

Minimalist Grammars

- For parsing, Minimalism needs formalization.
- Stabler (1997) defines a MG as:

$V =$ phonetic and interpretable features

$Cat =$ categories, selectors, licensors, licensees

$Lex =$ expressions (trees) built from V and Cat

$F =$ $\{ merge, move \}$

- (Based on an earlier grammar formalism, so the names don't mean what you think.)

On Formal Properties Of Minimalist Grammars

**Christian Ebert, Gerhard Jäger, Jens
Michaelis**



On Formal Properties Of Minimalist Grammars:

On Formal Properties of Minimalist Grammars Jens Michaelis, 2001 Formal Grammar Glyn Morrill, Mark-Jan Nederhof, 2013-07-30 This book constitutes the refereed proceedings of the 17th and 18th International Conference on Formal Grammar 2012 and 2013 collocated with the European Summer School in Logic Language and Information in August 2012 2013 The 18 revised full papers were carefully reviewed and selected from a total of 27 submissions The focus of papers are as follows formal and computational phonology morphology syntax semantics and pragmatics model theoretic and proof theoretic methods in linguistics logical aspects of linguistic structure constraint based and resource sensitive approaches to grammar learnability of formal grammar integration of stochastic and symbolic models of grammar foundational methodological and architectural issues in grammar and linguistics and mathematical foundations of statistical approaches to linguistic analysis **Minimalist Parsing** Robert C. Berwick, Edward P. Stabler, 2019 This book is the first dedicated to linguistic parsing the processing of natural language according to the rules of a formal grammar in the Minimalist Framework Experts in the field show how the abstract theories of the Minimalist Program can be turned into working computer programs for processing sentences and analysing brain activity **The Mathematics of Language** Makoto Kanazawa, Marcus Kracht, Hiroyuki Seki, András Kornai, 2011-10-01 This book constitutes the proceedings of the 12th Biennial Meeting on Mathematics in Language MOL 12 held in Nara Japan in September 2011 Presented in this volume are 12 carefully selected papers as well as the paper of the invited speaker Andreas Maletti The papers cover such diverse topics as formal languages string and tree transducers grammar independent syntactic structures probabilistic and weighted context free grammars formalization of minimalist syntax parsing and unification lexical and compositional semantics statistical language models and theories of truth **Logical Aspects of Computational Linguistics** Philippe Blache, Edward Stabler, Joan Busquets, Richard Moot, 2005-05-03 Edited in collaboration with FoLLI the Association of Logic Language and Information this book inaugurates the new FoLLI LNAI subline It constitutes the refereed proceedings of the 5th International Conference on Logical Aspects of Computational Linguistics LACL 2005 held in Bordeaux France in April 2005 The 25 revised full papers presented were carefully reviewed and selected from over 40 submissions The papers address a wide range of logical and formal methods in computational linguistics with studies of particular grammar formalisms and their computational properties language engineering and traditional topics about the syntax semantics interface Logical Aspects of Computational Linguistics Sylvain Pogodalla, Jean-Philippe Prost, 2011-06-22 This book constitutes the refereed proceedings of the 6th International Conference on Logical Aspects of Computational Linguistics LACL 2011 held in Montpellier France in June July 2011 The 18 revised full papers presented were carefully reviewed and selected from 31 submissions The papers address a wide range of logical and formal methods in computational linguistics such as type theoretic grammars dependency grammars formal language theory grammatical inference minimalism

