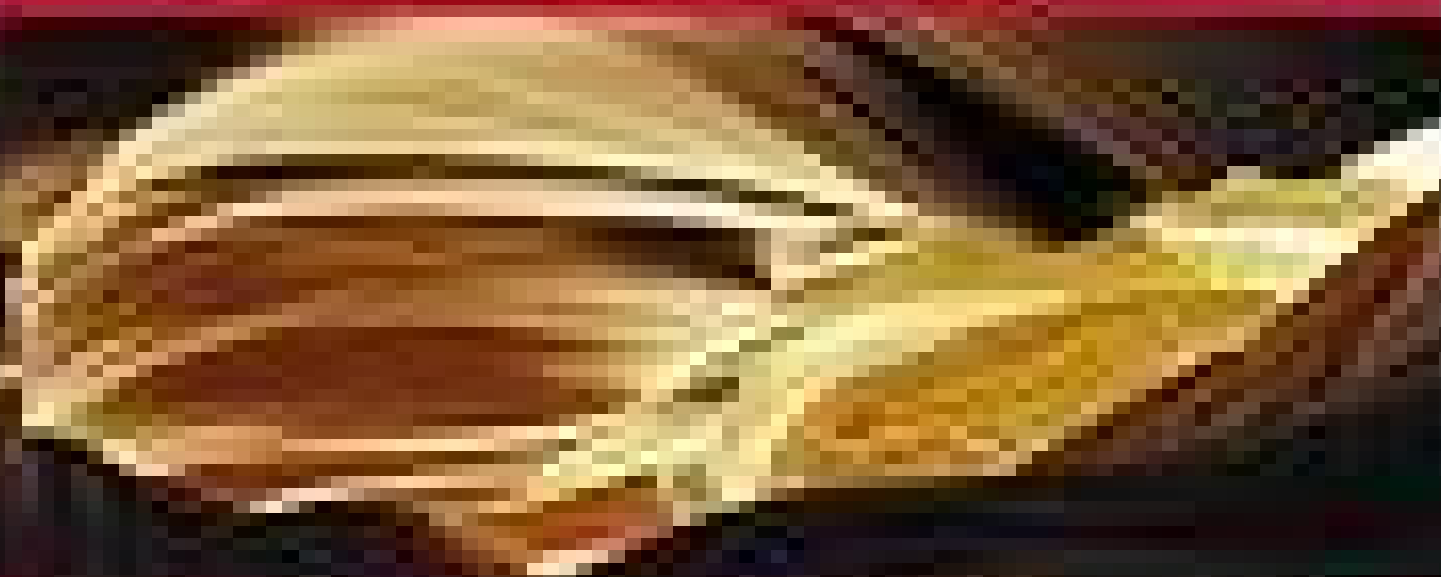


# Exceptional C++

47 Programming Puzzles, Programming Problems, and Programming Solutions

Herb Sutter

Foreword by Scott Meyers



Cover Story: C++'s Standard as Platform Technology

# Exceptional C 47 Engineering Puzzles Programming Problems And Solutions

**Herb Sutter, Andrei Alexandrescu**



## **Exceptional C 47 Engineering Puzzles Programming Problems And Solutions:**

Exceptional C++ Herb Sutter, 1999 The puzzles and problems in Exceptional C not only entertain they will help you hone your skills to become the sharpest C programmer you can be Many of these problems are culled from the famous Guru of the Week feature of the Internet newsgroup comp lang c moderated expanded and updated to conform to the official ISO ANSI C Standard BOOK JACKET Try your skills against the C masters and come away with the insight and experience to create more efficient effective robust and portable C code Jacket Exercises for Programming in C++ (Version 2021-04-01) Michael D. Adams, 2021-04-01 This book presents a large collection of exercises for learning to program in C A study plan for learning C based on a collection of video lectures and supplemental reading is also provided **Applied C++** Philip Romanik, Amy Muntz, 2003 This is an insightful guide to efficient practical solutions to real world C problems Concrete case studies run throughout the book and show how to develop quality C software C++ Network Programming, Volume I Douglas Schmidt, Stephen D. Huston, 2001-12-10 As networks devices and systems continue to evolve software engineers face the unique challenge of creating reliable distributed applications within frequently changing environments C Network Programming Volume 1 provides practical solutions for developing and optimizing complex distributed systems using the ADAPTIVE Communication Environment ACE a revolutionary open source framework that runs on dozens of hardware platforms and operating systems This book guides software professionals through the traps and pitfalls of developing efficient portable and flexible networked applications It explores the inherent design complexities of concurrent networked applications and the tradeoffs that must be considered when working to master them C Network Programming begins with an overview of the issues and tools involved in writing distributed concurrent applications The book then provides the essential design dimensions patterns and principles needed to develop flexible and efficient concurrent networked applications The book's expert author team shows you how to enhance design skills while applying C and patterns effectively to develop object oriented networked applications Readers will find coverage of C network programming including an overview and strategies for addressing common development challenges The ACE Toolkit Connection protocols message exchange and message passing versus shared memory Implementation methods for reusable networked application services Concurrency in object oriented network programming