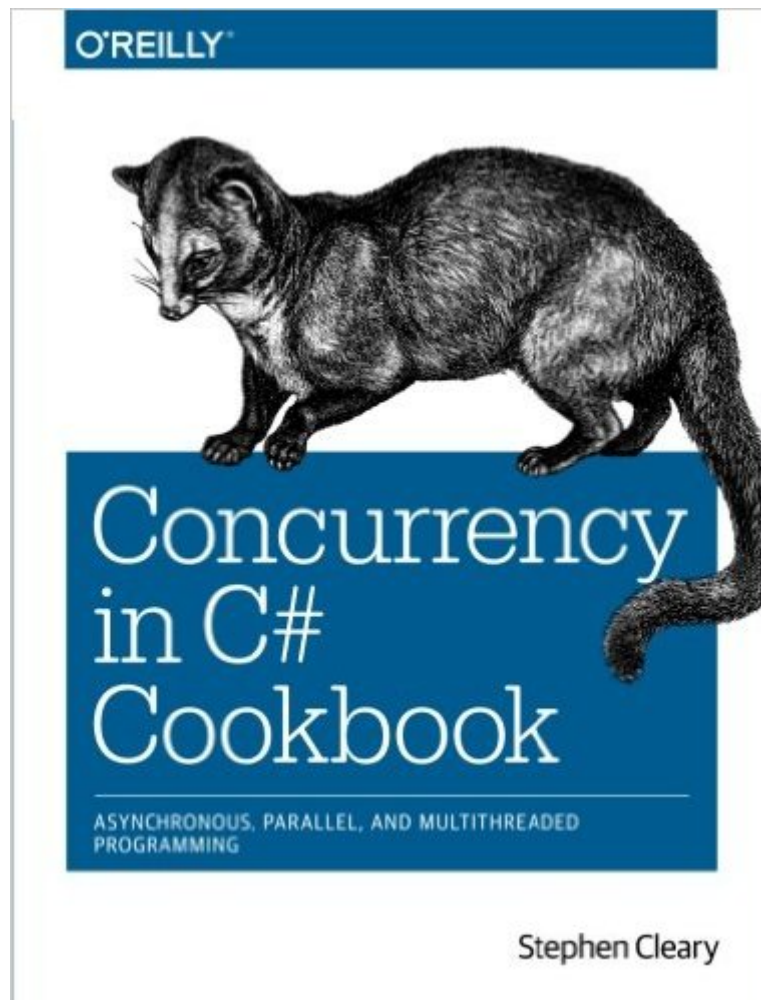


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# Concurrency In C# Cookbook



## Synopsis

If you're one of the many developers uncertain about concurrent and multithreaded development, this practical cookbook will change your mind. With more than 75 code-rich recipes, author Stephen Cleary demonstrates parallel processing and asynchronous programming techniques, using libraries and language features in .Net 4.5 and C# 5.0. Concurrency is becoming more common in responsive and scalable application development, but it's been extremely difficult to code. The detailed solutions in this cookbook show you how modern tools raise the level of abstraction, making concurrency much easier than before. Complete with ready-to-use code and discussions about how and why the solution works, you get recipes for using `async` and `await` for asynchronous operations. Parallel programming with the Task Parallel Library. The Tpl Dataflow library for creating dataflow pipelines. Capabilities that Reactive Extensions build on top of Linq. Unit testing with concurrent code. Interop scenarios for combining concurrent approaches. Immutable, thread-safe, and producer/consumer collections. Cancellation support in your concurrent code. Asynchronous-friendly Object-Oriented Programming. Thread synchronization for accessing data.

## Book Information

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## Customer Reviews

Takes a very high level approach to concurrent programming: deals in TPL and PLINQ instead of threading basics. I think it's a great approach more suited to modern development practices. I would rate this as Expert level literature - requires a reasonable understanding of C#, CLI code execution, design patterns and a thorough understanding of threading basics. **Tip #1** - "As soon as you type

new Thread(), it's all over; your project already has legacy code"

Four stars because I found several minor errors/typos and although it's fairly easy to read it's not as exciting as I would have hoped. If you're looking to improve your coding then this book is a must read. It warns you of deprecated coding methods and shows you the right way to get the job done. I recommend it for an intermediate to advanced developer. It definitely shouldn't be your first book but it should be on your list of reads. It covers the new Async / Await method and Tasks. There are some special conditions that I found interesting and I expect will keep me from making bad assumptions. Some of the material in this book is duplicated in other books but there's definitely some great content. This book is on my must read list.

I have read the parts I needed (on asynchronous programming). I find the writing style and presentations very good, and the coverage to be very complete. I have been mostly disappointed with other technology books. This one stands out and delivers. The author's website is also really chock-full of good stuff.

Finally an awesome book on multitasking. I've followed Stephen's blog for some time. This book however takes all the good parts of async/await, Reactive Extensions, TPL Dataflow, etc. and presents with easy-to-read examples, which I was able to easily utilize in my own code. Thank you.

Stephen's blog at[...]has been my go-to source for all of my concurrency questions. Once I got some spare money, I figured I couldn't go wrong with buying his book and giving some money to the man who resolved a lot of my headaches. It was well worth-it. He does a fantastic job explaining different solutions and scenarios, without over-bloating it with nonsense. There are a lot of books out there that have tons of filler, just to make themselves thick -- this book is not that. It's a very slim book, but every page is carefully written to include just the right amount of information. With that being said, there were a few instances where Stephen would make a note of something being a good idea or not being a good idea (i.e. steer clear of this method), but didn't really explain why that is so. There are just a few of those instances, so it doesn't affect the quality of the book overall. Also, he responds to emails really quickly. I had a question in regards to a usage case with TPL Dataflow and Stephen responded almost immediately. Any serious .NET/C# developer will immensely benefit from this book, so I highly recommend it.

By no means a book for beginners, you should read this book when you already have a good understanding of tasks and how they work. But once you do, it will give you a good overview of a lot of tools and patterns of how to use tasks correctly. TPL is not an easy topic and after reading the book, a lot of concepts that I thought I understood, now make a lot more sense. The examples in the book are highly relevant. They are true problems that occur frequently in async development and the provided solutions are simple, clear and correct. Most important, they are not easy to find anywhere else in the web.

I've seen Stephen's posts around many different forums in the past 10 years and can testify he has a profound knowledge in this area of Asynchronous programming. He touches a bit on RX (another very cool framework), but in a huge surprise to me he introduced me to the Asynchronous Block support (I had no idea it existed). If you read and understand this book you will be your company's .NET Async expert. You will not however be an RX expert...Hint: Stephen.... write an RX book please!

This is THE goto book when it comes to working with modern threading under the TPL in .NET. The book is written well and presents the information in an easy to digest manner. Strongly recommend if you're a professional C# developer.

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