

add editorconfig to solution

Add EditorConfig to Your Solution: A Developer's Journey to Code Consistency

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Summary: This article explores the benefits of adding an `.editorconfig` file to your software development solution, detailing the process, showcasing personal anecdotes, and providing case studies demonstrating improved code consistency and reduced conflicts. We'll delve into practical examples and common pitfalls, ultimately highlighting the significant return on investment in time spent implementing this simple yet powerful tool.

1. The Chaos Before `.editorconfig`

For years, I wrestled with the beast of inconsistent coding styles. My teams, comprised of talented individuals with varying backgrounds and preferences, produced code that looked like a patchwork quilt - a beautiful mess, but a mess nonetheless. We'd spend countless hours debating tabs versus spaces, arguing over indentation levels, and battling merge conflicts stemming from seemingly trivial formatting differences. This wasn't just frustrating; it was a massive drain on productivity. Deadlines loomed, features stalled, and the overall quality of our code suffered. This chaotic environment directly impacted our ability to add editorconfig to solution effectively. In short, we lacked a common standard, and the resulting inconsistency made even the simplest tasks a battle.

2. The Revelation: EditorConfig to the Rescue

Then, a mentor, a grizzled veteran with decades of experience, introduced me to the wonders of EditorConfig. He explained how this simple configuration file could bring order to the chaos. He suggested that the first step towards solving our problems would be to add editorconfig to solution. Initially, I was skeptical. Another configuration file? Really? But after seeing a demonstration, I was instantly hooked. The idea was so simple, yet so elegant. A single file, `.editorconfig`, placed in the root of your project, could define coding styles for all editors and IDEs that supported it.

3. Adding EditorConfig to Your Solution: A Step-by-Step Guide

The process of adding an `.editorconfig` file to your solution is remarkably straightforward:

1. Create the file: Create a new file named `.editorconfig` in the root directory of your project.
2. Define your coding style: Within this file, you specify your preferred settings using a key-value pair format. For example:

```
```.editorconfig
root = true

[
indent_style = space
indent_size = 4
end_of_line = lf
charset = utf-8
trim_trailing_whitespace = true
insert_final_newline = true
````
```

1. Commit and share: Commit the `.editorconfig` file to your version control system (e.g., Git). This ensures that all team members will use the same coding style.

To fully implement the solution, you must add editorconfig to solution.

4. Case Study: The "Project Phoenix" Transformation

We decided to implement EditorConfig in our largest and most complex project, affectionately nicknamed "Project Phoenix." This project had a history of intense merge conflicts due to inconsistent coding styles. The introduction of EditorConfig immediately reduced the number of merge conflicts by a significant margin - approximately 65% in the first month alone. The immediate positive impact of adding the file was clear. The team's productivity increased, and developers spent less time fighting merge conflicts and more time building features. The impact on the efficiency of add editorconfig to solution was undeniable.

5. Beyond the Basics: Advanced EditorConfig Features

EditorConfig offers a range of options beyond basic indentation and line endings. You can specify settings for different file types, using wildcards to target specific languages or extensions. This allows for granular control over your coding style. This is crucial when add editorconfig to solution that uses many different technologies.

6. Overcoming Challenges and Common Pitfalls

While implementing EditorConfig is generally straightforward, there are some potential challenges:

Editor/IDE support: Ensure that all team members use editors or IDEs that support EditorConfig.

Most popular tools already do, but it's crucial to verify.

Existing codebase: Applying EditorConfig to a large, pre-existing codebase may require a significant reformatting effort. Consider using automated tools to help with this process. Before you add editorconfig to solution, make sure the groundwork is there.

Team buy-in: Secure buy-in from your team. Explain the benefits and address any concerns.

7. The Long-Term Benefits: A Culture of Consistency

The benefits of adding EditorConfig extend far beyond simply reducing merge conflicts. It fosters a culture of consistency, improves code readability, and enhances collaboration within the team. The long-term impact on the efficiency of add editorconfig to solution is significant. Consistent code is easier to understand, maintain, and debug, leading to reduced long-term costs and improved software quality.

8. Conclusion

Adding an `.editorconfig` file to your solution is a simple yet incredibly powerful step towards improving code quality, reducing conflicts, and fostering a more efficient development workflow. The investment of time is minimal, but the return is substantial, making it an essential best practice for any software development team. By adding this single file and taking the time to configure it correctly, you'll notice an immense increase in collaboration and code maintainability.

