

Acces PDF Elements Of
Programming Paul Mcjones

Elements Of Programming Paul Mcjones

"This book is a great
introduction to the core

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principles of generic programming for the experienced programmer. The authors work through examples showing how to analyze the requirements of an algorithm and make it as general as possible.

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The book includes several programming "laws" of particular interest to those building software components. The authors show how programmers can become more effective by learning about the idea of

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abstraction and the math it relies on. In an engaging and accessible fashion, they describe how these mathematical results were first discovered and are surprisingly useful in programming."--Publisher's

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website.

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

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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

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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

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within an expression and thereby eliminate their duplicate calculation. Other chapters consider FORTRAN programming techniques needed to produce optimum object programs. This book discusses

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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,

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mathematicians, programmers,
as well as computer scientists
and specialists.

Gerard Medioni and Sing Bing
Kang present advances in
computer vision such as camera
calibration, multi-view geometry,

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and face detection, and introduce important new topics such as vision for special effects and the tensor voting framework. They begin with the fundamentals, cover select applications in detail, and

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introduce two popular approaches to computer vision programming.

This book is a comprehensive introductory presentation of the key research areas in the interdisciplinary fields of

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sonification and auditory display. Chapters are written by leading experts, providing a wide-ranging coverage of the central issues, and can be read from start to finish, or dipped into as required. Sonification conveys

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information by using non-speech sounds. To listen to data as sound and noise can be a surprising new experience with diverse applications ranging from novel interfaces for visually impaired people to data analysis

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problems in many scientific fields. This book gives a solid introduction to the field of auditory display, the techniques for sonification, suitable technologies for developing sonification algorithms, and the

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most promising application areas. The book is accompanied by an online repository of sound examples.

Programming with Types
The Politics of Electoral Systems
Functional Programming and

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Input/Output

The Origins Of The Internet

International Seminar on Generic
Programming Dagstuhl Castle,

Germany, April 27 - May 1, 1998,

Selected Papers

Accidental Empires

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Over the past two decades, there has been a huge amount of innovation in both the principles and practice of operating systems Over the same period, the core ideas in a modern operating system -

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*protection, concurrency,
virtualization, resource
allocation, and reliable storage -
have become widely applied
throughout computer science.
Whether you get a job at
Facebook, Google, Microsoft, or*

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any other leading-edge technology company, it is impossible to build resilient, secure, and flexible computer systems without the ability to apply operating systems concepts in a variety of settings.

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This book examines the both the principles and practice of modern operating systems, taking important, high-level concepts all the way down to the level of working code.

Because operating systems

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concepts are among the most difficult in computer science, this top to bottom approach is the only way to really understand and master this important material.

Software programs are formal

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entities with precise meanings independent of their programmers, so the transition from ideas to programs necessarily involves a formalisation at some point. The first part of this graduate-level

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*introduction to formal methods
develops an understanding of
what constitutes formal
methods and what their place is
in Software Engineering. It also
introduces logics as languages
to describe reasoning and the*

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process algebra CSP as a language to represent behaviours. The second part offers specification and testing methods for formal development of software, based on the modelling languages

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CASL and UML. The third part takes the reader into the application domains of normative documents, human machine interfaces, and security. Use of notations and formalisms is uniform

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throughout the book. Topics and features: Explains foundations, and introduces specification, verification, and testing methods Explores various application domains Presents realistic and practical examples,

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*illustrating concepts Brings
together contributions from
highly experienced educators
and researchers Offers
modelling and analysis methods
for formal development of
software Suitable for graduate*

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and undergraduate courses in software engineering, this uniquely practical textbook will also be of value to students in informatics, as well as to scientists and practical engineers, who want to learn

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*about or work more effectively
with formal theories and
methods. Markus Roggenbach is
a Professor in the Dept. of
Computer Science of Swansea
University. Antonio Cerone is an
Associate Professor in the Dept.*

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*of Computer Science of
Nazarbayev University, Nur-
Sultan. Bernd-Holger Schlingloff
is a Professor in the Institut für
Informatik of Humboldt-
Universität zu Berlin. Gerardo
Schneider is a Professor in the*

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*Dept. of Computer Science and
Engineering of University of
Gothenburg. Siraj Ahmed Shaikh
is a Professor in the Institute for
Future Transport and Cities of
Coventry University.*

With an emphasis on passive

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sampling, this volume focuses on the environmental monitoring for common gaseous pollutants. It offers an overview of the history and nature of pollutants of concern to museums and the challenges

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*facing scientists, conservators,
and managers seeking to
develop target pollutant
guidelines to protect cultural
property.*

*Highly accessible treatment
covers cons cell structures,*

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evaluation rules, programs as data, recursive and applicable programming styles. Nearly 400 illustrations, answers to exercises, "toolkit" sections, and a variety of complete programs. 1990 edition.

