

PRENTICE-HALL SERIES IN AUTOMATIC COMPUTATION

# PROGRAMMING LANGUAGES: History and Fundamentals

JEAN E. SAMMET

# Programming Languages History And Fundamentals

**Terry M. Walker**



## **Programming Languages History And Fundamentals:**

**Programming Languages: History and Fundamentals** Jean E. Sammet, 1969 The primary purpose of this book is to serve as a reference for an overall view of higher level languages The book brings together in one place and in a consistent fashion fundamental information on programming languages including history general characteristics similarities and differences A second purpose of the book is to provide specific basic information on all the significant and most of the minor higher level languages developed in the United States The third purpose of the book is to provide history and perspective for this particular aspect of the programming field Preface **Fundamentals of Programming Languages E.**

Horowitz, 2012-12-06 I always worked with programming languages because it seemed to me that until you could understand those you really couldn't understand computers Understanding them doesn't really mean only being able to use them A lot of people can use them without understanding them Christopher Strachey The development of programming languages is one of the finest intellectual achievements of the new discipline called Computer Science And yet there is no other subject that I know of that has such emotionalism and mystique associated with it Thus my attempt to write about this highly charged subject is taken with a good deal of caution Nevertheless in my role as Professor I have felt the need for a modern treatment of this subject Traditional books on programming languages are like abbreviated language manuals but this book takes a fundamentally different point of view I believe that the best possible way to study and understand today's programming languages is by focusing on a few essential concepts These concepts form the outline for this book and include such topics as variables expressions statements typing scope procedures data types exception handling and concurrency By understanding what these concepts are and how they are realized in different programming languages one arrives at a level of comprehension far greater than one gets by writing some programs in a vi vB Preface few languages Moreover knowledge of these concepts provides a framework for understanding future language designs [Programming Language Essentials](#)

Henri E. Bal, Dick Grune, 1994 This book looks the variety of modern programming languages and uses them to illustrate the following major programming paradigms imperative object oriented functional and logic languages and languages for parallel and distributed systems [Broad Band](#) Claire L. Evans, 2020-07-07 If you loved Hidden Figures or The Rise of the Rocket Girls you'll love Claire Evans breakthrough book on the women who brought you the internet written out of history until now This is a radically important timely work says Miranda July filmmaker and author of The First Bad Man The history of technology you probably know is one of men and machines garages and riches alpha nerds and programmers but from Ada Lovelace who wrote the first computer program in the Victorian Age to the cyberpunk Web designers of the 1990s female visionaries have always been at the vanguard of technology and innovation In fact women turn up at the very beginning of every important wave in technology They may have been hidden in plain sight their inventions and contributions touching our lives in ways we don't even realize but they have always been part of the story VICE reporter and YACHT lead singer Claire L

Evans finally gives these unsung female heroes their due with her insightful social history of the Broad Band the women who made the internet what it is today Seek inspiration from Grace Hopper the tenacious mathematician who democratized computing by leading the charge for machine independent programming languages after World War II Meet Elizabeth Jake Feinler the one woman Google who kept the earliest version of the Internet online and Stacy Horn who ran one of the first ever social networks on a shoestring out of her New York City apartment in the 1980s Join the ranks of the pioneers who defied social convention to become database poets information wranglers hypertext dreamers and glass ceiling shattering dot com era entrepreneurs This inspiring call to action shines a light on the bright minds whom history forgot and shows us how they will continue to shape our world in ways we can no longer ignore Welcome to the Broad Band You re next

Fundamental Concepts of Programming Systems Jeffrey D. Ullman,1976 *Introduction to Programming Languages* William Wesley Peterson,1974 This book provides students the essentials of programming languages such as BASIC FORTRAN ALGOL PL 1 APL COBOL SNOBOL **History of Programming Languages** Richard L. Wexelblat,2014-05-27 History of Programming Languages presents information pertinent to the technical aspects of the language design and creation This book provides an understanding of the processes of language design as related to the environment in which languages are developed and the knowledge base available to the originators Organized into 14 sections encompassing 77 chapters this book begins with an overview of the programming techniques to use to help the system produce efficient programs This text then discusses how to use parentheses to help the system identify identical subexpressions within an expression and thereby eliminate their duplicate calculation Other chapters consider FORTRAN programming techniques needed to produce optimum object programs This book discusses as well the developments leading to ALGOL 60 The final chapter presents the biography of Adin D Falkoff This book is a valuable resource for graduate students practitioners historians statisticians mathematicians programmers as well as computer scientists and specialists *The Anatomy of Programming Languages* Alice E. Fischer,Frances Schlamowitz Grodzinsky,1993 A comprehensive discussion of the components of programming languages which emphasises how a language is built It covers core concepts including specification objects expressions control and types with discussions of fundamentals implementations strategies and related semantic issues **Programming Language** Jean E. Sammet,1969 **A Bibliographic Guide to the History of Computing, Computers, and the Information Processing Industry** ,1990-05-21 As millions of people have been exposed to computing through the tremendous growth of microcomputers there has developed an increasing appreciation of the history of data processing which dates back many decades before the arrival of the computer Stretching back to at least the 1860s such early technologies as adding machines punch cards and the office appliance industry are now being recognized for their place in the history of the information processing industry This work brings together a comprehensive list of sources that offer a general introduction to the literature of the industry Divided into nine chapters covering topics and historical

periods the bibliography provides an annotated list of published materials describing both the history of the industry and significant items of general interest Each chapter is introduced with a short review of historically important issues and comments on the literature and contains contemporary publications as well as more recent material To give the work a continuing usefulness ongoing publications such as computer magazines are highlighted Entries are grouped under nearly 100 subheadings covering such material as contemporary descriptions of hardware and software of the past seminal technical papers industry surveys programming languages significant individuals and companies and the role of Japan and microcomputing All citations are annotated with a brief summary of either the work s contents or its historical importance while two indexes provide both subject references and author citations This bibliography will be an important reference source for courses in the history of data processing and business history and a useful addition to public college and university libraries

**Computer Basics for Librarians and Information Scientists** Howard Fosdick,1981 Analyzes computer systems and concepts in the context and language of the librarian and information scientist Topics covered include personnel management for automated systems system storage considerations support software documentation and mini and microcomputer systems *Programming Languages* Terrence W. Pratt,1984

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**International Computer Bibliography: a Guide to Books on the Use, Application and Effect of Computers in Scientific, Commercial, Industrial and Social Environments** Stichting Studiecentrum voor Administratieve Automatisering,1968

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