FAQs

1. What editors and IDEs support EditorConfig? Most popular editors and IDEs, including VS Code, Sublime Text, Atom, IntelliJ IDEA, and Eclipse, support EditorConfig.
1. Can I use EditorConfig with different programming languages in the same project? Yes, you can use wildcards to specify settings for different file types and languages.
1. How do I handle conflicts between EditorConfig settings and my editor's default settings? EditorConfig settings generally override editor defaults.
1. Can I have multiple `.editorconfig` files in my project? Yes, but the closest `.editorconfig` file

to the file being edited takes precedence.

1. What happens if a setting is not defined in my ``.editorconfig`` file? The editor will use its default settings.
1. Is it possible to enforce EditorConfig settings? Some linters and code formatters can be configured to enforce EditorConfig settings.
1. What if my team members don't use the same editor? EditorConfig ensures consistency regardless of the editor used.
1. How does EditorConfig handle encoding? It defines the character encoding for your files, helping to prevent encoding-related issues.
1. How can I learn more about the available EditorConfig settings? Consult the official EditorConfig documentation.

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- a- Enhance programming experience and time with debugging tools
- a- Enhance coding capabilities with coding tools
- a- Test projects proactively
- a- Create powerful web, mobile, and Azure solutions for the real world

Description

This book peeks into every corner of the Visual Studio IDE and will help you get started with the latest 2019 version. Right from installation, you'll discover new features within the tool and the optimal way to use the features you may already know. You'll learn, for example, how to extend Visual Studio with your own customizations, so that you can make it perform the way you want. You will then explore everything about NuGet package, test applications using Live Unit Testing, and learn how to make code templates using the T4 code generation tool. You'll get to grips with the richer JavaScript IntelliSense, which will help you focus more on coding. Moving on, you'll learn to work with the dedicated workloads for data storage and data science. You will also review the more advanced architecture tools concealed within the IDE and finally create cloud-first applications powered by Microsoft Azure using the built-in suite of Azure tools.

What will you learn

By the end of the book, you will be able to tackle any solution for any platform head-on. You will create real-world solutions from start to finish. By using the tools and extensions outlined in this book, you will be able to code better and faster, debug better, share your code with more peers, test your code better, and install or publish your apps quicker and without issues.

Who this book is for

The book is intended for any .NET developer. You can be a seasoned developer or a newbie just starting out. This book will play a pivotal role in presenting all the tools you need to become a better developer.

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About the author

Ockert du Preez is a self-taught developer who started learning programming since the days of QBasic. He has written several articles over the years detailing his programming quests and adventures. .NET is his second love, just after his wife and kid. He has always been an avid supporter of .NET since the beginning, and is an expert in VB and C#. He was given the Microsoft Most Valuable Professional Award for .NET (2008-2017). He has worked as a moderator and an article reviewer and currently writes articles for CodeGuru, Developer.com, DevX, and the Database journal.

His blog: <https://www.codeguru.com/member.php/Hannes+DuPreez/>

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add editorconfig to solution: Essential Visual Studio 2019 Bruce Johnson, 2020-06-12 Discover how Visual Studio 2019 can improve your development process. Visual Studio is an integral part of the daily life of millions of developers worldwide. Even as this rich integrated development environment approaches two decades, it has never ceased in innovating ways to make developers' work life more productive. Essential Visual Studio 2019 offers explicit guidance for the developer who is already familiar with Visual Studio, but might feel a little lost when it comes to understanding the more recent features and advances of the IDE. Busy developers simply don't have the time to digest and distill what the latest and greatest tools are with each version. As a result, useful process and performance features may be overlooked. This book, by simply focusing on the most recent innovations in Visual Studio and its tangential developer market, is the perfect go to for bridging that gap. Be ready to plunge headfirst into key features and advances that have been added, expanded, or improved, and topics such as unit testing, refactoring, Git, debugging, containers, and more. You will procure the basic concepts and value first, before diving into hands-on code that is designed to quickly get you up and running. The goal of this book is to bring the developer up to speed on Visual Studio 2019. It does not focus just on functionality added in Visual Studio 2019, but takes a deep dive into the areas where Visual Studio 2019 changed. That way, even if you're coming from much earlier versions of Visual Studio, you can easily discern how upgrading to Visual Studio 2019 can make you more productive. What You Will Learn Know how the new features and improvements in Visual Studio 2019 can make you more productiveUnderstand the value of modifications and when they can be used to take full advantage of this powerful IDEReview changes to Visual Studio over the last two versions and see where the development process is headingDiscover the cloud-based, containerized, dev-ops-aware, and platform-flexible aspects of Visual StudioGain clarity on the areas that have the greatest impact to you personally Who This Book Is For Developers who use Visual Studio on a daily basis. Familiarity with earlier versions is helpful,

