C++11 for Programmers (2nd Edition) (Deitel Developer Series)

By Paul Deitel, Harvey M. Deitel

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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.

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Editorial Review

About the Author
Paul J. Deitel, CEO and Chief Technical Officer of Deitel & Associates, Inc., is a graduate of MIT's Sloan School of Management, where he studied Information Technology. He holds the Java Certified Programmer and Java Certified Developer certifications, and has been designated by Sun Microsystems as a Java Champion. Through Deitel & Associates, Inc., he has delivered Java, C, C++, C# and Visual Basic courses to industry clients, including IBM, Sun Microsystems, Dell, Lucent Technologies, Fidelity, NASA at the Kennedy Space Center, the National Severe Storm Laboratory, White Sands Missile Range, Rogue Wave Software, Boeing, Stratus, Cambridge Technology Partners, Open Environment Corporation, One Wave, Hyperion Software, Adra Systems, Entergy, CableData Systems, Nortel Networks, Puma, iRobot, Invensys and many more. He has also lectured on Java and C++ for the Boston Chapter of the Association for Computing Machinery. He and his father, Dr. Harvey M. Deitel, are the world's best-selling programming language textbook authors.
Dr. Harvey M. Deitel, Chairman and Chief Strategy Officer of Deitel & Associates, Inc., has 45 years of academic and industry experience in the computer field. Dr. Deitel earned B.S. and M.S. degrees from the MIT and a Ph.D. from Boston University. He has 20 years of college teaching experience, including earning tenure and serving as the Chairman of the Computer Science Department at Boston College before founding Deitel & Associates, Inc., with his son, Paul J. Deitel. He and Paul are the co-authors of several dozen books and multimedia packages and they are writing many more. With translations published in Japanese, German, Russian, Spanish, TraditionalChinese, Simplified Chinese, Korean, French, Polish, Italian, Portuguese, Greek, Urdu and Turkish, the Deitels' texts have earned international recognition. Dr. Deitel has delivered hundreds of professional seminars to major corporations, academic institutions, government organizations and the military.

"Dr. Harvey Deitel" is one of the world's leading computer science instructors and seminar presenters, and author of more than a dozen books. He worked on the pioneering operating system teams in industry and academia that developed many of the techniques at the heart of operating systems like UNIX(R), Windows NT(TM) and OS/2(TM)."Paul Deitel "has taught Visual Basic, Java, C and C++ at numerous hardware and software companies, including Sun Microsystems, Digital Equipment Corporation, IBM, Open Environment Corporation, Adra Systems, and Cambridge Technology Partners, and is himself an expert developer. The Deitels are principals of Deitel & Associates, Inc., an international training organization specializing in Visual Basic, Java, C and C++, and object technologies.

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