

# Optimality Theory

(Prince & Smolensky 1993)

- Optimality Theory is a theory of language and grammar in which **well-formedness constraints on outputs** determine grammaticality

*If you don't want phonology to be just a technique for data-compression, you have to seek the locus of explanatory action elsewhere*

(Prince & Smolensky, 1993)

# Optimality Theory In Phonology

**John J. McCarthy**



## **Optimality Theory In Phonology:**

*Doing Optimality Theory* John J. McCarthy, 2011-09-23 *Doing Optimality Theory* brings together examples and practical detailed advice for undergraduates and graduate students working in linguistics. Given that the basic premises of Optimality Theory are markedly different from other linguistic theories, this book presents the analytic techniques and new ways of thinking and theorizing that are required. Explains how to do analysis and research using Optimality Theory. OT, a branch of phonology that has revolutionized the field since its conception in 1993. Offers practical in-depth advice for students and researchers in the field presented in an engaging way. Features numerous examples, questions, and exercises throughout, all helping to illustrate the theory and summarize the core concepts of OT. Written by John J. McCarthy, one of the theory's leading proponents and an instrumental figure in the dissemination and use of OT today. An ideal guide through the intricacies of linguistic analysis and research for beginning researchers and, by example, one which will lead the way to future developments in the field.

**Optimality Theory in Phonology** John J. McCarthy, 2008-04-15 *Optimality Theory in Phonology: A Reader* is a collection of readings on this important new theory by leading figures in the field, including a lengthy excerpt from Prince and Smolensky's never before published *Optimality Theory: Constraint Interaction in Generative Grammar*. Compiles the most important readings about Optimality Theory in phonology from some of the most prominent researchers in the field. Contains 33 excerpts spanning a range of topics in phonology and including many never before published papers. Includes a lengthy excerpt from Prince and Smolensky's foundational 1993 manuscript *Optimality Theory: Constraint Interaction in Generative Grammar*. Includes introductory notes and study research questions for each chapter.

**Optimality Theory** Rene Kager, 1999-06-28 This is an introduction to Optimality Theory whose central idea is that surface forms of language reflect resolutions of conflicts between competing constraints. A surface form is optimal if it incurs the least serious violations of a set of constraints taking into account their hierarchical ranking. Languages differ in the ranking of constraints and any violations must be minimal. The book does not limit its empirical scope to phonological phenomena but also contains chapters on the learnability of OT grammars, OT's implications for syntax, and other issues such as opacity. It also reviews in detail a selection of the considerable research output which OT has already produced. Exercises accompany chapters 1-7 and there are sections on further reading. *Optimality Theory* will be welcomed by any linguist with a basic knowledge of derivational Generative Phonology.

**The Syllable in Optimality Theory** Caroline Féry, Ruben van de Vijver, 2003-01-27 The syllable has always been a key concept in generative linguistics: the rules, representations, parameters, or constraints posited in diverse frameworks of theoretical phonology and morphology all make reference to this fundamental unit of prosodic structure. No less central to the field is Optimality Theory, an approach developed within morpho-phonology in the early 1990s. This 2003 book combines two themes of central importance to linguists and their mutual relevance in recent research. It provides an overview of the role of the syllable in OT and ways in which problems that relate to the