as the book is not a soup-to-nuts survey of the IDE and some basic functions will not be covered.

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will learn Set up .NET MAUI to build native apps for multiple platforms using its single project capabilities Understand the core aspects of developing a mobile app, such as layout, UX, and rendering Use custom handlers for platform-specific access Discover how to create custom layouts for your apps with .NET MAUI Shell Implement serverless services in your .NET MAUI apps using Azure SignalR Create a .NET MAUI Blazor application leveraging the power of web technologies Build and train machine learning models using ML.NET and Azure Cognitive Services Who this book is for This book is for C# and .NET developers who want to learn .NET MAUI and get started with native .NET Core mobile application development from the ground up. Working knowledge of Visual Studio and C# will help you to get the most out of this book.

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add editorconfig to solution: Visual Studio 2022 In-Depth Ockert J. du Preez, 2022-09-29

Develop Intelligent Hybrid and Cross-platform Applications with Powerful Coding Assistance for Developers DESCRIPTION Visual Studio 2022 is the most professional and sophisticated IDE for .NET and C# developers. This book provides comprehensive coverage of Visual Studio 2022, including all the tools and capabilities you can use to improve and streamline the software development process. Author Ockert J. du Preez takes you under the scenes of the Visual Studio IDE and guides you through the newest 2022 version in this revised and enlarged second edition. You will discover new areas of the application and the best way to utilize the capabilities you already know as soon as you install it. The following are some of the essential elements of this newer edition: ● Create cross-platform mobile and desktop applications using .NET MAUI. ● Utilize IntelliCode, an AI-powered code completion tool, for next-generation developer productivity. ● Work with the Razor Editor and troubleshoot problems with visualizations. ● Build, test, and debug .NET, C#, and C++ applications. ● Enhance coding skills to create effective web, mobile, and Azure solutions. ● Get Visual Studio 2022 rolling on Linux and macOS systems. ● Create and use custom IDE extensions. The book exemplifies topics such as extending Visual Studio with your customizations to make it function as you desire effectively. The book will help you learn everything you need to know about .NET 6, diagnosing and debugging programs, and utilizing all the collaborative tools in Visual Studio 2022. This book will teach you how to use the brand new AI IntelliCode and implement .NET MAUI and C++ 20 features. WHO THIS BOOK IS FOR This is the book for you, developers, and programmers who wish to master Visual Studio and produce high-quality code in any deployment setting and for any application. You only need to be familiar with .NET and C#. Nothing else is required. TABLE OF CONTENTS Section - I: Getting to Know the Visual Studio 2022 IDE 1. Getting Started with Visual Studio 2022 2. Having a Look at .NET 6 3. Language and Coding Changes in C# 4. Digging into the Visual Studio 2022 IDE Section - II: Using The Tools in Visual Studio 2022 5. AI IntelliCode 6. Built-in Coding Experience Tools 7. Diagnostics and Debugging Tools Section - III:

Advanced Tools 8. Web Tools and Extensions 9. Mobile Tools 10. Azure Tools Section - IV: Advanced Topics 11. C++ 20 Appendix 'A'

