Concurrency in C# Cookbook

ASYNCHRONOUS, PARALLEL, AND MULTITHREADED
PROGRAMMING

Stephen Cleary

Concurrency In C Cookbook Stephen Cleary

P. A. Buhr,G. J. Ditchfield,C. R. Zarnke

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   Concurrency in C# Cookbook Stephen Cleary,2014-05-15 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 threadsafe and producer consumer collections Cancellation support in your concurrent code Asynchronous friendly Object Oriented Programming Thread synchronization for accessing data   Concurrency in C♯ Cookbook Stephen Cleary (Web developer),2014   **Concurrency in C# Cookbook, 2nd Edition** Stephen Cleary,2019 If you re one of many developers still uncertain about concurrent and multithreaded development this practical cookbook will change your mind With more than 85 code rich recipes in this updated second edition author Stephen Cleary demonstrates parallel processing and asynchronous programming techniques using libraries and language features in NET and C 8 0 Concurrency is now more common in responsive and scalable application development but it s still 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 solutions work these recipes help you Get up to speed on concurrency and async and parallel programming Use async and await for asynchronous operations Enhance your code with asynchronous streams Explore parallel programming with NET s Task Parallel Library Create dataflow pipelines with NET s TPL Dataflow library Understand the capabilities that System Reactive builds on top of LINQ Utilize threadsafe and immutable collections Learn how to conduct unit testing with concurrent code Make the thread pool work for you Enable clean cooperative cancellation Examine scenarios for combining concurrent approaches Dive into asynchronous friendly object oriented programming Recognize and write adapters for code using older asynchronous styles

   C# 6.0 Cookbook Jay Hilyard,Stephen Teilhet,2015-09-29 Completely updated for C 6 0 the new edition of this bestseller offers more than 150 code recipes to common and not so common problems that C programmers face every day More than a third of the recipes have been rewritten to take advantage of new C 6 0 features If you prefer solutions to general C language instruction and quick answers to theory this is your book C 6 0 Cookbook offers new recipes for asynchronous methods dynamic objects enhanced error handling the Rosyln compiler and more Here are some of topics

covered Classes and generics Collections enumerators and iterators Data types LINQ and Lambda expressions Exception handling Reflection and dynamic programming Regular expressions Filesystem interactions Networking and the Web XML usage Threading Synchronization and Concurrency Each recipe in the book includes tested code that you can download from oreilly com and reuse in your own applications and each one includes a detailed discussion of how and why the underlying technology works You don t have to be an experienced C or NET developer to use C 6 0 Cookbook You just have to be someone who wants to solve a problem now without having to learn all the related theory first *Hands-On RESTful Web Services with ASP.NET Core 3* Samuele Resca,2019-12-27 Get up to speed with the latest features of C 8 ASP NET Core 3 and NET Core 3 1 LTS to create robust and maintainable web services Key FeaturesApply design patterns and techniques to achieve a reactive scalable web serviceDocument your web services using the OpenAPI standard and test them using PostmanExplore mechanisms to implement a secure web service using client side SSL and token authenticationBook Description In recent times web services have evolved to play a prominent role in web development Applications are now designed to be compatible with any device and platform and web services help us keep their logic and UI separate Given its simplicity and effectiveness in creating web services the RESTful approach has gained popularity and this book will help you build RESTful web services using ASP NET Core This REST book begins by introducing you to the basics of the REST philosophy where you ll study the different stages of designing and implementing enterprise grade RESTful web services You ll also gain a thorough understanding of ASP NET Core s middleware approach and learn how to customize it The book will later guide you through improving API resilience securing your service and applying different design patterns and techniques to achieve a scalable web service In addition to this you ll learn advanced techniques for caching monitoring and logging along with implementing unit and integration testing strategies In later chapters you will deploy your REST web services on Azure and document APIs using Swagger and external tools such as Postman By the end of this book you will have learned how to design RESTful web services confidently using ASP NET Core with a focus on code testability and maintainability What you will learnGain a comprehensive working knowledge of ASP NET CoreIntegrate third party tools and frameworks to build maintainable and efficient servicesImplement patterns using dependency injection to reduce boilerplate code and improve flexibilityUse ASP NET Core s out of the box tools to test your applicationsUse Docker to run your ASP NET Core web service in an isolated and self contained environmentSecure your information using HTTPS and token based authenticationIntegrate multiple web services using resiliency patterns and messaging techniquesWho this book is for This book is for anyone who wants to learn how to build RESTful web services with the ASP NET Core framework to improve the scalability and performance of their applications Basic knowledge of C and NET Core will help you make the best use of the code samples included in the book **Rx.NET in Action** Tamir Dresher,2017-04-20 Summary Rx NET in Action teaches developers how to build event driven applications using the Reactive Extensions Rx library Purchase of the print book

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