

# CSharp

Daniel Solis, Cal Schrotenboer

## Fundamentals of Computer Programming with C# Svetlin

Nakov, Veselin Kolev, 2013-09-01 The free book Fundamentals of Computer Programming with C# is a comprehensive computer programming tutorial that teaches programming, logical thinking, data structures and algorithms, problem solving and high quality code with lots of examples in C#. It starts with the first steps in programming and software development like variables, data types, conditional statements, loops and arrays and continues with other basic topics like methods, numeral systems, strings and string processing, exceptions, classes and objects. After the basics this fundamental programming book enters into more advanced programming topics like recursion, data structures (lists, trees, hash-tables and graphs), high-quality code, unit testing and refactoring, object-oriented principles (inheritance, abstraction, encapsulation and polymorphism) and their implementation the C# language. It also covers fundamental topics that each good developer should know like algorithm design, complexity of algorithms and problem solving. The book uses C# language and Visual Studio to illustrate the programming concepts and explains some C# / .NET specific technologies like lambda expressions, extension methods and LINQ. The book is written by a team of developers lead by Svetlin Nakov who has 20+ years practical software development experience. It teaches the major programming concepts and way of thinking needed to become a good software engineer and the C# language in the meantime. It is a great start for anyone who wants to become a skillful software engineer. The book does not teach technologies like databases, mobile and web development, but shows the true way to master the basics of programming regardless of the languages, technologies and tools. It is

good for beginners and intermediate developers who want to put a solid base for a successful career in the software engineering industry. The book is accompanied by free video lessons, presentation slides and mind maps, as well as hundreds of exercises and live examples.

Download the free C# programming book, videos, presentations and other resources from <http://introprogramming.info>. Title:

Fundamentals of Computer Programming with C# (The Bulgarian C# Programming Book) ISBN: 9789544007737 ISBN-13: 978-954-400-773-7 (9789544007737) ISBN-10: 954-400-773-3 (9544007733) Author: Svetlin Nakov & Co. Pages: 1132 Language: English Published: Sofia, 2013 Publisher: Faber Publishing, Bulgaria Web site:

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high-quality code, high-quality classes, high-quality methods, code formatting, self-documenting code, code refactoring, problem solving, problem solving methodology, 9789544007737, 9544007733

The C# Programming Yellow Book Rob Miles,2018-10-19 Learn C# from first principles the Rob Miles way. With jokes, puns, and a rigorous problem solving based approach. You can download all the code samples used in the book from here: [http:](http://www.robmiles.com/s/Yellow-Book-Code-Samples-64.z)

[//www.robmiles.com/s/Yellow-Book-Code-Samples-64.z](http://www.robmiles.com/s/Yellow-Book-Code-Samples-64.z)

Programming C# 8.0 Ian Griffiths,2019-11-26 C# is undeniably one of the most versatile programming languages available to engineers today. With this comprehensive guide, you'll learn just how powerful the combination of C# and .NET can be. Author Ian Griffiths guides you through C# 8.0 fundamentals and techniques for building cloud, web, and desktop applications. Designed for experienced programmers, this book provides many code examples to help you work with the nuts and bolts of C#, such as generics, LINQ, and asynchronous programming features. You'll get up to speed on .NET Core and the latest C# 8.0 additions, including asynchronous streams, nullable references, pattern matching, default interface implementation, ranges and new indexing syntax, and changes in the .NET tool chain. Discover how C# supports fundamental coding features, such as classes, other custom types, collections, and error handling Learn how to write high-performance memory-efficient code with .NET Core's Span and Memory types Query and process diverse data sources, such as in-memory object models, databases, data streams, and XML documents with LINQ Use .NET's multithreading features to exploit your computer's parallel processing capabilities Learn how asynchronous language features can help improve application responsiveness and scalability

## C# 10 and .NET 6 – Modern Cross-Platform Development Mark J.

Price, 2021-11-09 Publisher's Note: Microsoft will stop supporting .NET 6 from November 2024. The newer 8th edition of the book is available that covers .NET 8 (end-of-life November 2026) with C# 12 and EF Core 8. Purchase of the print or Kindle book includes a free PDF eBook

**Key Features** Explore the newest additions to C# 10, the .NET 6 class library, and Entity Framework Core 6

**Create professional websites and services with ASP.NET Core 6 and Blazor** Build cross-platform apps for Windows, macOS, Linux, iOS, and Android

