

# C Interfaces and Implementations

Techniques for Creating Reusable Software

David R. Hanson



ADDISON-WESLEY PROFESSIONAL COMPUTING SERIES

# Interfaces Implementations Techniques Creating Reusable

**Ian Griffiths**



## **Interfaces Implementations Techniques Creating Reusable:**

*C Interfaces and Implementations* David University, 1996 Every programmer and software project manager must master the art of creating reusable software modules they are the building blocks of large reliable applications Unlike some modern object oriented languages C provides little linguistic support or motivation for creating reusable application programming interfaces APIs While most C programmers use APIs and the libraries that implement them in almost every application they write relatively few programmers create and disseminate new widely applicable APIs *C Interfaces and Implementations* shows how to create reusable APIs using interface based design a language independent methodology that separates interfaces from their implementations This methodology is explained by example The author describes in detail 24 interfaces and their implementations providing the reader with a thorough understanding of this design approach Features of *C Interfaces and Implementations* Concise interface descriptions that comprise a reference manual for programmers interested in using the interfaces A guided tour of the code that implements each chapter's interface to help those modifying or extending an interface or designing related interfaces In depth focus on algorithm engineering how to package data structures and related algorithms into reusable modules Source code for 24 APIs and 8 sample applications is examined with each presented as a literate program in which a thorough explanation is interleaved with the source code Rarely documented C programming tricks of the trade Convenient access to all source code in the book via the World Wide Web at <http://www.cs.princeton.edu/software/cii>

*Algorithms in Java, Parts 1-4* Robert Sedgwick, 2002-07-23 This edition of Robert Sedgwick's popular work provides current and comprehensive coverage of important algorithms for Java programmers Michael Schidlowsky and Sedgwick have developed new Java implementations that both express the methods in a concise and direct manner and provide programmers with the practical means to test them on real applications Many new algorithms are presented and the explanations of each algorithm are much more detailed than in previous editions A new text design and detailed innovative figures with accompanying commentary greatly enhance the presentation The third edition retains the successful blend of theory and practice that has made Sedgwick's work an invaluable resource for more than 400 000 programmers This particular book Parts 1-4 represents the essential first half of Sedgwick's complete work It provides extensive coverage of fundamental data structures and algorithms for sorting searching and related applications Although the substance of the book applies to programming in any language the implementations by Schidlowsky and Sedgwick also exploit the natural match between Java classes and abstract data type ADT implementations Highlights Java class implementations of more than 100 important practical algorithms Emphasis on ADTs modular programming and object oriented programming Extensive coverage of arrays linked lists trees and other fundamental data structures Thorough treatment of algorithms for sorting selection priority queue ADT implementations and symbol table ADT implementations search algorithms Complete implementations for binomial queues multiway radix sorting randomized BSTs splay trees skip

lists multiway tries B trees extendible hashing and many other advanced methods Quantitative information about the algorithms that gives you a basis for comparing them More than 1 000 exercises and more than 250 detailed figures to help you learn properties of the algorithms Whether you are learning the algorithms for the first time or wish to have up to date reference material that incorporates new programming styles with classic and new algorithms you will find a wealth of useful information in this book

**Algorithms in C++, Parts 1-4** Robert Sedgewick,1998-07-13 Robert Sedgewick has thoroughly rewritten and substantially expanded and updated his popular work to provide current and comprehensive coverage of important algorithms and data structures Christopher Van Wyk and Sedgewick have developed new C implementations that both express the methods in a concise and direct manner and also provide programmers with the practical means to test them on real applications Many new algorithms are presented and the explanations of each algorithm are much more detailed than in previous editions A new text design and detailed innovative figures with accompanying commentary greatly enhance the presentation The third edition retains the successful blend of theory and practice that has made Sedgewick s work an invaluable resource for more than 250 000 programmers This particular book Parts 1n4 represents the essential first half of Sedgewick s complete work It provides extensive coverage of fundamental data structures and algorithms for sorting searching and related applications Although the substance of the book applies to programming in any language the implementations by Van Wyk and Sedgewick also exploit the natural match between C classes and ADT implementations

**Highlights** Expanded coverage of arrays linked lists strings trees and other basic data structures Greater emphasis on abstract data types ADTs modular programming object oriented programming and C classes than in previous editions Over 100 algorithms for sorting selection priority queue ADT implementations and symbol table ADT searching implementations New implementations of binomial queues multiway radix sorting randomized BSTs splay trees skip lists multiway tries B trees extendible hashing and much more Increased quantitative information about the algorithms giving you a basis for comparing them Over 1000 new exercises to help you learn the properties of algorithms Whether you are learning the algorithms for the first time or wish to have up to date reference material that incorporates new programming styles with classic and new algorithms you will find a wealth of useful information in this book

