

# Lecture Notes

## THE SEMANTICS OF DESTRUCTIVE LISP

Ian A. Mason



CENTER FOR THE STUDY  
OF LANGUAGE  
AND INFORMATION

# Semantics Of Destructive Lisp

**Ian A. Mason**



## Semantics Of Destructive Lisp:

**The Semantics of Destructive Lisp** Ian A. Mason,2000      *The Semantics of Destructive Lisp* Ian Mason,1987-04-01

While the semantics of pure lisp is well understood the same cannot be said for the lisp that people actually use due to the presence of so called destructive operations in programs operations like RPLACA and RPLACD that destructively manipulate data Such destructive operations have caused considerable difficulty in bridging the gap between theory program verification and program transformation In this book Ian A Mason aims at squaring theory with practice by first developing a theory that respects practice and then improving practice within this theory Mason s theory is based on a new notion of memory structure that is adequate to model such destructive operations Within this framework he investigates various equivalence relations between expressions in first order lisp This fragment of lisp includes the destructive operations of RPLACA and RPLACD Mason then defines some important equivalence relations in lisp programs within this model theoretic framework

Throughout the work Mason makes a distinction between intensional relations and extensional relations      **The Semantics of Destructive Lisp** Ian Mason,1987-04-01      Higher Order Operational Techniques in Semantics Andrew D.

Gordon,Andrew M. Pitts,1998-01-22 A 1998 collection of original articles by leading researchers in area of programming languages      **Semantics Engineering with PLT Redex** Matthias Felleisen,Robert Bruce Findler,Matthew Flatt,2009-07-10

The first comprehensive presentation of reduction semantics in one volume and the first tool set for such forms of semantics This text is the first comprehensive presentation of reduction semantics in one volume it also introduces the first reliable and easy to use tool set for such forms of semantics Software engineers have long known that automatic tool support is critical for rapid prototyping and modeling and this book is addressed to the working semantics engineer graduate student or professional language designer The book comes with a prototyping tool suite to develop explore test debug and publish semantic models of programming languages With PLT Redex semanticists can formulate models as grammars and reduction models on their computers with the ease of paper and pencil The text first presents a framework for the formulation of language models focusing on equational calculi and abstract machines then introduces PLT Redex a suite of software tools for expressing these models as PLT Redex models Finally experts describe a range of models formulated in Redex PLT Redex comes with the PLT Scheme implementation available free at <http://www.plt-scheme.org> Readers can download the software and experiment with Redex as they work their way through the book      **Foundations of Logic and Functional**

**Programming** Mauro Boscarol,Luigia Carlucci Aiello,1988-04-27 This volume consists of some of the papers that were delivered during the workshop on Foundations of Logic and Functional Programming held in Trento Italy from December 15th to 19th 1986 The meeting centered on themes and trends in Functional Programming and in Logic Programming This book contains five papers contributed by the invited speakers and five selected contributions      *Lisp in Small Pieces*

Christian Queinnec,2003-12-04 This is a comprehensive account of the semantics and the implementation of the whole Lisp

family of languages namely Lisp Scheme and related dialects It describes 11 interpreters and 2 compilers including very recent techniques of interpretation and compilation The book is in two parts The first starts from a simple evaluation function and enriches it with multiple name spaces continuations and side effects with commented variants while at the same time the language used to define these features is reduced to a simple lambda calculus Denotational semantics is then naturally introduced The second part focuses more on implementation techniques and discusses precompilation for fast interpretation threaded code or bytecode compilation towards C Some extensions are also described such as dynamic evaluation reflection macros and objects This will become the new standard reference for people wanting to know more about the Lisp family of languages how they work how they are implemented what their variants are and why such variants exist The full code is supplied and also available over the Net A large bibliography is given as well as a considerable number of exercises Thus it may also be used by students to accompany second courses on Lisp or Scheme

