Clause Structure

Clause Structure is the most widely studied phenomenon within syntactic theory, because it refers to how words and phrases are embedded within a sentence, their relationships to each other within a sentence, and, ultimately, how sentences are layered and represented in the human brain. This volume presents a clear and up-to-date overview of the Minimalist Program, synthesizes the most important research findings, and explores the major shifts in generative syntax. As an accessible topic book, it includes chapters on framework, the clause in general, and the semantic, grammatical, and pragmatic layers. Designed for graduate students and researchers interested in syntactic theory, this book includes a range of examples taken from acquisition, typology, and language change, alongside discussion questions, helpful suggestions for further reading, and a useful glossary.

Elly van Gelderen is Regents' Professor of English in the Department of English at Arizona State University.

KEY TOPICS IN SYNTAX

"Key Topics in Syntax" focuses on the main topics of study in syntax today. It consists of accessible yet challenging accounts of the most important issues, concepts, and phenomena to consider when examining the syntactic structure of language. Some topics have been the subject of syntactic study for many years, and are re-examined in this series in light of new developments in the field; others are issues of growing importance that have not so far been given a sustained treatment. Written by leading experts and designed to bridge the gap between textbooks and primary literature, the books in this series can either be used on courses and seminars or as one-stop, succinct guides to a particular topic for individual students and researchers. Each book includes useful suggestions for further reading, discussion questions, and a helpful glossary.

Already published in the series: Syntactic Islands Cedric Boeckx Clause Structure by Elly van Gelderen

Forthcoming titles: Argument Structure by Alexander Williams The Clitic by Francisco Ordóñez Ellipsis by Kyle Johnson Syntactic Agreement by Roberta D'Allesandro The Evolution of Syntax by Brady Clark Studying Syntactic Change by Thomas McFadden

Clause Structure

ELLY VAN GELDEREN





Shaftesbury Road, Cambridge CB2 8EA, United Kingdom

One Liberty Plaza, 20th Floor, New York, NY 10006, USA

477 Williamstown Road, Port Melbourne, VIC 3207, Australia

314-321, 3rd Floor, Plot 3, Splendor Forum, Jasola District Centre, New Delhi - 110025, India

103 Penang Road, #05-06/07, Visioncrest Commercial, Singapore 238467

Cambridge University Press is part of Cambridge University Press & Assessment, a department of the University of Cambridge.

We share the University's mission to contribute to society through the pursuit of education, learning and research at the highest international levels of excellence.

www.cambridge.org Information on this title: www.cambridge.org/9781107017740

© Elly van Gelderen 2013

This publication is in copyright. Subject to statutory exception and to the provisions of relevant collective licensing agreements, no reproduction of any part may take place without the written permission of Cambridge University Press & Assessment.

First published 2013 Reprinted 2013

A catalogue record for this publication is available from the British Library

Library of Congress Cataloging-in-Publication data Gelderen, Elly van. Clause structure / Elly van Gelderen. pages cm Includes bibliographical references and index. ISBN 978-1-107-01774-0 1. Grammar, Comparative and general - Clauses. 2. Grammar, Comparative and general - Syntax. 3. Principles and parameters (Linguistics) I. Title. P297.G44 2013 415-dc23 2013013922 978-1-107-01774-0 ISBN Hardback 978-1-107-65981-0 Paperback ISBN

Additional resources for this publication at www.cambridge.org/9781107017740

Cambridge University Press & Assessment has no responsibility for the persistence or accuracy of URLs for external or third-party internet websites referred to in this publication and does not guarantee that any content on such websites is, or will remain, accurate or appropriate.

Contents

		of figures of tables ace	page vii viii ix
	Abbı	reviations	xii
1	Intr	oduction	1
1		Generative Grammar and Universal Grammar	1
		From phrase structure to Minimalist features	7
		Merge and Cartography: features and categories	22
		The Linear Correspondence Axiom and phases	26
		Feature parameters	31
		Conclusion	36
	Disc	Discussion points	
	Suggestions for further reading		38
2	The clause: a description		39
	2.1	The main clause	39
	2.2	Functions and roles	43
	2.3	The types of subordinate clause	48
	2.4	The three layers	65
	2.5	Cross-linguistic observations	68
	2.6	Conclusion	72
	Discussion points		73
	Suggestions for further reading		74
3	The VP-Layer		75
	3.1	Argument structure	75
	3.2	Unaccusative and unergative verbs	86
	3.3	The causative	92
	3.4	Ditransitives	94
	3.5	Aspect, definiteness, and adverbials	100
	3.6	Cross-linguistic observations and acquisition	106
	3.7	Conclusion and a tie to features	111
	Discussion points		112
	Suggestions for further reading		113