generation and lexical and formal semantics *Local Modelling of Non-Local Dependencies in Syntax* Artemis Alexiadou, Tibor Kiss, Gereon Müller, 2012-12-06 Syntactic dependencies are often non local They can involve two positions in a syntactic structure whose correspondence cannot be captured by invoking concepts like minimal clause or predicate argument structure Relevant phenomena include long distance movement long distance reflexivization long distance agreement control non local deletion long distance case assignment consecutio temporum extended scope of negation and semantic binding of pronouns A recurring strategy pursued in many contemporary syntactic theories is to model cases of non local dependencies in a strictly local way by successively passing on the relevant information in small domains of syntactic structures The present volume brings together eighteen articles that investigate non local dependencies in movement agreement binding scope and deletion constructions from different theoretical backgrounds among them versions of the Minimalist Program HPSG and Categorical Grammar and based on evidence from a variety of typologically distinct languages This way advantages and disadvantages of local treatments of non local dependencies become evident Furthermore it turns out that local analyses of non local phenomena developed in different syntactic theories spanning the derivational declarative divide often may not only share identical research questions but also rely on identical research strategies The Oxford Handbook of Experimental Syntax Jon Sprouse, 2023-04-15 This volume showcases the contributions that formal experimental methods can make to syntactic research in the 21st century Syntactic theory is both a domain of study in its own right and one component of an integrated theory of the cognitive neuroscience of language It provides a theory of the mediation between sound and meaning a theory of the representations constructed during sentence processing and a theory of the end state for language acquisition Given the highly interactive nature of the theory of syntax this volume defines experimental syntax in the broadest possible terms exploring both formal experimental methods that have been part of the domain of syntax since its inception i e acceptability judgment methods and formal experimental methods that have arisen through the interaction of syntactic theory with the domains of acquisition psycholinguistics and neurolinguistics The Oxford Handbook of Experimental Syntax brings these methods together into a single experimental syntax volume for the first time providing high level reviews of major experimental work offering guidance for researchers looking to incorporate these diverse methods into their own work and inspiring new research that will push the boundaries of the theory of syntax It will appeal to students and scholars from the advanced undergraduate level upwards in a range of fields including syntax acquisition psycholinguistics neurolinguistics and computational linguistics The Mathematics of Language Christian Ebert, Gerhard Jäger, Jens Michaelis, 2010-07-30 Research monographs which may be based on PhD works **Syntactic Effects of Conjunctivist Semantics** Tim Hunter, 2011-07-20 This book explores the syntactic and semantic properties of movement and adjunction in natural language A precise formulation of minimalist syntax is proposed guided by an independently motivated hypothesis about the composition of neo Davidsonian logical forms in which there is no atomic movement operation and no atomic

adjunction operation The terms movement and adjunction serve only as convenient labels for certain combinations of other primitive operations and as a result the system derives non trivial predictions about how movement and adjunction should interact in particular it yields natural explanatory accounts of the constituency of adjunction structures the possibility of counter cyclic attachment and the prohibitions on extraction from adjoined domains adjunct islands and from moved domains freezing effects This work serves as a case study in deriving explanations for syntactic patterns from a restrictive theory of semantic composition and in using an explicit grammatical framework to inform rigorous minimalist theorising

Interfaces + Recursion = Language? Uli Sauerland, Hans-Martin Gärtner, 2008-09-25 Human language is a phenomenon of immense richness It provides finely nuanced means of expression that underlie the formation of culture and society it is subject to subtle unexpected constraints like syntactic islands and cross over phenomena different mutually unintelligible individual languages are numerous and the descriptions of individual languages occupy thousands of pages Recent work in linguistics however has tried to argue that despite all appearances to the contrary the human biological capacity for language may be reducible to a small inventory of core cognitive competencies The most radical version of this view has emerged from the Minimalist Program The claim that language consists of only the ability to generate recursive structures by a computational mechanism On this view all other properties of language must result from the interaction at the interfaces of that mechanism and other mental systems not exclusively devoted to language Since language could then be described as the simplest recursive system satisfying the requirements of the interfaces one can speak of the Minimalist Equation Interfaces Recursion Language The question whether all the richness of language can be reduced to that minimalist equation has already inspired several fruitful lines of research that led to important new results While a full assessment of the minimalist equation will require evidence from many different areas of inquiry this volume focuses especially on the perspective of syntax and semantics Within the minimalist architecture this places our concern with the core computational mechanism and the LF interface where recursive structures are fed to interpretation Specific questions that the papers address are What kind of recursive structures can the core generator form How can we determine what the simplest recursive system is How can properties of language that used to be ascribed to the recursive generator be reduced to interface properties What effects do syntactic operations have on semantic interpretation To what extent do models of semantic interpretation support the LF interface conditions postulated by minimalist syntax

Grammatical theory: From transformational grammar to constraint-based approaches (Fifth revised edition) Stefan Müller, 2023-01-23 This book introduces formal grammar theories that play a role in current linguistic theorizing Phrase Structure Grammar Transformational Grammar Government Binding Generalized Phrase Structure Grammar Lexical Functional Grammar Categorical 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 The second part of the book compares these approaches with respect to their predictions regarding language acquisition and psycholinguistic plausibility The nativism hypothesis which assumes that humans possess genetically determined innate language specific knowledge is critically examined and alternative models of language acquisition are discussed The second part then addresses controversial issues of current theory building such as the question of flat or binary branching structures being 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 suggested in the respective frameworks are often translatable into each other The book closes with a chapter showing how properties common to all languages or to certain classes of languages can be captured

An Introduction to Syntactic Analysis and Theory Dominique Sportiche, Hilda Koopman, Edward Stabler, 2013-12-04 An Introduction to Syntactic Analysis and Theory offers beginning students a comprehensive overview of and introduction to our current understanding of the rules and principles that govern the syntax of natural languages Includes numerous pedagogical features such as practice boxes and sidebars designed to facilitate understanding of both the hows and the whys of sentence structure Guides readers through syntactic and morphological structures in a progressive manner Takes the mystery out of one of the most crucial aspects of the workings of language the principles and processes behind the structure of sentences Ideal for students with minimal knowledge of current syntactic research it progresses in theoretical difficulty from basic ideas and theories to more complex and advanced up to date concepts in syntactic theory