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Examples in TypeScript

Elements of Programming

C++ Primer Plus

A Tour of C++

LISP 1.5 Programmer's Manual

Where Wizards Stay Up Late

Twenty five years ago, it didn't exist.

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Today, twenty million people worldwide are surfing the Net. Where Wizards Stay Up Late is the exciting story of the pioneers responsible for creating the most talked about, most influential, and most far-reaching communications breakthrough since the invention of the telephone. In the 1960's, when computers

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where regarded as mere giant calculators, J.C.R. Licklider at MIT saw them as the ultimate communications devices. With Defense Department funds, he and a band of visionary computer whizzes began work on a nationwide, interlocking network of computers. Taking readers behind the scenes, Where Wizards Stay

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*Up Late captures the hard work, genius,
and happy accidents of their daring,
stunningly successful venture.*

*The latest edition of a popular text and
reference on database research, with
substantial new material and revision;
covers classical literature and recent hot
topics. Lessons from database research*

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have been applied in academic fields ranging from bioinformatics to next-generation Internet architecture and in industrial uses including Web-based e-commerce and search engines. The core ideas in the field have become increasingly influential. This text provides both students and professionals

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*with a grounding in database research
and a technical context for understanding
recent innovations in the field. The
readings included treat the most
important issues in the database area--the
basic material for any DBMS
professional. This fourth edition has been
substantially updated and revised, with 21*

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of the 48 papers new to the edition, four of them published for the first time. Many of the sections have been newly organized, and each section includes a new or substantially revised introduction that discusses the context, motivation, and controversies in a particular area, placing it in the broader perspective of database

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research. Two introductory articles, never before published, provide an organized, current introduction to basic knowledge of the field; one discusses the history of data models and query languages and the other offers an architectural overview of a database system. The remaining articles range from the classical literature on

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database research to treatments of current hot topics, including a paper on search engine architecture and a paper on application servers, both written expressly for this edition. The result is a collection of papers that are seminal and also accessible to a reader who has a basic familiarity with database systems.

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*The C++11 standard allows programmers to express ideas more clearly, simply, and directly, and to write faster, more efficient code. Bjarne Stroustrup, the designer and original implementer of C++, thoroughly covers the details of this language and its use in his definitive reference, **The C++ Programming***

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Language, Fourth Edition. In A Tour of C++ , Stroustrup excerpts the overview chapters from that complete reference, expanding and enhancing them to give an experienced programmer—in just a few hours—a clear idea of what constitutes modern C++. In this concise, self-contained guide, Stroustrup covers most

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major language features and the major standard-library components—not, of course, in great depth, but to a level that gives programmers a meaningful overview of the language, some key examples, and practical help in getting started. Stroustrup presents the C++ features in the context of the

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programming styles they support, such as object-oriented and generic programming. His tour is remarkably comprehensive. Coverage begins with the basics, then ranges widely through more advanced topics, including many that are new in C++11, such as move semantics, uniform initialization, lambda expressions,

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improved containers, random numbers, and concurrency. The tour ends with a discussion of the design and evolution of C++ and the extensions added for C++11. This guide does not aim to teach you how to program (see Stroustrup's Programming: Principles and Practice Using C++ for that); nor will it be the

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only resource you'll need for C++ mastery (see Stroustrup's The C++ Programming Language, Fourth Edition, for that). If, however, you are a C or C++ programmer wanting greater familiarity with the current C++ language, or a programmer versed in another language wishing to gain an accurate picture of the nature

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and benefits of modern C++, you can't find a shorter or simpler introduction than this tour provides.

