
C Primer By Stanley Lippman

C++ Primer

Learn C++ Quickly

IVOR HORTON'S,

Reviewing C++

Inside the C++ Object Model

More Exceptional C++

Exceptional C++

40 New Engineering Puzzles, Programming Problems, and Solutions

C++ In

47 Engineering Puzzles, Programming Problems, and Solutions

C++ Primer Plus

Beginning C++17

Effective C++ Digital Collection

Python Essential Reference

C Primer Plus

C++ Primer

C++ Pocket Reference

A Practical Approach
From Novice to Professional
C++ Primer
Effective Modern C++
C++ (plus Plus) Primer
C# Primer
A Decade of Programming Insight and Experience
Absolute C++
Programming
C++ Crash Course
Jumping Into C++
C++ Primer Plus
C++ Syntax and Fundamentals
A Complete Beginner's Guide to Learning C++, Even If You're New to Programming
C++ FAQs
Programming Pearls from The C++ Report
A Tour of C++
Principles and Practice Using C++
A Fast-Paced Introduction
Programming and Problem Solving with C++

A C-plus-plus-primer
42 Specific Ways to Improve Your Use of C++11 and C++14
The C++ Programming Language

*C Primer By Stanley
Lippman*

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TOBY ASHTYN

C++ *Primer* Addison-Wesley Longman
The C++11 standard allows
programmers to express ideas more
clearly, simply, and directly, and to write
faster, more efficient code. Bjarne
Stroustrup, the designer and original
implementer of C++, thoroughly covers
the details of this language and its use in
his definitive reference, *The C++
Programming Language, Fourth Edition*.
In *A Tour of C++*, Stroustrup excerpts
the overview chapters from that

complete reference, expanding and
enhancing them to give an experienced
programmer—in just a few hours—a clear
idea of what constitutes modern C++. In
this concise, self-contained guide,
Stroustrup covers most major language
features and the major standard-library
components—not, of course, in great
depth, but to a level that gives
programmers a meaningful overview of
the language, some key examples, and
practical help in getting started.
Stroustrup presents the C++ features in
the context of the programming styles
they support, such as object-oriented
and generic programming. His tour is

remarkably comprehensive. Coverage begins with the basics, then ranges widely through more advanced topics, including many that are new in C++11, such as move semantics, uniform initialization, lambda expressions, improved containers, random numbers, and concurrency. The tour ends with a discussion of the design and evolution of C++ and the extensions added for C++11. This guide does not aim to teach you how to program (see Stroustrup's *Programming: Principles and Practice Using C++* for that); nor will it be the only resource you'll need for C++ mastery (see Stroustrup's *The C++ Programming Language, Fourth Edition*, for that). If, however, you are a C or C++ programmer wanting greater familiarity with the current C++ language, or a

programmer versed in another language wishing to gain an accurate picture of the nature and benefits of modern C++, you can't find a shorter or simpler introduction than this tour provides.

[Learn C++ Quickly Lulu.com](#)

Offers information on using the C++ programming language using the new C++11 standard, covering such topics as concurrency, facilities, standard libraries, and design techniques.

[IVOR HORTON'S, C++ Primer](#)

Bestselling Programming Tutorial and Reference Completely Rewritten for the New C++11 Standard Fully updated and recast for the newly released C++11 standard, this authoritative and comprehensive introduction to C++ will help you to learn the language fast, and to use it in modern, highly effective

ways. Highlighting today's best practices, the authors show how to use both the core language and its standard library to write efficient, readable, and powerful code. C++ Primer, Fifth Edition, introduces the C++ standard library from the outset, drawing on its common functions and facilities to help you write useful programs without first having to master every language detail. The book's many examples have been revised to use the new language features and demonstrate how to make the best use of them. This book is a proven tutorial for those new to C++, an authoritative discussion of core C++ concepts and techniques, and a valuable resource for experienced programmers, especially those eager to see C++11 enhancements illuminated. Start Fast