**Book Description** Extensively revised to accommodate all the latest features that come with C# 10 and .NET 6, this latest edition of our comprehensive guide will get you coding in C# with confidence. You'll learn object-oriented programming, writing, testing, and debugging functions, implementing interfaces, and inheriting classes. The book covers the .NET APIs for performing tasks like managing and querying data, monitoring and improving performance, and working with the filesystem, async streams, and serialization. You'll build and deploy cross-platform apps, such as websites and services using ASP.NET Core. Instead of distracting you with unnecessary application code, the first twelve chapters will teach you about C# language constructs and many of the .NET libraries through simple console applications. In later chapters, having mastered the basics, you'll then build practical applications and services using ASP.NET Core, the Model-View-Controller (MVC) pattern, and Blazor. What you will learn

**Build rich web experiences using Blazor, Razor Pages, the Model-View-Controller (MVC) pattern, and other features of ASP.NET Core**

**Build your own types with object-oriented programming**

**Write, test, and debug functions**

**Query and manipulate data using LINQ**

**Integrate and update databases in your apps using**

Entity Framework Core, Microsoft SQL Server, and SQLite Build and consume powerful services using the latest technologies, including gRPC and GraphQL Build cross-platform apps using XAML Who this book is for Designed for both beginners and C# and .NET programmers who have worked with C# in the past and want to catch up with the changes made in the past few years, this book doesn't need you to have any C# or .NET experience. However, you should have a general understanding of programming before you jump in.

**Head First C#** Andrew Stellman, Jennifer Greene, 2020-12-04

What will you learn from this book? Dive into C# and create apps, user interfaces, games, and more using this fun and highly visual introduction to C#, .NET Core, and Visual Studio. With this completely updated guide, which covers C# 8.0 and Visual Studio 2019, beginning programmers like you will build a fully functional game in the opening chapter. Then you'll learn how to use classes and object-oriented programming, create 3D games in Unity, and query data with LINQ. And you'll do it all by solving puzzles, doing hands-on exercises, and building real-world applications. By the time you're done, you'll be a solid C# programmer--and you'll have a great time along the way! What's so special about this book? Based on the latest research in cognitive science and learning theory, *Head First C#* uses a visually rich format to engage your mind rather than a text-heavy approach that puts you to sleep. Why waste your time struggling with new concepts? This multisensory learning experience is designed for the way your brain really works.

*C# in Depth* Jonathan Skeet, 2019-03-07 Effective techniques and experienced insights to maximize your C# 6 and 7 programming skills Key Features Written by C# legend and top StackOverflow contributor Jon Skeet Unlock the new features of C# 6 and 7 Insights

on the future of the C# language Master asynchronous functions, interpolated strings, tuples, and more Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. "An excellent overview of C# with helpful and realistic examples that make learning the newest features of C# easy." —Meredith Godar About The Book C# is the foundation of .NET development. New features added in C# 6 and 7 make it easier to take on big data applications, cloud-centric web development, and cross-platform software using .NET Core. Packed with deep insight from C# guru Jon Skeet, this book takes you deep into concepts and features other C# books ignore. C# in Depth, Fourth Edition is an authoritative and engaging guide that reveals the full potential of the language, including the new features of C# 6 and 7. It combines deep dives into the C# language with practical techniques for enterprise development, web applications, and systems programming. As you absorb the wisdom and techniques in this book, you'll write better code, and become an exceptional troubleshooter and problem solver. What You Will Learn Comprehensive guidance on the new features of C# 6 and 7 Important legacies and greatest hits of C# 2–5 Expression-bodied members Extended pass-by-reference functionality Writing asynchronous C# code String interpolation Composition with tuples Decomposition and pattern matching This Book Is Written For For intermediate C# developers. About The Author Jon Skeet is a senior software engineer at Google. He studied mathematics and computer science at Cambridge, is a recognized authority in Java and C#, and maintains the position of top contributor to Stack Overflow. Table of Contents 1. Survival of the sharpest 2. C# 2 3. C# 3: LINQ and everything that comes with it 4. C# 4: Improving interoperability 5. Writing asynchronous code 6. Async implementation 7. C# 5 bonus

features 8. Super-sleek properties and expression-bodied members 9. Stringy features 10. A smörgåsbord of features for concise code 11. Composition using tuples 12. Deconstruction and pattern matching 13. Improving efficiency with more pass by reference 14. Concise code in C# 7 15. C# 8 and beyond PART 1 C# IN CONTEXT PART 2 C# 2–5 PART 3 C# 6 PART 4 C# 7 AND BEYOND