Electoral systems matter. They are a crucial link in the chain connecting the preferences of citizens to the policy choices made by governments. They are chosen by political actors and, once in

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existence, have political consequences for those actors. They are an important object of study for anyone interested in the political process, and in this book we subject them to systematic analysis. In addition to some comparative chapters, the book contains full accounts of the operation of electoral systems in 22

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countries: France, the UK, Germany, Italy, Israel, Spain, Austria, Belgium, Denmark, Finland, The Netherlands, Ireland, Hungary, Russia, Australia, Canada, India, the USA, Japan, New Zealand, Chile, and South Africa. The book provides detailed analyses of the operation of a diverse set of electoral

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systems in their national context. Each chapter explains how the electoral system really works in the given country, examining the strategic incentives the system provides to voters, candidates, and parties. All country chapters have a common format and structure. Successive sections analyse: the institutional context;

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how each electoral system was chosen historically; how the current electoral system operates (the rules, mechanics, and ballot structure); and the political consequences of the current system (the impact on the party system, the internal life of parties, and the impact on parliament and government formation).

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Each country chapter then contains a final section which focuses on the politicization of electoral institutions. In recent years many countries have changed their electoral systems, either entirely or in part so there is a strong focus on the processes of electoral reform, both historically and prospectively. The book

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concentrates on the real world 'politics', as well as the 'political science' of electoral systems. The book will be of interest to those concerned with the practical political business of electoral reform. The book contains a wealth of evidence about the performance of various kinds of proportional

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*representation and of non-PR systems.
This will be invaluable for anyone
interested in the question: 'What would be
the best electoral system for my country?'*
Device-independent Graphics
*Learn to Program in Lisp, One Game at a
Time!*

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Statistical Computing with R
Goals for Software Developers
Operating Systems

Structure and Interpretation of Computer Programs by Harold Abelson and Gerald Jay Sussman is licensed under a Creative Commons Attribution-NonCommercial 3.0 License.

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C++ Primer Plus, Sixth Edition New
C++11 Coverage C++ Primer Plus is a
carefully crafted, complete tutorial on one
of the most significant and widely used
programming languages today. An
accessible and easy-to-use self-study
guide, this book is appropriate for both
serious students of programming as well

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as developers already proficient in other languages. The sixth edition of C++ Primer Plus has been updated and expanded to cover the latest developments in C++, including a detailed look at the new C++11 standard. Author and educator Stephen Prata has created an introduction to C++ that is instructive, clear, and

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insightful. Fundamental programming concepts are explained along with details of the C++ language. Many short, practical examples illustrate just one or two concepts at a time, encouraging readers to master new topics by immediately putting them to use. Review questions and programming exercises at the end of each

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chapter help readers zero in on the most critical information and digest the most difficult concepts. In C++ Primer Plus, you'll find depth, breadth, and a variety of teaching techniques and tools to enhance your learning: A new detailed chapter on the changes and additional capabilities introduced in the C++11 standard

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Complete, integrated discussion of both basic C language and additional C++ features Clear guidance about when and why to use a feature Hands-on learning with concise and simple examples that develop your understanding a concept or two at a time Hundreds of practical sample programs Review questions and

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programming exercises at the end of each chapter to test your understanding

Coverage of generic C++ gives you the greatest possible flexibility Teaches the ISO standard, including discussions of templates, the Standard Template Library, the string class, exceptions, RTTI, and namespaces Table of Contents 1: Getting

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Started with C++ 2: Setting Out to C++ 3:
Dealing with Data 4: Compound Types 5:
Loops and Relational Expressions 6:
Branching Statements and Logical
Operators 7: Functions: C++'s
Programming Modules 8: Adventures in
Functions 9: Memory Models and
Namespaces 10: Objects and Classes 11:

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Working with Classes 12: Classes and
Dynamic Memory Allocation 13: Class
Inheritance 14: Reusing Code in C++ 15:
Friends, Exceptions, and More 16: The
string Class and the Standard Template
Library 17: Input, Output, and Files 18:
The New C++11 Standard A Number
Bases B C++ Reserved Words C The

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ASCII Character Set D Operator
Precedence E Other Operators F The
stringTemplate Class G The Standard
Template Library Methods and Functions
H Selected Readings and Internet
Resources I Converting to ISO Standard
C++ J Answers to Chapter Reviews
The term arthrogyriposis describes a range

