Phrase (IP)? ... Is every Noun Phrase dominated by a Determiner Phrase (DP)? ... There are no settled answers to these questions. Given the fact that we are unsure precisely what the inventory of categories for any language is, it is clearly premature to make sweeping claims..." (Newmeyer 1998: 338)

But as long as we know what the facts are and how the comparative concepts should be applied, we can leave questions such as these aside and do typology anyway. And for a Boasian/Saussurean typologist or grammar writer, questions such as these would not even make sense, because categories like IP and DP are not assumed to be universal to begin with.

If the Principles and Parameters program were leading to an increasingly clear view of what the universal categories and parameters are, the universalist approach would gain plausibility, despite arguments such as Dryer's and Croft's that cross-linguistic formal categories cannot be identified in principle. But as both critics and advocates of the Chomskyan approach have noted (e.g. Newmeyer 2004, 2005:§3.2, Tomasello 2005:§3, Baker 2008:352), the Principles and Parameters program has not led to an increasingly clear picture of the substantive and formal universals of Universal Grammar (cf. also Haspelmath 2008a).

It seems to me that the conflation of descriptive categories and comparative concepts in presumed "cross-linguistic categories" has made it very difficult for generative linguists to engage in broad cross-linguistic studies. On the generative view, language-particular analysis is not possible without a clear picture of UG, and language comparison is not possible without a thorough analysis of the languages that are compared. But our picture of UG has remained murky, and all our language-particular analyses are very preliminary. As a result, virtually all major large-scale cross-linguistic studies of the last two decades (e.g. almost all the chapters of The World Atlas of Language Structures, Haspelmath, Dryer, Gil and Comrie (eds.) 2005) have been carried out in the context of the Greenbergian approach, using comparative concepts. Generative linguists have hardly contributed to broadly comparative studies, limiting themselves mostly to "one language at a time" comparisons (Croft 2009). And those large-scale cross-linguistic studies that were carried out by generativists (e.g. Cinque 1999, Julien 2002, Gianollo et al. 2008) have in practice used comparative concepts, rather than cross-linguistic categories whose instantiations in individual languages are well-motivated. To the extent that the large-scale cross-linguistic work has been fruitful, it argues for the approach that is advocated here.

7.3. OTHER TYPOLOGICAL APPROACHES

Outside of generative linguistics, there is usually no explicit claim that categories can be equated across languages, i.e. that the same categories can be used both for typology and language-particular description/analysis. However, typologists often ignore the distinction between language-particular descriptive categories and cross-linguistically applicable comparative concepts. In textbooks like Payne (1997),
Whaley (1997) and Tallerman (1998), in prominent studies of particular phenomena such as Diessel (1999) and Corbett (2000), and in entire approaches such as the St. Petersburg school of typology (Nedjalkov & Litvinov 1995), Role and Reference Grammar (Van Valin 2005), and Functional Discourse Grammar (Hengeveld & Mackenzie 2008), the issue is simply left aside.

Other typologists have emphasized the fact that cross-linguistic work must be based on conceptual-semantic, or more generally functional comparative concepts (Stassen 1985:14, Croft 1990:11-12, Heger 1990/91, Givón 2001:20-23, Haspelmath 2007). This view recognizes that language-particular categories can be highly diverse, but it locates typological diversity exclusively in the simple mapping of form and function. It would thus not be capable of delving deeper into the typology of ergative constructions, relative clauses, question-word movement constructions, etc., i.e. phenomena which cannot be defined in exclusively semantic or functional terms (cf. §3, and Rijkhoff 2009, to appear).

But there is also a group of non-generative typologists that have explicitly claimed that the categories used for description and comparison are the same. Most clearly, Lehmann (1989:142) formulates the following principle:

"Describe your language in such a way that the maxim of your description could serve, at the same time, as the principle of general comparative grammar – and, thus, as the maxim of description of any other language."