Design principles and patterns for ACE wrapper facades With this book C developers have at their disposal the most complete toolkit available for developing successful multiplatform concurrent networked applications with ease and efficiency Lecture Slides for Programming in C++ (Version 2021-04-01) Michael D. Adams, 2021-04-01 This document which consists of approximately 2900 lecture slides offers a wealth of information on many topics relevant to programming in C including coverage of the C language itself the C standard library and a variety of other libraries numerous software tools and an assortment of other programming related topics The coverage of the C language and standard library is current with the C 20 standard C PROGRAMMING LANGUAGE Many

aspects of the C language are covered from introductory to more advanced This material includes the preprocessor language basics objects types values operators expressions control flow constructs functions namespaces and comparison classes templates function class variable and alias templates variadic templates template specialization and SFINAE concepts lambda expressions inheritance run time polymorphism and CRTP exceptions exception safety and RAI smart pointers memory management new and delete operators and expressions placement new and allocators rvalue references move semantics and perfect forwarding coroutines concurrency memory models and happens before and synchronizes with relationships modules compile time computation and various other topics e g copy elision and initialization C STANDARD LIBRARY AND VARIOUS OTHER LIBRARIES Various aspects of the C standard library are covered including containers iterators algorithms ranges I O streams time measurement and concurrency support threads mutexes condition variables promises and futures atomics and fences A number of Boost libraries are discussed including the Intrusive Iterator and Container libraries The OpenGL library and GLSL are discussed at length along with several related libraries including GLFW GLUT and GLM The CGAL library is also discussed in some detail SOFTWARE TOOLS A variety of software tools are discussed including static analysis tools e g Clang Tidy and Clang Static Analyzer code sanitizers e g ASan LSan MSan TSan and UBSan debugging and testing tools e g Valgrind LLVM XRay and Catch2 performance analysis tools e g Perf PAPI Gprof and Valgrind Callgrind build tools e g CMake and Make version control systems e g Git code coverage analysis tools e g Gcov LLVM Cov and Lcov online C compilers e g Compiler Explorer and C Insights and code completion tools e g YouCompleteMe and LSP clients servers OTHER TOPICS An assortment of other programming related topics are also covered including data structures algorithms computer arithmetic e g floating point arithmetic and interval arithmetic cache efficient algorithms vectorization good programming practices software documentation software testing e g static and dynamic testing and structural coverage analysis and compilers and linkers e g Itanium C ABI

