

More Effective C++

35 New Ways
to Improve Your
Programs and Designs

Scott Meyers



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new ISO/ANSI
C++ standard!*



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More Effective C 35 New Ways To Improve Your Programs And Designs:

More Effective C++ Scott Douglas Meyers, 1996 **More Effective C++** Scott Meyers, 1995-12-29 More than 150 000 copies in print Praise for Scott Meyers first book Effective C I heartily recommend Effective C to anyone who aspires to mastery of C at the intermediate level or above The C C User s Journal From the author of the indispensable Effective C here are 35 new 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 More Effective C includes 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 More Effective C is filled with pragmatic down to earth advice you ll use every day Like Effective C before it More Effective C is essential reading for anyone working with 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

Fundamentals of Computer Graphics Steve Marschner, Peter Shirley, 2021-09-30 Drawing on an impressive roster of experts in the field Fundamentals of Computer Graphics Fifth Edition offers an ideal resource for computer course curricula as well as a user friendly personal or professional reference Focusing on geometric intuition this book gives the necessary information for understanding how images get onto the screen by using the complementary approaches of ray tracing and rasterization It covers topics common to an introductory course such as sampling theory texture mapping spatial data structure and splines It also includes a number of contributed chapters from authors known for their expertise and clear way of explaining concepts HIGHLIGHTS Major updates and improvements to numerous chapters including shading ray tracing physics based rendering math and sampling Updated coverage of existing topics The absorption and reworking of several chapters to create a more natural flow to the book The fifth edition of Fundamentals of Computer Graphics continues to provide an outstanding and comprehensive introduction to basic computer graphic technology and theory It retains an informal and intuitive style while improving precision consistency and completeness of material allowing aspiring and experienced graphics programmers to better understand and apply foundational principles to the development of efficient code in creating film game or web designs

Real-Time C++ Christopher Kormanyos, 2021-07-14 With this book Christopher Kormanyos delivers a highly practical guide to programming real time embedded microcontroller systems in C It is divided into three parts plus several appendices Part I provides a foundation for real time C by covering language technologies including object oriented methods template programming and optimization Next part II presents detailed descriptions of a variety of C components that are widely used in microcontroller programming It details some of C's most powerful language elements such as class types templates and the STL to develop components for microcontroller register access low level drivers custom memory management embedded containers multitasking etc Finally part III describes mathematical methods and generic utilities that can be employed to solve recurring problems in real time C The appendices include a brief C language tutorial information on the real time C development environment and instructions for building GNU GCC cross compilers and a microcontroller circuit For this fourth edition the most recent specification of C 20 is used throughout the text Several sections on new C 20 functionality

have been added and various others reworked to reflect changes in the standard. Also several new example projects ranging from introductory to advanced level are included and existing ones extended and various reader suggestions have been incorporated. Efficiency is always in focus and numerous examples are backed up with runtime measurements and size analyses that quantify the true costs of the code down to the very last byte and microsecond. The target audience of this book mainly consists of students and professionals interested in real time C. Readers should be familiar with C or another programming language and will benefit most if they have had some previous experience with microcontroller electronics and the performance and size issues prevalent in embedded systems programming.

Numerical Techniques in Electromagnetics, Second Edition Matthew N.O. Sadiku, 2000-07-12. As the availability of powerful computer resources has grown over the last three decades the art of computation of electromagnetic EM problems has also grown exponentially. Despite this dramatic growth however the EM community lacked a comprehensive text on the computational techniques used to solve EM problems. The first edition of Numerical Techniques in Electromagnetics filled that gap and became the reference of choice for thousands of engineers, researchers and students. The Second Edition of this bestselling text reflects the continuing increase in awareness and use of numerical techniques and incorporates advances and refinements made in recent years. Most notable among these are the improvements made to the standard algorithm for the finite difference time domain FDTD method and treatment of absorbing boundary conditions in FDTD, finite element and transmission line matrix methods. The author also added a chapter on the method of lines. Numerical Techniques in Electromagnetics continues to teach readers how to pose numerically analyze and solve EM problems, give them the ability to expand their problem solving skills using a variety of methods and prepare them for research in electromagnetism. Now the Second Edition goes even further toward providing a comprehensive resource that addresses all of the most useful computation methods for EM problems.

Effective C++ Scott Meyers, 2005-05-12. Every C professional needs a copy of Effective C. It is an absolute must read for anyone thinking of doing serious C development. If you've never read Effective C and you think you know everything about C, think again. Steve Schirripa, Software Engineer, Google. C and the C community have grown up in the last fifteen years and the third edition of Effective C reflects this. The clear and precise style of the book is evidence of Scott's deep insight and distinctive ability to impart knowledge. Gerhard Kreuzer, Research and Development Engineer, Siemens AG. The first two editions of Effective C were embraced by hundreds of thousands of programmers worldwide. The reason is clear. Scott Meyers' practical approach to C describes the rules of thumb used by the experts, the things they almost always do or almost always avoid doing 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. For this third edition, more than half the content is new, including added chapters on managing resources and using templates. Topics from the second edition have been extensively revised to reflect modern design considerations including exceptions, design patterns and multithreading.

