

1. Record Nr.	UNINA9910815288003321
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Titolo	Professional C# and .Net // Christian Nagel
Pubbl/distr/stampa	Hoboken, New Jersey : , : John Wiley & Sons, , [2022] ©2022
ISBN	1-119-79721-7 1-119-79722-5
Edizione	[2021th ed.]
Descrizione fisica	1 online resource (1011 pages)
Disciplina	001.642
Soggetti	Web sites - Design C (Computer program language) Web servers
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Introduction xxxix Part I: The C# Language Chapter 1: .Net Applications And Tools 3 Chapter 2: Core C# 24 Chapter 3: Classes, Records, Structs, And Tuples 59 Chapter 4: Object-Oriented Programming In C# 95 Chapter 5: Operators And Casts 119 Chapter 6: Arrays 153 Chapter 7: Delegates, Lambdas, And Events 177 Chapter 8: Collections 193 Chapter 9: Language Integrated Query 226 Chapter 10: Errors And Exceptions 263 Chapter 11: Tasks And Asynchronous Programming 288 Chapter 12: Reflection, Metadata, And Source Generators 307 Chapter 13: Managed And Unmanaged Memory 335 Part II: Libraries Chapter 14: Libraries, Assemblies, Packages, And Nuget 377 Chapter 15: Dependency Injection And Configuration 392 Chapter 16: Diagnostics And Metrics 419 Chapter 17: Parallel Programming 440 Chapter 18: Files And Streams 485 Chapter 19: Networking 52 Chapter 20: Security 558 Chapter 21: Entity Framework Core 582 Chapter 22: Localization 644 Chapter 23: Tests 668 Part III: Web Applications And Services Chapter 24: Asp.Net Core 687 Chapter 25: Services 714 Chapter 26: Razor Pages And Mvc 752 Chapter 27: Blazor 779 Chapter 28: Signalr 801 Part IV: Apps Chapter 29: Windows Apps 819 Chapter 30: Patterns With Xaml Apps 876 Chapter 31: Styling Windows Apps 899 Index 933.

Get the latest coverage of the newest features in C#9 and .NET 5 In Professional C# and .NET: 2021 Edition, Microsoft MVP for Visual Studio and Development Technologies and veteran developer, Christian Nagel, delivers a comprehensive tour of the new features and capabilities of C#9 and .NET 5. Experienced programmers making the transition to C# will benefit from the author's in-depth explorations to create Web- and Windows applications using ASP.NET Core, Blazor, and WinUI using modern application patterns and new features offered by .NET including Microservices deployed to Docker images, GRPC, localization, asynchronous streaming, and much more. The book also offers:

- Discussions of the extension of .NET to non-Microsoft platforms like OSX and Linux
- Explanations of the newest features in C#9, including support for record types, and enhanced support for tuples, pattern matching, and nullable reference types
- Integrating .NET applications with Microsoft Azure services such as Azure App Configuration, Azure Key Vault, Azure Functions, the Azure Active Directory, and others
- Downloadable code examples from [wrox.com](https://wrox.com) and [github.com](https://github.com) with online updates for C# 10 and .NET 6

Perfect for programmers with a background in C#, Visual Basic, Java, or C/C++, Professional C# and .NET: 2021 Edition will also earn a place in the libraries of software architects seeking an up-to-date and fulsome treatment of the latest C# and .NET releases.

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