*C++ Coding Standards* Herb Sutter, Andrei Alexandrescu, 2004-10-25 Consistent high quality coding standards improve software quality reduce time to market promote teamwork eliminate time wasted on inconsequential matters and simplify maintenance Now two of the world s most respected C experts distill the rich collective experience of the global C community into a set of coding standards that every developer and development team can understand and use as a basis for their own coding standards The authors cover virtually every facet of C programming design and coding style functions operators class design inheritance construction destruction copying assignment namespaces modules templates genericity exceptions STL containers and algorithms and more Each standard is described concisely with practical examples From type definition to error handling this book presents C best practices including some that have only recently been identified and standardized techniques you may not know even if you ve used C for years Along the way you ll find answers to questions like What s worth standardizing and what isn t What are the best ways to code for scalability What are the elements of a rational error handling policy How and why do you avoid

unnecessary initialization cyclic and definitional dependencies When and how should you use static and dynamic polymorphism together How do you practice safe overriding When should you provide a no fail swap Why and how should you prevent exceptions from propagating across module boundaries Why shouldn't you write namespace declarations or directives in a header file Why should you use STL vector and string instead of arrays How do you choose the right STL search or sort algorithm What rules should you follow to ensure type safe code Whether you're working alone or with others C Coding Standards will help you write cleaner code and write it faster with fewer hassles and less frustration

Principles of Quantitative Development Manoj Thulasidas, 2012-03-13 Principles of Quantitative Development is a practical guide to designing building and deploying a trading platform It is also a lucid and succinct exposé on the trade life cycle and the business groups involved in managing it bringing together the big picture of how a trade flows through the systems and the role of a quantitative professional in the organization The book begins by looking at the need and demand for in house trading platforms addressing the current trends in the industry It then looks at the trade life cycle and its participants from beginning to end and then the functions within the front middle and back office giving the reader a full understanding and appreciation of the perspectives and needs of each function The book then moves on to platform design addressing all the fundamentals of platform design system architecture programming languages and choices Finally the book focuses on some of the more technical aspects of platform design and looks at traditional and new languages and approaches used in modern quantitative development The book is accompanied by a CD ROM featuring a fully working option pricing tool with source code and project building instructions illustrating the design principles discussed and enabling the reader to develop a mini trading platform The book is also accompanied by a website <http://pqd.thulasidas.com> that contains updates and companion materials

*C++ Template Metaprogramming* David Abrahams, Aleksey Gurtovoy, 2004-12-10 C Template Metaprogramming sheds light on the most powerful idioms of today's C++ at long last delivering practical metaprogramming tools and techniques into the hands of the everyday programmer A metaprogram is a program that generates or manipulates program code Ever since generic programming was introduced to C++ programmers have discovered myriad template tricks for manipulating programs as they are compiled effectively eliminating the barrier between program and metaprogram While excitement among C++ experts about these capabilities has reached the community at large their practical application remains out of reach for most programmers This book explains what metaprogramming is and how it is best used It provides the foundation you'll need to use the template metaprogramming effectively in your own work This book is aimed at any programmer who is comfortable with idioms of the Standard Template Library STL C++ power users will gain a new insight into their existing work and a new fluency in the domain of metaprogramming Intermediate level programmers who have learned a few advanced template techniques will see where these tricks fit in the big picture and will gain the conceptual foundation to use them with discipline Programmers who have caught the scent of metaprogramming but for whom it is still mysterious

will finally gain a clear understanding of how when and why it works All readers will leave with a new tool of unprecedented power at their disposal the Boost Metaprogramming Library Note CD materials are only available with the print edition