v

vi		Contents
4	The TP-Layer	115
	4.1 Expanding TP	115
	4.2 Cartography of the TP	121
	4.3 Displacement in the TP	128
	4.4 Case and agreement	136
	4.5 Cross-linguistic observations	141
	4.6 Conclusion	147
	Discussion points	149
	Suggestions for further reading	149
5	The CP-Layer	150
	5.1 The expanded CP	150
	5.2 The features, position, and transparency of	
	complementizers	154
	5.3 Mood and CP adverbs	166
	5.4 Topic and focus	172
	5.5 Cross-linguistic observations	180
	5.6 Conclusion	186
	Discussion points	187
	Suggestions for further reading	188
6	Connecting the layers	189
	6.1 Keeping the CP, TP, and VP together	189
	6.2 Mood throughout the clause	190
	6.3 ASP, v, and V	193
	6.4 Negation	195
	6.5 Topic and Focus	199
	6.6 Conclusion	201
	Discussion points	202
	Suggestions for further reading	202
7	Conclusion: description, explanation, and "beyond"	203
	7.1 Functions of the layers	203
	7.2 Major issues in each layer	205
	7.3 Third factor effects and Universal Grammar	206
	7.4 Conclusion	206
	Glossary	207
	References	218
	Index	233

CAMBRIDGE

Cambridge University Press & Assessment 978-1-107-01774-0 — Clause Structure Elly van Gelderen Frontmatter <u>More Information</u>

Figures

1.1	Model of language acquisition	page 3
1.2	Features of airplane and build	15
1.3	Interpretable and uninterpretable features	
	of airplane and build	16
1.4	Interfaces	20
1.5	Feature macroparameters	33
1.6	Innate vs. acquired features	34
2.1	Degrees of finiteness	41
2.2	The relative (in)dependence of coordinated clauses	48
2.3	Degrees of clausal (in)dependence	51
2.4	Parameters of clausal (in)dependence and some verbs	52

CAMBRIDGE

Cambridge University Press & Assessment 978-1-107-01774-0 — Clause Structure Elly van Gelderen Frontmatter <u>More Information</u>

Tables

11	Possible features and functional categories	page 25
	Languages with and without case and agreement	20 32
1.2		37
2.1		44
	A few English complementizers	49
2.3		
2.0	complements	63
2.4	Yes/no questions	69
	Terms for clauses and functions	73
	Transitivity parameters	76
	Characteristics of unergative and unaccusative verbs in	
	English	87
3.3	Examples of unergative and unaccusative verbs in Englis	sh 89
	The causative suffix <i>-en</i> for adjective–verb pairs	90
	A zero-affix with adjective-verb pairs	90
	Alternating verbs in Haspelmath	93
	Verbs with direct and indirect objects	96
3.8	Lexical aspect or Aktionsart	100
3.9	The phrasal verb <i>turn down</i> and its objects in COCA	103
3.10	Russian, German, English, and Indonesian	107
3.11	The verb 'give'	110
4.1	Temporal adverbials	128
4.2	The marking of subjects	143
4.3	Marking on the verb	144
4.4	Navajo subject agreement and independent pronouns	145
4.5	Variability of case	145
4.6	Types of movement	146
5.1	A few English complementizers	155
5.2	Two different Topics	175
6.1	Types of modals	192

viii

Preface

This book has as its basis the question of how a syntactic derivation is built: top-to-bottom, i.e. representational, or bottom-to-top, i.e. projectionist. Representative sides of this debate are the Cartographic approach, as in Cinque (1999), and the bare phrase structure approach, as in Chomsky (1995). In much literature, these two approaches are assumed to be compatible, but this compatibility is not spelled out. The book is organized Cartographically, i.e. the three layers are examined in great detail, but the underlying message is general cognitive factors should be responsible for the ordering of the phrases in the layers.

Another issue that has caused a lot of debate is whether the argument structure is projected from the verb and then mapped to the syntax, as in e.g. Reinhart (2002), or imposed by the environment of a vP-shell, as in e.g. Borer (2005a, b). In either approach, the issue of how to order the arguments is again crucial: the Thematic Hierarchy and the Uniformity of Theta Assignment Hypothesis (UTAH) take care of this in the projectionist approach; the ordering is Cartographic in the constructionist approach.