Grammatical theory Stefan Müller, 2020-09-28 This book introduces formal grammar theories that play a role in current linguistic theorizing Phrase Structure Grammar Transformational Grammar Government Binding Generalized Phrase Structure Grammar Lexical Functional Grammar Categorical 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 The second part of the book compares these approaches with respect to their predictions regarding language acquisition and psycholinguistic plausibility The nativism hypothesis which assumes that humans possess genetically determined innate language specific knowledge is critically examined and alternative models of language acquisition are discussed The second part then addresses controversial issues of current theory building such as the question of flat or binary branching structures being 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 suggested in the respective frameworks are often translatable into each other The book closes with a chapter showing how properties common to all languages or to certain classes of languages can be captured The book is a

translation of the German book Grammatiktheorie which was published by Stauffenburg in 2010 This book is a new edition of <http://langsci.press.org/catalog/book/25> <http://langsci.press.org/catalog/book/195> and <http://langsci.press.org/catalog/book/255>

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Handbook of Word Classes Eva van Lier, 2023 This handbook explores multiple facets of the study of word classes also known as parts of speech or lexical categories The contributions showcase the importance of word classes for the whole discipline of linguistics while also highlighting the many ongoing debates in the areas and outlining fruitful avenues for future research

Two-Step Approaches to Natural Language Formalism Frank Morawietz, 2008-08-22 This book presents a unified formal approach to various contemporary linguistic formalisms such as Government Binding Minimalism or Tree Adjoining Grammar Through a careful introduction of mathematical techniques from logic automata theory and universal algebra the book aims at graduate students and researchers who want to learn more about tightly constrained logical approaches to natural language syntax Therefore it features a complete and well illustrated introduction to the connection between declarative approaches formalized in monadic second order logic MSO and generative ones formalized in various forms of automata as well as of tree grammars Since MSO logic on trees yields only context free languages and at least the last two of the formalisms mentioned above clearly belong to the class of mildly context sensitive formalisms it becomes necessary to deal with the problem of the descriptive complexity of the formalisms involved in another way The proposed genuinely new two step approach overcomes this limitation of MSO logic while still retaining the desired tightly controlled formal properties **Two-step Approaches to Natural Language Formalisms** Frank Morawietz, 2003 This book presents

a unified formal approach to various contemporary linguistic formalisms such as Government Binding Minimalism or Tree Adjoining Grammar Through a careful introduction of mathematical techniques from logic automata theory and universal algebra the book aims at graduate students and researchers who want to learn more about tightly constrained logical approaches to natural language syntax Therefore it features a complete and well illustrated introduction to the connection between declarative approaches formalized in monadic second order logic MSO and generative ones formalized in various forms of automata as well as of tree grammars Since MSO logic on trees yields only context free languages and at least the last two of the formalisms mentioned above clearly belong to the class of mildly context sensitive formalisms it becomes necessary to deal with the problem of the descriptive complexity of the formalisms involved in another way The proposed genuinely new two step approach overcomes this limitation of MSO logic while still retaining the desired tightly controlled formal properties

The Biology of Language Under a Minimalist Lens: Promises, Achievements, and Limits Antonio Benítez-Burraco,Koji Fujita,Koji Hoshi,Ljiljana Progovac,2021-03-30

Minimalist Inquiries into Child and Adult Language Acquisition Acrisio Pires,Jason Rothman,2009-06-23 This volume brings together chapters written by specialists in North America Europe and Brazil It includes original research about the acquisition L1 bilingualism and acquisition learning L2 or L3 of dialects of Brazilian and European Portuguese In an effort to maximize volume cohesion the emphasis has been on contributions that present studies exploring both empirical experimental and theoretical aspects of the acquisition of syntax and its interfaces with morphology with semantics pragmatics and with language change Within the generative paradigm alone there are various volumes on the acquisition of other languages but there are no volumes currently in print focusing on the acquisition of Portuguese We believe that it is time for such a volume considering among other factors that Portuguese is the second most widely spoken Romance language second only to Spanish and the seventh most widely spoken language in the world In addition the significant changes that have taken place between Brazilian and European Portuguese especially since the 19th century make the inquiry into the acquisition of the different dialects a source for very productive insights about the connections between linguistic theory language acquisition and language change Finally having a collection of high quality articles in one place pays homage to the importance for linguistic research of investigations into the acquisition of the Portuguese language

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