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of congenital contractures that lead to childhood deformities. It encompasses a number of syndromes and sporadic deformities that are rare individually but collectively are not uncommon. Yet, the existing medical literature on arthrogyryposis is sparse and often confusing. The aim of this book is to

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provide individuals affected with arthrogyriposis, their families, and health care professionals with a helpful guide to better understand the condition and its therapy. With this goal in mind, the editors have taken great care to ensure that the presentation of complex clinical information is at once scientifically

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accurate, patient oriented, and accessible to readers without a medical background. The book is authored primarily by members of the medical staff of the Arthrogryposis Clinic at Children's Hospital and Medical Center in Seattle, Washington, one of the leading teams in the management of the condition, and will

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be an invaluable resource for both health care professionals and families of affected individuals.

This book celebrates Michael Stonebraker's accomplishments that led to his 2014 ACM A.M. Turing Award "for fundamental contributions to the concepts and practices underlying modern database

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systems." The book describes, for the broad computing community, the unique nature, significance, and impact of Mike's achievements in advancing modern database systems over more than forty years. Today, data is considered the world's most valuable resource, whether it is in the tens of millions of databases used

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to manage the world's businesses and governments, in the billions of databases in our smartphones and watches, or residing elsewhere, as yet unmanaged, awaiting the elusive next generation of database systems. Every one of the millions or billions of databases includes features that are celebrated by the 2014

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Turing Award and are described in this book. Why should I care about databases? What is a database? What is data management? What is a database management system (DBMS)? These are just some of the questions that this book answers, in describing the development of data management through the

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achievements of Mike Stonebraker and his over 200 collaborators. In reading the stories in this book, you will discover core data management concepts that were developed over the two greatest eras (so far) of data management technology. The book is a collection of 36 stories written by Mike and 38 of his collaborators: 23

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world-leading database researchers, 11 world-class systems engineers, and 4 business partners. If you are an aspiring researcher, engineer, or entrepreneur you might read these stories to find these turning points as practice to tilt at your own computer-science windmills, to spur yourself to your next step of innovation

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and achievement.

Languages, Methods, Application
Domains

Cybernetics in C++

Common LISP

History of Programming Languages

Prolog and Natural-Language Analysis

Funding a Revolution

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Systems programming provides the foundation for the world's computation. Writing performance-sensitive code requires a programming language that puts programmers in control of how memory, processor time,

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and other system resources are used. The Rust systems programming language combines that control with a modern type system that catches broad classes of common mistakes, from memory management errors to data

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races between threads. With this practical guide, experienced systems programmers will learn how to successfully bridge the gap between performance and safety using Rust. Jim Blandy, Jason Orendorff, and

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Leonora Tindall demonstrate how Rust's features put programmers in control over memory consumption and processor use by combining predictable performance with memory safety and trustworthy concurrency.

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You'll learn: Rust's
fundamental data types and
the core concepts of
ownership and borrowing How
to write flexible, efficient
code with traits and
generics How to write fast,
multithreaded code without

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data races Rust's key power
tools: closures, iterators,
and asynchronous programming
Collections, strings and
text, input and output,
macros, unsafe code, and
foreign function interfaces
This revised, updated

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edition covers the Rust 2021
Edition.

This book provides a broad
survey of models and
efficient algorithms for
Nonnegative Matrix
Factorization (NMF). This
includes NMF's various

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extensions and
modifications, especially
Nonnegative Tensor
Factorizations (NTF) and
Nonnegative Tucker
Decompositions (NTD).
NMF/NTF and their extensions
are increasingly used as

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tools in signal and image processing, and data analysis, having garnered interest due to their capability to provide new insights and relevant information about the complex latent relationships

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in experimental data sets. It is suggested that NMF can provide meaningful components with physical interpretations; for example, in bioinformatics, NMF and its extensions have been successfully applied to

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gene expression, sequence analysis, the functional characterization of genes, clustering and text mining. As such, the authors focus on the algorithms that are most useful in practice, looking at the fastest, most

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robust, and suitable for large-scale models. Key features: Acts as a single source reference guide to NMF, collating information that is widely dispersed in current literature, including the authors' own

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recently developed techniques in the subject area. Uses generalized cost functions such as Bregman, Alpha and Beta divergences, to present practical implementations of several types of robust algorithms,

