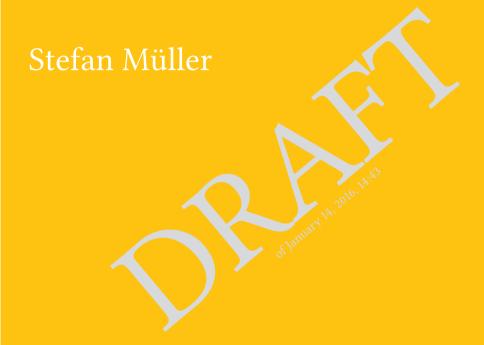
Grammatical theory

From transformational grammar to constraint-based approaches



Textbooks in Language Sciences 1



Grammatical theory

This book introduces formal grammar theories that play a role in current linguistics or contributed tools that are relevant for current linguistic theorizing (Phrase Structure Grammar, Transformational Grammar/""Government & Binding, Generalized Phrase Structure Grammar, Lexical Functional Grammar, Categorial Grammar, Head-Driven Phrase Structure Grammar, Construction Grammar, Tree Adjoining Grammar). The key assumptions are explained and it is shown how the respective theory treats arguments and adjuncts, the active/passive alternation, local reorderings, verb placement, and fronting of constituents over long distances. The analyses are explained with German as the object language.

In the second part of the book the approaches are compared with respect to their predictions regarding language acquisition and psycholinguistic plausibility. The nativism hypothesis that assumes that humans posses genetically determined innate language-specific knowledge is examined critically and alternative models of language acquisition are discussed. In addition the second part addresses issues that are discussed controversially in current theory building as for instance the question whether flat or binary branching structures are more appropriate, the question whether constructions should be treated on the phrasal or the lexical level, and the question whether abstract, non-visible entities should play a role in syntactic analyses. It is shown that the analyses that are suggested in the respective frameworks are often translatable into each other. The book closes with a chapter that shows how properties that are common to all languages or to certain language classes can be captured.

"With this critical yet fair reflection on various grammatical theories, Müller fills what was a major gap in the literature." Karen Lehmann, Zeitschrift für Rezensionen zur germanistischen Sprachwissenschaft, 2012

"Stefan Müller's recent introductory textbook, "Grammatiktheorie", is an astonishingly comprehensive and insightful survey for beginning students of the present state of syntactic theory." Wolfgang Sternefeld und Frank Richter, Zeitschrift für Sprachwissenschaft, 2012

"This is the kind of work that has been sought after for a while. [...] The impartial and objective discussion offered by the author is particularly refreshing." Werner Abraham, Germanistik, 2012

Proofreading version. Do not quote. Final version available from http://www.langsci-press.org

Stefan Müller

Frammatical theor



Textbooks in Language Sciences

Editors: Stefan Müller, Martin Haspelmath

Editorial Board: Claude Hagège, Marianne Mithun, Anatol Stefanowitsch, Foong Ha Yap

In this series:

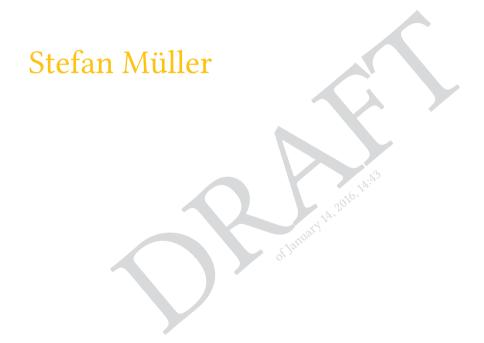
1. Müller, Stefan. Grammatical theory: From transformational grammar to constraint-based approaches.

2. Schäfer, Roland. Einführung in die grammatische Beschreibung des Deutschen.

ISSN: 2364-6209

Grammatical theory

From transformational grammar to constraint-based approaches





Stefan Müller. 2016. *Grammatical theory: From transformational grammar to constraint-based approaches* (Textbooks in Language Sciences 1). Berlin: Language Science Press.