analysis of syllable structure can be solved in OT The contributions to the book not only show that the syllable sheds light on certain properties of OT itself they also demonstrate that OT is capable of describing and adequately analyzing many issues that are problematic in other theories The analyses are based on a wealth of languages Optimality Theory in Phonology John J. McCarthy, 2004 Optimality Theory in Phonology A Reader is a collection of readings on this important new theory by leading figures in the field starting with a lengthy excerpt from the original source Prince and Smolensky's never before published report Optimality Theory Constraint Interaction in Generative Grammar The 33 selections cover a broad range of topics in phonology and include many of the foundational works some of them revised to reflect the most recent developments Optimality Theory in Phonology is designed as a text for advanced phonology courses but is also of interest as a reference work for scholars in the field of linguistics and related disciplines Each chapter includes introductory notes to set the stage and highlight connections as well as a list of study and research questions **A Thematic Guide to Optimality Theory** John J. McCarthy, 2002 Explains and explores the central premises of OT and the results of their praxis Optimality Theory and Language Change D.E. Holt, 2003-08-31 This work discusses many optimization and linguistic issues in great detail It treats the history of a variety of languages including English French Germanic Galician Portuguese Latin Russian and Spanish and shows that the application of Optimality Theory allows for innovative and improved analyses It contains a complete bibliography on OT and language change It is of interest to historical linguists researchers into OT and linguistic theory and phonologists and syntacticians with an interest in historical change **Optimality Theory** Joost Dekkers (linguiste), Frank Reinoud Hugo van der Leeuw, Jeroen Maarten van de Weijer, 2000 The introduction of Optimality Theory OT by Prince and Smolenski in 1995 is frequently seen as the most important development in generative grammar of the 1990s It has profoundly changed the understanding of sound systems it has given a new impetus to the study of language acquisition and its potential for the discovery and explanation of the universal properties of language is increasingly recognized OT substitutes constraints for rules in universal grammar and linguistic performance Constraints are ranked so that a lower ranked constraint may be violated in order to satisfy a higher The assumption that constraints are violable can be considered as the formal correlate of linguistic tendencies whereas their ranking expresses the degree to which individual languages exhibit these tendencies OT may thus be used to describe the characteristics of any language but it is as yet too general to provide a substantive theory of grammar In this book a range of scholars consider the specific properties that an OT grammar should have After an extensive introduction the volume is divided into four parts Parts One and Two are concerned respectively with prosodic representations and segmental phonology Parts Three and Four then consider the application of OT to syntax and syntactic theory and to language acquisition and learnability This wide ranging collection of new work by leading scholars from the USA and Europe will interest linguists and postgraduate students in all the main fields of discipline Its insights and the research it reports will also be valuable to those whose theoretical position is apparently at odds with the

principles of OT      *Optimality Theory* Alan Prince, Paul Smolensky, 2004-09-24 This book is the final version of the widely circulated 1993 Technical Report that introduces a conception of grammar in which well formedness is defined as optimality with respect to a ranked set of universal constraints Final version of the widely circulated 1993 Technical Report that was the seminal work in Optimality Theory never before available in book format Serves as an excellent introduction to the principles and practice of Optimality Theory Offers proposals and analytic commentary that suggest many directions for further development for the professional      Optimality Theory Rene Kager, 1999-06-28 This is an introduction to Optimality Theory whose central idea is that surface forms of language reflect resolutions of conflicts between competing constraints A surface form is optimal if it incurs the least serious violations of a set of constraints taking into account their hierarchical ranking Languages differ in the ranking of constraints and any violations must be minimal The book does not limit its empirical scope to phonological phenomena but also contains chapters on the learnability of OT grammars OT's implications for syntax and other issues such as opacity It also reviews in detail a selection of the considerable research output which OT has already produced Exercises accompany chapters 1-7 and there are sections on further reading Optimality Theory will be welcomed by any linguist with a basic knowledge of derivational Generative Phonology      Segmental Phonology in Optimality Theory Linda Lombardi, 2001-08-27 Optimality theory has rapidly become the dominant framework in formal phonological theory OT fundamentally revises the basic notions of generative grammar replacing rules and derivations with a system of interacting constraints Early work in OT tended to concentrate mainly on prosodic phonology and the phonology morphology interface and it was not initially clear how the theory could attack the rich range of phenomena found in segmental alterations However there is a body of work that concentrates on working out the details of featural phonology with OT and this work shows that the theory allows superior explanations of the typological possibilities and the underlying motivations for these phenomena This volume first published in 2001 brings together work by some of the influential researchers in this area ranging from the authors of influential dissertations to prominent senior faculty      **Optimality Theory - An Introduction** Patrick Schmitz, 2012-03 Seminar paper from the year 2009 in the subject English Language and Literature Studies Linguistics grade 2.0 RWTH Aachen University language English abstract The linguistic model Optimality Theory was for the first time proposed by the linguist Alan Prince Rutgers University New Jersey in cooperation with his colleague Paul Smolensky Johns Hopkins University Baltimore in the year 1993 This representational model has since then been constantly expanded for instance owing to the work of John J McCarthy University of Massachusetts Amherst and other scholars such as Ren Kager in the Netherlands or Caroline F. Fyfe in Germany The studies conducted in this term paper are primarily based upon the work of the aforementioned scholars with a particular focus on the examinations by the three fathers of Optimality Theory viz Prince Smolensky and McCarthy Another fact revealing that this model is a current and productive one is beside the spreading and development of Optimality Theory all over the linguistic world is its applicability

to different subfields of linguistics namely phonology syntax and morphology With reference to its wide use it should be said that this term paper predominantly examines the phonological applicability of this linguistic model The theory itself borrows fundamental aspects from Generative Grammar such as the role of Universal Principles in language which will be pointed out as one of the most important pillars of Optimality Theory in the course of this paper In addition to explaining the fundamental principles and processes in Optimality Theory such as the roles of constraints and various other functions as for example GEN or EVAL in a general introduction chapter 2 I will also report on two case studies chapter 3 one on Tagalog prefix infixation already examined by Prince and Smolensky and one on German Final Devoicing worked upon by Fry The examination of these particular case studies shall prove that

