



THE C++ STANDARD LIBRARY

SECOND EDITION

A Tutorial and Reference

NICOLAI



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Standard Library Tutorial Reference 2nd

Jianjun Gao



Standard Library Tutorial Reference 2nd:

The C++ Standard Library Nicolai M. Josuttis, 2012-05-25 The Best Selling C Resource Now Updated for C 11 The C standard library provides a set of common classes and interfaces that greatly extend the core C language The library however is not self explanatory To make full use of its components and to benefit from their power you need a resource that does far more than list the classes and their functions The C Standard Library A Tutorial and Reference Second Edition describes this library as now incorporated into the new ANSI ISO C language standard C 11 The book provides comprehensive documentation of each library component including an introduction to its purpose and design clearly written explanations of complex concepts the practical programming details needed for effective use traps and pitfalls the exact signature and definition of the most important classes and functions and numerous examples of working code The book focuses in particular on the Standard Template Library STL examining containers iterators function objects and STL algorithms The book covers all the new C 11 library components including Concurrency Fractional arithmetic Clocks and timers Tuples New STL containers New STL algorithms New smart pointers New locale facets Random numbers and distributions Type traits and utilities Regular expressions The book also examines the new C programming style and its effect on the standard library including lambdas range based for loops move semantics and variadic templates An accompanying Web site including source code can be found at www.cppstdlib.com

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

Real-Time C++ Christopher Kormanyos,2018-05-02 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 third edition the most recent specification of C 17 in ISO IEC 14882 2017 is used throughout the text Several sections on new C 17 functionality have been added and various others reworked to reflect changes in the standard Also several new sample projects are introduced and existing ones extended and various user suggestions have been incorporated To facilitate portability no libraries other than those specified in the language standard itself are used Efficiency is always in focus and numerous examples are backed up with real time performance 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

C++11 for Programmers Paul Deitel,Harvey M. Deitel,2013-03-21 In C 11 for Programmers the Deitels bring their proven Live Code approach to teaching today s powerful new version of the C language Like all Deitel Developer titles they teach the best way possible via hundreds of complete example C programs with thousands of lines of downloadable C source code Unlike other C 11 books this guide teaches robust best practice coding practices that fully support the CERT Coordination Center s authoritative secure coding standards To help you write programs that are even more secure the Deitels also introduce C 11 s new non deterministic random number generation capabilities Using all these techniques you can write industrial strength C 11 code that stands up to attacks from viruses worms and other forms of malware Ideal for anyone who s worked with at least one programming language before C 11 for Programmers utilizes a proven early objects approach emphasizing program clarity software reuse and component oriented software construction In addition to the core language it will help you take advantage of the newest standard libraries and the newest language extensions Coverage includes many new C 11 features including smart pointers regular expressions shared_ptr and weak_ptr and more This book contains 240 complete C 11 programs more than 15 000

lines of downloadable code All code has been thoroughly tested on three popular industrial strength C 11 compilers GNU C 4 7 Microsoft Visual C 2012 and Apple LLVM in Xcode 4 5

Dr. Dobb's Journal ,2001 *Absolute C++* Walter J. Savitch,2006 Offers complete coverage of the C programming language This title offers provides all the tools necessary for experienced and novice programmers to master C including thorough coverage of the Standard Template Library complete and fully executable code throughout sections highlighting programming tips and common pitfalls and a logical order of coverage of C topics in order for readers to better understand the language This book is appropriate for anyone interested in learning how to programming using the C programming language

Programming Languages Kenneth C. Loudon,2003 This text provides students with an overview of key issues in the study of programming languages Rather than focus on individual language issues Kenneth Loudon focuses on language paradigms and concepts that are common to all languages

Bookseller and the Stationery Trades' Journal ,1891 Journal of Object-oriented Programming ,2001