This title can be downloaded at:

http://langsci-press.org/catalog/book/25

© 2016, Stefan Müller

Published under the Creative Commons Attribution 4.0 Licence (CC BY 4.0):

http://creativecommons.org/licenses/by/4.0/

ISBN: 978-3-944675-21-3 (Digital)

978-3-946234-29-6 (Hardcover)

978-3-946234-30-2 (Softcover)

ISSN: 2364-6209

Cover and concept of design: Ulrike Harbort Translator: Andrew Murphy, Stefan Müller

Typesetting: Stefan Müller

Proofreading: Viola Auermann, Paul Kay

Fonts: Linux Libertine, Arimo, DejaVu Sans Mono

Typesetting software: X¬MTEX

Language Science Press Habelschwerdter Allee 45 14195 Berlin, Germany langsci-press.org

Storage and cataloguing done by FU Berlin



Language Science Press 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.

Proofreading version. Do not quote. Final version available from http://www.langsci-press.org

For Max

Proofreading version. Do not quote. Final version available from http://www.langsci-press.org

I	Ba	ckgrou	and specific theories	1
1	Intr	oductio	n and basic terms	5
	1.1	Why d	lo syntax?	5
	1.2	-	lo it formally?	8
	1.3		tuents	8
		1.3.1	Constituency tests	9
		1.3.2	Some comments on the status of constituent tests	13
	1.4	Parts o	of speech	20
	1.5			31
	1.6		nents and adjuncts	33
	1.7	_	natical functions	37
		1.7.1	Subjects	37
		1.7.2	The adverbial	42
		1.7.3	Predicatives	43
		1.7.4	Valence classes	44
	1.8	A topo	ological model of the German clause	46
		1.8.1	The position of the verb	46
		1.8.2	The sentence bracket, prefield, middle field and postfield	46
		1.8.3	Assigning elements to fields	47
		1.8.4	Recursion	52
2	Phra	ise stru	cture grammar	55
	2.1	Symbo	ols and rewrite rules	55
	2.2	Expan	ding PSG with features	61
	2.3		itics	62
	2.4	Phrase	e structure rules for some aspects of German syntax	65
		2.4.1	Noun phrases	65
		2.4.2	Prepositional phrases	73
	2.5	X theo	ory	76
3	Trai	ısforma	tional Grammar – Government & Binding	85
	3.1	Genera	al remarks on the representational format	86
		3.1.1	Transformations	86
		3.1.2	The hypothesis regarding language acquisition: Principles & Pa-	
			rameters	88

		3.1.3	The T model	89		
		3.1.4	\overline{X} theory	95		
		3.1.5	CP and IP in English	98		
		3.1.6	The structure of the German clause	02		
	3.2	Verb p	osition	04		
	3.3			.08		
	3.4	Passiv	e	111		
		3.4.1	Structural and lexical case	111		
		3.4.2		113		
	3.5	Local		116		
	3.6			119		
		3.6.1		119		
		3.6.2		20		
4	Trar	ısforma	tional Grammar – Minimalism 1	29		
-	4.1		al remarks on the representational format			
	111	4.1.1	Basic architecture			
		4.1.2	Valence, feature checking, and agreement			
		4.1.3	Phrase structure and \overline{X} theory			
		4.1.4	Little v			
		4.1.5	CP, TP, vP, VP			
		4.1.6	Adjuncts			
	4.2		position			
	4.3		distance dependencies			
	4.4		e			
	4.5					
	4.6	8				
	4.0	4.6.1	Move, Merge, feature-driven movement and functional projections 1			
		4.6.2	Labeling			
		4.6.3	Specifiers, complements, and the remains of \overline{X} theory 1			
		4.6.4	Minimalism, Categorial Grammar, and HPSG			
		4.6.5	Selection of atomic features vs. selection of complex categories			
		4.6.6				
	4.7		Summary			
	4./		ary and classification			
		4.7.1	Explaining language acquisition			
		4.7.2	Formalization	177		
5				181		
	5.1		al remarks on the representational format			
		5.1.1	Complex categories, the Head Feature Convention, and \overline{X} rules . 1			
		5.1.2	Local reordering			
		5.1.3	Metarules	86		
		5.1.4	Semantics	.88		