**The Syntax of Anaphoric Binding** Mary Dalrymple, 1993-07 Mary Dalrymple provides a theory of the syntax of anaphoric binding couched in the framework of Lexical Functional Grammar Cross linguistically anaphoric elements vary a great deal One finds long and short distance reflexives sometimes within the same language pronominals may require local noncoreference or coreference only with nonsubjects Analyses of the syntax of anaphoric binding which have attempted to fit all languages into the mold of English are inadequate to account for the rich range of syntactic constraints that are attested How then can the cross linguistic regularities exhibited by anaphoric elements be captured while at the same time accounting for the diversity that is found Dalrymple shows that syntactic constraints on anaphoric binding can be expressed in terms of just three grammatical concepts subject predicate and tense These concepts define a set of complex constraints combinations of which interact to predict the wide range of universally available syntactic conditions that anaphoric elements obey Mary Dalrymple is a member of the research staff of the Natural Language Theory and Technology group at the Xerox Palo Alto Research Center

**The SECD Microprocessor** Brian T. Graham, 2012-12-06 This is a milestone in machine assisted microprocessor verification Gordon 20 and Hunt 32 led the way with their verifications of simple designs Cohn 12 13 followed this with the verification of parts of the VIPER microprocessor This work illustrates how much these and other pioneers achieved in developing tractable models scalable tools and a robust methodology A condensed review of previous research emphasising the behavioural model underlying this style of verification is followed by a careful and remarkably readable account of the SECD architecture its formalisation and a report on the organisation and execution of the automated correctness proof in HOL This monograph reports on Graham's MSc project demonstrating that in the right hands the tools and methodology for formal verification can and therefore should now be applied by someone with little previous expertise in formal methods to verify a non trivial microprocessor in a limited timescale This is not to belittle Graham's achievement the production of this proof working as Graham did from the previous literature goes well beyond a typical MSc project The achievement is that with this exposition to hand an engineer

tackling the verification of similar microprocessor designs will have a clear view of the milestones that must be passed on the way and of the methods to be applied to achieve them **Intelligent Manufacturing:** William A. Gruver, J.C.

Boudreaux, 2013-03-07 Intelligent Manufacturing is part of the Advanced Manufacturing Series edited by Professor D T Pham of the University of Wales College of Cardiff This publication exposes the major issues associated with programming environments for manufacturing and illustrates specific software systems developed for industrial application Clear and concise statements are made on the state of the art and recent trends in manufacturing languages and programming environments The book discusses the diverse approaches that are currently under consideration in North America and Europe It gives the reader an understanding of how manufacturing languages can be used to integrate computer controlled machines and intelligent sensors in automated manufacturing systems including machine tools robots inspection and material handling equipment *Metamathematics, Machines and Gödel's Proof* N. Shankar, 1997-01-30 Describes the use of

computer programs to check several proofs in the foundations of mathematics *The Linguistics of Punctuation* Geoffrey Nunberg, 1990-09 Geoffrey Nunberg challenges a widespread assumption that the linguistic structure of written languages is qualitatively identical to that of spoken language It should no longer be necessary to defend the view that written language is truly language but it is surprising to learn of written language category indicators that are realized by punctuation marks and other figural devices He shows that traditional approaches to these devices tend to describe the features of written language exclusively by analogy to those of spoken language with the result that punctuation has been regarded as an unsystematic and deficient means for presenting spoken language intonation Analysed in its own terms however punctuation manifests a coherent linguistic subsystem of text grammar that coexists in writing with the system of lexical grammar that has been the traditional object of linguistic inquiry A detailed analysis of the category structure of English text sentences reveals a highly systematic set of syntactic and presentational rules that can be described in terms independent of the rules of lexical grammar and are largely matters of the tacit knowledge that writers acquire without formal instruction That these rules obey constraints that are structurally analogous to those of lexical grammar leads Nunberg to label the text grammar an application of the principles of natural language organization to a new domain Geoffrey Nunberg is a researcher at Xerox Palo Alto Research Center

