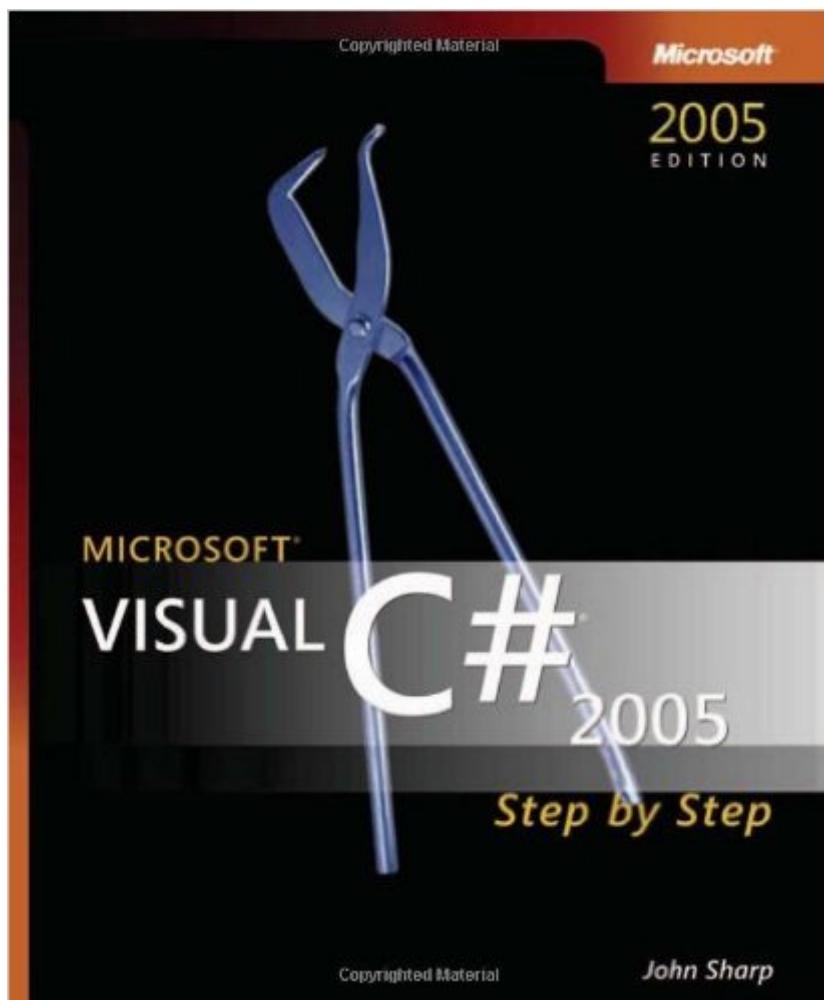


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# Microsoft® Visual C#® 2005 Step By Step (Step By Step Developer)



## Synopsis

Teach yourself Visual C# 2005 fundamentals "one step at a time. With this practical, learn-by-doing tutorial, you get the guidance you need to start creating programs and components in C#!Discover how to: Work in the Visual Studio 2005 development environment Declare variables, call methods, and create operators Construct statements to selectively or repeatedly run your code Catch and handle exception errors Use object-oriented concepts to declare classes and objects Write destructors to clean up unneeded code and help manage resources Create reusable components, such as properties, indexers, and events Define types and parameters for generics and generalized classes Use Windows Forms to create user interfaces complete with user controls Access data sources using Microsoft ADO.NET Construct Web Forms that display large volumes of data Validate user input with Microsoft ASP.NET controls Write, test, and deploy Web services CD features all practice exercises.A Note Regarding the CD or DVDThe print version of this book ships with a CD or DVD. For those customers purchasing one of the digital formats in which this book is available, we are pleased to offer the CD/DVD content as a free download via O'Reilly Media's Digital Distribution services. To download this content, please visit O'Reilly's web site, search for the title of this book to find its catalog page, and click on the link below the cover image (Examples, Companion Content, or Practice Files). Note that while we provide as much of the media content as we are able via free download, we are sometimes limited by licensing restrictions. Please direct any questions or concerns to [booktech@oreilly.com](mailto:booktech@oreilly.com).

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## Customer Reviews

This is an excellent resource for learning C#/.NET. It covers the basics of the language and then eventually heads into more advanced topics such as ADO.NET, ASP.NET, etc. Like with any book, the more you know coming in, the more you can take advantage of it, but I would say that even someone new to programming can get a lot out of this book.