**C# for Beginners** Jonas Fagerberg, 2015-11-01 This book is primarily aimed towards developers who are new to C#, have none or very limited prior experience with C# and are up for a CHALLENGE. The book does not presuppose that you have any prior C# knowledge since the purpose of the book is to teach you just that. Even if you already have created a couple of small C# projects on your own or have been developing applications for a while you might find the content in this book useful as a refresher. The first part describes the fundamentals of the C# language such as variables, loops and methods. The book then gets progressively more challenging, describing, among other things, object oriented programming, generics, multithreading, asynchronous operations and reflection. The content is tactical, practical and highly modular to make it easier for you to learn. This means that you actually have to read and implement the exercises in order to learn everything the book teaches. It is not recommended that you only read the book conceptually from cover to cover; the best way to learn is to be tactical and actually implement the practical exercises after reading each chapter. If you are aspiring to take the Microsoft exam 70-483 this book can be a great complement to the more traditional encyclopedic books on the market in that it contains many complete examples and exercises that you can implement to deepen your understanding of C#. The author has worked professionally with C# since it was released and as a Microsoft



Certified Instructor for a number of years teaching C#, Visual Basic.NET and the .NET Framework. Read what a former student has to say about the book: Where to begin ? If someone asked me just off the street, how do you learn the basics of programming - this is the book I would point to. Having myself spent hundreds of dollars on expensive and quite frankly, not very indulging C# reference books (or encyclopedias), I am very fortunate (and now as I realise that this method of teaching exists, frustrated...) to have stumbled upon this one. The layout of the book speaks for itself: Read a concise, to the point description about the basics of what you are about to implement, follow the implementation step by step and review the code/run it. Rinse and repeat. It is really simple and just as powerful a concept, if not more, than actually having a teacher standing by your side - guiding you. If you find the 1,2,3 steps dull and too easy, go do the implementation yourself and you will still find yourself learning alot by reviewing how the author implemented the code. This is truly how to learn fast and still be able to pick up those gems of advice that will take you countless of hours to find out yourself, while still maintaining a level of curiosity none of the other books I've read on programming has ever done. You are literally reading a story book. This is a story with you, as a reader, involved with the creation of a program. The author smooths out the rough edges and all the non-essentials to give you a pleasant, first-hand experience of how a program should be constructed. Just as mastering any craft, mastering programming is not about learning everything at once. Instead you incrementally build your knowledge for a complete understanding and eventually see how the pieces fit together. This book is the trademark of a master; conveying the art of storytelling as a technical User-Story for the un-initiated, but eager to learn student. In much

the same way as a good fictional book would've done, this book literally grasps you and engages you in learning, that is if you invest the time required. If you have ever found yourself scrolling through MSDN to learn something fundamental about the nature of the C# language and feeling a slight sensation of despair; this is your remedy. In other words: this book is great, read it and become Informed. - Rony Lindgren

**Programming Basics with C#** Svetlin Nakov, Nakov's Team, 2019-09-01 The free book **Programming Basics with C#** (<https://csharp-book.softuni.org>) is a comprehensive entry level computer programming tutorial for absolute beginners that teaches basics of coding (variables and data, conditional statements, loops and methods), logical thinking and problem solving using the C# language. The book comes with free video lessons for each chapter, 150+ practical exercises with an automated online evaluation system (online judge) and solution guidelines for the exercises. The book **Programming Basics with C#** introduces the readers with writing programming code at a beginners level (basic coding skills), working with development environment (IDE), using variables and data, operators and expressions, working with the console (reading input data and printing output), using conditional statements (if, if-else, switch-case), loops (for, while, do-while, foreach) and methods (declaring and calling methods, passing parameters and returning values), as well as algorithmic thinking and solving practical programming problems. This free coding book for beginners is written by a team of developers lead by Dr. Svetlin Nakov (<https://nakov.com>) who has 25+ years practical software development experience and 15+ years as software development trainer. The free book **Programming Basics with C#** is an official textbook for the