		5.1.5	Adjuncts	
	5.2		e as a metarule	
	5.3	Verb p	position	. 194
	5.4		distance dependencies as the result of local dependencies	
	5.5	Summ	ary and classification	
		5.5.1	Valence and morphology	
		5.5.2	Valence and partial verb phrase fronting	
		5.5.3	Generative capacity	. 201
6	Feat	ure des	criptions	203
	6.1	Featur	re descriptions	. 203
	6.2			
	6.3	Disjun	nction	. 209
	6.4	Struct	ure sharing	. 209
	6.5	Cyclic	structures	. 211
	6.6		ation	
	6.7	Pheno	mena, models and formal theories	. 214
7	Lexi	cal Fun	actional Grammar	219
	7.1	Gener	al remarks on the representational format	. 221
		7.1.1	Functional structure	. 221
		7.1.2	Completeness	. 224
		7.1.3	Coherence	. 224
		7.1.4	Restrictions on the c-structure/f-structure relation	. 225
		7.1.5	Semantics	. 226
		7.1.6	Adjuncts	. 228
	7.2	Passiv	e	. 229
	7.3	Verb p	oosition	. 232
	7.4	Local	reordering	. 234
	7.5	Long-	distance dependencies and functional uncertainty	. 237
	7.6		ary and classification	
8	Cate	egorial (Grammar	243
	8.1	Gener	al remarks on the representational format	. 244
		8.1.1	Representation of valence information	
		8.1.2	Semantics	. 245
		8.1.3	Adjuncts	
	8.2	Passiv	e	
	8.3	Verb p	oosition	. 249
	8.4	-	reordering	
	8.5		distance dependencies	
		8.5.1	Type Raising	
		8.5.2	Forward and backward composition	
		8.5.3	Analysis of long-distance dependencies	

	8.6	Summ	ary and classification	255
9	Head	l-Drive	n Phrase Structure Grammar	261
	9.1	Genera	al remarks on the representational format	264
		9.1.1	Representation of valence information	
		9.1.2	Representation of constituent structure	
		9.1.3	Linearization rules	
		9.1.4	Projection of head properties	
		9.1.5	Inheritance hierarchies and generalizations	
		9.1.6	Semantics	
		9.1.7	Adjuncts	
	9.2		e	
	, . _	9.2.1	Valence information and the Case Principle	
	9.3		osition	
	9.4		reordering	
	9.5		listance dependencies	
	9.6		evelopments and theoretical variants	
	7.0	9.6.1	Specifier, complements and argument structure	
		9.6.2	Linearization-based HPSG	
	9.7		ary and classification	
	7.1	Summi	ary and classification	301
10	Cons	structio	n Grammar	307
	10.1	Genera	al remarks on the representational format	309
		10.1.1	The head-complement construction	309
		10.1.2	Representation of valence information	311
		10.1.3	Semantics	311
		10.1.4	Adjuncts	311
	10.2	Passive	e	311
	10.3	Verb p	osition	316
	10.4	Local	eordering	319
	10.5		distance dependencies	
	10.6	_	evelopments and theoretical variants	
		10.6.1	Berkeley Construction Grammar	
		10.6.2	Sign-Based Construction Grammar	
		10.6.3	Embodied Construction Grammar	
		10.6.4	Fluid Construction Grammar	339
	10.7	Summ	ary and classification	
		_		
11	-		y Grammar	361
	11.1		al remarks on the representational format	
		11.1.1	Valence information, nucleus and satellites	
		11.1.2	Adjuncts	
		11.1.3	Linearization	
		11.1.4	Semantics	368

Contents 11.3 11.6 11.6.1 11.6.2 11.6.3 11.7 11.7.1 11.7.2 Dependency Grammar vs. phrase structure grammar 394 12 Tree Adjoining Grammar 411 12.1 General remarks on representational format 412 12.1.1 Representation of valence information 412 12.1.2 12.1.3 12.6.1 12.6.2 The competence-performance distinction and the generative ca-General discussion H 437 13 The innateness of linguistic knowledge 439 13.1.1 13.1.2 Grammatical functions such as subject and object 446 13.1.3 13.1.4 13.1.5 Grammatical morphemes for tense, mood and aspect 458 13.1.6 13.1.7 13.1.8 13.1.9