Features are central in the Minimalist Program. How are they acquired, are they bundled, and do they project? I discuss various aspects of features and hope that I contribute to a clearer analysis of the TMA features connected with affix-hop. I argue that, unlike in the case of phi-features in English, tense, mood, and aspect features are interpretable on the verb once verb is joined with a certain suffix. It is thus the *-ing* that has interpretable aspect, the infinitive that has irrealis, and the *-ed* that has anterior or passive meaning. This provides a more consistent picture of how interpretable and uninterpretable features are used in connection with C, T, ASP, and M.

I have added facts from the history of generative linguistics in many of my discussions. I think it is important to see that some problems remain problems, e.g. the ditransitive construction, affix-hop, and the representation of the imperative, and also to be able to read older work. Chapter 1 discusses a lot of this history. It explains the underlying philosophy of Generative Grammar, namely to not only be descriptively adequate but to be explanatorily adequate. In recent

х

Preface

years, the emphasis has shifted to asking the "why" question, i.e. beyond explanatory adequacy or why the rules are the way they are.

From teaching "baby" syntax, I know that sometimes basic terms such as complement, adverbial, and modifier are not always concrete for students. They have heard the terms but don't know how to use them. The distinction between function in the sentence and name of the phrase is also something that needs consolidating. That's why I have added Chapter 2 as a review of more traditional terminology and how concepts from traditional grammar are relevant to Generative Grammar. I have also added an analysis of relative clauses since it enables me to touch on a number of issues, such as islands and the Linear Correspondence Axiom (LCA). Sometimes, I discuss the same topic in two separate chapters but from a slightly different perspective. The grammatical subject is such a topic. It is relevant to defining the clause (Chapter 2), the semantic roles (Chapter 3), and case and agreement (Chapter 4). This leads to some repetition but also to consolidation (I hope).

For practical reasons, the book will focus on the clause in the English language. Where relevant (e.g. to explain AGRs and AGRo and the various topic positions), I add data from other languages, but this cannot be comprehensive. Chapters 2 to 6 have short sections that discuss a few areas where languages vary. Each chapter is also followed by a set of keywords, discussion points, and suggestions for further reading. Please note that important topics new to the discussion of a chapter are in **bold** type. Since this is more of a textbook than a monograph, I use the pronoun "we" to include the reader in the activities and sometimes "I" when it is more something I personally suggest. I have tried to indicate the major innovators, e.g. the various scholars that came up with the split VP, TP, and CP, but there is so much common knowledge that it is often hard to track the first person to argue a particular point or term. My main contribution is to focus on the various layers and, within the three main layers, to focus on the features and their acquisition, and on asking how we get the ordering that we do.

I occasionally make use of authentic corpus examples for a variety of reasons: (a) It makes the examples more interesting for the reader, and, (b), where variation among native speakers occurs, it provides evidence that at least some speakers use the construction. The main corpora used are Mark Davies' *Corpus of Contemporary American English* (COCA) and the *British National Corpus* (BNC). I also use the *World Atlas of Linguistic Structure* (WALS) database, mainly to provide cross-linguistic

CAMBRIDGE

Cambridge University Press & Assessment 978-1-107-01774-0 — Clause Structure Elly van Gelderen Frontmatter <u>More Information</u>

Preface

comparisons. The corpora and WALS are easy to use in case students want to check a construction, so I need not provide a guide to them.

The audiences for this book that I have in mind are advanced students (taking a second or third generative syntax class) and colleagues. I have tried to make the issues accessible for anyone with a basic knowledge of generative/Minimalist syntax. I therefore assume a familiarity with generative syntax and Minimalism which Radford (2009), Carnie (2007), Adger (2007), or other syntax textbooks supply. I also assume basic linguistic concepts and will consider as grammatical prescriptively incorrect English, e.g. split infinitives, stranded prepositions, and object *who*, without further comment.