Programming Basics classes at the Software University (SoftUni), used by tens of thousands of students at the start of their software development education. The book relies on the explain by examples and learn by doing approaches to learning the practical coding skills required to become a software engineer. Each chapter provides some concepts, explained as video lesson with lots of code examples, followed by practical exercises involving the use of the new concepts with online evaluation system (online judge). Learners watch the videos, try the sample code and solve the exercises, which come as part of each book chapter. Exercises are given in series with increasing complexity: from quite trivial, though little complicated to highly complicated, requiring more thinking and research in Internet. Most exercises come with detailed hints and guidelines about how to construct a correct solution. Download the free C# programming basics book (as PDF, ePub and Mobi formats), watch the video lessons and the live coding demos, solve the practical exercises and evaluate your solutions at the book official Web site: <https://csharp-book.softuni.org>. Tags: book, programming, free, computer programming, coding, writing code, programming basics, ebook, programming book, book programming, C#, CSharp, C# book, Visual Studio, .NET, tutorial, C# tutorial, video lessons, C# videos, programming videos, programming lessons, coding lessons, coding videos, programming concepts, data types, variables, operators, expressions, calculations, statements, console input and output, control-flow logic, program logic, conditional statements, nested conditions, loops, nested loops, methods, functions, method parameters, method return values, problem solving, practical exercises, practical coding, learn by examples, learn by doing, code examples, online judge system, Nakov, Svetlin Nakov, SoftUni, ISBN 978-619-00-0902-3,

ISBN 9786190009023 Detailed Book Contents: Preface - about the book, scope, how to learn programming, how to become a developer, authors team, SoftUni, the online judge, forums and other resources Chapter 1. First Steps in Programming - writing simple commands, writing simple computer programs, runtime environments, the C# language, Visual Studio and other IDEs, creating a console program, writing computer programs in C# using Visual Studio, building a simple GUI and Web apps in Visual Studio Chapter 2.1. Simple Calculations - using the system console, reading and printing integers, using data types and variables, reading floating-point numbers, using arithmetic operations, concatenating text and numbers, using numerical expressions, exercises with simple calculations, creating a simple GUI app for converting currencies Chapter 2.2. Simple Calculations – Exam Problems - practical problems with console input / output and simple calculations, with solution guidelines, from programming basics exams Chapter 3.1. Simple Conditions - using simple conditional statements, comparing numbers, simple if-else conditions, variable scope, sequence of if-else conditions, using the debugger, practical exercises with simple conditions with solution guidelines Chapter 3.2. Simple Conditions – Exam Problems - practical problems with simple if-else conditions, with solution guidelines, from programming basics exams Chapter 4.1. More Complex Conditions - nested if conditions (if-else inside if-else), using the logical OR, AND and NOT operators, using the switch-case conditional statements, building GUI app for visualizing a point in a rectangle, practical exercises with solution guidelines Chapter 4.2. More Complex Conditions – Exam Problems - practical problems with more complex if-else conditions and nested if conditions, with solution guidelines, from programming basics exams Chapter 5.1. Repetitions (Loops) -

using simple for-loops, iterating over the numbers from 1 to n, reading and processing sequences of numbers from the console, using the for-loop code snipped in Visual Studio, many practical exercises with loops, with solution guidelines, summing numbers, finding min / max element, drawing with the turtle graphics in a GUI app

Chapter 5.2. Loops – Exam Problems - practical problems with simple loops, with solution guidelines, from programming basics exams

Chapter 6.1. Nested Loops - using nested loops (loops inside other loops), implementing more complex logic with loops and conditional statements, printing simple and more complex 2D figures on the console using nested loops, calculations and if conditions, practical exercises with nested loops with solution guidelines, building a simple Web app to draw ratings in Visual Studio using ASP.NET MVC

Chapter 6.2. Nested Loops – Exam Problems - practical problems with nested loops and more complex logic, with solution guidelines, from programming basics exams

Chapter 7.1. More Complex Loops - using for-loops with a step, loops with decreasing loop variable, using while loops, and do-while loops, solving non-trivial problems like calculating GCD (greatest common divisor) and finding the prime numbers in certain range, infinite loops with break inside, using simple try-catch statements to handle errors, building a simple Web based game using Visual Studio and ASP.NET MVC, practical exercises with more complex loops with solution guidelines