and Achieve More Learn how to use the new C++11 language features and the standard library to build robust programs quickly, and get comfortable with high-level programming Learn through examples that illuminate today's best coding styles and program design techniques Understand the "rationale behind the rules": why C++11 works as it does Use the extensive crossreferences to help you connect related concepts and insights Benefit from up-to-date learning aids and exercises that emphasize key points, help you to avoid pitfalls, promote good practices, and reinforce what you've learned Access the source code for the extended examples from informit.com/title/0321714113 C++ Primer, Fifth Edition, features an

enhanced, layflat binding, which allows the book to stay open more easily when placed on a flat surface. This special binding method—notable by a small space inside the spine—also increases durability.

Reviewing C++ Pearson Education India Presents the pinnacle of writing on C++ by renowned experts in the field, and is a must-read for today's C++ programmer.

Inside the C++ Object Model Pearson Education

An Introduction to Programming by the Inventor of C++ Preparation for Programming in the Real World The book assumes that you aim eventually to write non-trivial programs, whether for work in software development or in some other technical field. Focus on

Fundamental Concepts and Techniques The book explains fundamental concepts and techniques in greater depth than traditional introductions. This approach will give you a solid foundation for writing useful, correct, maintainable, and efficient code. Programming with Today's C++ (C++11 and C++14) The book is an introduction to programming in general, including object-oriented programming and generic programming. It is also a solid introduction to the C++ programming language, one of the most widely used languages for real-world software. The book presents modern C++ programming techniques from the start, introducing the C++ standard library and C++11 and C++14 features to simplify programming tasks. For Beginners--And Anyone Who Wants to

Learn Something New The book is primarily designed for people who have never programmed before, and it has been tested with many thousands of first-year university students. It has also been extensively used for self-study. Also, practitioners and advanced students have gained new insight and guidance by seeing how a master approaches the elements of his art.

Provides a Broad View The first half of the book covers a wide range of essential concepts, design and programming techniques, language features, and libraries. Those will enable you to write programs involving input, output, computation, and simple graphics. The second half explores more specialized topics (such as text processing, testing, and the C

programming language) and provides abundant reference material. Source code and support supplements are available from the author's website.

More Exceptional C++ "O'Reilly Media, Inc."

Python Essential Reference is the definitive reference guide to the Python programming language — the one authoritative handbook that reliably untangles and explains both the core Python language and the most essential parts of the Python library. Designed for the professional programmer, the book is concise, to the point, and highly accessible. It also includes detailed information on the Python library and many advanced subjects that is not available in either the official Python documentation or any other single

reference source. Thoroughly updated to reflect the significant new programming language features and library modules that have been introduced in Python 2.6 and Python 3, the fourth edition of Python Essential Reference is the definitive guide for programmers who need to modernize existing Python code or who are planning an eventual migration to Python 3. Programmers starting a new Python project will find detailed coverage of contemporary Python programming idioms. This fourth edition of Python Essential Reference features numerous improvements, additions, and updates: Coverage of new language features, libraries, and modules Practical coverage of Python's more advanced features including generators, coroutines, closures,

metaclasses, and decorators Expanded coverage of library modules related to concurrent programming including threads, subprocesses, and the new multiprocessing module Up-to-the-minute coverage of how to use Python 2.6's forward compatibility mode to evaluate code for Python 3 compatibility Improved organization for even faster answers and better usability Updates to reflect modern Python programming style and idioms Updated and improved example code Deep coverage of low-level system and networking library modules — including options not covered in the standard documentation *Exceptional C++* Addison-Wesley The authors begin by explaining why C++ is worth learning and then move on to the most important elements of C++.

This book emphasizes understanding and practical use of the language. It explores the basics, covers inheritance and object-oriented programming, discusses templates and the powerful kind of abstraction they provide, and shows how to design and use libraries.