Important features of Effective C include 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

Code Complete Steve McConnell,2004 Annotation Widely considered one of the best practical guides to programming Steve McConnell s original CODE COMPLETE has been helping developers write better software for more than a decade Now this classic book has been fully updated and revised with leading edge practices and hundreds of new code samples illustrating the art and science of software construction Capturing the body of knowledge available from research academia and everyday commercial practice McConnell synthesizes the most effective techniques and must know principles into clear pragmatic guidance No matter what your experience level development environment or project size this book will inform and stimulate your thinking and help you build the highest quality code Discover the timeless techniques and strategies that help you Design for minimum complexity and maximum creativity Reap the benefits of collaborative development Apply defensive programming techniques to reduce and flush out errors Exploit opportunities to refactor or evolve code and do it safely Use construction practices that are right weight for your project Debug problems quickly and effectively Resolve critical construction issues early and correctly Build quality into the beginning middle and end of your project

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

Optimized ASIP Synthesis from Architecture Description Language Models Oliver Schliebusch,Heinrich Meyr,Rainer Leupers,2007-04-27 New software tools and a sophisticated methodology above RTL are required to answer the challenges of designing an optimized application specific processor ASIP This book offers an automated and fully integrated implementation flow and compares it to common implementation practice Case studies emphasise that neither the architectural advantages nor the design space of ASIPs are sacrificed for an automated implementation Realizing a building block which fulfils the requirements on programmability and computational power is now efficiently possible for the first time Optimized ASIP Synthesis from Architecture Description Language Models inspires hardware designers as well as application engineers to design powerful ASIPs that will make their SoC designs unique

Software Design and Development: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources,2013-07-31 Innovative tools and techniques for the development and design of software systems are essential to the problem solving and planning of

software solutions Software Design and Development Concepts Methodologies Tools and Applications brings together the best practices of theory and implementation in the development of software systems This reference source is essential for researchers engineers practitioners and scholars seeking the latest knowledge on the techniques applications and methodologies for the design and development of software systems

Lecture Slides for Programming in C++ (Version 2019-02-04) Michael D. Adams, 2019-02-04 This document which consists of approximately 2500 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 17 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 and namespaces classes templates function class variable and alias templates variadic templates template specialization and SFINAE lambda expressions inheritance run time polymorphism and CRTP exceptions exception safety and RAII smart pointers memory management new and delete operators and expressions placement new and allocators rvalue references move semantics and perfect forwarding concurrency memory models and happens before and synchronizes with relationships 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 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

Lecture Slides for Programming in C++ (Version 2017-02-24) Michael D. Adams, 2017-02-24 This document constitutes a detailed set of lecture slides on programming using the C programming language The topics covered are quite broad including the history of C the C language itself the C standard library and various other libraries and software tools as well as numerous other programming related topics Coverage of C is current with the C 14 standard Many aspects of the C language are covered from introductory to more advanced This material includes language basics objects types values operators expressions control flow constructs functions and namespaces classes templates function class alias and variable

templates template specialization and variadic templates lambda expressions inheritance and run time polymorphism exceptions exception safety RAII and smart pointers rvalue references move semantics and perfect forwarding concurrency sequential consistency atomic memory operations data races threads mutexes condition variables promises and futures atomics and fences happens before and synchronizes with relationships and sequentially consistent and other memory models A number of best practices tips and idioms regarding the use of the language are also presented Some aspects of the C standard library are covered including containers iterators and algorithms the std vector and std basic_string classes I/O streams time measurement and smart pointers Various general programming related topics are also presented such as material on good programming practices finite precision arithmetic software documentation software build tools such as CMake and Make and version control systems such as Git

C++ Software Design Klaus Iglberger, 2022-09-21 Good software design is essential for the success of your project but designing software is hard to do You need to have a deep understanding of the consequences of design decisions and a good overview of available design alternatives With this book experienced C developers will get a thorough practical and unparalleled overview of software design with this modern language C trainer and consultant Klaus Iglberger explains how you can manage dependencies and abstractions improve changeability and extensibility of software entities and apply and implement modern design patterns to help you take advantage of today's possibilities Software design is the most essential aspect of a software project because it impacts the software's most important properties maintainability changeability and extensibility Learn how to evaluate your code with respect to software design Understand what software design is including design goals such as changeability and extensibility Explore the advantages and disadvantages of each design approach Learn how design patterns help solve problems and express intent Choose the right form of a design pattern to get the most out of its advantages

