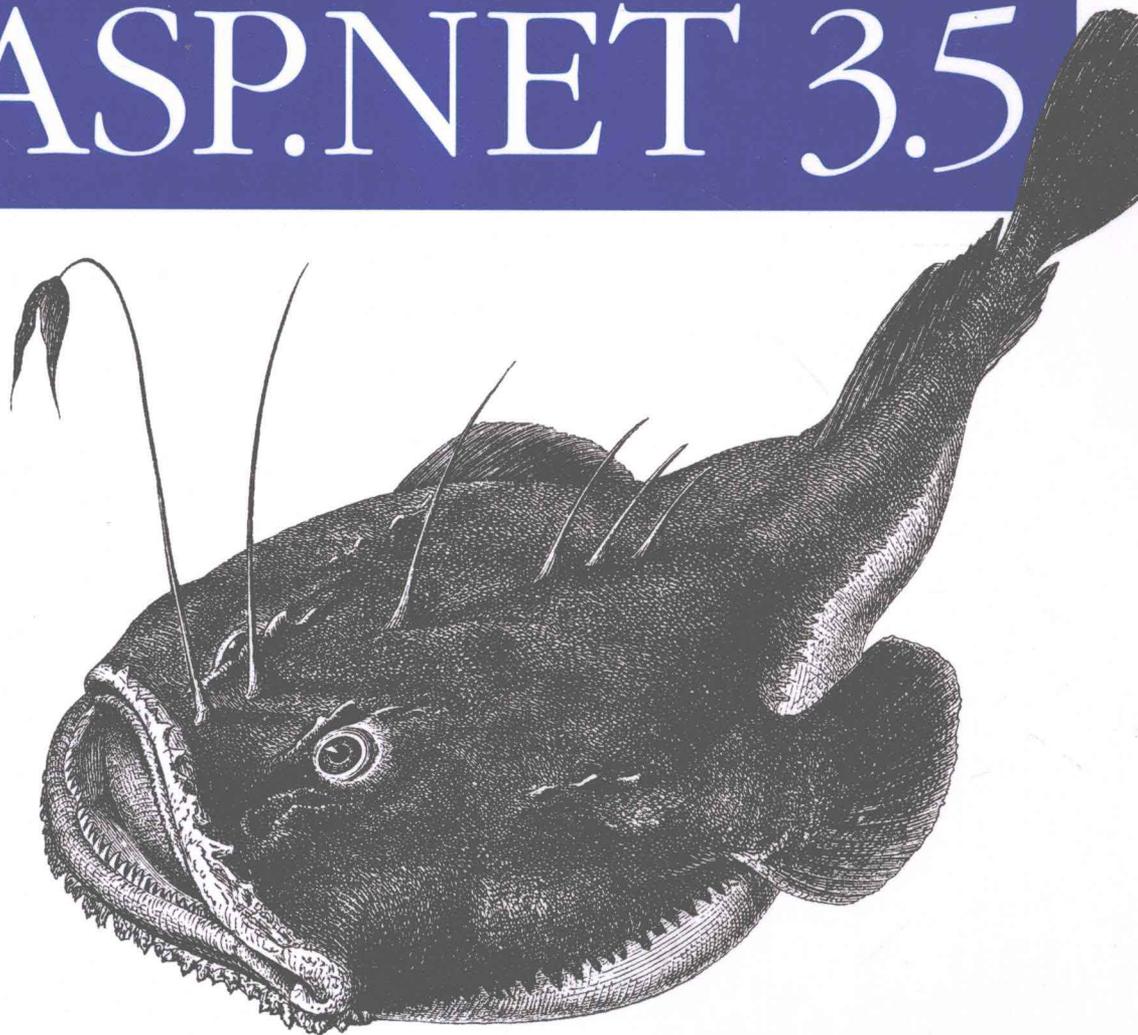


学习ASP.NET 3.5 (影印版)

第二版
针对 Visual Studio 2008
的全新内容

Learning

ASP.NET 3.5



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*Jesse Liberty, Dan Hurwitz
& Brian MacDonald 著*

第二版

学习ASP.NET 3.5(影印版)

Learning ASP.NET 3.5

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Jesse Liberty, Dan Hurwitz & Brian MacDonald

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Preface

ASP.NET 3.5 is arguably the fastest, most efficient, most reliable, and best-supported way to create interactive web applications available today. Combined with the development tools available from Microsoft (both free and commercial), it is incredibly easy to create web sites that look great and perform well. Best of all, most of the “plumbing” (security, data access, layout, and so on) is taken care of for you by the .NET Framework.