	13.2	Speed of language acquisition	
	13.3	Critical period for acquisition	466
	13.4	Lack of acquisition among non-human primates $\ \ldots \ \ldots \ \ldots \ \ldots$	468
	13.5	Creole and sign languages	468
	13.6	Localization in special parts of the brain	
	13.7	Differences between language and general cognition	471
		13.7.1 Williams Syndrome	471
		13.7.2 KE family with FoxP2 mutation	471
	13.8	Poverty of the Stimulus	472
		13.8.1 Gold's Theorem	473
		13.8.2 Four case studies	477
		13.8.3 Unsupervized Data-Oriented Parsing (U-DOP)	487
		13.8.4 Negative evidence	
	13.9	Summary	
		•	
14	Gene	erative-enumerative vs. model-theoretic approaches	497
	14.1	Graded acceptability	499
	14.2	Utterance fragments	500
	14.3	A problem for model-theoretic approaches?	502
15	The	competence/performance distinction	507
		The derivational theory of complexity	
		Incremental processing	
	13.2	incremental processing	312
16	Lang	guage acquisition	519
	16.1	Principles and Parameters	519
	16.2	Principles and the lexicon	527
		Pattern-based approaches	
		Selection-based approaches	
	16.5	Summary	535
17	Gene	erative capacity and grammar formalisms	537
18		ry branching, locality, and recursion	54 3
		Binary branching	
		Locality	
	18.3	Recursion	555
19	Emp	ty elements	557
		Views on empty elements	
		Eliminating empty elements from grammars	
	19.3	Empty elements and semantic interpretation	
	19.4		
	19.5	Transformations, lexical rules, and empty elements	571
	17.5	Transformations, textear rates, and empty elements	311

20	Extra	ction, s	scrambling, and passive: one or several descriptive devices?	577
21	Phra	sal vs. l	exical analyses	587
	21.1		outative advantages of phrasal models	588
		21.1.1	Usage-based theories	
		21.1.2	Coercion	
		21.1.3	Aspect as a clause level phenomenon	
		21.1.4	Simplicity and polysemy	
	21.2	Eviden	ce for lexical approaches	
		21.2.1	Valence and coordination	
		21.2.2	Valence and derivational morphology	
	21.3	Radical	underspecification: the end of argument structure?	606
		21.3.1	Neo-Davidsonianism	
		21.3.2	Little <i>v</i> and idiom asymmetries	607
		21.3.3	Deverbal nominals	609
		21.3.4	Idiosyncratic syntactic selections	
		21.3.5	Expletives	614
		21.3.6	An exoskeletal approach	615
		21.3.7	Is there an alternative to lexical valence structure?	
		21.3.8	Summary	
	21.4	Relatio	ns between constructions	621
		21.4.1	Inheritance hierarchies for constructions	621
		21.4.2	Mappings between different levels of representations	625
		21.4.3	Is there an alternative to lexical rules?	628
	21.5	Further	r problems for phrasal approaches	628
		21.5.1	Particle verbs and commitment to phrase structure configurations	629
	21.6	Argum	ents from language acquisition	630
		21.6.1	Recognizability of constructions	
		21.6.2	Coordination and discontinuousness	631
	21.7		ents from psycho- and neurolinguistics	
		21.7.1	Lexical rules vs. phrasal constructions	636
		21.7.2	Light verbs	
		21.7.3	Arguments from Neurolinguistics	639
	21.8	Argum	ents from statistical distribution	
		21.8.1	Unsupervised Data-Oriented Parsing	
		21.8.2	Collostructions	646
	21.9	Conclu	sion	647
	21.10		phrasal) constructions?	
			Verbless directives	
			Serial verbs	
		21.10.3	Relative and interrogative clauses	656
		21.10.4	The N-P-N construction	658

22	Universal Grammar and comparative linguistics without UG	661
	22.1 Formal tools for capturing generalizations	. 661
	22.2 How to develop linguistic theories that capture cross-linguistic general-	
	izations	. 665
23	Conclusion	673
24	Solutions to the exercises	677
	24.1 Introduction and basic terms	. 677
	24.2 Phrase structure grammars	. 677
	24.3 Transformational Grammar – Government & Binding	. 681
	24.4 Generalized Phrase Structure Grammar	. 683
	24.5 Feature descriptions	. 685
	24.6 Lexical Functional Grammar	. 687
	24.7 Categorial Grammar	. 687
	24.8 Head-Driven Phrase Structure Grammar	. 689
	24.9 Construction Grammar	. 690
	24.10 Dependency Grammar	. 691
	24.11 Tree Adjoining Grammar	. 692
Bił	oliography	695
Inc	lex	784
	Name index	. 784
	Language index	. 798
	Subject index	. 800

Preface

This book is an extended and revised version of my German book *Grammatiktheorie* (Müller 2013b). It introduces various grammatical theories that play a role in current theorizing or have made contributions in the past which are still relevant today. I explain some foundational assumptions and then apply the respective theories to what can be called the "core grammar" of German. I have decided to stick to the object language that I used in the German version of this book since many of the phenomena that will be dealt with cannot be explained with English as the object language. Furthermore, many theories have been developed by researchers with English as their native language and it is illuminative to see these theories applied to another language. I show how the theories under consideration deal with arguments and adjuncts, active/passive alternations, local reorderings (so-called scrambling), verb position, and fronting of phrases over larger distances (the verb second property of the Germanic languages without English).

