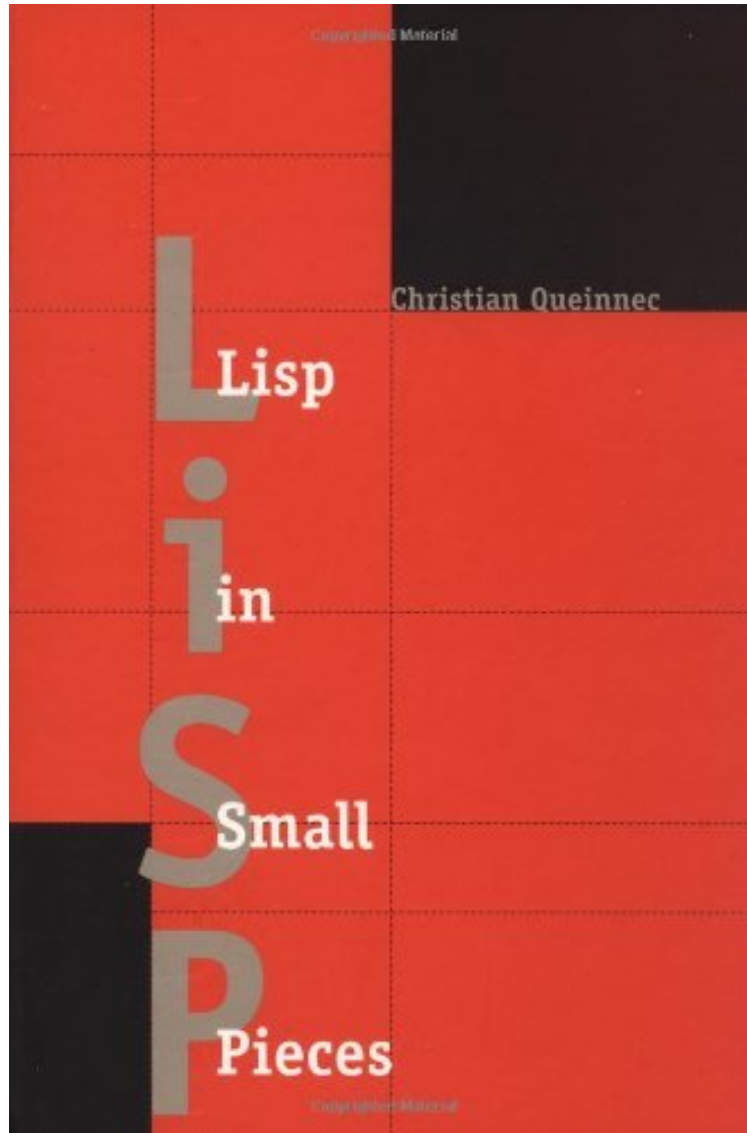


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Lisp in Small Pieces

Von Christian Queinnec

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Von Christian Queinnec : Lisp in Small Pieces before purchasing it in order to gage whether or not it would be worth my time, and all praised Lisp in Small Pieces:

KundenrezensionenHilfreichste Kundenrezensionen10 von 10 Kunden fanden die folgende Rezension hilfreich. The best book available on Lisp implementationVon Peter NorvigThis is an excellent book on Lisp implementation. You'll get a lot out of it, whether you are interested in writing compilers and interpreters (for Lisp or any language) or whether you just want to see how Lisp works. It is the modern day successor to Allen's "Anatomy of Lisp".6 von 6

Kunden fanden die folgende Rezension hilfreich. Good book on functional languages. Von Ray Dillinger This is the English Translation of a book originally published in French, under the title Les Langages Lisp. In it, Quinniec covers a variety of different approaches to interpretation and compilation. Typically, an idea is presented with a chapter discussing the issues related to it -- then in the following chapter, a compiler or interpreter that implements it correctly. He covers compilation to C, compilation to bytecodes, direct interpretation, token-reduced interpretation, denotational semantics, lambda-calculus, continuations, macros, and an object system. It's well-written and engaging, and unlike some translations, the English is handled very well. The primary language being considered (and used) is Scheme -- arguably the easiest LISP dialect to implement and the hardest to implement well.

Kurzbeschreibung 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. Pressestimmen "This is a good, solid book. The writing is subtle, but clear. It is certainly worth reading for anyone..." C.M. Holt, Computing sber das Produkt This is a comprehensive account of the semantics and the implementation of the whole Lisp family of languages, namely Lisp, Scheme and related dialects. 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).