**Software Reuse: Methods, Techniques, and Tools** Jan Bosch,Charles Krueger,2004-06-14 After three decades of research and practice reuse of existing software artefacts remains the most promising approach to decreasing effort for software development and evolution increasing quality of software artefacts and decreasing time to market of software products Over time we have seen impressive improvements in extra organizational reuse e g COTS as well as in intra organizational reuse e g software product families Despite the successes that we as a community have achieved several challenges remain to be addressed The theme for this eighth meeting of the premier international conference on software reuse is the management of software variability for reusable software All reusable software operates in multiple contexts and has to accommodate the differences between

these contexts through variation In modern software the number of variation points may range in the thousands with an even larger number of dependencies between these points Topics addressing the theme include the representation design assessment and evolution of software variability The proceedings that you are holding as you read this report on the current state of the art in software reuse Topics covered in the proceedings include software variability testing of reusable software artefacts feature modeling aspect oriented software development composition of components and services model based approaches and several other aspects of software reuse May 2004 Jan Bosch Charles Krueger Organizing Committee General Chair Kyo C Kang Pohang University of Science and Technology Korea Program Co chairs Jan Bosch University of Groningen The Netherlands Charles Krueger BigLever Software Inc U S A Programming C# 5.0 Ian Griffiths,2012-10-11 After a dozen years of incremental changes C has become one of the most versatile programming languages available With this comprehensive guide you ll learn just how powerful the combination of C 5 0 and NET 4 5 can be Author Ian Griffiths guides you through C 5 0 fundamentals and teaches you techniques for building web and desktop applications including Windows 8 style apps Completely rewritten for experienced programmers this book provides many code examples to help you work with the nuts and bolts of C code such as generics dynamic typing and the new asynchronous programming features You ll also get up to speed on XAML ASP NET LINQ and other NET tools Discover how C supports fundamental coding features such as classes other custom types collections and error handling Understand the differences between dynamic and static typing in C Query and process diverse data sources such as in memory object models databases and XML documents with LINQ Use NET s multithreading features to exploit your computer s parallel processing capabilities Learn how the new asynchronous language features can help improve application responsiveness and scalability Use XAML to create Windows 8 style phone and classic desktop applications

**Algorithms in C++** Robert Sedgewick,1998 Algorithms in C contains exercises to help students learn the properties of algorithms with a greater emphasis on abstract data types modular programming object oriented programming and C classes

*A Book on C* Al Kelley,Ira Pohl,1998 Written by bestselling author Al Kelley and Ira Pohl A Book on C 4th Ed is a comprehensive tutorial and reference to C based on the ANSI standard This book assumes prior programming experience The authors demonstrate the C language with numerous examples and extensive exercises that guide readers through each concept

**C/C++ Users Journal** ,2001 *Beginning Java 7* Jeff Friesen,2012-01-23

Beginning Java 7 guides you through version 7 of the Java language and a wide assortment of platform APIs New Java 7 language features that are discussed include switch on string and try with resources APIs that are discussed include Threading the Collections Framework the Concurrency Utilities Swing Java 2D networking JDBC SAX DOM StAX XPath JAX WS and SAAJ This book also presents an introduction to Android app development so that you can apply some of its knowledge to the exciting world of Android app development This book presents the following table of contents Chapter 1 introduces you to Java and begins to cover the Java language by focusing on fundamental concepts such as comments