The second part deals with foundational questions that are important for developing theories. This includes a discussion of the question of whether we have innate domain specific knowledge of language (UG), the discussion of psycholinguistic evidence concerning the processing of language by humans, a discussion of the status of empty elements and of the question whether we construct and perceive utterances holistically or rather compositionally, that is, whether we use phrasal or lexical constructions.

Unfortunately, linguistics is a scientific field with a considerable amount of terminological chaos. I therefore wrote an introductory chapter that introduces terminology in the way it is used later on in the book. The second chapter introduces phrase structure grammars, which plays a role for many of the theories that are covered in this book. I use these two chapters (excluding the Section 2.3 on interleaving phrase structure grammars and semantics) in introductory courses of our BA curriculum for German studies. Advanced readers may skip these introductory chapters. The following chapters are structured in a way that should make it possible to understand the introduction of the theories without any prior knowledge. The sections regarding new developments and classification are more ambitious: they refer to chapters still to come and also point to other publications that are relevant in the current theoretical discussion but cannot be repeated or summarized in this book. These parts of the book address advanced students and researchers. I use this book for teaching the syntactic aspects of the theories in a seminar for advanced students in our BA. The slides are available on my web page. The second part of the book, the general discussion, is more ambitious and contains the discussion of advanced topics and current research literature.

This book only deals with relatively recent developments. For a historical overview, see for instance Robins (1997); Jungen & Lohnstein (2006). I am aware of the fact that

chapters on Integrational Linguistics (Lieb 1983; Eisenberg 2004; Nolda 2007), Optimality Theory (Prince & Smolensky 1993; Grimshaw 1997; G. Müller 2000), Role and Reference Grammar (Van Valin 1993) and Relational Grammar (Perlmutter 1983, 1984) are missing. I will leave these theories for later editions.

The original German book was planned to have 400 pages, but it finally was much bigger: the first German edition has 525 pages and the second German edition has 564 pages. I added a chapter on Dependency Grammar and one on Minimalism to the English version and now the book has 809 pages. I tried to represent the chosen theories appropriately and to cite all important work. Although the list of references is over 85 pages long, I was probably not successful. I apologize for this and any other shortcomings.

Acknowledgments

I would like to thank David Adger, Jason Baldridge, Felix Bildhauer, Emily M. Bender, Stefan Evert, Gisbert Fanselow, Sandiway Fong, Hans-Martin Gärtner, Kim Gerdes, Adele Goldberg, Bob Levine, Paul Kay, Jakob Maché, Guido Mensching, Laura Michaelis, Geoffrey Pullum, Uli Sauerland, Roland Schäfer, Jan Strunk, Remi van Trijp, Shravan Vasishth, Tom Wasow, and Stephen Wechsler for discussion and Monika Budde, Philippa Cook, Laura Kallmeyer, Tibor Kiss, Gisela Klann-Delius, Jonas Kuhn, Timm Lichte, Anke Lüdeling, Jens Michaelis, Bjarne Ørsnes, Andreas Pankau, Christian Pietsch, Frank Richter, Ivan Sag, and Eva Wittenberg for comments on earlier versions of the German edition of this book and Thomas Groß, Dick Hudson, Sylvain Kahane, Paul Kay, Haitao Liu (M.), Andrew McIntyre, Sebastian Nordhoff, Tim Osborne, Andreas Pankau, and Christoph Schwarze for comments on earlier versions of this book. Thanks to Leonardo Boiko and Sven Verdoolaege for pointing out typos. Special thanks go to Martin Haspelmath for very detailed comments on an earlier version of the English book.

This book was the first Language Science Press book that had an open review phase (see below). I thank Dick Hudson, Paul Kay, Antonio Machicao Y Priemer, Andrew McIntyre, Sebastian Nordhoff, and one anonymous open reviewer for their comments. Theses comments are documented at the download page of this book.