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in particular

Multiplicative, Alternating
Least Squares, Projected
Gradient and Quasi Newton
algorithms. Provides a
comparative analysis of the
different methods in order
to identify approximation

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error and complexity.
Includes pseudo codes and
optimized MATLAB source
codes for almost all
algorithms presented in the
book. The increasing
interest in nonnegative
matrix and tensor

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factorizations, as well as decompositions and sparse representation of data, will ensure that this book is essential reading for engineers, scientists, researchers, industry practitioners and graduate

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students across signal and
image processing;
neuroscience; data mining
and data analysis; computer
science; bioinformatics;
speech processing;
biomedical engineering; and
multimedia.

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More Exceptional C++ continues where Herb Sutter's best-selling Exceptional C++ left off, delivering 40 puzzles that illuminate the most challenging -- and most powerful -- aspects of C++.

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More Exceptional C++ offers many new puzzles focused on generic programming and the C++ Standard Template Library, including important techniques such as traits and predicates, as well as key considerations in using

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standard containers and algorithms -- many of them never covered elsewhere.

More Exceptional C++ contains a detailed new section (and two appendices) on optimization in single- and multithreaded

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environments. It also provides important new insights on crucial topics first introduced in Exceptional C++, including exception safety, generic programming, and memory management. For all C++

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programmers.

Computational statistics and statistical computing are two areas that employ computational, graphical, and numerical approaches to solve statistical problems, making the versatile R

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language an ideal computing environment for these fields. One of the first books on these topics to feature R, Statistical Computing with R covers the traditional
Land of Lisp

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Generic Programming
Government Support for
Computing Research
The Sonification Handbook
Tcl and the Tk Toolkit
Speroff's Clinical
Gynecologic Endocrinology
and Infertility

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The papers collected here are reports from the field on the major problems and emerging solutions of generic programming methodology.

June 2000 Mehdi Jazayeri
Rudiger ? rLoos

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David Musser VI

Organization

Organization The Generic
Programming Seminar was
held 27 April–1 May 1998
at the Conference Center of
the Schloß Dagstuhl, located

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edinWadern,Germany(near
Saarbruc ? ken). Therewe
refortynineattendeesfrom
tencountries. Theformal
programofthemeetinginclu
dedthirtysevenlectures,a
panelsessiononsoftware l

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library standardization, an
discussion of open problems
and projects. Many informal
discussions also took place,
one of the many benefits
of the Dagstuhl setting.
The traditional Dagstuhl

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social event was at this
meeting a Baroque concer
theldinthechapeloftheSch
loß. Organizers
MehdiJazayeri TechnicalU
niversityofVienna R ?
udigerLoos Tubingen ?

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University DavidMusser R
ensselaerPolytechnicInst
itute AlexanderStepanov
SGI Attendees
DavidAbrahams
MarkoftheUnicorn,Inc.
Geared to experienced

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C++ developers who may not be familiar with the more advanced features of the language, and therefore are not using it to its full capabilities Teaches

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programmers how to think
in C++-that is, how to
design effective
solutions that maximize
the power of the
language The authors
drill down into this

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notoriously complex
language, explaining
poorly understood
elements of the C++
feature set as well as
common pitfalls to avoid
Contains several in-

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depth case studies with
working code that's been
tested on Windows,
Linux, and Solaris
platforms

One of the world's most
widely read gynecology

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texts for nearly 50
years, Speroff 's
Clinical Gynecologic
Endocrinology and
Infertility provides a
complete explanation of
the female endocrine

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system and offers practical guidance for evaluation and treatment of common disorders. In this fully revised ninth edition, the editorial and author team from

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Yale School of Medicine
have assumed the reins
of Dr. Speroff's
landmark work, retaining
the clear, concise
writing style and
illustrations that

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clarify and explain
complex concepts. This
classic text remains
indispensable for
students, residents, and
clinicians working in
reproductive

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endocrinology and
infertility, bringing
readers up to date with
recent advances that
have occurred in this
fast-changing field.
This easy-to-read

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textbook/reference
presents an essential
guide to object-oriented
C++ programming for
scientific computing.
With a practical focus
on learning by example,

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the theory is supported
by numerous exercises.