40 New Engineering Puzzles, Programming Problems, and Solutions

Addison Wesley Longman
The topic is of prime importance to software professionals involved in large development efforts such as databases, operating systems, compilers, and frameworks. This volume explains the process of decomposing large systems into physical (not inheritance) hierarchies of small, manageable components. Concepts and techniques are illustrated with "war stories" from

the development firm, Mentor Graphics, as well as with a large-scale example comprising some 12,000 lines of code.
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C++ In Pearson Education

A simple C++ review book and your best guide to learning C++. This book covers the most seen topics in introductory programming courses such as conditions, loops, arrays, classes and pointers. It even touches some advanced concepts such as linked lists, stacks, exceptions, inheritance and virtual functions. There are also a lot of practice problems that will allow you to sharpen your skills in C++ programming. The practice topics include logic, looping, functions, output tracing, recursion, classes and inheritance. There is also a

section of programming challenges ranging from prime numbers to numerical patterns to a US telephone keypad. All problems can be solved in C++. Please visit www.cstutoringcenter.com/problems for more challenges in C++. Also, visit www.cstutoringcenter.com/books to read more information about this book.

47 Engineering Puzzles, Programming Problems, and Solutions Addison-Wesley
 "Jumping into C++ covers every step of the programming process, including : * getting the tools you need to program and how to use them * basic language features like variables, loops and functions * how to go from an idea to code * a clear, understandable explanation of pointers * strings, file IO, arrays, references * classes, object

oriented programming, and advanced class design * data structures and the standard template library (STL). Key concepts are reinforced with quizzes and over 75 practice problems. You'll also get over 70 sample source code files to use or adapt. [...]" (extrait du résumé de quatrième de couverture).

C++ Primer Plus "O'Reilly Media, Inc."
 C++ Primer Addison-Wesley
Beginning C++17 Pearson Education
 Geared to experienced C++ developers who may not be familiar with the more advanced features of the language, and therefore are not using it to its full capabilities Teaches programmers how to think in C++-that is, how to design effective solutions that maximize the power of the language The authors drill down into this notoriously complex

language, explaining poorly understood elements of the C++ feature set as well as common pitfalls to avoid. Contains several in-depth case studies with working code that's been tested on Windows, Linux, and Solaris platforms. *Effective C++ Digital Collection* Wrox Press

Coming to grips with C++11 and C++14 is more than a matter of familiarizing yourself with the features they introduce (e.g., auto type declarations, move semantics, lambda expressions, and concurrency support). The challenge is learning to use those features effectively—so that your software is correct, efficient, maintainable, and portable. That's where this practical book comes in. It describes how to write truly great software using C++11 and

C++14—i.e. using modern C++. Topics include: The pros and cons of braced initialization, noexcept specifications, perfect forwarding, and smart pointer make functions. The relationships among `std::move`, `std::forward`, rvalue references, and universal references. Techniques for writing clear, correct, effective lambda expressions. How `std::atomic` differs from `volatile`, how each should be used, and how they relate to C++'s concurrency API. How best practices in "old" C++ programming (i.e., C++98) require revision for software development in modern C++. *Effective Modern C++* follows the proven guideline-based, example-driven format of Scott Meyers' earlier books, but covers entirely new material. "After I learned the 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++ Pocket Reference* Cambridge University Press
Learn how to program using the updated C++17 language. You'll start with the

basics and progress through step-by-step examples to become a working C++ programmer. All you need are Beginning C++17 and any recent C++ compiler and you'll soon be writing real C++ programs. There is no assumption of prior programming knowledge. All language concepts that are explained in the book are illustrated with working program examples, and all chapters include exercises for you to test and practice your knowledge. Code downloads are provided for all examples from the text and solutions to the exercises. This latest edition has been fully updated to the latest version of the language, C++17, and to all conventions and best practices of so-called modern C++. Beginning C++17 also introduces the elements of the C++ Standard