Proceedings of the 1992 ACM Conference on LISP and Functional Programming Association for Computing Machinery, 1992 Situation Theory and Its Applications: Volume 1 Robin Cooper, Kuniaki Mukai, John Perry, Center for the Study of Language and Information (U.S.), 1990 Situation Theory grew out of attempts by Jon Barwise in the late 1970s to provide a semantics for naked infinitive perceptual reports such as Claire saw Jon run Barwise's intuition was that Claire didn't just see Jon an individual but Jon doing something a situation Situations are individuals having properties and standing in relations A theory of situations would allow us to study and compare various types of situations or situation like entities such as facts events and scenes One of the central themes of situation theory of meaning and reference

should be set within a general theory of information one moreover that is rich enough to do justice to perception communication and thought By now many people have contributed by the need to give a rigorous mathematical account of the principles of information that underwrite the theory

**The Proceedings of the 27th Annual Child Language Research Forum** Eve V. Clark, 1995 Since its inception in 1967 the Forum has provided an informal but critical setting for the presentation of new ideas and research on first language acquisition The Forum itself is sponsored by the Linguistics Department at Stanford and is organised by graduate students In this volume the contributors explore their findings in language acquisition in a variety of the world's languages The papers presented here reflect the diversity of interests in the field and the range of languages being studied This volume makes an empirical as well as a theoretical contribution to linguistic research

Situation Theory and Its Applications: Volume 3 Robin Cooper, Peter Aczel, Kuniaki Mukai, John Perry, 1990 Situation theory is the result of an interdisciplinary effort to create a full fledged theory of information Created by scholars and scientists from cognitive science computer science and AI linguistics logic philosophy and mathematics it aims to provide a common set of tools for the analysis of phenomena from all these fields Unlike Shannon Weaver type theories of information which are purely quantitative theories situation theory aims at providing tools for the analysis of the specific content of a situation signal message data base statement or other information carrying situation The question addressed is not how much information is carried but what information is carried

Logic, Language and Computation Neil Jones, Masami Hagiya, Masahiko Sato, 1994-03-30 This volume contains 15 papers from research areas where Japanese theoretical computer science is particularly strong Many are about logic and its realization and applications to computer science others concern synthesis transformation and implementation of programming languages and complexity and coding theory Not coincidentally all the authors are either former students or close colleagues of Satoru Takasu professor and director at the Research Institute of Mathematical Sciences at the University of Kyoto The purpose of this volume is to celebrate Professor Takasu's influence on theoretical computer science in Japan and worldwide by his research his philosophy and his advising of students The breadth depth and quality of the papers are characteristic of his interests and activities

**Formal Modeling: Actors; Open Systems, Biological Systems** Gul Agha, Olivier Danvy, José Meseguer, 2011-10-13 This Festschrift volume published in honor of Carolyn Talcott on the occasion of her 70th birthday contains a collection of papers presented at a symposium held in Menlo Park California USA in November 2011 Carolyn Talcott is a leading researcher and mentor of international renown among computer scientists She has made key contributions to a number of areas of computer science including semantics and verification of programming languages foundations of actor based systems middleware meta architectures and systems Maude and rewriting logic and computational biology The 21 papers presented are organized in topical sections named Essays on Carolyn Talcott actors and programming languages cyberphysical systems middleware and meta architectures formal methods and reasoning tools and

computational biology      **The Situation in Logic** Jon Barwise, 1989 Situation Theory and situation semantics are recent approaches to language and information approaches first formulated by Jon Barwise and John Perry in *Situations and Attitudes* 1983 The present volume collects some of Barwise's papers written since then those directly concerned with relations among logic situation theory and situation semantics Several papers appear here for the first time      *Literature and Cognition* Jerry R. Hobbs, 1990-09-30 Cognitive science with its guiding metaphor of the mind as a computer has made substantial progress towards an understanding of how people comprehend and produce discourse The essays in this book apply these insights to problems in the interpretation of literature The first two chapters present the outline of a cognitive theory of discourse and use it to shed light on some classic issues in literary theory including the roles of the author's intention and the reader's belief systems in the meaning of a literary work The next three chapters are more technical investigations of discourse interpretation metaphor and discourse coherence The framework developed is then used in the examination of two literary works a sonnet by Milton and the novella *Sylvie* by Gérard de Nerval

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