*The Phonology of English : A Prosodic Optimality-Theoretic Approach* Michael Hammond, 1999-04-15 The Phonology of English introduces the subject from an Optimality Theoretic perspective Written by a high profile American phonologist the book presents an analysis of new generalizations about the surface shapes of English words It will not only be the most up to date introduction to English phonology but will also provide the clearest available account of Optimality Theory Its combination of accessibility originality and clear analysis make this essential reading for all those interested in the sounds of English words and some of the latest developments in linguistics theory The Phonology of English offers a new approach to English phonology It focuses on the prosody of the language i e syllable and foot structure and does so from an optimality theoretic OT perspective The focus is on surface distributional regularities and the results presented are based on extensive searches through various computerized lexicons The outcome is a number of new generalizations about the phonology of English along with confirmation of some familiar regularities All of these empirical results are discussed in detail and presented in extensive charts with a plethora of examples The Phonology of English also offers a unique OT analysis This provides a detailed introduction to the intricacies of the theory as applied to a significant amount of data A number of important theoretical proposals are developed in this model and the analysis presents the idea that certain complex constraints and their ranking can be derived in restricted ways from more basic constraints In addition the book also develops the idea that syllables of English can contain from zero to three moras It is suggested that the phonology of English only makes sense if partial morphemes of the cranberry sort are licensed more widely The book is thus intended as a detailed presentation of novel empirical results about the sound system of English along with important theoretical results about phonological theory

*The Derivational Residue in Phonological Optimality Theory* Ben Hermans, Marc van Oostendorp, 1999-01-01 Constraint based frameworks such as Optimality Theory OT have significantly altered phonologists views on the nature of derivations and their role in linguistic theory Earlier frameworks of generative phonology were characterized by a fairly complicated theory of derivations involving lexical levels the cycle and intrinsic and extrinsic rule ordering among other things OT in its standard form on the other hand represents a minimalist theory of derivations recognizing only a direct mapping from input to output This volume addresses questions from many different

points of view by a number of outstanding scholars Is this minimal theory sufficiently well equipped to deal with the empirical complications of natural language or do we need a larger derivational residue in our theory What are the relevant facts and how can we deal with them Are there any reasons to think that an OT based approach to derivations may even be more successful than its rule based competitors The book also features an introduction into the general issues involved and an extensive bibliography *Optimality Theory and Phonetics-phonology Interface* Štefan Beňuš,2009 **Hidden**

**Generalizations** John J. McCarthy,2007-04 Opacity is particularly important in Optimality Theory which lacks the standard means of analyzing opacity rule ordering **BOOK JACKET** *Optimality-theoretic Studies in Spanish Phonology* Fernando Martínez-Gil,Sonia Colina,2006-01-01 This outstanding volume offers the first comprehensive collection of optimality theoretic studies in Spanish phonology Bringing together most of the best known researchers in the field it presents a state of the art overview of research in Spanish phonology within the non derivational framework of optimality theory The book is structured around six major areas of phonological research phonetics phonology interface segmental phonology syllable structure and stress morphophonology language variation and change and language acquisition including general as well as more specialized articles The reader is guided through the volume with the help of the introduction and a detailed index The book will serve as core reading for advanced graduate level phonology courses and seminars in Spanish linguistics and in general linguistics phonology courses It will also constitute an essential reference for researchers in phonology phonological theory and Spanish and related areas such as language acquisition bilingualism education and speech and hearing science

*Resolving Conflicts in Grammars: Optimality Theory in Syntax, Morphology, and Phonology* Gisbert Fanselow,Caroline Féry,2025-06-18 GEREON M LLER Free Word Order Morphological Case and Sympathy Theory VIERI SAMEK LODOVICI Agreement Impoverishment under Subject Inversion JOCHEN TROMMER Modularity in OT Morphosyntax RALF VOGEL Free Relative Constructions in OT Syntax LUIGIO BURZIO Segmental Contrast meets Output to Output Faithfulness JUNKO ITO ARMIN MESTER Lexical and Postlexical Phonology in Optimality Theory Evidence from Japanese MARC VAN OOSTENDORP The Phonological and Morphological Status of the Prosodic Word Adjunct DRAGA ZEC Constraints on Multiple Feature Occurrence GISBERT FANSELOW CAROLINE F RY Ineffability in Grammar **Constraints in Phonological Acquisition**