identifiers variables expressions and statements Chapter 2 continues to explore this language by presenting all of its features for working with classes and objects You learn about features related to class declaration and object creation encapsulation information hiding inheritance polymorphism interfaces and garbage collection Chapter 3 focuses on the more advanced language features related to nested classes packages static imports exceptions assertions annotations generics and enums Additional chapters introduce you to the few features not covered in Chapters 1 through 3 Chapter 4 largely moves away from covering language features although it does introduce class literals and strictfp while focusing on language oriented APIs You learn about Math StrictMath Package Primitive Type Wrapper Classes Reference Reflection String StringBuffer and StringBuilder Threading BigDecimal and BigInteger in this chapter Chapter 5 begins to explore Java s utility APIs by focusing largely on the Collections Framework However it also discusses legacy collection oriented APIs and how to create your own collections Chapter 6 continues to focus on utility APIs by presenting the concurrency utilities along with the Objects and Random classes Chapter 7 moves you away from the command line user interfaces that appear in previous chapters and toward graphical user interfaces You first learn about the Abstract Window Toolkit foundation and then explore the Java Foundation Classes in terms of Swing and Java 2D Appendix C explores Accessibility and Drag and Drop Chapter 8 explores filesystem oriented I O in terms of the File RandomAccessFile stream and writer reader classes Chapter 9 introduces you to Java s network APIs e g sockets It also introduces you to the JDBC API for interacting with databases along with the Java DB database product Chapter 10 dives into Java s XML support by first presenting an introduction to XML including DTDs and schemas It next explores the SAX DOM StAX XPath and XSLT APIs It even briefly touches on the Validation API While exploring XPath you encounter namespace contexts extension functions and function resolvers and variables and variable resolvers Chapter 11 introduces you to Java s support for SOAP based and RESTful web services As well as providing you with the basics of these web service categories Chapter 11 presents some advanced topics such as working with the SAAJ API to communicate with a SOAP based web service without having to rely on JAX WS You will appreciate having learned about XML in Chapter 10 before diving into this chapter Chapter 12 helps you put to use some of the knowledge you ve gathered in previous chapters by showing you how to use Java to write an Android app s source code This chapter introduces you to Android discusses its architecture shows you how to install necessary tools and develops a simple app Appendix A presents the solutions to the programming exercises that appear near the end of Chapters 1 through 12 Appendix B introduces you to Java s Scripting API along with Java 7 s support for dynamically typed languages Appendix C introduces you to additional APIs and architecture topics Examples include Accessibility classloaders Console Drag and Drop Java Native Interface and System Tray Appendix D presents a gallery of significant applications that demonstrate various aspects of Java Unfortunately there are limits to how much knowledge can be crammed into a print book For this reason Appendixes A B C and D are not included in this book s pages Instead these appendixes are freely distributed as PDF files Appendixes A and B are bundled

with the book's associated code file at the Apress website <http://www.apress.com> 9781430239093 Appendixes C and D are bundled with their respective code files at my TutorTutor.ca website <http://tutortutor.ca/cgi-bin/makepage.cgi/books/bj7>

*The C++ Report*, 1998      Fifth International Conference on Software Reuse Association for Computing Machinery, 1998  
Software reuse saves time and effort and will continue to play a dominant role in successful engineering efforts This volume contains insights new directions and experience from leading reuse experts around the world It addresses topics of interest to researchers practitioners and managers      Dr. Dobb's Journal, 2002      **Proceedings**, 2003      Designing Object-oriented C++ Applications Using the Booch Method Robert C. Martin, 1995 For senior graduate level courses on Object Oriented Design using C and the Booch BC OOD book A practical problem solving approach to the fundamental concepts of Object Oriented Design and their application using C This book is written for the engineer in the trenches It is a serious guide for practitioners of Object Oriented design The style is narrative and accessible for the beginner and yet the topics are covered in enough depth to be relevant to the consummate designer The principles of OOD explained one by one and then demonstrated with numerous examples and case studies      **Software Development**, 2002      **Object Modeling and User Interface Design** Mark Van Harmelen, 2001 Object Modeling and User Interface Design merges theories with practical techniques to create methods for the design of today's systems By reading this book you will gain an understanding of the benefits of integrating object oriented analysis approaches with human computer interaction design and learn how to systematically design interactive systems for their human users BOOK JACKET      Software Reuse Carma McClure, 2001-07-11 Reuse is one of the simplest and oldest concepts in programming and one that is often underutilized When implemented purposefully and correctly reuse can save time and money as well as create an inventory of valuable and reusable software assets Dr Carma McClure one of the principal writers of the IEEE's Software Reuse Standard 1517 provides clear concise and applied information to make effective software reuse a reality This book provides specific instructions for implementing reuse within the context of the IEEE EIA Standard 12207 Standard for Information Technology Software Life Cycle Processes This new guide aids the reader in interpreting the meaning of the standard implementing the standard and applying the standard Like IEEE Std 1517 this book is written for both managers and technical personnel involved in acquiring supplying or developing software applications and systems or reusable assets      **Visual Basic.NET Unleashed** Paul Kimmel, 2002 Visual Basic NET Unleashed is a complete book on the fundamentals of programming with a fully object oriented language filled with new idioms and capabilities In addition to the fundamentals this book covers Free threading and multithreading Inheritance Virtual methods and shared methods Structured exception handling Event handling Encapsulation at the namespace level Web Services NET Framework compatibility      **Sun Certified Enterprise Architect for Java EE Study Guide (Exam 310-051)** Paul Allen, Joseph Bambara, 2007-05-22 The Best Fully Integrated Study System Available With hundreds of practice questions and hands on exercises Sun Certified Enterprise Architect for

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**Java Programming** Gary B. Shelly, Thomas J. Cashman, Joy Starks, 2004

This new edition employs the Shelly Cashman Series proven step by step approach to learning presenting difficult Java programming concepts in a straightforward and exciting way The new layout and design of the book make it easy for students to stay on track while the real world examples keep students interested Every chapter has been rewritten to include all new programming examples as well as additional conceptual coverage stressing the fundamentals of producing well designed programs

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