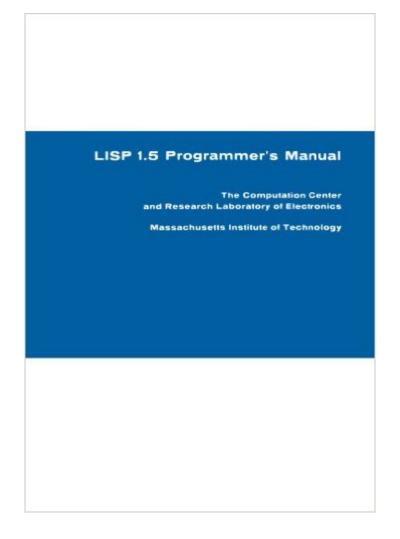
The book was found

# LISP 1.5 Programmer's Manual





## Synopsis

The LISP language is designed primarily for symbolic data processing used for symbolic calculations in differential and integral calculus, electrical circuit theory, mathematical logic, game playing, and other fields of artificial intelligence. The manual describes LISP, a formal mathematical language. LISP differs from most programming languages in three important ways. The first way is in the nature of the data. In the LISP language, all data are in the form of symbolic expressions usually referred to as S-expressions, of indefinite length, and which have a branching tree-type of structure, so that significant subexpressions can be readily isolated. In the LISP system, the bulk of the available memory is used for storing S-expressions in the form of list structures. The second distinction is that the LISP language is the source language itself which specifies in what way the S-expressions. Thus, like machine language, and unlike most other high level languages, it can be used to generate programs for further executions.

### **Book Information**

Series: MIT Press Paperback: 112 pages Publisher: The MIT Press; 2nd edition (August 15, 1962) Language: English ISBN-10: 0262130114 ISBN-10: 0262130110 Product Dimensions: 6.9 x 0.3 x 9.8 inches Shipping Weight: 9.8 ounces (View shipping rates and policies) Average Customer Review: 4.5 out of 5 stars Â See all reviews (4 customer reviews) Best Sellers Rank: #1,482,102 in Books (See Top 100 in Books) #86 in Books > Computers & Technology > Programming > Languages & Tools > Lisp #4836 in Books > Textbooks > Computer Science > Programming Languages #10912 in Books > Computers & Technology >

### **Customer Reviews**

The LISP programming language was invented by John McCarthy in the late 1950s when he was co-director of the MIT artificial intelligence group. Unlike all other programming languages, LISP is also a simple elegant mathematical formalism which could be called a generalized arithmetic. LISP is also unique in that the language and the data are a single unified formalism. To see how far LISP

has gone since then, one should read Common LISP: the Language, by Guy Steele. (There are also several excellent tutorial type books.) I was an undergraduate student at that time, and as member of the group wrote the LISP 1.5 Programmer's Manual which was later published as a book by the MIT Press. Today, it is of interest as a historical document only. (The book lists the members of the group at that time, and states that the manual was written by M. Levin)

This book is not just of historical interest. Much has changed since 1962 but not that much. This book is THE reference for implementing dynamically scoped Lisps.

A great read about LISP. Short, concise, and clear - this book made me appreciate LISP on a whole new level.

I now understand why this book is revered, even though I know lisp for years (and even though I've read SICP)

#### Download to continue reading...

XSLT 2.0 Programmer's Reference (Programmer to Programmer) LISP 1.5 Programmer's Manual 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 AutoLISP to Visual LISP: Design Solutions: Design Solutions for AutoCAD 2000 (Autodesk's Programmer Series) Programmer's Guide to Common LISP Object-Oriented Programming in COMMON LISP: A Programmer's Guide to CLOS Professional Jini (Programmer to Programmer) Microsoft Win32 Programmer's Reference Library: Multimedia (Microsoft Windows) Programmer's Reference Library) Microsoft Win32 Programmer's Reference: Introduction Platforms, and Index (Microsoft Windows Programmer's Reference Library) Professional ASP.NET 2.0 AJAX (Programmer to Programmer) Java Programmer's Reference: Programmer's Reference Professional JSP: Using JavaServer Pages, Servlets, EJB, JNDI, JDBC, XML, XSLT, and WML to Create Dynamic and Customizable Web Content (Programmer to Programmer) Professional Xsl (Programmer to programmer) Professional Microsoft SQL Server 2014 Integration Services (Wrox Programmer to Programmer) Beginning ASP.NET 4.5.1: in C# and VB (Wrox Programmer to Programmer) Beginning Perl (Programmer to Programmer) Unix Programmer's Manual: v. 2 Unix Programmer's Manual: v. 1

<u>Dmca</u>