According to Lehmann (1989:142), "the description of a specific language is a concretization of general comparative grammar", so in these formulations, his "general comparative grammar" seems to come close to Chomskyan universal grammar. Similarly, Dahl (1985:31) claims that "the overwhelming majority of all categories found in the [Tense-Mood-Aspect] systems of the world’s languages are chosen from a restricted set of category types", and in this result he sees as "refutation of the relativist view that 'every language must be described in its own terms'" (Dahl 1985:32, cf. also Bybee & Dahl 1989:52-53).

Yet another approach to the comparison of grammatical patterns involves cross-linguistic prototypes, as in Keenan's (1976) article on the notion of subject. Keenan was specifically concerned with providing a cross-linguistically applicable definition of "subject" for the purpose of formulating testable universal generalizations, and he listed over 30 subject properties, proposing that the NP with the greatest number of subject properties is the subject (of a semantically basic sentence). What Keenan's approach shares with my proposals is the concern with rigorous cross-linguistically applicable definitions of comparative concepts, but he says nothing about language-particular analysis, apparently implying that his subject concept should also be used for analyzing individual languages (cf. also Comrie 1988, Givón 1995:ch. 6). But as Dryer (1997:§7) notes, grammatical relations in individual languages are usually quite discrete, and the apparent need for fuzzy prototype concepts arises only when one wants to compare languages. In definitions of comparative concepts, Keenan-style multi-factor lists are in principle acceptable, but Keenan seems to have based his list on a few languages he happened to know well, not on any empirically observed clustering of properties.10 In general, comparative concepts based on fewer factors seem to have greater chances of leading to deeper insights.

10 By contrast, Dahl's (1985) and Bybee et al.'s (1994) category types (or "gram types") are derived from empirical cross-linguistic observations (like Lazard's 1992 "focal notions"). And these authors do not claim that language-particular categories are nothing more than instantiations of the cross-linguistic types. Bybee et al. (1994:148-149) are quite explicit about this, citing an analogy from phonology: "to say that a language has a voiceless dental stop does not by any means exhaust the descriptive possibilities or capture the native speaker's command of such an element. From language to language
Another multi-factor approach to the definition of comparative concepts is Corbett's "Canonical Typology", where one "define[s] the canonical or best [= clearest, indisputable] instance, through a set of converging criteria, and use[s] this point in theoretical space to locate the various occurring types" (Corbett 2007:8). Like Keenan, Corbett makes it quite clear that his canonical concepts are specifically designed for typological comparison and are quite different from language-particular categories. However, canonical definitions are designed primarily to help us understand how different comparative concepts used by different linguists relate to each other (cf. Corbett 2005:31: "The canonical approach allows us to clarify some of the conceptual problems and misunderstandings that characterize the problem of agreement"). They do not directly help us draw the line between different phenomena to test universal claims, but when we need to draw a line (as in typological databases such as the Surrey Morphology group’s online databases), users "can be aware how the data relate to their own conceptions and analyses of the area" (Corbett 2005:21). The canonical approach is thus a kind of meta-typology that is fully compatible with everything I say here, but the crucial distinction between descriptive categories and comparative concepts is not made explicit in Corbett’s work.

A clear distinction between descriptive categories and comparative concepts along the lines advocated here is drawn by Huddleston & Pullum (2002:31-33). They note that grammatical labels such as ‘noun’, ‘preterite’, and ‘imperative’ are often used simultaneously at the “language-particular level” and at the “general level”, and they insist that “the levels need to be distinguished, and approached differently”. Language-particular categories are defined formally, whereas general-level concepts may contain semantic elements (cf. Lyons 1966 for similar ideas that influenced Huddleston). However, these authors do not propose the distinction as a solution to the problem of cross-linguistic comparison (which they are not concerned with), and they do not consider the possibility of general-level concepts without direct counterparts at the language-particular level or vice versa. Lazard’s (2005, 2006) approach is even closer to mine in that he not only focuses on the differences between similar descriptive categories across languages ("we cannot use linguistic categories [as a standard for typological comparison] because they are language-specific", Lazard 2005:7), but also regards comparative concepts as a different sort of thing. He proposes that as a point of departure for their research, typologists should use “arbitrary conceptual frameworks”, clearly and explicitly defined concepts which are ultimately based on linguists’ intuitions (e.g. “major biactant construction” in the definition of transitivity, Lazard 2002). These are more or less what I have called comparative concepts, the important point being that the comparative concepts are different from language-specific categories, and that they are "tools for research, not hypotheses susceptible of being verified or falsified" (Lazard 2005:8). A recent paper that follows Lazard and similarly argues for a distinction between "emic" descriptive categories and "etic" comparative concepts is Reesink (2008).