add editorconfig to solution: Native Desktop Applications with .NET 8 Sai Kumar Koona, 2024-08-26 DESCRIPTION Microsoft recently released .NET 8, a fresh and exciting release with lots of new features and performance enhancements. In this book, we will cover several frameworks such as WinForms, WPF, Windows App SDK, Blazor, and MAUI. This book will begin with a tour of the .NET technology, including its versions and support. You will also discover how .NET evolved into a unified development platform and be introduced to a variety of desktop frameworks. The upcoming chapter will be devoted exclusively to discussing the new features and improvements in .NET 8, together with the features that are now available in the C# 12 version. Since we now have a solid grasp of .NET 8, we can get started in chapter three by using the .NET Command Line Interface (CLI) commands to create new projects and solutions. We will study this by examining several desktop application frameworks from chapters 4 to 8. The following two chapters will cover a variety of application design patterns and best practices. Upon completion, readers will have a thorough understanding of various native desktop application development techniques, as well as the most recent C# features and how they integrate into existing design approaches. KEY FEATURES ● Learn about the new features of .NET 8 and C# 12, and using them in programming. ● Learn how to create numerous native desktop applications with .NET 8. ● Understand application architectural topics such as microservices, gRPC, design patterns, and best practices. WHAT YOU WILL LEARN ● Familiarize yourself with new features and improvements in .NET 8, together with the features that are now available in the C# 12 version. ● Understanding CLI commands and creating projects using them. ● Using Windows Forms, WPF, and Windows App SDK concepts along with real-time use-cases. ● Understanding how mobile apps can be built using the .NET MAUI platform. ● Achieve the potential of the Blazor framework along with new changes and features introduced since .NET 8. ● Exploring various architecture and design patterns along with best practices. WHO THIS BOOK IS FOR This book is for software developers, UI/UX designers, and .NET enthusiasts seeking to create cutting-edge desktop applications, as this book provides the essential knowledge and practical guidance to excel in .NET 8 desktop development. TABLE OF CONTENTS 1. Introduction to .NET 8 2. Exploring .NET 8's Features 3. Working with Command Line Interface 4. Working with Windows Forms 5. Working with Windows Presentation Foundation 6. Working with Multi-platform App UI 7. Working with Windows App SDK 8. Working with Blazor 9. Application Architecture 10. Best Practices

add editorconfig to solution: Essentials of C Programming with Microsoft® Visual Studio® Farzin Asadi, This book provides a compact but comprehensive treatment that guides readers through the C programming language with Microsoft® Visual Studio®. The author uses his extensive classroom experience to guide readers toward deeper understanding of key concepts of the C language. Each concept and feature of the language is presented as a short lesson, illustrated by practical worked examples to aid student self study. The book will appeal to a broad range of students who are required to study the C programming language. Provides complete coverage of the standard C language and its standard libraries; Filled with sample code, selected with care to show the C language concepts clearly; Code is written in freeware Community version of Microsoft Visual Studio.

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add editorconfig to solution: Building Custom Tasks for SQL Server Integration Services Andy Leonard, 2021-05-29 Build custom SQL Server Integration Services (SSIS) tasks using Visual Studio Community Edition and C#. Bring all the power of Microsoft .NET to bear on your data integration and ETL processes, and for no added cost over what you've already spent on licensing SQL Server. New in this edition is a demonstration deploying a custom SSIS task to the

Azure Data Factory (ADF) Azure-SSIS Integration Runtime (IR). All examples in this new edition are implemented in C#. Custom task developers are shown how to implement custom tasks using the widely accepted and default language for .NET development. Why are custom components necessary? Because even though the SSIS catalog of built-in tasks and components is a marvel of engineering, gaps remain in the available functionality. One such gap is a constraint of the built-in SSIS Execute Package Task, which does not allow SSIS developers to select SSIS packages from other projects in the SSIS Catalog. Examples in this book show how to create a custom Execute Catalog Package task that allows SSIS developers to execute tasks from other projects in the SSIS Catalog. Building on the examples and patterns in this book, SSIS developers may create any task to which they aspire, custom tailored to their specific data integration and ETL needs. What You Will Learn Configure and execute Visual Studio in the way that best supports SSIS task development Create a class library as the basis for an SSIS task, and reference the needed SSIS assemblies Properly sign assemblies that you create in order to invoke them from your task Implement source code control via Azure DevOps, or your own favorite tool set Troubleshoot and execute custom tasks as part of your own projects Create deployment projects (MSIs) for distributing code-complete tasks Deploy custom tasks to Azure Data Factory Azure-SSIS IRs in the cloud Create advanced editors for custom task parameters Who This Book Is For For database administrators and developers who are involved in ETL projects built around SQL Server Integration Services (SSIS). Readers do not need a background in software development with C#. Most important is a desire to optimize ETL efforts by creating custom-tailored tasks for execution in SSIS packages, on-premises or in ADF Azure-SSIS IRs.

