

# Dependency Injection in .NET

Mark Seemann

FOREWORD BY GLENN BLOCK



MANNING



# Dependency Injection In Net Mark Seemann

**Jason Hales,Almantas  
Karpavicius,Mateus Viegas**



## **Dependency Injection In Net Mark Seemann:**

**Dependency Injection In.Net** Mark Seemann, *Dependency Injection in NET* is a comprehensive guide that introduces DI and provides an in depth look at applying DI practices to NET apps. In it you will also learn to integrate DI together with such technologies as Windows Communication Foundation, ASP.NET MVC, Windows Presentation Foundation and other core NET components. Building on your existing knowledge of C# and the NET platform, this book will be most beneficial for readers who have already built at least a few software solutions of intermediate complexity. Most examples are in plain C# without use of any particular DI framework. Later the book introduces several well known DI frameworks such as StructureMap, Windsor and Spring.NET. For each framework it presents examples of its particular usage as well as examines how the framework relates to the common patterns presented earlier in the book.

[Dependency Injection Principles, Practices, and Patterns](#)  
Mark Seemann, Steven van Deursen, 2019-03-06

Summary: *Dependency Injection Principles, Practices and Patterns* teaches you to use DI to reduce hard coded dependencies between application components. You'll start by learning what DI is and what types of applications will benefit from it. Then you'll work through concrete scenarios using C# and the NET framework to implement DI in your own projects. As you dive into the thoroughly explained examples you'll develop a foundation you can apply to any of the many DI libraries for NET and .NET Core. Purchase of the print book includes a free eBook in PDF, Kindle and ePub formats from Manning Publications.

About the Technology: *Dependency Injection* is a great way to reduce tight coupling between software components. Instead of hard coding dependencies such as specifying a database driver, you make those connections through a third party. Central to application frameworks like ASP.NET Core, DI enables you to better manage changes and other complexity in your software.

About the Book: *Dependency Injection Principles, Practices and Patterns* is a revised and expanded edition of the bestselling classic *Dependency Injection in NET*. It teaches you DI from the ground up, featuring relevant examples, patterns and anti patterns for creating loosely coupled, well structured applications. The well annotated code and diagrams use C# examples to illustrate principles that work flawlessly with modern object oriented languages and DI libraries.

What's Inside: Refactoring existing code into loosely coupled code; DI techniques that work with statically typed OO languages; Integration with common NET frameworks; Updated examples illustrating DI in .NET Core.

About the Reader: For intermediate OO developers.

About the Authors: Mark Seemann is a programmer, software architect and speaker who has been working with software since 1995, including six years with Microsoft. Steven van Deursen is a seasoned NET developer and architect and the author and maintainer of the Simple Injector DI library.

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The Microsoft Extensions DependencyInjection DI Container      **Clean Code with C#** Jason Alls,2023-12-22 Enhance your programming skills through code reviews TDD and BDD implementation and API design to overcome code inefficiency redundancy and other issues arising from bad code Key Features Write code that seamlessly integrates with other systems while maintaining well defined software boundaries Understand how coding principles and standards elevate software quality Learn how to avoid common errors while implementing concurrency or threading Purchase of the print or Kindle book includes a free PDF eBook Book Description Traditionally associated with Windows desktop applications and game development C has expanded into web cloud and mobile development However despite its extensive coding features professionals often encounter issues with efficiency scalability and maintainability due to poor code Clean Code in C guides you in identifying and resolving these problems using coding best practices This book starts by comparing good and bad code to emphasize the importance of coding standards principles and methodologies It then covers code reviews unit testing and test driven development and addresses cross cutting concerns As you advance through the chapters you ll discover programming best practices for objects data structures exception handling and other aspects of writing C computer programs You ll also explore API design and code quality enhancement tools while studying examples of poor coding practices to understand what to avoid By the end of this clean code book you ll have the developed the skills needed to apply industry approved coding practices to write clean readable extendable and maintainable C code What you will learn Master the art of writing evolvable and adaptable code Implement the fail pass refactor methodology using a sample C console application Develop custom C exceptions that provide meaningful information Identify low quality C code in need of refactoring Improve code performance using profiling and refactoring tools Create efficient and bug free code using functional programming techniques Write cross platform code using MAUI Develop cloud deployable microservices for versatile applications Who this book is for This coding book is for proficient C developers team leads senior software engineers and software architects who want to improve the efficiency of their legacy systems A strong understanding of C programming is assumed      *Adaptive Code* Gary McLean Hall,2017-04-18 Write code that can adapt to changes By applying this book s principles you can create code that accommodates new requirements and unforeseen scenarios without significant rewrites Gary McLean Hall describes Agile best practices principles and patterns for designing and writing code that can evolve more quickly and easily with fewer errors because it doesn t impede change Now revised updated and expanded Adaptive Code Second Edition adds indispensable practical insights on Kanban dependency inversion and creating reusable abstractions Drawing on over a decade of Agile consulting and development experience McLean Hall has updated his best seller with deeper coverage of unit testing refactoring pure dependency injection and more Master powerful new ways to Write code that enables and complements Scrum Kanban or any other Agile framework Develop code that can survive major changes in requirements Plan for adaptability by using dependencies layering interfaces and design patterns