In my own research, I came to feel the need for a clear distinction between comparative concepts and descriptive categories when I got involved in the Atlas of Pidgin and Creole Language Structures (Michaelis et al. to appear). This project is similar to the World Atlas of Language Structures, but the data on the 70 odd languages do not come from published sources, but are being provided by language experts on the basis of a questionnaire. The editors had to make it clear repeatedly that the comparative concepts used in the definitions of the features should not be

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we find important differences..." Thus, in practice this approach is quite similar to mine, and Dahl (1985:34) even makes a notational distinction between category types and language-specific categories.
equated with the language-particular descriptive categories that the contributors were used to working with. Thus, it is when language experts and typologists work together directly that the need to distinguish the two kinds of grammatical notions becomes clearest.

8. CHOOSING THE BEST COMPARATIVE CONCEPTS

As I said earlier, comparative concepts are defined by typologists in such a way that they allow them to capture interesting generalizations, or simply salient different language types. Thus, comparative concepts cannot be right or wrong, at least not in the same sense that innate cross-linguistic categories can be right or wrong. They can only be more or less productive, in that they allow the formulation of more or less interesting subdivisions and generalizations.

For example, Mel’čuk (1988) defines "ergative case" in such a way that the Dyirbal case for transitive subjects is not an ergative, but an instrumental (because coding the transitive agent is not its main function). Mel’čuk’s point is to show that case expression, clausal case-marking patterns and overall syntactic organization do not always coincide, and his concepts are thoroughly defined and motivated. However, this definition does not allow him to formulate the generalization in (15). Thus, Dixon’s definition and Mel’čuk’s definition are both well-motivated while both have their limitations, and they do not contradict each other at all. It would make no sense to claim that one or the other is the "right" or even the "best" definition of the term. (In practice, of course, some definitions have more success than others because they turn out to be more useful for more linguists.)

Another example is tense. A possible generalization about tense is (17) (cf. Tonhauser 2008:340, who comes close to making the claim that it is true). In order to test it, we need a cross-linguistically applicable definition of 'tense (marker)'. Two such definitions are given in (18a-b).

(17) Generalization: Tense markers only occur on verbs; they do not occur on nouns in any language.

(18) a. Definition: A tense marker is a marker that affects the temporal interpretation of its host.

b. Definition: A tense marker is a marker that occurs as part of a grammatical paradigm, whose occurrence does not depend on the meaning of its host, that encodes a temporal relation between the host time and utterance time (deictic tense) or another contextually given time (relative tense), that does not encode a state change, and that expresses a temporal meaning that may be anaphorically resolved in discourse.

The two definitions in (18a) and (18b) are two different comparative concepts proposed by different linguists. (18a) is the tense concept used by Nordlinger & Sadler (2004, 2008), and (18b) is the tense concept used by Tonhauser (2007, 2008:337-338). Since they work with different comparative concepts, it is not surprising that they come to different conclusions: While Nordlinger & Sadler show that tense on nouns (in sense 18a) is attested widely, e.g. in Guaraní, and hence (17) is wrong, Tonhauser shows that tense on nouns (in sense 18b) does not occur in Guaraní, so that (17) may well be true. Thus, the apparent controversy about the truth of (17) is
in fact a controversy about the usefulness of different definitions of the term 'tense marker'. But Nordlinger & Sadler and Tonhauser fail to fully understand the source of their disagreements because both parties seem to assume that 'tense' is a cross-linguistic category. According to Nordlinger & Sadler (2008:328), "(t)he difference between the two positions amounts to whether or not it is appropriate to consider these nominal temporal markers to be instances of the morphosyntactic category of tense". They cannot give a justification for their view of how 'tense' should be defined, and more generally, they ask, but cannot answer, the question: "(W)hen confronted with unfamiliar or previously undescribed linguistic phenomena, how do we know when to establish a new category to account for it [as done by Tonhauser, who regards the Guaraní markers are being "in a category of their own"], and when to redefine an existing one [as done by Nordlinger & Sadler]?" (p. 329).