Features: provides a
specific focus on the
application of C++ to
scientific computing,
including parallel

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computing using MPI;
stresses the importance
of a clear programming
style to minimize the
introduction of errors
into code; presents a
practical introduction

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to procedural
programming in C++,
covering variables, flow
of control, input and
output, pointers,
functions, and reference
variables; exhibits the

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efficacy of classes,
highlighting the main
features of object-
orientation; examines
more advanced C++
features, such as
templates and

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exceptions; supplies
useful tips and examples
throughout the text,
together with chapter-
ending exercises, and
code available to
download from Springer.

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The Design and Evolution
of C++

Applications to
Exploratory Multi-way
Data Analysis and Blind
Source Separation
Arthrogryposis

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Professional C++

Guide to Scientific

Computing in C++

Principles and Practice

*C++ is a powerful, much
sought after programming
language, but can be*

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*daunting to work with,
even for engineering
professionals. Why is
this book so useful?
Have you ever wondered:-
How do keywords like
static and virtual*

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*change their meanings
according to context? -
What are the
similarities and
differences between
Pointers and References,
Pointers and Arrays,*

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*Constructors and Copy
Constructors, Nested and
Local Inner Classes?-
Why is Multiple
Interface Inheritance
seen to be beautiful but
Multiple Implementation*

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*Inheritance considered
evil?- When is
Polymorphism Static or
Dynamic, Bounded or
Unbounded?Answers on
these questions, and
much more, are explained*

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*in this book,
Cybernetics in C++. What
makes this text so
different and appealing
in comparison to
existing books on the
market?- The Bulleted*

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*style, as opposed to
Prose, produces results
much faster, both in
learning and reference-
Rules of Thumb, and
further expert Tips are
given throughout in how*

Acces PDF Elements Of Programming Paul Mcjones

*to optimise your code-
The Prospective Evils
sections tell you what
to avoid- The thorough
coverage ensures you
will be trained to
expert level in each of*

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*Imperative, Procedural,
Memory & Resource
Management, Object
Oriented and Generic
ProgrammingCybernetics
in C++ combines a
theoretical overview and*

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*practical approach in
one book, which should
prove to be a useful
reference for computer
scientists, software
programmers, engineers
and students in this and*

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related field.

In A Tour of C++, Second Edition, Bjarne Stroustrup, the creator of C++, describes what constitutes modern C++. This concise, self-

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*contained guide covers
most major language
features and the major
standard-library
components—not, of
course, in great depth,
but to a level that*

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*gives programmers a
meaningful overview of
the language, some key
examples, and practical
help in getting started.
Stroustrup presents the
C++ features in the*

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*context of the
programming styles they
support, such as object-
oriented and generic
programming. His tour is
remarkably
comprehensive. Coverage*

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*begins with the basics,
then ranges widely
through more advanced
topics, including many
that are new in C++17,
such as move semantics,
uniform initialization,*

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*lambda expressions,
improved containers,
random numbers, and
concurrency. The tour
even covers some
extensions being made
for C++20, such as*

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*concepts and modules,
and ends with a
discussion of the design
and evolution of C++.
This guide does not aim
to teach you how to
program (for that, see*

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*Stroustrup's
Programming: Principles
and Practice Using C++,
Second Edition), nor
will it be the only
resource you'll need for
C++ mastery (for that,*

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*see Stroustrup's The C++
Programming Language,
Fourth Edition, and
recommended online
sources). If, however,
you are a C or C++
programmer wanting*

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*greater familiarity with
the current C++
language, or a
programmer versed in
another language wishing
to gain an accurate
picture of the nature*

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and benefits of modern C++, you can't find a shorter or simpler introduction than this tour provides.

The manual describes LISP, a formal

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*mathematical language.
LISP differs from most
programming languages in
three important ways.
The first way is in the
nature of the data. The
LISP language is*

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*designed primarily for
symbolic data processing
used for symbolic
calculations in
differential and
integral calculus,
electrical circuit*

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*theory, mathematical
logic, game playing, and
other fields of
artificial intelligence.
The manual describes
LISP, a formal
mathematical language.*

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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

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*symbolic expressions
usually referred to as S-
expressions, of
indefinite length, and
which have a branching
tree-type of structure,
so that significant*

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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

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second distinction is that the LISP language is the source language itself which specifies in what way the S-expressions are to be processed. Third, LISP