Chapter 7.2. More Complex Loops – Exam Problems - practical problems with nested and more complex loops with non-trivial logic, with solution guidelines, from programming basics exams

Chapter 8.1. Practical Exam Preparations – Part I - sample practical exam from the entrance exams at the Software University, with solution guidelines, covering 6 problems with simple calculations, with simple conditions, with more complex

conditions, with a simple loop, with nested loops, with nested loops and more complex logic Chapter 8.2. Practical Exam Preparations – Part II - another sample practical exam from the entrance exams at the Software University, with solution guidelines, covering 6 problems with simple calculations, with simple conditions, with more complex conditions, with a simple loop, with nested loops, with nested loops and more complex logic Chapter 9.1. Problems for Champions – Part I - a sample set of more complex problems, requiring stronger algorithmic thinking and programming techniques, with solution guidelines Chapter 9.2. Problems for Champions – Part II - another set of more complex problems, requiring stronger algorithmic thinking and programming techniques, with solution guidelines Chapter 10. Methods - what is method, when to use methods, defining and calling methods (functions), passing parameters and returning values, returning multiple values, overloading methods, using nested methods (local functions), naming methods correctly, good practices for using methods Chapter 11. Tricks and Hacks - some special techniques, tricks and hacks for improving our performance with C# and Visual Studio: hints how to format the code, conventions and guidelines about naming the code elements, using keyboard shortcuts in VS, defining and using code snippets in VS, debugging code, using breakpoints and watches Conclusion - the skills of the software engineers, how to continue learning software development after this book (study software engineering in SoftUni, study in your own way), how to get learning resources and how many time it takes to become a skillful software engineer and start a job

**Real-World Functional Programming** Tomas Petricek, Jonathan Skeet, 2009-11-30 Functional programming languages like F#, Erlang, and Scala are attracting attention as an efficient way to handle the new

requirements for programming multi-processor and high-availability applications. Microsoft's new F# is a true functional language and C# uses functional language features for LINQ and other recent advances. *Real-World Functional Programming* is a unique tutorial that explores the functional programming model through the F# and C# languages. The clearly presented ideas and examples teach readers how functional programming differs from other approaches. It explains how ideas look in F#—a functional language—as well as how they can be successfully used to solve programming problems in C#. Readers build on what they know about .NET and learn where a functional approach makes the most sense and how to apply it effectively in those cases. The reader should have a good working knowledge of C#. No prior exposure to F# or functional programming is required. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

**Microsoft Visual C# Step by Step** John Sharp, 2015-10-28 Your hands-on guide to Microsoft Visual C# fundamentals with Visual Studio 2015 Expand your expertise—and teach yourself the fundamentals of programming with the latest version of Visual C# with Visual Studio 2015. If you are an experienced software developer, you'll get all the guidance, exercises, and code you need to start building responsive, scalable Windows 10 and Universal Windows Platform applications with Visual C#. Discover how to: Quickly start creating Visual C# code and projects with Visual Studio 2015 Work with variables, operators, expressions, and methods Control program flow with decision and iteration statements Build more robust apps with error, exception, and resource management Master the essentials of Visual C# object-oriented programming Use enumerations, structures, generics, collections, indexers, and other

advanced features Create in-memory data queries with LINQ query expressions Improve application throughput and response time with asynchronous methods Decouple application logic and event handling Streamline development with new app templates Implement the Model-View-ViewModel (MVVM) pattern Build Universal Windows Platform apps that smoothly adapt to PCs, tablets, and Windows phones Integrate Microsoft Azure cloud databases and RESTful web services About You For software developers who are new to Visual C# or who are upgrading from older versions Readers should have experience with at least one programming language No prior Microsoft .NET or Visual Studio development experience required