Given categorial universalism, this question is inevitable but unanswerable, whereas on categorial particularism, it does not arise: When confronted with a previously undescribed phenomenon, we create a descriptive category for it, and if we want to compare it with other phenomena, we adjust our comparative concepts in such a way as to arrive at the most insightful comparisons and the most interesting generalizations.

Tonhauser's (2008:334-337) defense of her definition amounts to the observation that her narrower definition allows more interesting cross-linguistic generalizations to be stated, and certainly it would be nice if we could maintain the strong claim in (17) rather than having to abandon it. On the other hand, Nordlinger & Sadler's broader definition allowed them to cast their net wide and bring together a fair number of phenomena that had previously not come to linguists' attention. Thus, both comparative concepts have proved productive, and on the present approach, the apparent conflict between the authors simply dissolves.

A reviewer suggests that a laissez-faire approach to comparative concepts is misguided, and that "ultimately we want the best set" of comparative concepts. However, since the choice of comparative concepts depends on one's goals, and comparative linguists will always have a multiplicity of goals, there will never be a single ("standard") list of such concepts.

9. COMPARATIVE CONCEPTS ARE NOT LINGUISTIC CATEGORIES

I make a terminological distinction between comparative CONCEPTS and descriptive CATEGORIES in order to emphasize that there is no taxonomic relationship between them. Thus, it is not only the case that the Eskimo Relative case is a manifestation of the same cross-linguistic category "ergative" (cf. §5.7 above). It cannot even be said to instantiate a higher-level "category type" (cf. Dahl 1985:31), in the sense of a more abstract category of language structure that abstracts away from language-particular idiosyncrasies. Comparative concepts are motivated and defined in a way that is quite independent of linguistic categories (though of course not independent of the facts of languages).

A reviewer who professes to be an "ardent categorial particularist" nevertheless says that she or he "expects it to be the very job of typologists and theorists to make generalizations about the very things that show up as language-specific categories of finite verbs, relative clauses, etc., in different languages." But comparative concepts often cross-cut linguistic categories. The Eskimo Relative case is used both for agents of transitive clauses and for adnominal possessors, and since there are other structural similarities between clauses and noun phrases, specialists do not regard this as a coincidence (cf. Woodbury 1985). A typologist who sees an "ergative case"
here sees something quite different from the language expert. Similarly, property
words and action words both belong to the same word class in Lao (Enfield 2004). A
typologist who sees “adjectives” in the property words takes a perspective that is not
the language expert’s perspective.

It is thus not helpful to think of the Eskimo Relative case as “a kind of ergative
case”, or of the Japanese Noun-Modifying Construction (§5.5) as “a kind of relative
clause”, or of English Wh-movement (§5.3) as “a kind of question-word movement”. These
language-particular categories not only have properties that are much more
specific than the related comparative concept, but are also additionally used in ways
that are quite incompatible with the definition of the comparative concept. The
Eskimo Relative case would also be “a kind of genitive case”, English Wh-movement
would also be "a kind of relative-pronoun movement", and so on. Every linguistic
category would instantiate a multiplicity of more abstract "comparative categories",
and a “comparative category” could be instantiated multiple times in a single
language. With such rampant many-to-many relationships, a taxonomic
conceptualization, while logically possible, only obscures matters. Comparative
concepts are simply a different kind of general notion than linguistic categories.

In practice, typologists do not generalize over the categories of languages, but
over properties of languages that they identify regardless of the categories that
speakers seem to have internalized and that structural analysis reveals. One
occasionally hears complaints about this practice from structurally
minded linguists, exemplified by Matthews (1997:199):

“One cannot just look casually at English and French and say that, because, for example,
je l’aime translates I love him, or à moi translates to me, both languages ‘have’ a distinction
between subjective and objective. For a careful study of either system might establish
that these elements do not stand in a bilateral opposition.”