I thank Wolfgang Sternefeld and Frank Richter, who wrote a detailed review of the German version of this book (Sternefeld & Richter 2012). They pointed out some mistakes and omissions that were corrected in the second edition of the German book and which are of course not present in the English version.

Thanks to all the students who commented on the book and whose questions lead to improvements. Lisa Deringer, Aleksandra Gabryszak, Simon Lohmiller, Theresa Kallenbach, Steffen Neuschulz, Reka Meszaros-Segner, Lena Terhart and Elodie Winckel deserve special mention.

Since this book is built upon all my experience in the area of grammatical theory, I want to thank all those with whom I ever discussed linguistics during and after talks at conferences, workshops, summer schools or via email. Werner Abraham, John Bateman, Dorothee Beermann, Rens Bod, Miriam Butt, Manfred Bierwisch, Ann Copestake, Holger Diessel, Kerstin Fischer, Dan Flickinger, Peter Gallmann, Petter Haugereid, Lars Hellan, Tibor Kiss, Wolfgang Klein, Hans-Ulrich Krieger, Andrew McIntyre, Detmar Meurers, Gereon Müller, Martin Neef, Manfred Sailer, Anatol Stefanowitsch, Peter Svenonius, Michael Tomasello, Hans Uszkoreit, Gert Webelhuth, Daniel Wiechmann and Arne Zeschel deserve special mention.

I thank Sebastian Nordhoff for a comment regarding the completion of the subject index entry for *recursion*.

Andrew Murphy translated part of Chapter 1 and the Chapters 2–3, 5–10, and 12–23. Many thanks for this!

During the past years, a number of workshops on theory comparison have taken place. I was invited to three of them. I thank Helge Dyvik and Torbjørn Nordgård for inviting me to the fall school for Norwegian PhD students *Languages and Theories in Contrast*,

which took place 2005 in Bergen. Guido Mensching and Elisabeth Stark invited me to the workshop *Comparing Languages and Comparing Theories: Generative Grammar and Construction Grammar*, which took place in 2007 at the Freie Universität Berlin and Andreas Pankau invited me to the workshop *Comparing Frameworks* in 2009 in Utrecht. I really enjoyed the discussion with all participants of these events and this book benefited enormously from the interchange.

I thank Peter Gallmann for the discussion of his lecture notes on GB during my time in Jena. The Sections 3.1.3–3.4 have a structure that is similar to the one of his script and take over a lot. Thanks to David Reitter for the LTEX macros for Combinatorial Categorial Grammar, to Mary Dalrymple and Jonas Kuhn for the LFG macros and example structures, and to Laura Kallmeyer for the LTEX sources of most of the TAG analyses. Most of the trees have been adapted to the forest package because of compatibility issues with XHLEX, but the original trees and texts were a great source of inspiration and without them the figures in the respective chapters would not be half as pretty as they are now.

I thank Sašo Živanović for implementing the ŁTEX package forest. It really simplifies typesetting of trees, dependency graphs, and type hierarchies. I also thank him for individual help via email and on stackexchange. In general, those active on stackexchange could not be thanked enough: most of my questions regarding specific details of the typesetting of this book or the implementation of the ŁTEX classes that are used by Language Science Press now have been answered within several minutes. Thank you! Since this book is a true open access book under the CC-BY license, it can also be an open source book. The interested reader finds a copy of the source code at specify url. By making the book open source I pass on the knowledge provided by the ŁTEX gurus and hope that others benefit from this and learn to typeset their linguistics papers in nicer and/or more efficient ways.

Viola Auermann and Antje Bahlke, Sarah Dietzfelbinger, Lea Helmers, and Chiara Jancke cannot be thanked enough for their work at the copy machines. Viola also helped a lot with proof reading prefinal stages of the translation. I also want to thank my (former) lab members Felix Bildhauer, Philippa Cook, Janna Lipenkova, Jakob Maché, Bjarne Ørsnes and Roland Schäfer, which were mentioned above already for other reasons, for their help with teaching. During the years from 2007 until the publication of the first German edition of this book two of the three tenured positions in German Linguistics were unfilled and I would have not been able to maintain the teaching requirements without their help and would have never finished the *Grammatiktheorie* book.

I thank Tibor Kiss for advice in questions of style. His diplomatic way always was a shining example for me and I hope that this is also reflected in this book.

