

II

Language typology and syntactic description

Complex constructions

Edited by Timothy Shopen

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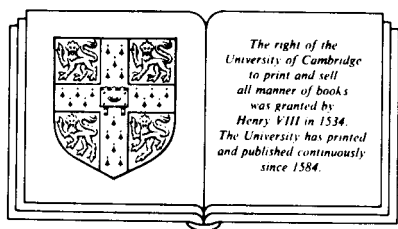
Volume II

Complex constructions

Edited by

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Acknowledgements

This work began at a conference on field work questionnaires initiated by Rudolph Troike at the Center for Applied Linguistics (CAL). The participants agreed that the best way to prepare for field work is to develop an idea of what to look for, and this led to the idea of a typological survey that could serve as a reference manual and a textbook for students.

Many people have helped us in the work that we now present. I will name only a few here. Rudolph Troike and John Hammer of CAL, and Alan Bell of the National Science Foundation did much to help in the organization of the project, and the National Science Foundation provided generous financial support without which the work would not have been possible. Diana Riehl of CAL was a reliable and capable intermediary in the complex administration of the project. Carmen Silva-Corvalan and Sandra Thompson deserve special thanks for their work at UCLA, while here in Australia many people provided help. The Australian National University has been very generous in its support of my work. I am grateful to Penny Carter and Julia Harding of Cambridge University Press for the careful work in the production of our books. Three people that have been especially helpful to me in the final stages of the editing are Edith Bavin, Jean Harkins, and above all, Rosemary Butt. My thanks to all.

Timothy Shopen
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Abbreviations for grammatical terms

The following are abbreviations for grammatical terms used frequently in the glosses for example. Other abbreviations are explained as they are presented.

ABS	Absolutive	IO	Indirect object
ACC	Accusative	IRR	Irrrealis
ACT	Actor	LOC	Locative
AG	Agent	NOM	Nominative
ART	Article	NZN	Nominalization
ASP	Aspect	NZR	Nominalizer
ASSOC	Associative	OBJ	Object
AUX	Auxiliary	OBL	Oblique
BEN	Benefactive	PART	Participle
CL	Classifier	PASS	Passive
COMP	Complementizer	PCL	Particle
COMPL	Completive	PERF	Perfective
COND	Conditional	PL	Plural
DAT	Dative	PREP	Preposition
DECLAR	Declarative	PRES	Present
DEF	Definite	PRO	Pro form
DEM	Demonstrative	PROG	Progressive
DET	Determiner	Q	Question marker
DO	Direct object	REFL	Reflexive
DU	Dual	REL	Relativizer
EMPH	Emphasis	RPRO	Relative pronoun
ERG	Ergative	SG	Singular
FUT	Future	SJNCT	Subjunctive
GEN	Genitive	SUBJ	Subject
HABIT	Habitual	TNS	Tense
IMP	Imperative	TOP	Topic
IMPERS	Impersonal	VN	Verbal noun
INCOMPL	Incompletive	1	First person
INDIC	Indicative	2	Second person
INF	Infinitive	3	Third person
INSTR	Instrumental		

Contents

<i>Acknowledgements</i>	ix
<i>Abbreviations for grammatical terms</i>	x
<i>Introduction</i>	1

1 Complex phrases and complex sentences

JOHN R. PAYNE

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0 Preliminaries	3
0.1 Types of co-ordination	3
0.2 A putative category hierarchy	5
1 Marked forms of conjunction	6
1.1 The feature 'adversative'	6
1.2 Phrasal adversatives	12
1.3 The feature 'separate'	17
1.4 The feature 'emphatic'	22
1.5 Further marked forms of co-ordination	23
2 Unmarked forms of co-ordination	25
2.1 Unmarked conjunction	25
2.2 Presection	37
2.3 Postsection	37
2.4 Disjunction	39
2.5 Rejection	40

2 Complementation

MICHAEL NOONAN

California State University, Los Angeles

0 Introduction	42
1 The morphology of complements	43
1.1 Complement types	43
1.2 Complementizers	44
1.3 The morphology of complement types	49