René Kager,Joe Pater,Wim Zonneveld,2004-01-15 This outstanding 2004 volume presents an overview of linguistic research into the acquisition of phonology Bringing together well known researchers in the field it focuses on constraints in phonological acquisition as opposed to rules and offers concrete examples of the formalization of phonological development in terms of constraint ranking The first two chapters situate the research in its broader context with an introduction by the editors providing a brief general tutorial on Optimality Theory Chapter two serves to highlight the history of constraints in studies of phonological development which predates their current ascent to prominence in phonological theory The remaining chapters address a number of partially overlapping themes the study of child production data in terms of

constraints learnability issues perceptual development and its relation to the development of production and second language acquisition

*The use of Optimality Theory in Word-Formation* Hilde Pols, 2006-04-13 Seminar paper from the year 2005 in the subject English Language and Literature Studies Linguistics grade 1.7 University of Freiburg Englisches Seminar course Hauptseminar Word Formation language English abstract

The still rather young Optimality Theory OT has found its way into the linguistic discipline of word formation triggering many new insights and new points of view. This has mainly taken place when analysing the creation of new words in the English language on a morphological basis. This new point of view revealed new possibilities how the speakers decide on which form is right when coining a new word. But how far is this theory developed? Can we leave all formulated rules behind such as in the form of  $x$  attaches to  $y$  then  $z$  must be applied? This term paper will take a closer look at how OT is applied in derivations. After a historical and explanatory chapter on the theory itself, two investigations by Ingo Plag: The phonology of  $iz$ -derivatives and Renate Raffelsiefen: Phonological constraints on English word formation will be viewed to understand how the theory is applied. Finally, the  $ity$ -suffixation will be observed on the basis of the results of the preceding two chapters. To attain a textual flow for this thesis, the individual constraints used by Plag and Raffelsiefen are summed up and explained in chapter six. Numbers in brackets refer to the page in their article where they have defined the constraint, whilst definitions in angle brackets represent a summary of how the author uses and understands it only in cases when they did not formulate a definition. The reader may observe that a few constraints are listed under different names; this is due to the fact that there does not seem to be a uniform naming scheme, yet therefore the constraints are named according to the authors' use. For the fourth chapter, the Internet was a main reference to build up a corpus of  $ity$ -derived words. A search with OneLook Dictionary provided a selection of 1068 tokens of different derivatives after sorting out phrases, loan words and those which have undergone even further derivation, i.e. Negation from 8560. The choice to use this online dictionary search was made because the website searches through several types of dictionaries in the web, starting from the general ones to the more specialized ones, i.e. linguistic or medical as well as collections of neologisms, i.e. [www.wordspy.com](http://www.wordspy.com).



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## **Table of Contents Optimality Theory In Phonology**

1. Understanding the eBook Optimality Theory In Phonology
  - The Rise of Digital Reading Optimality Theory In Phonology
  - Advantages of eBooks Over Traditional Books
2. Identifying Optimality Theory In Phonology
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Optimality Theory In Phonology
  - User-Friendly Interface
4. Exploring eBook Recommendations from Optimality Theory In Phonology
  - Personalized Recommendations
  - Optimality Theory In Phonology User Reviews and Ratings
  - Optimality Theory In Phonology and Bestseller Lists
5. Accessing Optimality Theory In Phonology Free and Paid eBooks
  - Optimality Theory In Phonology Public Domain eBooks
  - Optimality Theory In Phonology eBook Subscription Services
  - Optimality Theory In Phonology Budget-Friendly Options

6. Navigating Optimality Theory In Phonology eBook Formats
  - ePub, PDF, MOBI, and More
  - Optimality Theory In Phonology Compatibility with Devices
  - Optimality Theory In Phonology Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Optimality Theory In Phonology
  - Highlighting and Note-Taking Optimality Theory In Phonology
  - Interactive Elements Optimality Theory In Phonology
8. Staying Engaged with Optimality Theory In Phonology
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Optimality Theory In Phonology
9. Balancing eBooks and Physical Books Optimality Theory In Phonology
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Optimality Theory In Phonology
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Optimality Theory In Phonology
  - Setting Reading Goals Optimality Theory In Phonology
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Optimality Theory In Phonology
  - Fact-Checking eBook Content of Optimality Theory In Phonology
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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