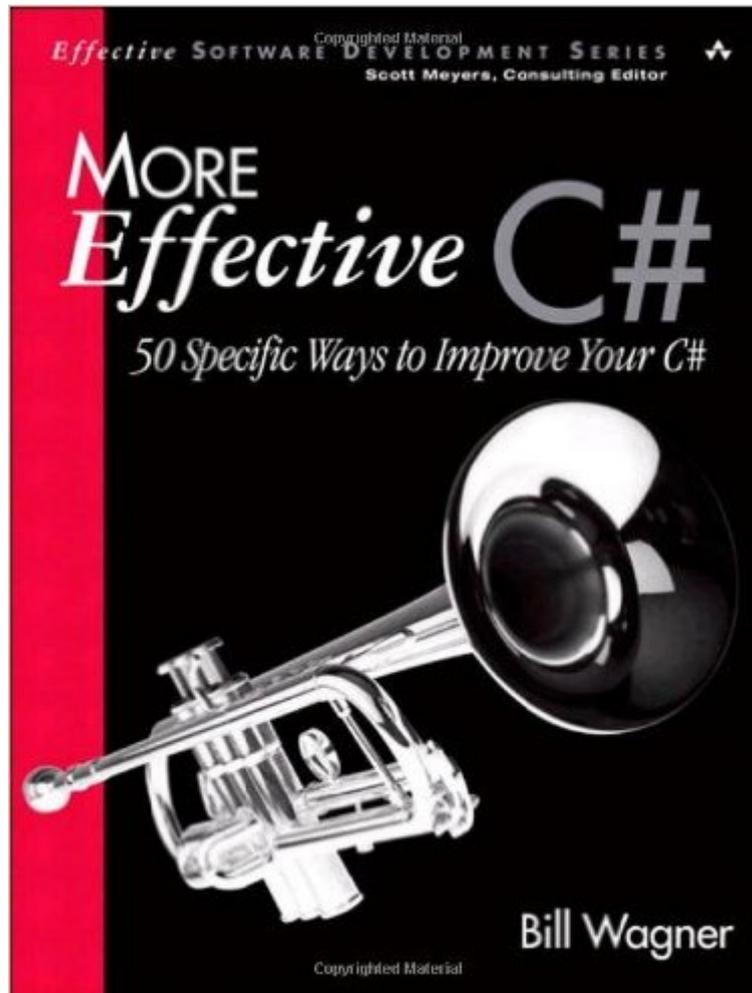


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# More Effective C#: 50 Specific Ways To Improve Your C#



## Synopsis

Shining a bright light into many of the dark corners of C# 3.0, this book not only covers the *how*, but also the *why*, arming the reader with many field-tested methods for wringing the most from the new language features, such as LINQ, generics, and multithreading. If you are serious about developing with the C# language, you need this book.

“Bill Craun, Principal Consultant, Ambassador Solutions, Inc. *More Effective C#* is an opportunity to work beside Bill Wagner. Bill leverages his knowledge of C# and distills his expertise down to some very real advice about programming and designing applications that every serious Visual C# user should know. *More Effective C#* is one of those rare books that doesn't just regurgitate syntax, but teaches you how to use the C# language.”

“Peter Ritchie, Microsoft MVP: Visual C# *More Effective C#* is a great follow-up to Bill Wagner's previous book. The extensive C# 3.0 and LINQ coverage is extremely timely!”

“Tomas Restrepo, Microsoft MVP: Visual C++, .NET, and Biztalk Server *As one of the current designers of C#, it is rare that I learn something new about the language by reading a book. More Effective C# is a notable exception. Gently blending concrete code and deep insights, Bill Wagner frequently makes me look at C# in a fresh light*—one that really makes it shine. *More Effective C#* is at the surface a collection of very useful guidelines. Look again. As you read through it, you'll find that you acquire more than just the individual pieces of advice; gradually you'll pick up on an approach to programming in C# that is thoughtful, beautiful, and deeply pleasant. While you can make your way willy-nilly through the individual guidelines, I do recommend reading the whole book—or at least not skipping over the chapter introductions before you dive into specific nuggets of advice. There's perspective and insight to be found there that in itself can be an important guide and inspiration for your future adventures in C#.”

“Mads Torgersen, Program Manager, Visual C#, Microsoft *Bill Wagner has written an excellent book outlining the best practices for developers who work with the C# language. By authoring More Effective C#, he has again established himself as one of the most important voices in the C# community. Many of us already know how to use C#. What we need is advice on how to hone our skills so that we can become wiser programmers. There is no more sophisticated source of information on how to become a first-class C# developer than Bill Wagner's book. Bill is intelligent, thoughtful, experienced, and skillful. By applying the lessons from this book to your own code, you will find many ways to polish and improve the work that you produce.*”

“Charlie Calvert, Community Program Manager, Visual C#, Microsoft *In More Effective C#, Microsoft C# MVP and Regional Director Bill Wagner introduces fifty brand-new ways to write more efficient and more robust software. This all-new book follows the same format as Wagner's best-selling*

Effective C# (Addison-Wesley, 2005), providing clear, practical explanations, expert tips, and plenty of realistic code examples. Æ Wagner shows how to make the most of powerful innovations built into Microsoft's new C# 3.0 and .NET Framework 3.5, as well as advanced C# language capabilities not covered in his previous book. Drawing on his unsurpassed C# experience, the author reveals new best practices for working with LINQ, generics, metaprogramming, and many other features. He also uncovers practices that compromise performance or reliability and shows exactly how to avoid them. Æ More Effective C# shows how to

- Use generics to express your design intent more effectively
- Master advanced generics techniques, such as constraints, method constraints, and generic specialization
- Use the multithreaded techniques you'll need to work with the .NET framework every day
- Express modern design idioms using the rich palette of C# language features
- Successfully mix object oriented and functional programming constructs
- Create composable interfaces and avoid confusion in public interfaces
- Use extension methods to separate contracts from implementation
- Program successfully with C# closures and anonymous types
- Write more effective LINQ queries
- Make the most of LINQ Lazy Evaluation Queries and Lambda Expressions
- Distinguish and convert between delegates and expression trees
- Efficiently utilize nullable types and partial classes
- Use implicit properties for mutable, nonserializable data

You're already a successful C# programmer Æ "this book can help you become an outstanding one.

## Book Information

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## Customer Reviews

I've been waiting on this book for ages. Mr. Wagner's original "Effective C#" was a revelation to me. He raised questions I never thought to ask myself about why we do things certain ways in C# rather than others, and then provided insights into what the stakes were. Reading "Effective C#" basically taught me to take programming seriously. I learned to always question my own decisions and to look for better ways to do what I already knew how to do moderately well. The only shortcoming of "Effective C#" was that it was written for the 1.1 framework, and new editions were never forthcoming. I assumed that Mr. Wagner was spending all these intervening silent years updating his original book. With "More Effective C#" however, we actually get something quite different. Of course, there are plenty of chapters detailing the post-1.1 features of the C# language, and these are extremely valuable. For instance, the first chapter in this new book is a fresh take on generics, which I found quite interesting. The real differences become apparent in the subsequent chapters, however. Whereas the original book was a sort of guide for the perplexed, teaching developers to think in new ways, I think of "More Effective C#" as a book of party tricks for programmers. Mr. Wagner already dealt with the fundamental problems of C# programming in his original book, and a rehash of that, while fascinating, would have provided little new. With this sequel, the author instead moves from principles to possibilities. He stretches and extends our minds with the possibilities that the much more powerful C# 3.0 language offers us as programmers.

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