2.0	The syntax of complementation	64
2.1	Equi-deletion	65
2.2	Raised arguments	68
2.3	Incorporation of reduced complements into the matrix	73
2.4	Parataxis and serialization	76
2.5	Distribution of complements within sentences	82
2.6	Sequence of tense/mood restrictions	88
2.7	Negative raising	90
3.0	The semantics of complementation	90
3.1	The semantics of complement types	91
3.2	The classes of complement-taking predicates	110
4	Complement systems	133
5	A note on noun complementation	135
6	Obtaining information about complement systems	137
	Notes	138

3 Relative clauses

EDWARD L. KEENAN

University of California, Los Angeles

0	Introduction	141
1	Types of restrictive relative clauses	141
2	External (headed) relative clauses	143
2.1	Distribution	143
2.2	Position of the determiner	145
2.3	Marking the position relativized	146
2.4	Which NP positions can be relativized?	155
2.5	The form of S_{rel}	160
3	Internal relative clauses	161
4.0	Correlatives	163
4.1	Distribution of correlatives	164
4.2	Marking NP_{rel}	165
4.3	Marking NP_{ana}	167
4.4	Which positions may function as NP_{rel} ?	167
4.5	Language-internal distribution of correlatives	167
4.6	Marking S_{rel}	168
5	Conclusion: other relative-like structures	168

4 Adverbial clauses

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and

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PART I A TYPOLOGY OF ADVERBIAL CLAUSES

- 1 Introduction 171
- 2 Characterization of adverbial clauses 172
- 3.0 The types of adverbial subordinate clauses 177
- 3.1 Clauses that are substitutable for by a single word 178
- 3.2 Clauses not substitutable for by a single word 185
- 3.3 Summary 203
- 4 'Speech act' adverbial clauses 203
- 5 Borrowed subordinators 204
- 6 Summary and conclusions 205

PART II ADVERBIAL CLAUSES BEYOND THE SENTENCE

- 1 Introduction 206
- 2 Adverbial clauses and discourse movement 206
- 3 Cohesion between successive paragraphs 208
- 4.0 Cohesion within the paragraph 211
- 4.1 Linkage via adverbial clauses in sentence margins 212
- 4.2 Balanced or parallel clauses in successive sentences 225
- 4.3 Summary 226
- 4.4 Lexical overlap as conjunction 227
- 4.5 Lexical overlap as particle 228
- 4.6 Adverbial clauses as topics 229
- 5 Conclusion 232
- Notes 233

5 Sentences as combinations of clauses

ROBERT E. LONGACRE

University of Texas at Arlington

- 0 Introduction 235
- 1.0 Definitions and distinctions 235
- 1.1 Nucleus, base and margin 235
- 1.2 Coordinate and subordinate clauses 237
- 1.3 Co-ranking and chaining structures 238
- 1.4 Methods of cohesion 239
- 1.5 More complex structures 240
- 2.0 Notions that encode within sentence structure 241
- 2.1 Conjoining 241
- 2.2 Alternation 243
- 2.3 Temporality 243
- 2.4 Implication 244
- 2.5 Paraphrase 246
- 2.6 Illustration 247

2.7	Deixis	248
2.8	Attribution	249
2.9	Frustration	249
2.10	Organization of what follows	250
3	Co-ranking structures	251
3.1	English	251
3.2	Ibaloi (Philippines)	252
3.3	Chichahuaxtla Trique (Mexico)	259
4.0	Chaining structures	263
4.1	The distinctive features of clause chaining	264
4.2	The germinal notions and their development (in Papua New Guinea)	267
4.3	Relations superimposed over chaining (Wojokeso, Papua New Guinea)	269
4.4	Clause chaining in South America	277
4.5	The problem of the 'endless' sentence	282
5	Where sentence is not a separate level	283
6	Conclusion	284
	Notes	284
	<i>Bibliography</i>	287
	<i>Index</i>	299

Introduction

Complex constructions is the second of three volumes comprising the work *Language typology and syntactic description*. The first volume is *Clause structure* and the third is *Grammatical categories and the lexicon*. Our purpose has been to do a cross-linguistic survey of syntactic and morphological structure that can serve as a manual for field workers, and for anyone interested in relating observations about particular languages to a general theory of language.

There are five chapters in this volume. The first is by John Payne on complex phrases and complex sentences. He examines the notion of co-ordination in phrases, especially in noun phrases, and in sentences. He establishes a semantic typology for types of co-ordination and illustrates their use in a variety of languages.