**Good Stuff:**

- 1) Each topic in parts 1-4 is covered in a step by step fashion with plenty of examples to help you learn by doing.
- 2) Excellent summary for each chapter highlighting key points in a tabular format including mini code examples.
- This is by far one of the best way of doing a summary in a programming book I've seen.
- 3) You can do 99% of the examples with MS Visual C# Express Edition which is free. So you don't need to go out and buy Visual Studio 2005.
- 4) The book is broken up into 6 parts and this organization is well thought out. Parts 1-4 pretty much cover the language, Part 4 covers how to use Windows Forms with C#, Part 5 covers how to use ADO.NET with C# and finally Part 6 covers ASP.NET.
- 5) Good topic coverage for a beginner book.

**Stuff that could have been done better:**

- 1) My primary frustration with this book is the many typographical errors. The errata list is bigger than what I would like to see and it wasn't even exhaustive. I found many errors not on the errata and even though I submitted them, I got no response. Make sure you print out the errata and keep it with you while you read.
- 2) There is no coverage of how to use C# with XML, nor is there coverage on File I/O, streams etc. It would have been good to have chapters on these topics. I think they're more important than covering ASP.NET.
- 3) Part 5 (ADO.NET) is not that good. The way that ADO.NET is explained is not as step by step as the previous 4 parts. The order in which things are done does not lend well to explaining the concepts. For ex: the first thing the author does is have you run a command line SQL script to modify a pre-existing database. Some more basic parts of ADO.NET such as how to create a database from scratch in Visual Studio are not covered at all. You would think that this is what would be done first. The chapters on ADO.NET could have been written in a much better way, preferably one that assumes little to no prior knowledge of a database. Nonetheless, to have ADO.NET coverage at all in a book at this level is good.
- 4) Part 6 covers ASP.NET. There are four chapters on this topic which quite good considering this is not an ASP.NET book. Don't expect to get a good understanding of ASP.NET however, as ASP.NET cannot be understood well in such brevity.

**Bottom Line:** I recommend adding this book to your arsenal if you plan on learning C#. It covers the language in adequate detail in a step by step fashion. [...]

I'm a long time developer with even a Microsoft Visual Basic .NET exam successfully completed but I wanted to transition over to C#. In preparing for the VB.NET exam I had some decidedly mixed experiences with the Microsoft Step By Step books - so much so that I tended to avoid them. I have a number of good books on C# but I was actually able to look at this before I purchased it here on . I am about halfway through the book and will tell you that I am very impressed. The material starts easily and ramps up fast to where I feel I am into the substance of the material and its not over my head. The book appears to cover the full range of material that I think I need to be able to move over into Visual Studio 2005 to begin developing my own personal commercial web site. Why a non-programmer would ever get into C# .NET programming is beyond me but for anybody else with any kind of programming background and who wants to go into C# and the .NET development environment I highly recommend this book.

Overall I really liked this book. Though, I've found that in learning C# -- you'll require an assortment of reference and guidance books to successfully complete your journey. Mr Sharp does a great job in the early sections of the book and his step-by-step examples are also good. The section on indexers was extremely disappointing as the examples were very, very abstract. Also weak, the delegates/events section was extremely brief. I'm happy that I've read the book, but it alone will not prepare you to writing robust production level code. Overall I really liked this book, but for upper level C# concepts you will need to look elsewhere.

I am a C++ coder doing white box QA testing, after reading about C# thought it might prove useful in developing QA Tools for testing backend processes, got this book on a whim and it has proved to be very useful, well written, and very good examples, although I have a OOP background I found the chapters on OOP could be helpful for the beginner as well as us "know it alls," and would recommend this to my colleges and friends.

This was a good book, but I thought they introduced some complex concepts too early in the book. (Overloaded operators come immediately to mind.) Each concept is covered well, but it isn't really step by step. If you already know C#, then this will get you up to speed on the new material quickly, but for a C# beginner, there are better books.

This is one of the best start up books for people that are new to C#, Visual Studio 2005 and the .Net Frameworks, and/or are coming from a VB 6 background, with little or no experience with true object

oriented programming concepts. All the C# fundamentals are covered, in a clear and easy to understand presentation. Basic object oriented concepts are presented in an early chapter with simple examples, and then are later expanded upon with more detailed examples showing the real power of inheritance, encapsulation, polymorphism, and interfaces. The book also includes useful introductions to the Visual Studio 2005 IDE, Winforms, ASP.Net, ADO.Net, and Web Services, with accompanying labs for each. Perhaps this book scores its highest points with its simplified discussion of delegates and events, a topic which is unfortunately usually made needlessly obtuse by most C# books. I wish I could have started with a great beginners book like this when I entered the .Net world back in 2002. I'd recommend this book to anybody new to C# and object oriented programming. After finishing this book, add to your object oriented skill set with the indispensable 'Head First Design Patterns' and you'll have a solid foundation for advancing to the next level of C# and .Net programming.

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