About This Book

This book will teach you how to build professional quality, interactive, robust data-driven web applications using Visual Basic 2008.

ASP.NET is not difficult to learn. All of the concepts are straightforward, and the Visual Studio and Visual Web Developer environments simplify the process of building powerful web applications. The difficulty in ASP.NET is only that it is so complete and flexible that there are many pieces that must be woven together to build a robust, scalable, and efficient application. This book cuts to the heart of the matter, showing in clear, easy-to-follow steps how to understand and build a web site.

ASP.NET makes it possible to create sophisticated and useful sites with minimal coding. You can enhance the functionality of your sites with Visual Basic or C#, if you choose, but the amount of code that you *must* write is surprisingly small. We’ve adopted that philosophy throughout this book, showing you how to take the most advantage of the tools Microsoft and ASP.NET provide while keeping the coding to a minimum. Whenever you need to write code, we walk you through each step and explain what it all does.

About This Series

O'Reilly Learning books are written and designed for anyone who wants to build new skills and who prefers a structured approach to studying. Each title in this series makes use of learning principles that we (with your help) have found to be best at equipping you with the knowledge you need for joining that new project, for coping with that unexpected assignment from your manager, or for learning a new language in a hurry.

To get the most out of any book in the Learning series, we recommend you work your way through each chapter in sequence. You'll find that you can get a quick grasp of a chapter's content by reading the instructional captions we've written for its examples and figures. You can also use the chapter Summary to preview its key takeaways and to review what you have learned. Most chapters feature one or more sample applications, and, if you learn best by reading code, you can turn to the complete source listing that appears just before the Summary. To bridge any gaps in your knowledge, check out the Cheat Sheets. Finally, to help you test your mastery of the material in each chapter, we conclude with a Brain Builder section, which includes a short quiz to test your grasp of the theory, and some hands-on exercises to give you practice building real applications with your new skills.

Learning books work with you as you learn—much as you would expect from a trusted colleague or instructor—and we strive to make your learning experience enjoyable. Tell us how we've done by sending us praise, brickbats, or suggestions for improvements to learning@oreilly.com.

Learning or Programming?

We have written two ASP.NET books: the one you are currently reading and another named *Programming ASP.NET 3.5* (O'Reilly). This book, *Learning ASP.NET 3.5*, is intended for beginning ASP.NET developers, and answers the question, "What is the quickest way for me to build real web applications with the least amount of coding?"

Our other book, *Programming ASP.NET*, is for developers who are saying: "Help me learn in depth—show me how everything works, and then help me put it to work in web applications." The key difference is this book is aimed to make you productive quickly, while the second book is designed to explore the technology in more depth. They complement each other, but if you are starting out and want to get to work fast, *this* is the one for you.

Learning ASP.NET 3.5 assumes you know some HTML and have some familiarity with Visual Basic 2008 (VB) or C#, or can pick up what you need along the way (or you're willing to run right out and buy *Programming Visual Basic 2008* by Tim Patrick [O'Reilly], although for what you'll be doing here, you won't really need it). To help with this, we have included VB Cheat Sheets throughout the book to explain and clarify some of the VB topics for newbies.

VB Versus C#

A quick note on Visual Basic versus C#: some people choose a .NET book based on what language the examples are given in. That's a natural reaction, but it's really not necessary, and here's why: there is very little actual VB or C# code in any given ASP.NET application, and what there is, you can easily translate from one to the other "on inspection." Besides, the two languages are strikingly similar, and both produce the same output. If you know one, it's quite simple to learn the other. In fact, there are software tools that can convert one language to the other with amazing accuracy. Finally, ASP.NET programmers benefit terrifically by being "bilingual"—that is, having the ability to read VB and write C# (or vice versa).

In the end, we had to choose one language over the other, and we elected to do the examples and exercises for this book in Visual Basic. However, if you prefer C#, you'll find every single example and exercise solution reproduced in C# free for download from this book's web site at <http://www.oreilly.com/catalog/9780596518455>.