The second chapter is by Michael Noonan on complementation. He looks at the morphology and syntax of complementation with concern for such notions as equi-deletion, raising, parataxis and serialization, with the view that a good deal in the form of complements follows from the semantics of the complement-taking predicate.

The third chapter is by Edward Keenan on relative clauses. He defines the major types of relative clauses and describes the ways in which various languages give formal realization to these types. Included in his discussion is concern for the interaction of relative clause formation and other syntactic operations.

The fourth chapter is by Sandra Thompson and Robert Longacre on adverbial clauses. They show that the meanings expressed in adverbial clauses can always be expressed in other ways, but are presented as they are for reasons of discourse structure. The first half of the chapter presents a typology of adverbial clauses and the second provides a set of notions for understanding the function of these clauses in discourse.

The last chapter of the volume is by Robert Longacre with the title 'Sentences as combinations of clauses'. Looking at complex sentences from this point of view he develops a typology for the way in which

various languages combine clauses into larger structures, with sketches of some representative languages.

Note: References to chapters in all three volumes of *Language typology and syntactic description* are preceded by the volume number. For example: chapter II.1 (chapter 1, this volume), chapter I.3 (chapter 3, Volume I).

1 Complex phrases and complex sentences

JOHN R. PAYNE

o Preliminaries

o.1 *Types of co-ordination*

All languages, seemingly without exception, possess strategies which permit various types of co-ordination to occur at the phrasal as well as the sentential level, thereby forming complex phrases of various grammatical categories.

From a logical point of view, it is possible to distinguish five basic co-ordination types which are realized linguistically both at phrasal and sentential levels: these are *conjunction* (p and q), *postsection* (p and not q), *presection* (not p and q), *disjunction* (p or q), and *rejection* (not p and not q; not ... p or q).

In most languages, postsection and presection are treated analytically as a combination of conjunction and negation, but rarely they may be realized by a distinct synthetic form. Similarly, rejection may be treated analytically as a combination of conjunction and negation, or of disjunction and negation; alternatively, there may be a distinct synthetic form, as with English *neither ... nor*. Other co-ordination types (like English *for*) occur only at the sentential level, and will not be considered in this chapter.

On the basis of this primarily logical division (though the logical connectives, of course, do not exhaust the meanings of the corresponding linguistic ones, particularly at phrasal levels when no sentential paraphrase is available), further semantic subdivisions may be made. The ones we shall adopt are in most cases similar to those suggested by Dik (1972:279). They may be expressed in feature form, with attribution of markedness (in the Praguean sense) to the plus-valued member: [\pm Adversative], [\pm Separate] and [\pm Emphatic]. Table 1.1 illustrates the most usual occurrences using adjectival co-ordinations from English.

The feature [\pm Adversative], which specifies whether or not the conjuncts are to be contrasted, subdivides all the basic types except disjunction, with which it appears to be incompatible. In general, the marked value is realized in English by the co-ordinating conjunction

Table 1.1 *Co-ordination types*

(i) Conjunction (p.q)	{ ±Adversative +Adversative: rich, but happy	{ ±Separate +Separate	{ ±Emphatic: rich, happy, and wise +Emphatic: rich, and happy, and wise ±Emphatic: both rich, happy, and wise +Emphatic: both rich, and happy, and wise
(ii) Postsection (p.q̄)	{ ±Adversative +Adversative: rich, but not happy	{ ±Separate +Separate	{ ±Emphatic: rich, happy, and not wise +Emphatic: rich, and happy, and not wise
(iii) Presection (p̄.q)	{ ±Adversative: +Adversative: not rich, but happy	{ ±Separate +Separate	{ ±Emphatic: not rich, happy, and wise +Emphatic: not rich, and happy, and wise
(iv) Disjunction (p.vq)	{ ±Separate +Separate	{ ±Separate +Separate	{ ±Emphatic: rich, happy, or wise +Emphatic: rich, or happy, or wise ±Emphatic: either rich, happy, or wise +Emphatic: either rich, or happy, or wise
(v) Rejection (p̄.q̄) = (p̄vq̄)	{ ±Adversative +Adversative: not rich, but not happy	{ ±Separate +Separate	{ ±Emphatic: neither rich, happy, nor wise +Emphatic: neither rich, nor happy, nor wise

but. While '[_{AP} rich *but* happy]' always has an adversative sense, the corresponding unmarked form '[_{AP} rich *and* happy]' may perhaps in context require an adversative reading, but is essentially vague.

