



C# How to Program

By Harvey M. Deitel, Paul J. Dietel, Jeffrey A. Listfield, Tem R. Nieto, Cheryl H. Yaeger, Marina Zlatkina

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For courses on C# programming found in departments of Computer Science, CIS, MIS, IT, Business, Engineering and Continuing Education. An exciting addition to the How to Program series, C# How to Program provides a comprehensive introduction to Microsoft's new object-oriented language. C# builds on the skills already mastered by countless C++ and Java programmers, enabling them to create powerful Web applications and components-ranging from XML-based Web services on Microsoft's .NET A platform to middle-tier business objects and system-level applications. C# How to Program gives students the strong foundation in introductory and intermediate programming principles they'll need in industry. Mastering C# will allow them to create complex systems-using fewer lines of code and reducing the chance for error. The end result is faster development at a decreased cost-and optimum adaptability that makes it easy to keep up with the evolving Web.

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Editorial Review

From the Back Cover

The authoritative DEITEL™ LIVE-CODE™ introduction to Windows®, .NET, Internet and World Wide Web programming in C#

This new book by the world's leading programming-language textbook authors carefully explains how to use C#—the premier language in Microsoft's .NET initiative—as a general-purpose programming language, and how to develop multi-tier, client/server, data-base-intensive, Internet- and Web-based applications.

Dr. Harvey M. Deitel and **Paul J. Deitel** are the founders of Deitel & Associates, Inc., the internationally-recognized corporate-training and content-creation organization specializing in C#, Visual Basic® .NET, Visual C++® .NET, Java™, C++, C, XML™, Python, Perl; Internet, Web, wireless, e-business and object technologies. The Deitels are the authors of several worldwide #1 programming-language textbooks, including *Java How to Program, 4/e*, *C++ How to Program, 3/e* and *Internet & World Wide Web How to Program, 2/e*.

In *C# How to Program* the Deitels and their colleagues, **Jeff Listfield**, **Tem. R. Nieto**, **Cheryl Yaeger** and **Marina Zlatkina**, discuss topics you need to build complete .NET, Web-based applications. Key topics include:

- .NET Introduction/IDE/Debugger
- Web Services/ASP.NET
- Control Structures/Methods/Properties
- Classes/Data Abstraction
- OOP/Inheritance/Polymorphism
- Arrays/Data Structures/Collections
- Database/ADO .NET/SQL
- Assemblies/Namespace/Exceptions
- GUI/Forms/Controls/Events/Delegates
- Web Forms/Web Controls/Accessibility
- XML/XSLT™/DOM™/VoiceXML™
- Multithreading/Networking/Client-Server
- Files/Streams/Strings/Regular Expressions
- Operator Overloading/COM Integration
- Multimedia/Graphics/GDI+
- Bit and Character Manipulation/Unicode®

C# How to Program includes extensive pedagogic features:

- Hundreds of LIVE-CODE™ programs with screen captures that show exact outputs
- Internet and World Wide Web resources to encourage further research
- Hundreds of tips, recommended practices and cautions—all marked with icons

C# How to Program is the centerpiece of a complete family of resources for teaching and learning C#, including several Web sites (www.deitel.com, www.prenhall.com/deitel and www.InformIT.com/deitel)

with the book's source-code examples (which are also on the enclosed CD) and other information for faculty, students and professionals; an optional interactive CD (*C# Multimedia Cyber Classroom*) containing hyperlinks, solutions to half the book's exercises and audio walkthroughs of the book's code examples; and e-mail access to the authors at:

deitel@deitel.com

For information on worldwide Deitel on-site seminars and to subscribe to the *Deitel Buzz* e-mail newsletter, visit:

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Live in fragments no longer. Only connect.

Edward Morgan Forster

We wove a web in childhood,

A web of sunny air.

Charlotte Brontë

Welcome to C# and the world of Windows, Internet and World-Wide-Web programming with Visual Studio and the .NET platform! This book is the second in our new *.NET How to Program* series, which presents various leading-edge computing technologies in the context of the .NET platform.

C# is the next phase in the evolution of C and C++ and was developed expressly for Microsoft's .NET platform. C# provides the features that are most important to programmers, such as object-oriented programming, strings, graphics, graphical-user-interface (GUI) components, exception handling, multithreading, multimedia (audio, images, animation and video), file processing, prepackaged data structures, database processing, Internet and World-Wide-Web-based client/server networking and distributed computing. The language is appropriate for implementing Internet- and World-Wide-Web-based applications that seamlessly integrate with PC-based applications.

The .NET platform offers powerful capabilities for software development and deployment, including independence from a specific language or platform. Rather than requiring developers to learn a new programming language, programmers can contribute to the same software project, but write code using any (or several) of the .NET languages (such as Visual Basic .NET, Visual C++ .NET, C# and others) with which they are most competent. In addition to providing language independence, .NET extends program portability by enabling .NET applications to reside on, and communicate across, multiple platforms—thus facilitating the delivery of Web services over the Internet. .NET enables Web-based applications to be distributed to consumer-electronic devices, such as cell phones and personal digital assistants, as well as to desktop computers. The capabilities that Microsoft has incorporated into the .NET platform create a new software-development paradigm that will increase programmer productivity and decrease development time.

New Features in *C# How to Program*

This edition contains many new features and enhancements, including:

- ***Two-Color Presentation.***

XML Documentation. Documenting program code is crucial for software dev... Users Review**From reader reviews:**

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