Accelerated C# 2005 Trey Nash,2007-02-01 This book provides the fastest path to C mastery for programmers transitioning from another object oriented language Any C programmer at any experience level will find it enlightening It describes how C works in thorough detail discusses the most important issues for expert C coding and demonstrates with short and precise examples how to design and code effective C programs Its succinctness and clarity make it appropriate for anyone familiar with any object oriented language its depth will impress even expert programmers Readers will rapidly become expert in C by learning how to do things the right way right from the start      **The Boost Graph Library** Jeremy G. Siek,Lie-Quan Lee,Andrew Lumsdaine,2001-12-20 The Boost Graph Library BGL is the first C library to apply the principles of generic programming to the construction of the advanced data structures and algorithms used in graph computations Problems in such diverse areas as Internet packet routing molecular biology scientific computing and telephone network design can be solved by using graph theory This book presents an in depth description of the BGL and provides working examples designed to illustrate the application of BGL to these real world problems Written by the BGL developers The Boost Graph Library User Guide and Reference Manual gives you all the information you need to take advantage of this powerful new library Part I is a complete user guide that begins by introducing graph concepts terminology and generic graph algorithms This guide also takes the reader on a tour through the major features of the BGL all motivated with example problems Part II is a comprehensive reference manual that provides complete documentation of all BGL concepts algorithms and classes Readers will find coverage of Graph terminology and concepts Generic programming techniques in C Shortest path algorithms for Internet routing Network planning problems using the minimum spanning tree algorithms BGL algorithms with implicitly defined graphs BGL Interfaces to other graph libraries BGL concepts and algorithms BGL classes graph auxiliary and adaptor Groundbreaking in its scope this book offers the key to unlocking the power of the BGL for the C programmer looking to extend the reach of generic programming beyond the Standard Template Library      **C++ Templates** David Vandevoorde,Nicolai M. Josuttis,2002-11-12 Templates are among the most powerful features of C but they are too often neglected misunderstood and misused C Templates The Complete Guide provides software architects and engineers with a clear understanding of why when and how to use templates to build and maintain cleaner faster and smarter software more efficiently C Templates begins with an insightful tutorial on basic concepts and language features The remainder of the book serves as a comprehensive reference focusing first on language details then on a wide range of coding techniques and finally on advanced applications for templates Examples used throughout the book illustrate abstract concepts and demonstrate best practices Readers learn The exact behaviors of templates How to avoid the pitfalls associated with templates Idioms and techniques from the basic to the previously undocumented How to reuse source code without

threatening performance or safety How to increase the efficiency of C programs How to produce more flexible and maintainable software This practical guide shows programmers how to exploit the full power of the template features in C The companion Web site at <http://www.josuttis.com/tmplbook> contains sample code and additional updates **C++ - der interaktive Programmierkurs** André Willms,2008 Modern C++ Design Andrei Alexandrescu,2001-02-13 Modern C Design Andrei Alexandrescu opens new vistas for C programmers Displaying extraordinary creativity and programming virtuosity Alexandrescu offers a cutting edge approach to design that unites design patterns generic programming and C enabling programmers to achieve expressive flexible and highly reusable code This book introduces the concept of generic components reusable design templates that produce boilerplate code for compiler consumption all within C Generic components enable an easier and more seamless transition from design to application code generate code that better expresses the original design intention and support the reuse of design structures with minimal recoding The author describes the specific C techniques and features that are used in building generic components and goes on to implement industrial strength generic components for real world applications Recurring issues that C developers face in their day to day activity are discussed in depth and implemented in a generic way These include Policy based design for flexibility Partial template specialization Typelists powerful type manipulation structures Patterns such as Visitor Singleton Command and Factories Multi method engines For each generic component the book presents the fundamental problems and design options and finally implements a generic solution In addition an accompanying Web site <http://www.awl.com/cseng/titles/0201704315> makes the code implementations available for the generic components in the book and provides a free downloadable C library called Loki created by the author Loki provides out of the box functionality for virtually any C project Get a value added service Try out all the examples from this book at [www.codesaw.com](http://www.codesaw.com) CodeSaw is a free online learning tool that allows you to experiment with live code from your book right in your browser **Accelerated C# 2008** Trey Nash,2008-02-07 Many books introduce C but if you don't have the time to read 1200 pages Accelerated C 2008 gives you everything you need to know about C 2008 in a concentrated 500 pages of must know information and best practices C 2008 offers powerful new features and Accelerated C 2008 is the fastest path to mastery for both experienced C programmers moving to C 2008 and programmers moving to C from another object oriented language You'll quickly master C syntax while learning how the CLR simplifies many programming tasks You'll also learn best practices that ensure your code will be efficient reusable and robust Why spend months or years discovering the best ways to design and code C when this book will show you how to do things the right way right from the start Comprehensively and concisely explains both C 2005 and C 2008 features Focuses on the language itself and on how to use C 2008 proficiently for all .NET application development Concentrates on how C features work and how to best use them for robust high performance code *Professional C++* Marc Gregoire,2018-03-09 Get up to date quickly on the new changes coming with C 17 Professional C is the advanced