Perform unit testing and refactoring in tandem gaining more value from both Use the golden master technique to make legacy code adaptive Build SOLID code with single responsibility open closed and Liskov substitution principles Create smaller interfaces to support more diverse client and architectural needs Leverage dependency injection best practices to improve code adaptability Apply dependency inversion with the Stairway pattern and avoid related anti patterns About You This book is for programmers of all skill levels seeking more practical insight into design patterns SOLID principles unit testing refactoring and related topics Most readers will have programmed in C Java C or similar object oriented languages and will be familiar with core procedural programming techniques **Code like a Pro in C#** Jort Rodenburg,2021-08-24 Build on your existing programming skills and upskill to professional level C programming Summary In Code Like A Pro in C you will learn Unit testing and test driven development Refactor a legacy NET codebase Principles of clean code Essential backend architecture skills Query and manipulate databases with LINQ and Entity Framework Core Critical business applications worldwide are written in the versatile C language and the powerful NET platform running on desktops cloud systems and Windows or Linux servers Code Like a Pro in C makes it easy to turn your existing abilities in C or another OO language such as Java into practical C mastery There s no Hello World or Computer Science 101 basics you ll learn by refactoring an out of date legacy codebase using new techniques tools and best practices to bring it up to modern C standards Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology You know the basics now get ready for the next step Pro quality C code is efficient clean and fast Whether you re building user facing business applications or writing data intensive backend services the experience based practical techniques in this book will take your C skills to a new level About the book Code Like a Pro in C teaches you to how write clean C code that s suitable for enterprise applications In this book you ll refactor a legacy codebase by applying modern C techniques You ll explore tools like Entity Framework Core design techniques like dependency injection and key practices like testing and clean coding It s a perfect path to upgrade your existing C skills or shift from another OO language into C and the NET ecosystem What s inside Unit testing and test driven development Refactor a legacy NET codebase Principles of clean code Query and manipulate databases with LINQ and Entity Framework Core About the reader For developers experienced with object oriented programming No C experience required About the author Jort Rodenburg is a software engineer who has taught numerous courses on getting up to speed with C and NET Table of Contents PART 1 USING C AND NET 1 Introducing C and NET 2 NET and how it compiles PART 2 THE EXISTING CODEBASE 3 How bad is this code 4 Manage your unmanaged resources PART 3 THE DATABASE ACCESS LAYER 5 Setting up a project and database with Entity Framework Core PART 4 THE REPOSITORY LAYER 6 Test driven development and dependency injection 7 Comparing objects 8 Stubbing generics and coupling 9 Extension methods streams and abstract classes PART 5 THE SERVICE LAYER 10 Reflection and mocks 11 Runtime type checking revisited and error handling 12 Using

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**Entity Framework Core in Action, Second Edition** Jon P Smith, 2021-07-13 The most comprehensive reference for EF Core that does or ever will exist Stephen Byrne Intel Corporation Entity Framework Core in Action Second Edition teaches you to write flawless database interactions for NET applications Summary Entity Framework Core in Action Second Edition is an in depth guide to reading and writing databases with EF Core Revised from the bestselling original edition it s filled with over 100 diagrams code snippets and examples including building and scaling your own bookselling web application Learn from author Jon Smith s extensive experience working with EF Core in production as you discover time saving patterns and best practices for security performance tuning and unit testing All of the book s code is available on GitHub Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology Entity Framework radically simplifies data access in NET applications This easy to use object relational mapper ORM lets you write database code in pure C It automatically maps classes to database tables and enables queries with standard LINQ commands It even generates SQL so you don t have to About the book Entity Framework Core in Action Second Edition teaches you to write flawless database interactions for NET applications Following relevant examples from author Jon Smith s extensive experience you ll progress quickly from EF basics to advanced techniques In addition to the latest EF features this book addresses performance security refactoring and unit testing This updated edition also contains new material on NoSQL databases What s inside Configure EF to define every table and column Update your schema as your app grows Integrating EF with existing C application Write and test business logic for database access Applying a Domain Driven Design to EF Core Getting the best performance out of EF Core About the reader For NET developers familiar with relational databases About the author Jon P Smith is a freelance software developer and architect with a special focus on NET and Azure Table of Contents PART 1 1 Introduction to Entity Framework Core 2 Querying the database 3 Changing the database content 4 Using EF Core in business logic 5 Using EF Core in ASP NET Core web applications 6 Tips and techniques for reading and writing with EF Core PART 2 7 Configuring nonrelational properties 8 Configuring relationships 9 Handling database migrations 10 Configuring advanced features and handling concurrency conflicts 11 Going deeper into the DbContext PART 3 12 Using entity events to solve business problems 13 Domain Driven Design and other architectural approaches 14 EF Core performance tuning 15 Master class on performance tuning database queries 16 Cosmos DB CQRS and other database types 17 Unit testing EF Core applications