Thanks very much to Werner Abraham, for emphasizing the syntactic importance of information structure so many years ago, to Terje Lohndal for many suggestions, references, and for using several chapters in a seminar, to Hui-Ling Yang and Mohammed Al-Rashed for numerous references and data, to the ASU Syntax Reading group for suggestions and support for a number of years, namely Mohammed Al-Rashed, Mariana Bahtchevanova, James Berry, Carrie Gillon, Daniela Kostadinovska, William Kruger, Robert LaBarge, Claire Renaud, Uthairat Rogers, Olena Tsurska, Anne Walton-Ramírez, Jing Xia, Hui-Ling Yang, and Yidan Xu. I tried out this book in an advanced syntax class (with Naomi, Anne, Daniela, Lin, Qin, Sadique, Robert, Eleonore, Dawn, Carolyn, Tatiana, Amanda, Annette, Youmie, and Bethany) and am grateful to the students in that class. Thanks also to two anonymous referees, Johanna Wood, Marijana Marelj, Jay Myers, David Medeiros, Christina Sarigiannidou, Chris Jackson, Gnanadevi Rajasundaram, and Helen Barton, whose visit in 2009 prompted this book. Jan Koster was the first (as far as I know) to point out clearly that there is a real mismatch between Cartography on the one hand and Merge-only Minimalism on the other, so many thanks to Jan.

xi

Abbreviations

A	Agent; also used to abbreviate "Answer"
ABS	Absolutive
ACC	Accusative
Adv	Adverb or adverbial, depending on the name or the
	function
AGR	Agreement
AGRo	Agreement with the object
AGRoP	Agreement with the object Phrase
AGRs	Agreement with the subject
AGRsP	Agreement with the subject Phrase
ASP	Aspect Phrase
AUX	Auxiliary
BNC	British National Corpus, with references cited using the BNC
DD	codes
BP	before present
c	Causer, used for theta-role features
С	Complementizer
C-I	Conceptual-Intentional
CL	Classifier in gloss
COCA	<i>Corpus of Contemporary American English</i> (http://corpus2.byu. edu/coca)
СР	Complementizer Phrase
CSE	Corpus of Spoken, Professional American-English (www.athel. com/cspatg.html)
D	Determiner
DEF	Definite
DP	Determiner Phrase
dur	durative features
EA	External Argument
ECM	Exceptional Case Marking
EPP	Extended Projection Principle
ERG	Ergative
Exp	Expletive

xii

List of Abbreviations

xiii

5	
F	Generic Functional Category; future in gloss; feminine
	in gloss, e.g. FP feminine plural
Fin	Fin(ite) Phrase
FOC	Focus
fut	interpretable future features
FUT	future in gloss
G	Goal (theta-role)
GEN	Genitive
Н	Head
HT	Hanging Topic
Ι	Inflection
i-	interpretable feature, e.g. [i-fut] is interpretable future,
	[i-past] is interpretable past, and [i-pres] is interpretable
	present
IMPF	Imperfective in gloss
ind	indicative
INFL	Inflection
Int	Interrogative
IP	Inflection Phrase
irr	irrealis
LCA	Linear Correspondence Axiom
LDT	Left Dislocated Topic
LF	Logical Form
m	mental, used for theta-role features
М	Mood
MP	Mood Phrase
Neg	Negation
NMZ	Nominalizer in gloss
NOM	Nominative
NPI	Negative Polarity Item
Num	Used as a functional category for Number
obj	an uninterpretable feature, indicating the case
	relationship between a transitive verb and its object
OBL	Oblique
OCC	Occurrence, alternative term for EPP
OED	Oxford English Dictionary
Р	Preposition; plural in gloss
PART	Particle
pf	perfective
PF	Phonetic Form

xiv	List of Abbreviations
PHON	Interface from the Narrow Syntax to the Sensorimotor system
PRO	empty subject argument of a non-finite verb
pro	empty subject argument of a finite verb
Ps	Used as a functional category for Person and as a feature
PST	Past in gloss
Q	Question particle in the gloss; and used to abbreviate "Question"
RelT	Relative tense; used for the perfect in English
S	Sentence (now TP); singular in gloss
SEM	interface from the Narrow Syntax to the Conceptual-
	Intentional system
S-M	Sensorimotor
Spec	Specifier
STAT	Stative
SUBJ	subjunctive
SV	Subject Verb order
SVO	Subject Verb Object
Т	Tense
Th	Theme
TMA	Tense, Mood, Aspect Marking in the clause
Тор	Торіс
TP	Tense Phrase
u-	uninterpretable features, e.g. [u-T] is uninterpretable tense in T; also used on nouns for case checking
UTAH	Uniformity of Theta Assignment Hypothesis
v	light verb
V2	Verb-second
VP	Verb Phrase
vP	small VP
VPISH	VP Internal Subject Hypothesis
VS	Verb Subject order
WALS	World Atlas of Language Structures (wals.info)
*	ungrammatical, or repeatable more than once
#	pragmatically ill-formed when in front of a sentence; also
	the number feature
1	first person
2	second person
3	third person