**The Modern C# Challenge** Rod Stephens, 2018-10-25 Learn advanced C# concepts and techniques such as building caches, cryptography, and parallel programming by solving interesting programming challenges Key Features Gain useful insights on advanced C# programming topics and APIs Use locking and cached values to solve parallel problems Take advantage of .NET's cryptographic tools to encrypt and decrypt strings Book Description C# is a multi-paradigm programming language. The Modern C# Challenge covers with aspects of the .NET Framework such as the Task Parallel Library (TPL) and CryptoAPI. It also encourages you to explore important programming trade-offs such as time versus space or simplicity. There may be many ways to solve a problem and there is often no single right way, but some solutions are definitely better than others. This book has combined these solutions to help you solve real-world problems with C#. In addition to describing programming trade-offs, The Modern C# Challenge will help you build a useful toolkit of techniques such as value caching, statistical analysis, and geometric algorithms. By the end of this book, you will have walked



through challenges in C# and explored the .NET Framework in order to develop program logic for real-world applications. What you will learnPerform statistical calculations such as finding the standard deviationFind combinations and permutationsSearch directories for files matching patterns using LINQ and PLINQFind areas of polygons using geometric operationsRandomize arrays and lists with extension methodsExplore the filesystem to find duplicate filesSimulate complex systems and implement equality in a classUse cryptographic techniques to encrypt and decrypt strings and filesWho this book is for The Modern C# Challenge is for all C# developers of different abilities wanting to solve real-world problems. There are problems for everyone at any level of expertise in C#

*The C# Player's Guide (eBook)* R. B. Whitaker,2012-09-27

### **Functional Programming in C#, Second Edition** Enrico

Buonanno,2022-02 Functional Programming in C#, Second Edition teaches functional thinking for real-world problems. It reviews the C# language features that allow you to program functionally and through many practical examples shows the power of function composition, data-driven programming, and immutable data structures. All code examples work with .NET 6 and C# 10.

*The C# Programming Language* Anders Hejlsberg,Mads

Torgersen,Scott Wiltamuth,Peter Golde,2008-10-08 “Based on my own experience, I can safely say that every .NET developer who reads this will have at least one ‘aha’ moment and will be a better developer for it.” —From the Foreword by Don Box The popular C# programming language combines the high productivity of rapid application development languages with the raw power of C and C++. Now, C# 3.0 adds functional programming techniques and LINQ, Language INtegrated Query. The C# Programming Language, Third Edition, is

the authoritative and annotated technical reference for C# 3.0. Written by Anders Hejlsberg, the language's architect, and his colleagues, Mads Torgersen, Scott Wiltamuth, and Peter Golde, this volume has been completely updated and reorganized for C# 3.0. The book provides the complete specification of the language, along with descriptions, reference materials, code samples, and annotations from nine prominent C# gurus. The many annotations—a new feature in this edition—bring a depth and breadth of understanding rarely found in any programming book. As the main text of the book introduces the concepts of the C# language, cogent annotations explain why they are important, how they are used, how they relate to other languages, and even how they evolved. This book is the definitive, must-have reference for any developer who wants to understand C#.

Programming C# Jesse Liberty, 2003 Designed specifically for developing applications on Microsoft's NET platform, the innovative C# programming language is simple, type-safe, object- and component-oriented and Internet-savvy. In *Programming C#, Third Edition*, noted author Jesse Liberty gives experienced professionals the information they need to become productive quickly. Beginning with a rapid tour of basic C# language syntax, Part I introduces the keywords and concepts that make C# and NET an effective environment for building desktop and web-based applications, including: Classes and objects; Inheritance and polymorphism; Operator overloading; Structs and interfaces; Arrays, indexers, and collections; String handling and regular expressions; Exceptions and bug handling; Delegates and events. Part II teaches you how to use C# with three core application frameworks-ASP.NET, NET Windows Forms, and ADO.NET-to build typical desktop and Internet applications, including browser-oriented web applications and

standards-based web services. Finally, in Part III, you'll learn how to tap the rich functionality of the .NET Framework to manage deployment with assemblies, work with metadata, marshal objects across process and machine boundaries, work with threads, handle data streams, and integrate with legacy Windows APIs and COM objects. All text and examples have been updated for Visual Studio .NET 2003 and the .NET Framework 1.1 SDK. Also new are extensive tips for Java, C++, and VB6 programmers; revised chapters on delegates and events; and web applications and services.