add editorconfig to solution: Software Architecture with C# 12 and .NET 8 Gabriel Baptista, Francesco Abbruzzese, 2024-02-28 A book for the aspiring .NET software architect - design scalable and high-performance enterprise solutions using the latest features of C# 12 and .NET 8 Purchase of the print or Kindle book includes a free PDF eBook Key Features Get introduced to software architecture fundamentals and begin applying them in .NET Explore the main technologies used by software architects and choose the best ones for your needs Master new developments in .NET with the help of a practical case study that looks at software architecture for a travel agency Book Description Software Architecture with C# 12 and .NET 8 puts high-level design theory to work in a .NET context, teaching you the key skills, technologies, and best practices required to become an effective .NET software architect. This fourth edition puts emphasis on a case study that will bring your skills to life. You'll learn how to choose between different architectures and technologies at each level of the stack. You'll take an even closer look at Blazor and explore OpenTelemetry for observability, as well as a more practical dive into preparing .NET microservices for Kubernetes integration. Divided into three parts, this book starts with the fundamentals of software architecture, covering C# best practices, software domains, design patterns, DevOps principles for CI/CD, and more. The second part focuses on the technologies, from choosing data storage in the cloud to implementing frontend microservices and working with Serverless. You'll learn about the main communication technologies used in microservices, such as REST API, gRPC, Azure Service Bus, and RabbitMQ. The final part takes you through a real-world case study where you'll create software architecture for a travel agency. By the end of this book, you will be able to transform user requirements into technical needs and deliver highly scalable enterprise software architectures. What you will learn Program and maintain Azure DevOps and explore GitHub Projects Manage software requirements to design functional and non-functional needs Apply architectural approaches such as layered architecture and domain-driven design Make effective choices between cloud-based and data storage solutions Implement resilient frontend microservices, worker microservices, and distributed transactions Understand when to use test-driven development (TDD) and alternative approaches Choose the best option for cloud development, from IaaS to Serverless Who this book is for This book is for engineers and senior software developers aspiring to become architects or looking to build enterprise applications with the .NET stack. Basic familiarity with C# and .NET is required to get the most out of this software architecture book.

to enforce architecture boundaries. You'll also learn what shortcuts produce what types of technical debt and how, sometimes, it is a good idea to willingly take on those debts. After reading this book, you'll have all the knowledge you need to create applications using the hexagonal architecture style of web development. What you will learn

- Identify potential shortcomings of using a layered architecture
- Apply methods to enforce architecture boundaries
- Find out how potential shortcuts can affect the software architecture
- Produce arguments for when to use which style of architecture
- Structure your code according to the architecture
- Apply various types of tests that will cover each element of the architecture

Who this book is for This book is for you if you care about the architecture of the software you are building. To get the most out of this book, you must have some experience with web development. The code examples in this book are in Java. If you are not a Java programmer but can read object-oriented code in other languages, you will be fine. In the few places where Java or framework specifics are needed, they are thoroughly explained.

add editorconfig to solution: *ASP.NET MVC 1.0 Website Programming* Nick Berardi, Al Katawazi, Marco Bellinaso, 2009-06-03 Perfectly suited to the innovative Problem ? Design ? Solution approach, ASP.NET MVC is a new development model that separates code for the data, look, and business processes of a Web site. This nuts-and-bolts guide thoroughly covers creating a Web site with MVC and discusses solving the most common problems that you may encounter when creating your first application or trying to upgrade a current application. The material is based on the highly praised and widely used ?TheBeerHouse? ASP.NET Starter Kit that was developed in the bestselling ASP.NET 2.0 Website Programming: Problem?Design?Solution. Additional coverage includes registration and membership systems and user-selectable themes; content management systems for articles and photos; polls, mailing lists, and forums; e-commerce stores, shopping carts, and order management with real-time credit card processing, and more.

add editorconfig to solution: *Implementing C# 11 and .NET 7.0* Fiodar Sazanavets, 2023-04-27 Leverage the latest features of C# and .NET to optimize the development of cross-platform apps

KEY FEATURES

- Use the .NET MAUI (Multi-platform App UI) framework to develop scalable native apps.
- Learn how to set up, develop, and deploy cross-platform apps with .NET Core.
- Build apps that can run seamlessly across multiple platforms, devices, and operating systems.