On the way this book is published

I started to work on my dissertation in 1994 and defended it in 1997. During the whole time the manuscript was available on my web page. After the defense, I had to look for a publisher. I was quite happy to be accepted to the series Linguistische Arbeiten by Niemeyer, but at the same time I was shocked about the price, which was 186.00 DM for a paperback book that was written and typeset by me without any help by the publisher (twenty times the price of a paperback novel). This basically meant that my book was depublished: until 1998 it was available from my web page and after this it was available in libraries only. My Habilitationsschrift was published by CSLI Publications for a much more reasonable price. When I started writing textbooks, I was looking for alternative distribution channels and started to negotiate with no-name print on demand publishers. Brigitte Narr, who runs the Stauffenburg publishing house, convinced me to publish my HPSG textbook with her. The copyrights for the German version of the book remained with me so that I could publish it on my web page. The collaboration was successful so that I also published my second textbook about grammatical theory with Stauffenburg. I think that this book has a broader relevance and should be accessible for non-German-speaking readers as well. I therefore decided to have it translated into English. Since Stauffenburg is focused on books in German, I had to look for another publisher. Fortunately the situation in the publishing sector changed quite dramatically in comparison to 1997: we now have high profile publishers with strict peer review that are entirely open access. I am very glad about the fact that Brigitte Narr sold the rights of my book back to me and that I can now publish the English version with Language Science Press under a CC-BY license.

¹ As a side remark: in the meantime Niemeyer was bought by de Gruyter and closed down. The price of the book is now 139.95 €/ \$ 196.00. The price in Euro corresponds to 273.72 DM.

Language Science Press: scholar-owned high quality linguistic books

In 2012 a group of people found the situation in the publishing business so unbearable that they agreed that it would be worthwhile to start a bigger initiative for publishing linguistics books in platinum open access, that is, free for both readers and authors. I set up a web page and collected supporters, very prominent linguists from all over the world and all subdisciplines and Martin Haspelmath and I then founded Language Science Press. At about the same time the DFG had announced a program for open access monographs and we applied (Müller & Haspelmath 2013) and got funded (two out of 18 applications got funding). The money is used for a coordinator (Dr. Sebastian Nordhoff) and an economist (Debora Siller), two programmers (Carola Fanselow and Dr. Mathias Schenner), who work on the publishing plattform Open Monograph Press (OMP) and on conversion software that produces various formats (ePub, XML, HTML) from our ETeX code. Svantje Lilienthal works on the documentation of OMP, produces screencasts and does user support for authors, readers and series editors.

OMP is extended by open review facilities and community-building gamification tools (Müller 2012b; Müller & Haspelmath 2013). All Language Science Press books are reviewed by at least two external reviewers. Reviewers and authors may agree to publish these reviews and thereby make the whole process more transparent (see also Pullum (1984) for the suggestion of open reviewing of journal articles). In addition there is an optional second review phase: the open review. This review is completely open to everybody. The whole community may comment on the document that is published by Language Science Press. After this second review phase, which usually lasts for two months, authors may revise their publication and an improved version will be published. This book was the first book to go through this open review phase. The annotated open review version of this book is still available via the web page of this book.

Currently, Language Science Press has 16 series on various subfields of linguistics with high profile series editors from all continents. Series editors and authors are responsible for delivering manuscripts that are typeset in ETEX, but they are supported by a web-based typesetting infrastructure that was set up by Language Science Press and by volunteer typesetters from the community. Proofreading is also community-based.

If you think that textbooks like this one should be freely available to whoever wants to read them and that publishing scientific results should not be left to profit-oriented publishers, then you can join the Language Science Press community and support us in various ways: you can register with Language Science Press and have your name listed on our supporter page with more than 500 other enthusiasts, you may devote your time and help with proofreading and/or typesetting, or you may donate money for specific books or for Language Science Press in general. We are also looking for institutional supporters like foundations, societies, linguistics departments or university libraries. In case of questions, please contact me or the Language Science Press coordinator at contact@langsci-press.org.

_			
Coi	nte	ent	ς

Berlin, January 14, 2016

Stefan Müller

Proofreading version. Do not quote. Final version available from http://www.langsci-press.org

Part I Background and specific theories

Proofreading version. Do not quote. Final version available from http://www.langsci-press.org



+

Proofreading version. Do not quote. Final version available from http://www.langsci-press.org