manual for C programming Designed to help experienced developers get more out of the latest release this book skims over the basics and dives right in to exploiting the full capabilities of C 17 Each feature is explained by example each including actual code snippets that you can plug into your own applications Case studies include extensive working code that has been tested on Windows and Linux and the author s expert tips tricks and workarounds can dramatically enhance your workflow Even many experienced developers have never fully explored the boundaries of the language s capabilities this book reveals the advanced features you never knew about and drills down to show you how to turn these features into real world solutions The C 17 release includes changes that impact the way you work with C this new fourth edition covers them all including nested namespaces structured bindings string\_view template argument deduction for constructors parallel algorithms generalized sum algorithms Boyer Moore string searching string conversion primitives a filesystem API clamping values optional values the variant type the any type and more Clear explanations and professional level depth make this book an invaluable resource for any professional needing to get up to date quickly Maximize C capabilities with effective design solutions Master little known elements and learn what to avoid Adopt new workarounds and testing debugging best practices Utilize real world program segments in your own applications C is notoriously complex and whether you use it for gaming or business maximizing its functionality means keeping up to date with the latest changes Whether these changes enhance your work or make it harder depends on how well versed you are in the newest C features Professional C gets you up to date quickly and provides the answers you need for everyday solutions

**More Exceptional C++** Herb Sutter, 2002 This boxed set of five volumes on C programming includes Modern C Design Accelerated C Essential C Exceptional C and More Exceptional C

**Effective C++ Digital Collection** Scott Meyers, 2012-07-10 Scott Meyers s seminal C books Effective C More Effective C and Effective STL have been immensely helpful to hundreds of thousands of C programmers All three are finally available together in this eBook collection Effective C has been embraced by hundreds of thousands of programmers worldwide The reason is clear Scott Meyers s practical approach to C describes the rules of thumb used by the experts to produce clear correct efficient code The book is organized around 55 specific guidelines each of which describes a way to write better C Each is backed by concrete examples In More Effective C Meyers presents 35 ways to improve your programs and designs Drawing on years of experience Meyers explains how to write software that is more effective more efficient more robust more consistent more portable and more reusable In short how to write C software that s just plain better In Effective STL Meyers goes beyond describing what s in the STL to show you how to use it Each of the book s 50 guidelines is backed by Meyers s legendary analysis and incisive examples so you ll learn not only what to do but also when to do it and why Together in this collection these books include the following important features Expert guidance on the design of effective classes functions templates and inheritance hierarchies Applications of new TR1 standard library functionality along with comparisons to existing standard library components Insights into differences between C and other languages e g Java C C

that help developers from those languages assimilate the C way of doing things Proven methods for improving program efficiency including incisive examinations of the time space costs of C language features Comprehensive descriptions of advanced techniques used by C experts including placement new virtual constructors smart pointers reference counting proxy classes and double dispatching Examples of the profound impact of exception handling on the structure and behavior of C classes and functions Practical treatments of new language features including bool mutable explicit namespaces member templates the Standard Template Library and more If your compilers don't yet support these features Meyers shows you how to get the job done without them Advice on choosing among standard STL containers like vector and list nonstandard STL containers like hash\_set and hash\_map and non STL containers like bitset Techniques to maximize the efficiency of the STL and the programs that use it Insights into the behavior of iterators function objects and allocators including things you should not do Guidance for the proper use of algorithms and member functions whose names are the same e.g. find but whose actions differ in subtle but important ways Discussions of potential portability problems including straightforward ways to avoid them