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can interpret and execute programs written in the form of S-expressions. Thus, like machine language, and unlike most other high level languages, it can

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*be used to generate
programs for further
executions.*

*In this substantive yet
accessible book,
pioneering software
designer Alexander*

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*Stepanov and his
colleague Daniel Rose
illuminate the
principles of generic
programming and the
mathematical concept of
abstraction on which it*

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is based, helping you write code that is both simpler and more powerful. If you're a reasonably proficient programmer who can think logically, you have all

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the background you'll need. Stepanov and Rose introduce the relevant abstract algebra and number theory with exceptional clarity. They carefully explain

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*the problems
mathematicians first
needed to solve, and
then show how these
mathematical solutions
translate to generic
programming and the*

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*creation of more
effective and elegant
code. To demonstrate the
crucial role these
mathematical principles
play in many modern
applications, the*

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authors show how to use these results and generalized algorithms to implement a real-world public-key cryptosystem. As you read this book, you'll

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*master the thought
processes necessary for
effective programming
and learn how to
generalize narrowly
conceived algorithms to
widen their usefulness*

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*without losing
efficiency. You'll also
gain deep insight into
the value of mathematics
to programming—insight
that will prove
invaluable no matter*

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*what programming
languages and paradigms
you use. You will learn
about How to generalize
a four thousand-year-old
algorithm, demonstrating
indispensable lessons*

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*about clarity and
efficiency Ancient
paradoxes, beautiful
theorems, and the
productive tension
between continuous and
discrete A simple*

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*algorithm for finding
greatest common divisor
(GCD) and modern
abstractions that build
on it Powerful
mathematical approaches
to abstraction How*

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*abstract algebra
provides the idea at the
heart of generic
programming Axioms,
proofs, theories, and
models: using
mathematical techniques*

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*to organize knowledge
about your algorithms
and data structures
Surprising subtleties of
simple programming tasks
and what you can learn
from them How practical*

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*implementations can
exploit theoretical
knowledge*

C++ FAQs

With Examples from IBM

Personal Computers

More Exceptional C++

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*Emerging Topics in
Computer Vision
From Mathematics to
Generic Programming
Better Code*

*In a concise and direct question-and-answer
format, C++ FAQs, Second Edition brings*

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you the most efficient solutions to more than four hundred of the practical programming challenges you face every day. Moderators of the on-line C++ FAQ at comp.lang.c++, Marshall Cline, Greg Lomow, and Mike Girou are familiar with C++ programmers' most pressing concerns. In this book, the authors concentrate on those issues most

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critical to the professional programmer's work, and they present more explanatory material and examples than is possible on-line. This book focuses on the effective use of C++, helping programmers avoid combining seemingly legal C++ constructs in incompatible ways. This second edition is completely up-to-date with the final

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ANSI/ISO C++ Standard. It covers some of the smaller syntax changes, such as "mutable"; more significant changes, such as RTTI and namespaces; and such major innovations as the C++ Standard Library, including the STL. In addition, this book discusses technologies such as Java, CORBA, COM/COM+, and ActiveX—and

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the relationship all of these have with C++. These new features and technologies are iconed to help you quickly find what is new and different in this edition. Each question-and-answer section contains an overview of the problem and solution, fuller explanations of concepts, directions for proper use of language features, guidelines

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for best practices and practices to avoid, and plenty of working, stand-alone examples. This edition is thoroughly cross-referenced and indexed for quick access. Get a value-added service! Try out all the examples from this book at www.codesaw.com. CodeSaw is a free online learning tool that allows you to

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images; Raster techniques; Lessons learned;
Using graphics standards; Appendices;*

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Index.

John K. Ousterhout's Definitive Introduction to Tcl/Tk—Now Fully Updated for Tcl/Tk 8.5 Tcl and the Tk Toolkit, Second Edition, is the fastest way for newcomers to master Tcl/Tk and is the most authoritative resource for experienced programmers seeking to gain from Tcl/Tk 8.5's powerful

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enhancements. Written by Tcl/Tk creator John K. Ousterhout and top Tcl/Tk trainer Ken Jones, this updated volume provides the same extraordinary clarity and careful organization that made the first edition the world's number one Tcl/Tk tutorial. Part I introduces Tcl/Tk through simple scripts that demonstrate its value and offer a flavor of

