# The C++ Programming Language (hardcover) (4th Edition)

*By Bjarne Stroustrup*

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The new 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++, has reorganized, extended, and completely rewritten his definitive reference and tutorial for programmers who want to use C++ most effectively.

 *The C++ Programming Language, Fourth Edition,*  **delivers meticulous, richly explained, and integrated coverage of the entire language—its facilities, abstraction mechanisms, standard libraries, and key design techniques. Throughout, Stroustrup presents concise, "pure C++11" examples, which have been carefully crafted to clarify both usage and program design. To promote deeper understanding, the author provides extensive cross-references, both within the book and to the ISO standard.**

New C++11 coverage includes

- Support for concurrency
- Regular expressions, resource management pointers, random numbers, and improved containers
- General and uniform initialization, simplified for-statements, move semantics, and Unicode support
- Lambdas, general constant expressions, control over class defaults, variadic templates, template aliases, and user-defined literals
- Compatibility issues

Topics addressed in this comprehensive book include

- Basic facilities: type, object, scope, storage, computation fundamentals, and more
- Modularity, as supported by namespaces, source files, and exception handling
- C++ abstraction, including classes, class hierarchies, and templates in support of a synthesis of traditional programming, object-oriented programming, and generic programming
- Standard Library: containers, algorithms, iterators, utilities, strings, stream I/O,

locales, numerics, and more
- The C++ basic memory model, in depth

This fourth edition makes C++11 thoroughly accessible to programmers moving from C++98 or other languages, while introducing insights and techniques that even cutting-edge C++11 programmers will find indispensable.

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## Editorial Review

About the Author

**Bjarne Stroustrup** (www.stroustrup.com) is the designer and original implementer of C++, as well as the author of *Programming: Principles and Practice Using C++"* (Addison-Wesley, 2009), *The C++ Programming Language* (Addison-Wesley, 1985, 1991, 1997, 2000), and many popular and academic publications. Dr. Stroustrup is a University Distinguished Professor at Texas A&M University and the holder of the College of Engineering Chair in Computer Science. He is a member of the U.S. National Academy of Engineering, an IEEE Fellow, and an ACM fellow. His research interests include distributed systems, design, programming techniques, software development tools, and programming languages. He is actively involved in the ISO standardization of C++.

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