The C++ Standard Library
Second Edition

C Standard Library A Tutorial And Reference

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C Standard Library A Tutorial And Reference:

The C++ Standard Library Nicolai M. Josuttis,2012 1 About this book 2 Introduction to C and the Standard Library 3 New Language Features 4 General Concepts 5 Utilities 6 The Standard Template Library 7 STL Containers 8 STL Container Members in Detail 9 STL Iterators 10 STL Function Object and Using Lambdas 11 STL Algorithms 12 Special Containers 13 Strings 14 Regular Expressions 15 Input Output Using Stream Classes 16 Internationalization 17 Numerics 18 Concurrency 19 Allocators **The C++ Standard Library** Nicholai M. Josuttis,1999 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 The C++ Standard Library Nicolai M. Josuttis,1999 Contains full coverage of the ANSI ISO C standard The text covers classes methods interfaces and objects that make up the standard C libraries Professional C++ Marc Gregoire,2021-02-10 Improve your existing C competencies quickly and efficiently with this advanced volume Professional C 5th Edition raises the bar for advanced programming manuals Complete with a comprehensive overview of the new capabilities of C 20 each feature of the newly updated programming language is explained in detail and with examples Case studies that include extensive working code round out the already impressive educational material found within Without a doubt the new 5th Edition of Professional C is the leading resource for dedicated and knowledgeable professionals who desire to advance their skills and improve their abilities This book contains resources to help readers Maximize the capabilities of C with effective design solutions Master little known elements of the language and learn what to avoid Adopt new workarounds and testing debugging best practices Utilize real world program segments in your own applications Notoriously complex and unforgiving C requires its practitioners to remain abreast of the latest developments and advancements Professional C 5th Edition ensures that its

readers will do just that **The C++ Standard Library Extensions** Pete Becker,2006-07-21 TR1 roughly doubles the size of the C standard library and it introduces many new facilities and even new kinds of library components TR1 has some classes for example where some nested types may or may not exist depending on the template arguments To programmers whose experience stops with the standard library this is strange and unfamiliar This book is complete it covers all TR1 facilities it is easier to understand than TR1 itself and it is technically accurate Matthew Austern software engineer Google TR1 will help make the C programmer more productive than ever In this book Pete Becker has written the ultimate reference guide to these components what they are how they work and what they re used for This book should be on the bookshelf of anyone who wants to use these standardized components to improve both their productivity as well as their coding quality John Maddock consultant and programmer The current C standard library extends the core C language with common classes and functions In recent years to address limitations in that library a number of components have been developed to extend the language even further Compiled in a comprehensive technical report TR1 the bulk of these extensions have been approved for the next revision of the C standard In this book Pete Becker describes in detail each component in the TR1 library explaining new facilities for utilities containers call wrappers type traits numerics regular expressions and C compatibility He draws on his own experience implementing these components to illustrate their value clarifying the specifications when necessary and providing complete tested code examples Most chapters include exercises of various degrees of difficulty to help programmers get hands on practice with the new components Answers to the exercises along with all code examples are available on the Web Appendixes comprise a summary of headers included in or extended by the TR1 library as well as guidelines on how to use the components safely in multithreaded applications The C Standard Library Extensions is for any programmer who wants to get a jump on the revised standard It also makes the perfect companion to The C Standard Library by Nicolai Josuttis both books being tutorials and references essential for using C more effectively

The C++ Standard Template Library P. J. Plauger,2001 Defines the template classes and functions of the standard template library STL component of the C programming language A chapter is devoted to each of the 13 headers providing a functional description of the header contents suggestions for how best to use the facilities defined in the header and the C code itself Additional chapters introduce STL as a whole and discuss three overarching topics iterators algorithms and containers c Book News Inc **C/C++ Users Journal** ,2001 *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   2000 CERN School of Computing, Marathon, Greece, 17-30 September 2000 C. E. Vandoni,2000   *C++ Pocket Reference* Kyle Loudon,2008-08-07 C is a complex language with many subtle facets This is especially true when it comes to object oriented and template programming The C Pocket Reference is a memory aid for C programmers enabling them to quickly look up usage and syntax for unfamiliar and infrequently used aspects of the language The book s small size makes it easy to carry about ensuring that it will always be at hand when needed Programmers will also appreciate the book s brevity as much information as possible has been crammed into its small pages In the C Pocket Reference you will find Information on C types and type conversions Syntax for C statements and preprocessor directives Help declaring and defining classes and managing inheritance Information on declarations storage classes arrays pointers strings and expressions Refreshers on key concepts of C such as namespaces and scope More C Pocket Reference is useful to Java and C programmers making the transition to C or who find themselves occasionally programming in C The three languages are often confusingly similar This book enables programmers familiar with C or Java to quickly come up to speed on how a particular construct or concept is implemented in C Together with its companion STL Pocket Reference the C Pocket Reference forms one of the most concise easily carried quick references to the C language available   *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   **The Waite Group's C++ How-to** Jan Walter,1999 A new definitive C problem solving resource this guide provides programmers with all the tools they need to solve complex and everyday problems quickly including types and declarations pointers overloading derived classes and exception handling   The C++ Report ,1999   Proceedings of the Seventh Workshop on Algorithm Engineering and Experiments and the Second Workshop on Analytic Algorithmics and Combinatorics Camil Demetrescu,Robert Sedgewick,Roberto Tamassia,2005 Presents the aim of the annual ALENEX workshop which is to provide

a forum for the presentation of original research in the implementation and experimental evaluation of algorithms and data structures **CERN.** ,2000 *Unix in a Nutshell* Arnold Robbins,2006 A guide to the operating system s commands and options covers the shell package management text editing source code management and GDB debugger The Proceedings of the Thirtieth SIGCSE Technical Symposium on Computer Science Education Jane Prey,SIGCSE99: The 30th ACM SIGCSE Technical Symposium,1999 Algorithm Engineering ,2001 *The Proceedings of the Thirtieth SIGCSE Technical Symposium on Computer Science Education* Daniel T. Joyce,1999

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