C++ Network Programming, Volume 2 Douglas Schmidt, Stephen D. Huston, 2002-10-29 Do you need to develop flexible software that can be customized quickly Do you need to add the power and efficiency of frameworks to your software The ADAPTIVE Communication Environment ACE is an open source toolkit for building high performance networked applications and next generation middleware ACE's power and flexibility arise from object oriented frameworks used to achieve the systematic reuse of networked application software ACE frameworks handle common network programming tasks and can be customized using C language features to produce complete distributed applications C Network Programming Volume 2 focuses on ACE frameworks providing thorough coverage of the concepts patterns and usage rules that form their structure This book is a practical guide to designing object oriented frameworks and shows developers how to apply frameworks to concurrent networked applications C Networking Volume 1 introduced ACE and the wrapper facades which are basic network computing ingredients Volume 2 explains how frameworks build on wrapper facades to provide higher level communication services Written by two experts in the ACE community this book contains An overview of ACE frameworks Design dimensions for networked services Descriptions of the key capabilities of the most important ACE frameworks Numerous C code examples that demonstrate how to use ACE frameworks C Network Programming Volume 2 teaches how to use frameworks to write networked applications quickly reducing development effort and overhead It will be an invaluable asset to any C developer working on networked applications

Borland C++ Builder 6 Developer's Guide Jarrod Hollingworth, Bob Swart, 2003 0672324806 The definitive guide to the latest version of Borland's powerful C Builder Provides complete coverage of C Builder Web Services development now a key component of C Builder Borland C Builder remains best in class IDE over the past 5 years for C solutions Written by a team of top C Builder experts with expertise in a variety of technical areas related to C application development C Builder 6 Developers Guide is revised for

the latest version of C Builder the biggest update to C Builder in years C Builder is an ANSI C IDE The version 6 adds BizShape a tool to build Web Services using XML SOAP NET and BizTalk from Microsoft and SunONE from Sun Microsystems Other new components include WebSnap for Web application development DataSnap for database development and CLX which allows cross platform development for Unix and Linux The new NetCLX Internet components allow development of cross platform applications with Apache Microsoft IIS and Netscape Web Server applications C Builder 6 Developers Guide continues as the definitive guide for Borlands C Builder providing a clear and concise reference for C developers C Builder Developers Guide is a unique combination of over 35 C Builder experts from around the globe This team brings hundreds of thousands of working hours in professional software development to the creation of this extensive work Leading the team are Jarrod Hollingworth Bob Swart Mark Cashman and Paul Gustavson Jarrod is running Backslash <http://www.backslash.com.au> loping software applications for the Internet and key business sectors and working as a software development consultant Bob aka Dr Bob is an internationally recognized UK Borland Connections member and an independent technical author trainer and consultant using C Builder Kylix and Delphi based in The Netherlands Mark Cashman is an independent C developer in the U S Paul Gustavson lives in Virginia and is a senior systems engineer for Synetics Inc a U S based company providing knowledge management systems engineering and enterprise management services

**C++ for the Impatient** Brian Overland, 2013-05-08 A Ready Reference for C C for the Impatient offers both the quickest way for busy programmers to learn the latest features of the C language and a handy resource for quickly finding answers to specific language questions Designed to give you the most accurate and up to date information you require fast and to the point this book is also an essential guide to the new C 11 standard including advanced uses of the C standard library Features include Concise descriptions of nearly every function object and operator in the C core language and standard library with clear well chosen examples for each of them Information provided at a glance through syntax displays tables and summaries of important functions Content organized for quick look up of needed information Simple explanations of advanced concepts using helpful illustrations Complete program examples that are both useful and intriguing including puzzles games and challenging exercises C 11 features all covered in the book include Lambdas rvalue references Regular expression library Randomization library Hash table containers Smart pointers C for the Impatient is an ideal resource for anyone who needs to come up to speed quickly on C 11 Whether or not it s your first C book it will be one you come back to often for reliable answers

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