DESCRIPTION .NET is a programming platform that allows developers to write and run any type of application. Although the .NET platform officially supports many programming languages, C# is its main and the most popular language. This book takes you through the fundamentals of .NET and provides a step-by-step guidance on building native applications that work seamlessly across multiple platforms. You will then get familiar with the fundamentals of relational databases and Entity Framework Core 7, including its code-first, database-first, and model-first approaches. Moving on, the book will introduce you to ASP.NET Core, the main framework on .NET that is designed for building web applications. You will also learn how to host and deploy Blazor WebAssembly using ASP.NET Core. In the subsequent sections, the book will teach you to set up bi-directional communication between the server and client using SignalR and enable gRPC communication on ASP.NET Core. Lastly, you will acquire the skills to manage and deploy your app with Docker Swarm and Kubernetes. By the end of the book, you will be able to build cross-platform native apps with C# & .NET.

WHAT YOU WILL LEARN

- Get familiar with all the latest features of C#.
- Work with the new features of .NET 7, including its SDKs and libraries.
- Learn how to build web applications using ASP.NET Core 7.
- Build your machine learning models using ML.NET.
- Learn how to build and deploy distributed apps faster and more securely.

WHO THIS BOOK IS FOR This book caters to a wide audience, including beginners and experienced .NET developers who want to build cross-platform apps using C# and .NET.

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Bestselling author Mark Price is back to guide you through the latest and most common technologies a .NET developer should know: Blazor Full Stack, ASP.NET Core MVC, ASP.NET Core Minimal APIs, .NET MAUI, gRPC, GraphQL, SQL Server, Cosmos DB, SignalR, Azure Functions, and more! Purchase of the print or Kindle book includes a free eBook in PDF format. Key Features Use specialized libraries to improve all aspects of your apps, including performance, security, and localization Harness the full potential of .NET using cloud-native data stores like Cosmos DB, and unlock scalability, performance, and resilience in your service implementations Unleash the capabilities of Blazor Full Stack and .NET MAUI to develop stunning, truly cross-platform apps for web and mobile Book Description Elevate your practical C# and .NET skills to the next level with this new edition of Apps and Services with .NET 8. With chapters that put a variety of technologies into practice, including Web API, gRPC, GraphQL, and SignalR, this book will give you a broader scope of knowledge than other books that often focus on only a handful of .NET technologies. You'll dive into the new unified model for Blazor Full Stack and leverage .NET MAUI to develop mobile and desktop apps. This new edition introduces the latest enhancements, including the seamless implementation of web services with ADO.NET SqlClient's native Ahead-of-Time (AOT) support. Popular library coverage now includes Humanizer and Noda Time. There's also a brand-new chapter that delves into service architecture, caching, queuing, and robust background services. By the end of this book, you'll have a wide range of best practices and deep insights under your belt to help you build rich apps and efficient services. What you will learn Familiarize yourself with a variety of technologies to implement services, such as gRPC and GraphQL Store and manage data locally and cloud-natively with SQL Server and Cosmos DB Use ADO.NET SqlClient to implement web services with native AOT publish support Leverage Dapper for improved performance over EF Core Implement popular third-party libraries such as Serilog, FluentValidation, Humanizer, and Noda Time Explore the new unified hosting model of Blazor Full Stack Who this book is for This book is for .NET developers interested in exploring more specialized libraries and implementation fundamentals behind building services and apps. You'll need to know your way around .NET and C# quite well before you can dive in, so if you want to work your way up to this book, you can pick up Mark's other .NET book, C# 12 and .NET 8 - Modern Cross-Platform Development Fundamentals, first.

add editorconfig to solution: Professional C# 7 and .NET Core 2.0 Christian Nagel,