**Illustrated C# 7** Daniel Solis, Cal Schrottenboer, 2018-02-19 Get to work quickly with C# with a uniquely succinct and visual format used to present the C# 7.0 language. Whether you're getting to grips with C# for the first time or working to deepen your understanding, you'll find this book to be a clear and refreshing take on each aspect of the language. Figures are of prime importance in this book. While teaching programming seminars, Daniel Solis found that he could almost watch the light bulbs going on over the students' heads as he drew the figures on the whiteboard. In this text, he has distilled each important concept into simple but accurate illustrations. For this latest edition, Dan is joined by fellow experienced teacher and programmer, Cal Schrottenboer, to bring you the very latest C# language features, along with an understanding of the frameworks it most often lives in: .NET and the new .NET Core. For something as intricate and precise as a programming language, there must be text as well as figures. But rather than long, wordy explanations, the authors use short, concise descriptions and bullet lists to make each important piece of information visually distinct and memorable. What You'll Learn Start with an overview of C# programming and how the language works under the hood Put things in context with a little useful history of C#

and .NET Know how .NET Core fits into the picture Understand how C# handles types Benefit from clear, concise explanations of each language feature, from classes and inheritance to enumerators and iterators, and the new C# 7.0 tuples Quickly access material via this book's visual introduction to asynchronous programming with C# Who This Book Is For Novice to intermediate C# programmers, and more experienced programmers moving to C# from other languages

**Pro C# 7** Andrew Troelsen, Philip Japikse, 2017-11-21 This essential classic title provides a comprehensive foundation in the C# programming language and the frameworks it lives in. Now in its 8th edition, you'll find all the very latest C# 7.1 and .NET 4.7 features here, along with four brand new chapters on Microsoft's lightweight, cross-platform framework, .NET Core, up to and including .NET Core 2.0. Coverage of ASP.NET Core, Entity Framework (EF) Core, and more, sits alongside the latest updates to .NET, including Windows Presentation Foundation (WPF), Windows Communication Foundation (WCF), and ASP.NET MVC. Dive in and discover why Pro C# has been a favorite of C# developers worldwide for over 15 years. Gain a solid foundation in object-oriented development techniques, attributes and reflection, generics and collections as well as numerous advanced topics not found in other texts (such as CIL opcodes and emitting dynamic assemblies). With the help of this book you'll have the confidence to put C# into practice and explore the .NET universe on your own terms. What You Will Learn Discover the latest C# 7.1 features, from tuples to pattern matching Hit the ground running with Microsoft's lightweight, open source .NET Core platform, including ASP.NET Core MVC, ASP.NET Core web services, and Entity Framework Core Find complete coverage of XAML, .NET 4.7, and Visual Studio 2017 Understand the philosophy

behind .NET and the new, cross-platform alternative, .NET Core

**C#** Bruce Herbert, 2019-05-23 C# For beginners Have you always wanted to learn c sharp programming but are afraid it'll be too difficult for you? Or perhaps you know other programming languages but are interested in learning the C# language fast? This book is for you. You no longer have to waste your time and money learning C# from boring books that are 600 pages long, expensive online courses or complicated C# tutorials that just leave you more confused. What this book offers... C Sharp for Beginners Complex concepts are broken down into simple steps to ensure that you can easily master the C# language even if you have never coded before. Carefully Chosen C# Examples Examples are carefully chosen to illustrate all concepts. In addition, the output for all examples are provided immediately so you do not have to wait till you have access to your computer to test the examples. Careful selection of topics Topics are carefully selected to give you a broad exposure to C#, while not overwhelming you with information overload. These topics include object-oriented programming concepts, error handling techniques, file handling techniques and more. Learn The C Sharp Programming Language Fast Concepts are presented in a to-the-point style to cater to the busy individual. With this book, you can learn C# in just one day and start coding immediately. How is this book different... The best way to learn C# is by doing. This book includes a unique project at the end of the book that requires the application of all the concepts taught previously. Working through the project will not only give you an immense sense of achievement, it'll also help you retain the knowledge and master the language. Are you ready to dip your toes into the exciting world of C# coding? This book is for you. Click the BUY button and download it now. What you will learn in this book:

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 selection and control of the  
 process conditions by cautious  
 monitoring of the process  
 variables the unit can operate to  
 its full potential the typical range  
 of hydrocracking unit parameters  
 is shown in the table below

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 prashant parihaar t he typical  
 reaction mechanism during



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web dec 2 2016 this chapter  
presents a brief description of  
various flow configurations  
required for the nominal  
operating conditions for the  
typical hydrocracking unit feed

endpoints are critical to control in  
order to minimize

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