*Windows Phone 8 in Action* Michael Sync, Massimo Perga, Tim Binkley-Jones, 2013-12-30 Summary Windows Phone 8 in Action is a comprehensive guide to developing apps for the WP8 platform It covers the Windows Phone Runtime and NET APIs used to work with a phone s sensors and hardware including the accelerometer camera gyroscope GPS and microphone You will learn to write code to dial the phone write emails send text messages and recognize speech The book also teaches you to

build applications that use location and push notification About this Book With 10 million and climbing active handsets Windows Phone 8 has become a real alternative to Android and iOS WP users are hungry for great apps so it s time for you to start creating them Windows Phone 8 in Action teaches you how to design build and sell WP8 apps In it you ll learn to use the WP Runtime and NET APIs to control key features like the accelerometer camera GPS and microphone This example driven book also shows you how to write applications that use location and push notification enhanced navigation services and WP8 s deep multimedia capabilities You ll need a working knowledge of C No experience with Windows Phone or XAML is required Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications What s Inside Build your first phone app Master the Windows Phone 8 interface How to sell on the Windows Phone Store Use features like voice recognition and media About the Authors Tim Binkley Jones has worked with XAML since the first releases of WPF and Silverlight Adam Benoit is an independent developer with more than a dozen apps in the Windows Phone Store Massimo Perga is an engineer at Microsoft Michael Sync is a web and WP architect Table of Contents PART 1 INTRODUCING WINDOWS PHONE A new phone a new operating system Creating your first Windows Phone application PART 2 CORE WINDOWS PHONE Fast application switching and resume Scheduled actions Launching tasks and choosers Contacts and calendars Storing data Working with the camera Integrating with the Photos and Music Videos Hubs Using sensors Network communication with push notifications Using the Speech API PART 3 XAML FOR WINDOWS PHONE ApplicationBar and context menus Panorama and pivot controls Building a media player Using Maps Building HTML applications Releasing and monetizing apps [Practical Microsoft Visual Studio 2015](#) Peter Ritchie,2016-11-21 Learn the details of the most highly recommended practices of software development using the latest version of Visual Studio 2015 Recommended practices are grouped by development phase and explained in far more detail than the typical tips and tricks compilations This book also contains detailed coverage of recognized patterns and practices used to create software in a timely manner with expected quality in the context of using specific Visual Studio 2015 features Creating software is part defined process and part empirical process While there is no single best process to employ in all development scenarios MVP author Peter Ritchie helps readers navigate the complexity of development options and decide which techniques and Visual Studio 2015 features to use based on the needs of their particular project Readers will learn practices such as those related to working in teams design and architecture refactoring source code control workflows unit testing performance testing coding practices use of common patterns code analysis IDE extensions and more What You Will Learn Use patterns and practices within Visual Studio Implement practices of software creation Work in teams Develop workflows for software projects Who This Book Is For Beginning and intermediate software developers and architects [MSDN Magazine](#) ,2008 [Code That Fits in Your Head](#) Mark Seemann,2021-11-02 How to Reduce Code Complexity and Develop Software More Sustainably Mark Seemann is well known for explaining complex concepts clearly and thoroughly In this book he condenses

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**Mastering Ninject for Dependency Injection** Daniel Baharestani,2013-09-25 Mastering Ninject for Dependency Injection teaches you the most powerful concepts of Ninject in a simple and easy to understand format using lots of practical examples diagrams and illustrations Mastering Ninject for Dependency Injection is aimed at software developers and architects who wish to create maintainable extensible testable and loosely coupled applications Since Ninject targets the NET platform this book is not suitable for software developers of other platforms Being familiar with design patterns such as singleton or factory would be beneficial but no knowledge of dependency injection or IoC is assumed **Dependency Injection** Dhanji R. Prasanna,2009-09-07 Dependency Injection is an in depth guide to the current best practices for using the Dependency Injection pattern the key concept in Spring and the rapidly growing Google Guice It explores Dependency Injection sometimes called Inversion of Control in fine detail with numerous practical examples Developers will learn to apply important techniques focusing on their strengths and limitations with a particular emphasis on pitfalls corner cases and best practices This book is written for developers and architects who want to understand Dependency Injection and successfully leverage popular DI technologies such as Spring Google Guice PicoContainer and many others The book explores many small examples of anchor concepts and unfolds a larger example to show the big picture Written primarily from

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