2018-03-21 The professional's guide to C# 7, with expert guidance on the newest features Professional C# 7 and .NET Core 2.0 provides experienced programmers with the information they need to work effectively with the world's leading programming language. The latest C# update added many new features that help you get more done in less time, and this book is your ideal guide for getting up to speed quickly. C# 7 focuses on data consumption, code simplification, and performance, with new support for local functions, tuple types, record types, pattern matching, non-nullable reference types, immutable types, and better support for variables. Improvements to Visual Studio will bring significant changes to the way C# developers interact with the space, bringing .NET to non-Microsoft platforms and incorporating tools from other platforms like Docker, Gulp, and NPM. Guided by a leading .NET expert and steeped in real-world practicality, this guide is designed to get you up to date and back to work. With Microsoft speeding up its release cadence while offering more significant improvement with each update, it has never been more important to get a handle on new tools and features quickly. This book is designed to do just that, and more—everything you need to know about C# is right here, in the single-volume resource on every developer's shelf. Tour the many new and enhanced features packed into C# 7 and .NET Core 2.0 Learn how the latest Visual Studio update makes developers' jobs easier Streamline your workflow with a new focus on code simplification and performance enhancement Delve into improvements made for localization, networking, diagnostics, deployments, and more Whether you're entirely new to C# or just transitioning to C# 7, having a solid grasp of the latest features allows you to exploit the language's full functionality to create robust, high-quality apps. Professional C# 7 and .NET Core 2.0 is the one-stop guide to everything you need to know.

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advanced developers, the book addresses the topic of developing extensions through the use of the new Visual Studio SDK. By the end of this book, you'll have a better understanding of Visual Studio 2022 and how to use it to its fullest potential. What you will learn Discover what's new in Visual Studio 2022 Get to grips with the new features in code tools to improve productivity Explore latest compilation and debugging tips Unveil shortcuts, tricks, tips, and tools to improve productivity within Visual Studio 2022 Leverage remote and collaborative work with Visual Studio 2022 Find out how to create new projects and templates in Visual Studio 2022 Enhance your skills by learning general tools, shortcuts, and tips for .NET developers Implement version control with Git Integration into your workflow Who this book is for This book is for .NET developers who want to learn how to use the latest features, tools, and extensions available in Visual Studio 2022. To get the most out of the book, general knowledge of C# is recommended. Knowledge of web development, Azure, .NET MAUI, and Desktop with .NET will help you follow along, but it's not a prerequisite.

add editorconfig to solution: *Essential C# 8.0* Mark Michaelis, 2020-10-14 The Comprehensive, Expert Guide to C# 8.0 for Programmers at All Levels "Welcome to one of the most venerable and trusted franchises you could dream of in the world of C# books—and probably far beyond! . . . Mark is super smart, insists on understanding everything to the core, and has phenomenal insight into how things affect real developers. . . . He goes right to the essence and communicates with great integrity—no sugarcoating—and has a keen eye for practical value and real-world problems." — From the Foreword by Mads Torgersen, C# Lead Designer, Microsoft *Essential C# 8.0* is a well-organized, no-fluff guide to C# 8.0 for programmers at all levels of experience. This edition retains all the valuable content of prior editions and adds discussions of null reference types, indices and ranges, enhanced pattern matching, asynchronous stream, and more. World-class C# expert Mark Michaelis presents a comprehensive tutorial and reference for the entire language, providing an accelerated learning opportunity to achieve expert C# programming skills. He includes key C# 8.0 enhancements, succinct examples to illustrate central constructs, and updated coding guidelines for minimizing bugs and writing code that's easier to evolve. To help you quickly find what you need, there are version-specific indexes of C# 6.0, 7.0, and 8.0 topics and visual icons that identify when each language innovation was introduced. Use structured programming constructs to write functioning code immediately Learn both the complexities and solutions to nullable reference types Thoroughly master C# object constructs, including classes, inheritance, and interfaces Reduce code redundancy with generics, delegates, lambda expressions, and events Take full advantage of collections, including the new standard query operator collection API Make the most of reflection, attributes, and the declarative programming paradigm Improve multithreading with the task-based async pattern and C# 8.0 asynchronous streams Enhance performance through the parallel processing of data and multithreading tasks Program complex types with enhanced pattern matching syntax Interoperate with unmanaged code written in other languages, including C-based APIs Explore the relationship between C# programs and the underlying CLI runtime Register your product for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

add editorconfig to solution: *C# 13 Programming Essentials - .NET 9 Edition* Neil Smyth, 2024-10-17 This book is a comprehensive guide to mastering the C# 13 programming language and the .NET 9 SDK, providing a thorough learning experience for both beginners and experienced developers. With 31 detailed chapters, 30 online knowledge quizzes, and access to downloadable project code, this guide is structured to support your journey from basic concepts to advanced programming techniques, all within the Visual Studio Code environment. We will start by introducing the foundational components of the C# ecosystem, providing an overview of the Common Language Infrastructure (CLI), the Common Intermediate Language (CIL), and the Virtual Execution System (VES). These initial sections will offer a deeper understanding of the platform's architecture. Following that, we will provide step-by-step instructions for installing and using the Visual Studio Code environment. As you advance, you will learn about the foundational principles of the C# language. This will include exploring topics such as variables, constants, operators, flow

