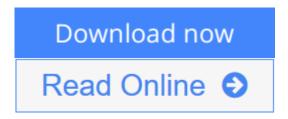# C# Programming with the Public Beta

By Simon Robinson, Julian Templeman, Karli Watson, Burt Harvey

C# Programming with the Public Beta By Simon Robinson, Julian Templeman, Karli Watson, Burt Harvey

C# is a new object-oriented programming language in development from Microsoft. Based on C++ it contains features similar to those of Java. The intention is to combine the computing power of C++ with the programming ease of Visual Basic.

C# has been created with the Internet in mind and an aim to balance power with productivity. It provides rapid web development for the C++ and C programmer.

Forming part of the new .NET initiative, C# is designed to be used in conjunction with Microsoft's .NET platform of products. C# makes use of XML data and SOAP in order to simplify programming, these facilities allow the user to build on existing code rather than making repeated duplications. C# is expected to make it faster and less expensive to market new products and services. Microsoft's aim for this product is to facilitate the exchange of information and services over the Web and to enable developers to build highly portable applications.

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Editorial Review

Amazon.com Review
With Microsoft's new C# and .NET framework due out later in 2001, Windows C++ developers are scrambling for reliable sources of information on this new platform. *C# Programming with the Public Beta* fills this need with a fast-moving tour of the latest from Microsoft on what C# and .NET will offer.

The goal of this concise volume is to get the reader up to speed on what C# is and how it fits into the Microsoft *vision* for the new .NET. To this end, the book presents a solid tour of .NET features from the Common Language Runtime (and virtual machine) and platform features such as better control of deployment and interoperability with COM, as well as new APIs like ADO.NET (for databases) and ASP.NET (for dynamic Web pages). While sometimes necessarily sketchy (since the material is still emerging from Microsoft), the authors provide short, effective examples on such topics as programming databases with ADO.NET, a simple component deployed with .NET, and Web programming with ASP.NET. In all, this cross section of the APIs and technologies that will be delivered on the .NET platform is quite good.

The other focus of the book is a nicely compact tutorial for C# geared to those with some C++ and/or Java experience. These chapters move quickly through what you'll need to know about C#, from basic data types, flow control, and class design tips, to more advanced features (such as creating and invoking C# objects dynamically or using "unsafe" legacy C++ code from within C#). The Visual Studio .NET (Beta 1) environment and tools are examined thoroughly, as are Microsoft's plans for integrating legacy technologies like COM into the new .NET and C#. Short samples demonstrate the basic programming strategies. -- *Richard Dragan*

Topics covered:

- Introduction to the Microsoft .NET framework
- The Common Language Runtime (CLR)
- Intermediate language (IL)
- COM+ versus .NET
- History of C, C++, Java, and C#
- Types of .NET applications
- In-depth tutorial to C# (including data types, operators, flow control, exception handling, and classes)
- Overview of Visual Studio .NET (Beta 1) development environment and tools
- Object-oriented programming in C#
- Using classes and inheritance
- Boxing and unboxing objects
- Operator overloading
- Interfaces
- Properties
- Indexers
- Delegates and events
- Advanced C# features (including variable argument lists, reflection, dynamic creation and invocation, attributes and "unsafe code")
- The C# base classes (dates and times, accessing files and folders, Web browsing, and mathematical

functions)

- Building Windows applications with WinForms (including programming with controls)
- The ADO.NET object model and basic database programming with .NET
- Deploying components and assemblies with .NET (including security features with shared names)
- Early and late binding with COM objects in C# (including using ActiveX components)
- New COM+ services and how to use them in .NET
- Web programming with ASP.NET
- Using Web services (including the Simple Object Access Protocol, SOAP)

From the Publisher
C and C++ programmers looking to extend their existing skills into the area of web development. Visual Basic programmers seeking a more powerful language and ASP developers who are interested in what C# has to offer.

What does this book cover?

C# language syntax The .NET framework Visual Studio .NET Writing components in the .NET environment Writing ASP+ pages in C# WinForms applications Web services

Whats great about this book?

Goes beyond just theory and includes practical examples depicting C# in action. Includes a preview of Visual Studio. NET and an overview of the .NET framework Shows C# integrating with related technologies (ASP+, ADO+, COM+) in .NET Applications

About the Author
Burton Harvey
A software development consultant for Oakwood Systems Group (a Microsoft Partner company specialising in Internet solutions). He is an MCSD with fifteen years' experience using Microsoft development tools.

Simon Robinson
Former academic who specialized in post-doctorate computational physics & mathematical modelling, focusing on quantum physics and superconductors. He subsequently worked as 50% programmer and 50% evaluation / researcher for Lucent Technologies, until June 1999. Now working freelance, he has eleven years continuous programming experience. In addition to this, he is recognized expert in COM/DCOM/ATL, ADSI, Active Directory, MFC, LDAP, C++, VB and MMC.

Julian Templeman
Originally trained as a geologist, Julian progressed into programming in the late seventies. Subsequent to working in computer graphics and the oil industry, he now works for a London-based training and consultancy company, where he spends a large part of his time lecturing on C++ and Windows programming.

Karli Watson
Karli is an in-house author for Wrox Press with a penchant for multicolored clothing. He started out with the intention of becoming a world famous nanotechnologist, so perhaps one day you might recognize his name as he receives a Nobel Prize. For now, though, Karli's computing interests include all things mobile, and upcoming technologies such as C#. He can often be found preaching about these technologies at conferences, as well as after hours in drinking establishments. Karli is also a snowboarding enthusiast, and wishes he had a cat.

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