Algorithm Engineering ,2001 The C++ Standard Library Nicolai M Josuttis,2012 The Best Selling C Resource Now Updated for C 11 The C standard library provides a set of common classes and interfaces that greatly extend the core C language The library however is not self explanatory To make full use of its components and to benefit from their power you need a resource that does far more than list the classes and their functions The C Standard Library A Tutorial and Reference Second Edition describes this library as now incorporated into the new ANSI ISO C language standard C 11 The book provides comprehensive documentation of each library component including an introduction to its purpose and design clearly written explanations of complex concepts the practical programming details needed for effective use traps and pitfalls the exact signature and definition of the most important classes and functions and numerous examples of working code The book focuses in particular on the Standard Template Library STL examining containers iterators function objects and STL algorithms The book covers all the new C 11 library components including Concurrency Fractional arithmetic Clocks and timers Tuples New STL containers New STL algorithms New smart pointers New locale facets Random numbers and distributions Type traits and utilities Regular expressions The book also examines the new C programming style and its effect on the standard library including lambdas range based for loops move semantics and variadic templates An accompanying Web site including source code can be found at www.cppstdlib.com

2000 CERN School of Computing, Marathon, Greece, 17-30 September 2000 C. E. Vandoni,2000 **C/C++ Users Journal** ,2003 **Proceedings of the Sixth Workshop on Algorithm Engineering and Experiments and the First Workshop on Analytic Algorithmics and Combinatorics** ACM Special Interest Group for Algorithms and Computation Theory,Society for Industrial and Applied Mathematics,2004 The aim of the annual ALENEX workshop is to provide a forum for the presentation of original research in the implementation and experimental evaluation of algorithms and data structures This research presents significant studies in experimental analysis or in the implementation testing and evaluation of algorithms for realistic environments and

scenarios The paper presentations address specific applied areas that present unique challenges in their underlying algorithmic problems as well as methodological issues and standards in the context of empirical research on algorithms and data structures analysis of algorithms and associated combinatorial structures The papers study properties of fundamental combinatorial structures that arise in practical computational applications such as permutations trees strings tries and graphs and address the precise analysis of algorithms for processing such structures including average case analysis analysis of moments extrema and distributions and probabilistic analysis of randomized algorithms This proceedings collects extended versions of the 14 papers that were selected for presentation from the ALENEX workshop and 10 papers selected for presentation from the ANALCO workshop

UML and C++ Richard C. Lee,William M. Tepfenhart,2001 This practical book by two industry leaders continues to be a self teaching guide for software analysts and developers This revised edition teaches readers how to actually do object oriented modeling using UML notation as well as how to implement the model using C The authors introduce all of the basic object oriented fundamentals necessary so readers can understand and apply the object oriented paradigm

FEATURES Teaches readers to build an object oriented application using C and make the right trade off decisions to meet business needs Exposes a number of the myths surround object oriented technology while focusing on its practicality as a software engineering tool Gives readers a recipe or step by step guide to do all of the steps of object oriented technology Provides a practical approach to analysis design and programming in the object oriented technology

NEW TO THE SECOND EDITION Gives a practical approach for the development of use cases as part of object oriented analysis Provides greater coverage of UML diagramming Introduces key C libraries that provide important functionality supporting implementation of an object oriented model in C Improved coverage of dynamic behavior modeling implementation of the state model and class projects

The Bookseller ,1912 **The Bookseller and the Stationery Trades' Journal** ,1892 Official organ of the book trade of the United Kingdom *The British National Bibliography* Arthur James Wells,2006

C++ Network Programming Douglas C. Schmidt,Stephen D. Huston,2003 Writing high quality networked applications is difficult it s expensive complicated and error prone This book picks up where volume one left off and guides C programmers through using the Adaptive Communication Environment ACE the most complete toolkit available for networked programming

Government Reports Annual Index ,1984 Sections 1 2 Keyword Index Section 3 Personal author index Section 4 Corporate author index Section 5 Contract grant number index NTIS order report number index 1 E Section 6 NTIS order report number index F Z

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