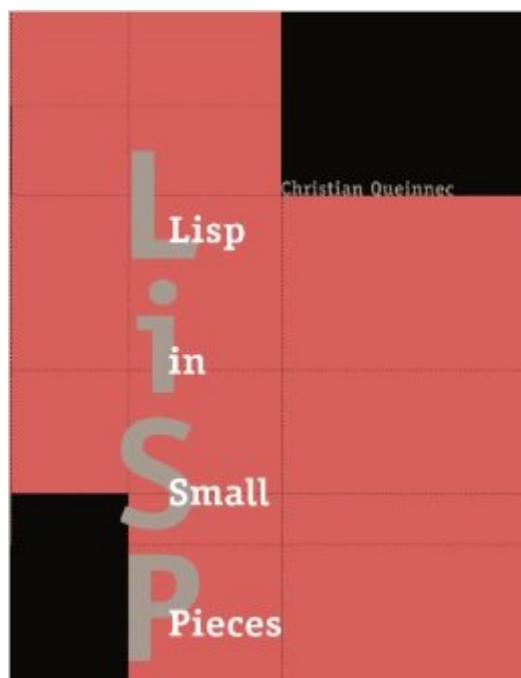


The book was found

Lisp In Small Pieces



Synopsis

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.

Book Information

Paperback: 536 pages

Publisher: Cambridge University Press (December 4, 2003)

Language: English

ISBN-10: 0521545668

ISBN-13: 978-0521545662

Product Dimensions: 6.8 x 1.1 x 9.7 inches

Shipping Weight: 2.6 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars [See all reviews](#) (14 customer reviews)

Best Sellers Rank: #1,008,362 in Books (See Top 100 in Books) #57 in [Books > Computers & Technology > Programming > Languages & Tools > Lisp](#) #1267 in [Books > Textbooks > Computer Science > Software Design & Engineering](#) #2704 in [Books > Computers & Technology > Programming > Software Design, Testing & Engineering > Software Development](#)

Customer Reviews

I'm not a professional reviewer. But I program a lot, and for a living. After more than 15 years of experience in algorithm development and user interface design, to name some extremes, I get the feeling that "traditional" computer programming languages like C (C++, C#, Objective C) and Pascal

(Modula, Oberon, ADA) and even oldtimers as Cobol and Fortran tend to develop, or rather mature, into languages getting closer and closer to Lisp, Algol, and their ultimate offspring, Scheme. This is not without reason. But although the many qualities of Lisp have long since been known in academia, they need time and, more important, good reference material, to find their way into the real world. Lisp programmers know the value of everything, but the cost of nothing, it is said.

Christian Queinnec neatly fills the gap in our knowledge in a book that is a hard read because of the density of the content, but also a fun book because all the source is there (available through the Internet, of course) to experiment with. You will not only gain insight into the workings of your Lisp system. You will gain insight into the basic elements of computer programming languages and their reason for being, their implementation, and the benefits and costs they will bring you. All in all, one of the best books on Lisp I have ever almost, but not completely grokked. I sincerely believe that tomorrow's programming languages, whether they be called C** or Delphi 2010, will be closer to current Lisp than to current C or Pascal, and a way to efficiently implement these languages is available here and now. The book covers all standard material like direct interpretation, compilation towards a virtual machine using bytecodes, and compilation to C.

[Download to continue reading...](#)

Lisp in Small Pieces On Lisp: Advanced Techniques for Common Lisp LISP, Lore, and Logic: An Algebraic View of LISP Programming, Foundations, and Applications Successful Lisp: How to Understand and Use Common Lisp Get Set! Piano Pieces Book 1: Pieces book 1 Comedy Writing for Late-Night TV: How to Write Monologue Jokes, Desk Pieces, Sketches, Parodies, Audience Pieces, Remotes, and Other Short-Form Comedy Easy Duets from Around the World for Flute and Oboe: 26 pieces arranged for two equal players who know all the basics. Includes several Christmas pieces. All are in easy keys. Pieces of my Heart (Pieces #3) Falling to Pieces (Pieces #1) Don't Sweat the Small Stuff and It's All Small Stuff: Simple Ways to Keep the Little Things From Taking Over Your Life (Don't Sweat the Small Stuff Series) Paradigms of Artificial Intelligence Programming: Case Studies in Common Lisp Common LISP. The Language. Second Edition AutoLISP to Visual LISP: Design Solutions: Design Solutions for AutoCAD 2000 (Autodesk's Programmer Series) ANSI Common LISP Common LISP: A Gentle Introduction to Symbolic Computation (Dover Books on Engineering) Lisp (3rd Edition) Common Lisp The Elements of Artificial Intelligence Using Common LISP Artificial Intelligence with Common Lisp: Fundamentals of Symbolic and Numeric Processing Build Your Own Lisp

[Dmca](#)