How This Book Is Organized

Chapter 1, *Getting Started*, walks you through creating your first web site, *HelloWorld*.

Chapter 2, *Building Web Applications*, goes over the fundamentals of web sites and covers the basic controls available to you in ASP.NET.

Chapter 3, *Snappier Web Sites with AJAX*, shows you how to integrate this powerful client-side technology into your ASP.NET pages.

Chapter 4, *Saving and Retrieving Data*, shows you how to make your site interact with data stored in a database. You'll see controls to retrieve data, allow your users to interact with that data, and then save it back to the database. We'll also discuss the Language Integrated Query (LINQ), new to the .NET Framework.

Chapter 5 looks at *Validation*. ASP.NET provides extensive support for data validation, including ensuring that users provide required information, checking that values are within a range, and matching regular expressions.

Chapter 6, *Style Sheets, Master Pages, and Navigation*, shows you how to make web sites that are professional quality, good looking, consistent, and easy to navigate.

Chapter 7 examines *State and Life Cycle* in ASP.NET. Understanding how, and in what order, a page and its controls are created on the server and rendered to the browser is crucial for building successful interactive web sites. State is the current value of everything associated with the page. This is mostly handled automatically, but this chapter shows you how useful it can be to the developer.

Chapter 8, *Errors, Exceptions, and Bugs, Oh My!*, shows you how to use Visual Studio's tools to debug your application, and also how to handle errors in your code before users see them.

Chapter 9, *Security*, shows you how you can protect your web site from malicious users. You'll find out how to register your users and how to hide parts of your site from users who don't have the appropriate privileges.

Chapter 10, *Personalization*, shows you how to allow your end users to customize the look and feel of the web site according to their personal preferences. You will see how to use themes and skins to accomplish this.

Chapter 11, *Putting It All Together*, is a single, large example that integrates almost everything you have learned throughout the book.

Appendix A, *Installing the Stuff You'll Need*, tells you what hardware and software is required to run the examples in this book and helps you set up your environment.

Appendix B, *Copying a Web Site*, describes the process of copying a web site to a new web site. This is a technique used often throughout this book when building up examples.

Appendix C, *Publishing Your Web Site*, covers the steps to take a web site from the development stage to being publicly available on the web.

Appendix D, *Answers to Quizzes and Exercises*, presents detailed solutions to all of the quiz questions and practice exercises found at the end of each chapter.

Conventions Used in This Book

The following font conventions are used in this book:

Italic

Used for pathnames, filenames, program names, Internet addresses, such as domain names and URLs, and new terms where they are defined.

Constant width

Used for command lines and options that should be typed verbatim, and names and keywords in program examples. Also used for parameters, attributes, properties, expressions, statements, and values.

Constant width italic

Used for replaceable items, such as variables or optional elements, within syntax lines or code.

Constant width bold

Used for emphasis within program code examples.

Pay special attention to notes set apart from the text with the following icons:



This is a tip. It contains useful supplementary information about the topic at hand.



This is a warning. It helps you solve and avoid annoying problems.

Support: A Note from Jesse Liberty

I provide ongoing support for my books through my web site. You can obtain the source code for all of the examples in *Learning ASP.NET 3.5* at:

<http://www.LibertyAssociates.com>

There, you'll also find access to a book support discussion group that has a section set aside for questions about *Learning ASP.NET 3.5*. Before you post a question, however, please check my web site to see if there is a Frequently Asked Questions (FAQ) list or an errata file. If you check these files and still have a question, then please go ahead and post it to the discussion center. The most effective way to get help is to ask a precise question or to create a small program that illustrates your area of concern or confusion, and be sure to mention which edition of the book you have (this is the second edition).

Using Code Examples

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From Jesse Liberty

I am particularly grateful to John Osborn, who has shepherded all of my work through O'Reilly, as well as the editors and production folks at O'Reilly who (as always) made this book so much more than what we originally created.

From Dan Hurwitz

In addition to the people mentioned by Jesse, I also want to commend Brian for the great work he has done on this edition. It is a much better book because of his efforts. And, as always, I especially want to thank my wife for being so supportive of this project. It sounds trite and repetitious, but it would not be possible without her help.

From Brian MacDonald

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