Library that provide essential support for the C++17 language. What You'll Learn Define variables and make decisions Work with arrays and loops, pointers and references, strings, and more Write your own functions, types, and operators Discover the essentials of object-oriented programming Use overloading, inheritance, virtual functions and polymorphism Write generic function templates and class templates Get up to date with modern C++ features: auto type declarations, move semantics, lambda expressions, and more Examine the new additions to C++17 Who This Book Is For Programmers new to C++ and those who may be looking for a refresh primer on the C++17 programming language in general. *A Practical Approach* Pearson Education

If you are new to C++ programming, C++ Primer Plus, Fifth Edition is a friendly and easy-to-use self-study guide. You will cover the latest and most useful language enhancements, the Standard Template Library and ways to streamline object-oriented programming with C++. This guide also illustrates how to handle input and output, make programs perform repetitive tasks, manipulate data, hide information, use functions and build flexible, easily modifiable programs. With the help of this book, you will: Learn C++ programming from the ground up. Learn through real-world, hands-on examples. Experiment with concepts, including classes, inheritance, templates and exceptions. Reinforce knowledge gained through end-of-chapter review questions

and practice programming exercises. C++ Primer Plus, Fifth Edition makes learning and using important object-oriented programming concepts understandable. Choose this classic to learn the fundamentals and more of C++ programming.

From Novice to Professional Addison-Wesley Professional

C++ Primer Plus, Sixth Edition New C++11 Coverage C++ Primer Plus is a carefully crafted, complete tutorial on one of the most significant and widely used programming languages today. An accessible and easy-to-use self-study guide, this book is appropriate for both serious students of programming as well as developers already proficient in other languages. The sixth edition of C++ Primer Plus has been updated and

expanded to cover the latest developments in C++, including a detailed look at the new C++11 standard. Author and educator Stephen Prata has created an introduction to C++ that is instructive, clear, and insightful. Fundamental programming concepts are explained along with details of the C++ language. Many short, practical examples illustrate just one or two concepts at a time, encouraging readers to master new topics by immediately putting them to use. Review questions and programming exercises at the end of each chapter help readers zero in on the most critical information and digest the most difficult concepts. In C++ Primer Plus, you'll find depth, breadth, and a variety of teaching techniques and tools to enhance your

learning: A new detailed chapter on the changes and additional capabilities introduced in the C++11 standard Complete, integrated discussion of both basic C language and additional C++ features Clear guidance about when and why to use a feature Hands-on learning with concise and simple examples that develop your understanding a concept or two at a time Hundreds of practical sample programs Review questions and programming exercises at the end of each chapter to test your understanding Coverage of generic C++ gives you the greatest possible flexibility Teaches the ISO standard, including discussions of templates, the Standard Template Library, the string class, exceptions, RTTI, and namespaces Table of Contents
1: Getting Started with C++ 2: Setting

Out to C++ 3: Dealing with Data 4: Compound Types 5: Loops and Relational Expressions 6: Branching Statements and Logical Operators 7: Functions: C++'s Programming Modules 8: Adventures in Functions 9: Memory Models and Namespaces 10: Objects and Classes 11: Working with Classes 12: Classes and Dynamic Memory Allocation 13: Class Inheritance 14: Reusing Code in C++ 15: Friends, Exceptions, and More 16: The string Class and the Standard Template Library 17: Input, Output, and Files 18: The New C++11 Standard A Number Bases B C++ Reserved Words C The ASCII Character Set D Operator Precedence E Other Operators F The stringTemplate Class G The Standard Template Library Methods and Functions H Selected Readings and

Internet Resources I Converting to ISO Standard C++ J Answers to Chapter Reviews

C++ Primer Addison-Wesley Professional

There is a lot of misinformation and myth about the overhead and costs associated with C++. Now Stan Lippman, the acclaimed author of the C++ Primer, answers the call for a book that gives strategy guidelines for C++ programming. Inside the C++ Object Model explains where overhead costs reside and what they actually consist of. The author explains which parts vary by implementation and which are invariant. He tells how the various implementation models arose, points out areas where they are likely to evolve, and explains why they are what they are. This book is

a must for C++ programmers who want to understand the semantic implications

of the C++ object model and how the model affects their programs.