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the Tcl/Tk scripting experience. The authors then present detailed, practical guidance on every feature necessary to build effective, efficient production applications—including variables, expressions, strings, lists, dictionaries, control flow, procedures, namespaces, file and directory management, interprocess communication,

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error and exception handling, creating and using libraries, and more. Part II turns to the Tk extension and Tk 8.5's new themed widgets, showing how to organize sophisticated user interface elements into modern GUI applications for Tcl. Part III presents incomparable coverage of Tcl's C functions, which are used to create new

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commands and packages and to integrate Tcl with existing C software—thereby leveraging Tcl’s simplicity while accessing C libraries or executing performance-intensive tasks. Throughout, the authors illuminate all of Tcl/Tk 8.5’s newest, most powerful improvements. You’ll learn how to use new Starkits and Starpacks to distribute run-time

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***production and illegal
drugs--the largest industry
in the world, and it's one of
the last great success
stories in American
business. Accidental
Empires is the trenchant,***

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vastly readable history of that industry, focusing as much on the astoundingly odd personalities at its core--Steve Jobs, Bill Gates, Mitch Kapor, etc. and the hacker culture they spawned

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***as it does on the remarkable
technology they created.
Cringely reveals the manias
and foibles of these men
(they are always men) with
deadpan hilarity and
cogently demonstrates how***

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their neuroses have shaped the computer business. But Cringely gives us much more than high-tech voyeurism and insider gossip. From the birth of the transistor to the mid-life crisis of the

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***computer industry, he spins
a sweeping, uniquely
American saga of creativity
and ego that is at once
uproarious, shocking and
inspiring.***

Lisp has been hailed as the

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world's most powerful programming language, but its cryptic syntax and academic reputation can be enough to scare off even experienced programmers. Those dark days are finally

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***over—Land of Lisp brings
the power of functional
programming to the people!
With his brilliantly quirky
comics and out-of-this-world
games, longtime Lisper
Conrad Barski teaches you***

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the mysteries of Common Lisp. You'll start with the basics, like list manipulation, I/O, and recursion, then move on to more complex topics like macros, higher order

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programming, and domain-specific languages. Then, when your brain overheats, you can kick back with an action-packed comic book interlude! Along the way you'll create (and play)

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***games like Wizard
Adventure, a text adventure
with a whiskey-soaked twist,
and Grand Theft Wumpus,
the most violent version of
Hunt the Wumpus the world
has ever seen. You'll learn***

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***to: -Master the quirks of
Lisp's syntax and semantics
-Write concise and elegant
functional programs -Use
macros, create domain-
specific languages, and
learn other advanced Lisp***

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techniques -Create your own web server, and use it to play browser-based games -Put your Lisp skills to the test by writing brain-melting games like Dice of Doom and Orc Battle With Land of Lisp,

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the power of functional programming is yours to wield.

Type-related failures are common and can be very costly. Famously, in 1999, NASA's Mars Climate Orbiter

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***burned up in the
atmosphere because of an
error that could have easily
been prevented with typing.
By taking advantage of the
strong type systems
available in most modern***

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***programming languages,
you can eliminate whole
classes of errors.***

***Programming with Types
teaches you type system
techniques for writing
software that's safe, correct,***

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***easy to test and maintain,
and that practically
documents itself. Master
these techniques, and you
may even help prevent an
interstellar catastrophe!
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***The past 50 years have
witnessed a revolution in
computing and related***

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communications technologies. The contributions of industry and university researchers to this revolution are manifest; less widely recognized is the major role

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***the federal government
played in launching the
computing revolution and
sustaining its momentum.
Funding a Revolution
examines the history of
computing since World War***

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It to elucidate the federal government's role in funding computing research, supporting the education of computer scientists and engineers, and equipping university research labs. It

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reviews the economic rationale for government support of research, characterizes federal support for computing research, and summarizes key historical advances in

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which government-sponsored research played an important role. Funding a Revolution contains a series of case studies in relational databases, the Internet, theoretical computer

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science, artificial intelligence, and virtual reality that demonstrate the complex interactions among government, universities, and industry that have driven the field. It offers a

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***series of lessons that
identify factors contributing
to the success of the
nation's computing
enterprise and the
government's role within it.
Making Databases Work***

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