The feature [±Separate], which specifies that emphasis is to be placed on the separateness of the conjuncts, and in the case of phrasal co-ordination implies the existence of a sentential paraphrase, is realized in English by the addition of *both* in the case of conjunction and *either* in the case of disjunction. While '[_{NP} *both* John *and* Mary] got married' always implies that John and Mary should be considered as separate individuals undertaking marriage (and therefore most probably not with each other), the corresponding unmarked '[_{NP} John *and* Mary] got married' is neutral and equally likely to imply a reciprocal inter-

pretation. The feature [+Separate] does not co-occur with the feature [+Adversative], as is evidenced by the impossibility of *'[_{AP} both rich but happy]'. In combination with negation, as in presection, postsection or rejection, it results in at least some degree of awkwardness or deviance. This deviance is particularly evident with NP co-ordinations: compare the acceptable '[_{NP} John and not Mary]' with the unacceptable *'[_{NP} both John and not Mary]'.

The feature [\pm Emphatic], which in its marked form specifies that the co-ordination itself is to be emphasized, is realized in English by the repetition of a co-ordinating conjunction between three or more conjuncts. Such repetition is clearly impossible with only two conjuncts, which provides an explanation for the incompatibility of the features [+Emphatic] and [+Adversative].

Whereas individual languages may lack the strategies which enable these marked forms of co-ordination to achieve distinct expression in any simple way, it can be predicted that all languages possess some strategy for each unmarked form, even if that strategy is merely simple juxtaposition of the conjuncts. Table 1.1 therefore presents a universal schema as far as the unmarked co-ordination types are concerned, and covers the marked types which are most likely to be found. Further marked types are found in isolated languages, and a survey of these is given in section 1.5. This section, I expect, is far from any pretension to completeness.

Corresponding to their theoretical status, the marked forms of co-ordination are discussed first, in section 1 of this chapter. Section 2 is then devoted to the unmarked realization of each basic type of co-ordination.

0.2 A putative category hierarchy

One major focus of concern in this chapter is the extent to which essentially sentential co-ordination strategies are permitted at phrasal levels. For example, English *and* is used ubiquitously to conjoin sentences ('[_S John left and Mary left]'), verb phrases ('John [_{VP} got up and left]'), adjectival phrases ('John is [_{AP} rich and famous]'), prepositional phrases ('John spoke [_{PP} to me and to Mary]') and noun phrases ('[_{NP} John and Mary] left') plus a variety of subphrasal categories. Such a pattern is widespread, recurring for example in French *et*, Welsh *a*, Russian *i* and Tagalog *at*, but is by no means universal. The Fijian conjunction *ka* for instance may conjoin sentences, verb phrases, adjectival phrases and prepositional phrases, but *not* noun phrases, where a distinct form *kei* is used (cf. section 2.1).

In general, the phrasal categories appear to form a hierarchy: S – VP –

AP – PP – NP. Individual strategies are used to cover contiguous categories, so that for instance Fijian *ka* covers the categories *s* to *PP*, and *kei* solely the category *NP*. It is claimed therefore that a language will not use one strategy for *s* and *NP* alone unless the intervening categories also permit the same strategy. Numerous examples of the operation of the hierarchy are given throughout the chapter.

To some extent the hierarchy itself is probably too weak a constraint on the possible forms of co-ordination at phrasal levels. Is there any language which uses one strategy for *s* and *VP* conjunction, a separate strategy for *AP* and *PP* conjunction, and yet a third strategy for *NP* conjunction? In general the patterns observed are the following: for postsection, presection, rejection and disjunction, and also for the marked co-ordination types [+Adversative] and [+Separate], the sentential strategy may be permitted at some or all phrasal levels, or none at all. The extent to which the sentential strategy 'reaches down' is subject to the category hierarchy. Unmarked conjunction may behave somewhat differently: because of the greater semantic discrepancies between phrasal (particularly *NP*) and sentential levels, phrasal strategies may arise independently of the sentential ones. A notable example of this is the frequent use of a comitative form for *NP* conjunction (independently of any comitative meaning). This strategy may then spread in the opposite direction 'up' the category hierarchy.