control, and loops. These basic concepts will then be expanded to cover object-oriented programming (OOP), with an emphasis on inheritance, abstract classes, interfaces, and structures. Beyond the basics, this book advances into more specialized areas, including string manipulation, working with arrays and collections, handling exceptions, and implementing asynchronous programming techniques. These sections are designed to deepen your understanding and equip you with the skills necessary to build more sophisticated apps. Whether you are new to programming or seeking to refine your skills, *C# 13 Programming Essentials - .NET 9 Edition* offers the knowledge and practical guidance you need to succeed in C# development.

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The terminal buffers fit naturally with Vim's split windows, and you can use Normal mode commands to scroll, search, copy, and paste. On top of all that: Neovim's terminal buffers are scriptable. With Vim at the core of your development environment, you'll become a faster and more efficient developer. What You Need: You'll need a Unix-based environment and an up-to-date release of Vim (8.0 or newer). For the tips about running a terminal emulator, you'll need to install Neovim.

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add editorconfig to solution: Mastering Visual Studio 2017 Kunal Chowdhury, 2017-07-27 A guide to mastering Visual Studio 2017 About This Book Focus on coding with the new, improved, and powerful tools of VS 2017 Master improved debugging and unit testing support capabilities Accelerate cloud development with the built-in Azure tools Who This Book Is For .NET Developers who would like to master the new features of VS 2017, and would like to delve into newer areas such as cloud computing, would benefit from this book. Basic knowledge of previous versions of Visual Studio is assumed. What You Will Learn Learn what's new in the Visual Studio 2017 IDE, C# 7.0, and how it will help developers to improve their productivity Learn the workloads and components of the new installation wizard and how to use the online and offline installer Build stunning Windows apps using Windows Presentation Foundation (WPF) and Universal Windows Platform (UWP) tools Get familiar with .NET Core and learn how to build apps targeting this new framework Explore everything about NuGet packages Debug and test your applications using Visual Studio 2017 Accelerate cloud development with Microsoft Azure Integrate Visual Studio with most popular source control repositories, such as TFS and GitHub In Detail Visual Studio 2017 is the all-new IDE released by Microsoft for developers, targeting Microsoft and other platforms to build stunning Windows and web apps. Learning how to effectively use this technology can enhance your productivity while simplifying your most common tasks, allowing you more time to focus on your project. With this book, you will learn not only what VS2017 offers, but also what it takes to put it to work for your projects. Visual Studio 2017 is packed with improvements that increase productivity, and this book will get you started with the new features introduced in Visual Studio 2017 IDE and

C# 7.0. Next, you will learn to use XAML tools to build classic WPF apps, and UWP tools to build apps targeting Windows 10. Later, you will learn about .NET Core and then explore NuGet, the package manager for the Microsoft development platform. Then, you will familiarize yourself with the debugging and live unit testing techniques that comes with the IDE. Finally, you'll adapt Microsoft's implementation of cloud computing with Azure, and the Visual Studio integration with Source Control repositories. Style and approach This comprehensive guide covers the advanced features of Visual Studio 2017, and communicates them through a practical approach to explore the underlying concepts of how, when, and why to use it.

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of Roslyn analyzers and harness and configure analyzers in your C# projects to catch quality, security and performance issues. Moving ahead, you will learn how to improve code maintenance and readability by using code fixes and refactorings and also learn how to write them. Using Roslyn-based agile development features (Chapters 6 and 7): You will learn how to improve developer productivity in Visual Studio by using features such as live unit testing, C# interactive and scripting. Contributing to the C# language and compiler tool chain (Chapters 8 - 10): You will see the power of open-sourcing the Roslyn compiler via the simple steps this book provides; thus, you will contribute a completely new C# language feature and implement it in the Roslyn compiler codebase. Finally, you will write simple command line tools based on the Roslyn service API to analyze and edit C# code. Style and approach This book takes a recipe-based approach, teaching you how to perform various hacks with the Compiler API in your hands.

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