Numerical Software with Result Verification René Alt, Andreas Frommer, R. Baker Kearfott, Wolfram Luther, 2004-02-12 Reliable computing techniques are essential if the validity of the output of a numerical algorithm is to be guaranteed to be correct Our society relies more and more on computer systems Usually our systems appear to work successfully but there are sometimes serious and often minor errors Validated computing is one essential technology to achieve increased software reliability Formal logic in the definition of data types the computer arithmetic in algorithm design and in program execution allows us to guarantee that the stated problem has or does not have a solution in an enclosing interval we compute If the enclosure is narrow we are certain that the result can be used Otherwise we have a clear warning that the uncertainty of input values might be large and the algorithm and the model have to be improved The use of interval data types and algorithms with controlled rounding and result verification capture uncertainty in modeling and problem formulation in model parameter estimation in algorithm truncation in operation round off and in model interpretation The techniques of validated computing have proven their merits in many scientific and engineering applications They are based on solid and interesting theoretical studies in mathematics and

computer science Contributions from elds including real complex and functional analysis semigroups probability statistics fuzzyintervalanalysis fuzzylogic automaticdi erentiation computer hardware operating systems compiler construction programming languages object oriented modeling parallel processing and software engineering are all essential

Fundamentals of Computer Graphics Peter Shirley,Michael Ashikhmin,Steve Marschner,2005-07-19 The second edition of this widely adopted text includes a wealth of new material with new chapters on Signal Processing Marschner Using Graphics Hardware Willemsen Building Interactive Graphics Applications Sung Perception Thompson Curves Gleicher Computer Animation Ashikhmin and Tone Reproduction Reinhard Maintaining the stre **Object-Oriented Programming in C++** Robert Lafore,1997-12-18 Object Oriented Programming in C begins with the basic principles of the C programming language and systematically introduces increasingly advanced topics while illustrating the OOP methodology While the structure of this book is similar to that of the previous edition each chapter reflects the latest ANSI C standard and the examples have been thoroughly revised to reflect current practices and standards Educational Supplement Suggested solutions to the programming projects found at the end of each chapter are made available to instructors at recognized educational institutions This educational supplement can be found at www.prenhall.com in the Instructor Resource Center

Discovering Modern C++ Peter Gottschling,2015-12-23 As scientific and engineering projects grow larger and more complex it is increasingly likely that those projects will be written in C With embedded hardware growing more powerful much of its software is moving to C too Mastering C gives you strong skills for programming at nearly every level from close to the hardware to the highest level abstractions In short C is a language that scientific and technical practitioners need to know Peter Gottschling s *Discovering Modern C* is an intensive introduction that guides you smoothly to sophisticated approaches based on advanced features Gottschling introduces key concepts using examples from many technical problem domains drawing on his extensive experience training professionals and teaching C to students of physics math and engineering This book is designed to help you get started rapidly and then master increasingly robust features from lambdas to expression templates You ll also learn how to take advantage of the powerful libraries available to C programmers both the Standard Template Library STL and scientific libraries for arithmetic linear algebra differential equations and graphs Throughout Gottschling demonstrates how to write clear and expressive software using object orientation generics metaprogramming and procedural techniques By the time you re finished you ll have mastered all the abstractions you need to write C programs with exceptional quality and performance *C++ Gotchas* Stephen C. Dewhurst,2003 Corpus linguistics is a research approach to investigate the patterns of language use empirically based on analysis of large collections of natural texts While corpus based analysis has had relatively little influence on theoretical linguistics it has revolutionized the study of language variation and use what speakers and writers actually do with the lexical and grammatical resources of a language Corpus based research employs the research methods of quantitative and qualitative

social science to investigate language use patterns empirically This four volume collection is organized around linguistic research questions that can be investigated from a corpus perspective and includes amongst others studies of individual words comparisons of supposedly synonymous words studies of grammatical variation and sociolinguistic studies of dialects registers styles and world varieties Corpus based analysis has also proven to be important for the study of historical change

Lecture Slides for Programming in C++ (Version 2018-02-15) Michael D. Adams, 2018-02-15 This document which consists of over 2000 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 17 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 and namespaces classes templates function class variable and alias templates variadic templates template specialization and SFINAE 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 concurrency memory models and happens before and synchronizes with relationships C STANDARD LIBRARY AND VARIOUS OTHER LIBRARIES Various aspects of the C standard library are covered including containers iterators algorithms 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 code sanitizers e g ASan UBSan and TSan debugging and testing tools e g Catch2 performance analysis tools e g Perf PAPI Gprof and Valgrind Callgrind build tools e g CMake and Make and version control systems e g Git 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 and software documentation

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