Matthews simply presupposes that “the basis for comparison lies in the initial
structural analysis of each particular system” (1997:199), but this is not how typology
works. In fact, it cannot work this way because systems are language-particular and
do not lend themselves to comparison in an obvious way. Comparative linguists are
willing, and indeed forced, to disregard the structural coherence of language-
particular systems, and just focus on the properties that they see through the lens of
their comparative concepts.

If one assumes that the explanation of language structure must come from the
way language-particular categories and systems are arranged (whether the
categories and architectures are innate or not), then it would indeed be very
surprising if a typological approach that is oblivious to these matters could succeed.
But on a functionalist approach (cf. Dryer 1997), there is no problem, because
universal properties of languages are expected to mirror universal functional
pressures, not universal categories. We know independently that linguistic
categories stand in a very indirect relationship to functional motivations.

The independence of comparative concepts from structural systems is not unique
to linguistics, but is characteristic of all cross-group comparison in the social
sciences. When we compare wedding dresses across cultures (Foster and Johnson
2003), for example, we will find some widely attested patterns that will be related to
the universal functional pressures of marriage, but not necessarily to the (“emic”)
culture-specific conceptualization that can be attributed to the mental representation
of culture members and/or that would be found by structural anthropological
analysis. Similarly, in comparative law studies, “comparative concepts enable us to
compare legal rules belonging to different legal systems. Examples of comparative
concepts are 'adoption' and 'unjust enrichment', which refer to legal rules within different systems" (van Baer 1998).

Thus, saying that typologists do not generalize over linguistic categories implies that typology and language-particular analysis are more distinct enterprises than many linguists seem to think (cf. also Haspelmath 2004). Both need each other's research results, but both work with theoretical tools that the other can largely disregard.

10. CONCLUSION

In this paper I have shown how cross-linguistic comparison is possible if one adopts the position of categorial particularism, i.e. that grammatical categories cannot be equated across languages. Each language has its own categories because the criteria by which the categories are defined (or recognized by learners) are themselves language-particular. A language-particular category set up by a linguist to account for observed speaker behavior is called a descriptive category. Comparative linguists create comparative concepts against which the descriptive categories of particular languages can be matched. These comparative concepts must be universally applicable, i.e. they must be based exclusively on more primitive universally applicable concepts: universal conceptual-semantic concepts, general formal concepts, and other comparative concepts (or on extralinguistic situations). This approach has been widely practiced by comparative linguists working in the Greenbergian tradition, even though not all of them have explicitly adopted categorial particularism and the distinction between descriptive categories and comparative concept has generally been implicit.

This is very different from the categorial universalism that has been very widely adopted since the 1960s. In the generative approach, it is assumed that the categories (or features) in different languages can be equated, and linguists work with a set of cross-linguistic categories. This would seem to make language comparison more straightforward, but in fact the opposite is the case. On the categorial universalist view, language-particular analysis is not possible without a clear picture of UG, and language comparison is not possible without a thorough analysis of the languages that are compared. Thus, linguists who work with cross-linguistic categories rarely study larger language samples, and the great majority of testable empirical universals (like those listed in §5, and like the over 2,000 universals in The Universals Archive11) have been discovered by linguists who work with comparative concepts as described here.

On the approach defended here, analysts of particular languages do not depend on the theoretical results of typologists, and typologists do not directly compare the theoretical results (i.e. the categories and rules of languages) obtained by language analysts. The analysis of particular languages and the comparison of languages are thus independent of each other as theoretical enterprises. But as the practice of fruitful interaction among typologists and descriptive linguists shows, in practical terms these two kinds of approaches are just part of a larger, coherent endeavor, that of documenting and understanding linguistic diversity.

11 http://typo.uni-konstanz.de/archive
REFERENCES


WALS = *The world atlas of language structures* (see Haspelmath, Dryer, Gil and Comrie (eds.) 2005)