1 Marked forms of conjunction

1.1 The feature 'adversative'

Co-ordinations with the marked feature [+Adversative] differ from the unmarked ones by specifying that a contrast exists between the conjuncts, or between the implications of the conjuncts. The most general realization in English is with the co-ordinating conjunction *but*. Because of the very nature of contrast, the number of conjuncts is almost universally restricted to two, and we very rarely find the iterated co-ordinators which frequently occur in other co-ordination types. Compare '[_{AP}rich and happy and wise]' with the unacceptable *'[_{AP}rich but happy but wise]'.

From a notional point of view, at least three varieties of adversative conjunction may be distinguished:

1.1.1 Semantic opposition

Semantic opposition (the term is taken from Lakoff 1971) implies that the relationship between the conjuncts is simply one of contrast or opposition, uncomplicated by further presuppositions or dependencies.

At the sentential level, the conjuncts are similar in topic and structure, but different in lexical content:

- (1)
 - a. [_S John is rich *but* I am poor]
 - b. [_S In France it rains, *but* in England the sun shines]
(Conjunction)
- (2)
 - a. [_S John *isn't* rich *but* he is handsome]
 - b. [_S In France it *doesn't* rain, *but* in England it does (rain)]
(Presection)
- (3)
 - a. [_S John is rich *but* he *isn't* handsome]
 - b. [_S In France it rains, *but* in England it *doesn't* (rain)]
(Postsection)
- (4)
 - a. [_S John *isn't* rich *but* he *isn't* poor (either)]
[_S John *isn't* rich *but* *neither* is he poor]
 - b. [_S In France it *doesn't* rain, *but* in England it *doesn't* rain (either)]
[_S In France it *doesn't* rain, *but* *neither* does it rain in England]
(Rejection)

Note the existence of a dual strategy for rejection in English at the sentential level.

1.1.2 Denial of expectation

Denial of expectation (this term is also taken from Lakoff 1971) implies a contrast which is pragmatically based. A co-ordination of this type with the form 'A *but* B' is taken to mean: given A, it might be expected that *not* B, nevertheless B holds. Contrary to semantic opposition, there is no need for any similarity in general topic or structure between the conjuncts themselves, for example:

- (5) a. [s John is rich, *but* the party will take place]
 b. [s John *isn't* rich, *but* the party will take place]
 c. [s John is rich, *but* the party *won't* take place]
 d. [s John *isn't* rich, *but* the party *won't* take place]

The meaning of (5a) is: John is rich, and therefore it might have been expected that the party would not take place (perhaps the guest list is restricted to the poor, but John, who is rich, turns up); nevertheless, the party will take place. Similar interpretations may be given to the other

examples. Note that in the case of rejection, (5d), a version with *neither* (or *either*) is unacceptable under this interpretation:

- (6) a. ?[_S John *isn't* rich, *but* the party *won't* take place *either*]
 b. ?[_S John *isn't* rich, *but neither* will the party take place]

From the semantic point of view, sentences involving denial of expectation with the co-ordinating conjunction *but* are similar to sentences with the subordinating conjunction *although*. Sentence (5a) may be paraphrased:

- (7) Although John is rich, the party will take place

1.1.3 Preventative

Preventative forms of adversative involve a hypothetical first conjunct. In general, a co-ordination of this type with the form 'A *but* B' has the following meaning: A, which otherwise would take place, will fail to take place on account of B:

- (8) a. [_S I would go, *but* Bill has the money]
 b. [_S I *wouldn't* go, *but* Bill has the money]
 c. [_S I would go, *but* Bill *hasn't* the money]
 d. [_S I *wouldn't* go, *but* Bill *hasn't* the money]

In (8a), for example, the interpretation is that Bill's possession of the money prevents me from going, and similarly in (8b), Bill's possession of the money prevents me from *not* going, hence I most probably will go.

The preventative form of adversative is similar to the denial of expectation form in that for rejection the *neither* (or *not ... either*) strategy is not permitted:

- (9) a. *[_S I *wouldn't* go, *but* Bill *hasn't* the money *either*]
 b. *[_S I *wouldn't* go, *but neither* has Bill the money]

It differs from both denial of expectation and semantic opposition adversatives, however, in the requirement that the first conjunct be hypothetical. This has the important consequence that phrasal forms lower on the category hierarchy than verb phrase are automatically excluded.

The English co-ordinating conjunction *but* may be used in all the three forms of adversative discussed, and possibly more. Indeed, this seems to be a very common strategy: many languages likewise employ a

