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Master machine learning concepts and develop real-world solutions Machine learning offers immense opportunities, and Introducing Machine Learning delivers practical knowledge to make the most of them. Dino and Francesco Esposito start with a quick overview of the foundations of artificial intelligence and the basic steps of any machine learning project. Next, they introduce Microsoft's powerful ML.NET library, including capabilities for data processing, training, and evaluation. They present families of algorithms that can be trained to solve real-life problems, as well as deep learning techniques utilizing neural networks. The authors conclude by introducing valuable runtime services available through the Azure cloud platform and consider the long-term business vision for machine learning. · 14-time Microsoft MVP Dino Esposito and Francesco Esposito help you · Explore what's known about how humans learn and how intelligent

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software is built · Discover which problems machine learning can address · Understand the machine learning pipeline: the steps leading to a deliverable model · Use AutoML to automatically select the best pipeline for any problem and dataset · Master ML.NET, implement its pipeline, and apply its tasks and algorithms · Explore the mathematical foundations of machine learning · Make predictions, improve decision-making, and apply probabilistic methods · Group data via classification and clustering · Learn the fundamentals of deep learning, including neural network design · Leverage AI cloud services to build better real-world solutions faster About This Book · For professionals who want to build machine learning applications: both developers who need data science skills and data scientists who need relevant programming skills · Includes examples of machine learning coding scenarios built using the ML.NET library

Maximize the impact and precision of your message! Now in its fourth edition, the Microsoft Manual of Style provides essential guidance to content creators, journalists, technical writers, editors, and everyone else who writes about computer technology. Direct from the Editorial Style Board at Microsoft—you get a comprehensive glossary of both general technology terms and those specific to Microsoft; clear, concise usage and style guidelines with helpful examples and alternatives; guidance on grammar, tone, and voice; and best practices for writing

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content for the web, optimizing for accessibility, and communicating to a worldwide audience. Fully updated and optimized for ease of use, the Microsoft Manual of Style is designed to help you communicate clearly, consistently, and accurately about technical topics—across a range of audiences and media. The author placed itself from the point of view of the developer which must be quickly productive and anticipate changes without having to reinvent the wheel. More than half the book is dedicated to the 2.0 version of .NET and covers: The .NET platform, The C#2 language and The .NET Framework. With several reminders to fundamental, it is the perfect book for the student, the beginner or even the seasoned developer.

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In the race to compete in today's fast-moving markets, large enterprises are busy adopting new technologies for creating new products, processes, and business models. But one obstacle on the road to digital transformation is placing too much emphasis on technology, and not enough on the types of processes technology enables. What if different lines of business could build their own services and applications—and decision-making was distributed rather than centralized? This report explores the concept of a digital business platform as a

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way of empowering individual business sectors to act on data in real time. Much innovation in a digital enterprise will increasingly happen at the edge, whether it involves business users (from marketers to data scientists) or IoT devices. To facilitate the process, your core IT team can provide these sectors with the digital tools they need to innovate quickly. This report explores: Key cultural and organizational changes for developing business capabilities through cross-functional product teams A platform for integrating applications, data sources, business partners, clients, mobile apps, social networks, and IoT devices Creating internal API programs for building innovative edge services in low-code or no-code environments Tools including Integration Platform as a Service, Application Platform as a Service, and Integration Software as a Service The challenge of integrating microservices and serverless architectures Event-driven architectures for processing and reacting to events in real time You'll also learn about a complete pervasive integration solution as a core component of a digital business platform to serve every audience in your organization.

This “inside account captures the energy—and the madness—of the software giant’s race to develop a critical new program. . . . Gripping” (Fortune Magazine). Showstopper is the dramatic, inside story of the creation of Windows NT, told by Wall Street Journal reporter G. Pascal Zachary. Driven by the

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legendary David Cutler, a picked band of software engineers sacrifices almost everything in their lives to build a new, stable, operating system aimed at giving Microsoft a platform for growth through the next decade of development in the computing business. Comparable in many ways to the Pulitzer Prize–winning book *The Soul of a New Machine* by Tracy Kidder, *Showstopper* gets deep inside the process of software development, the lives and motivations of coders and the pressure to succeed coupled with the drive for originality and perfection that can pull a diverse team together to create a program consisting of many hundreds of thousands of lines of code.

Thoroughly revised, this third edition focuses on modern techniques used to generate synthetic three-dimensional images in a fraction of a second. With the advent of programmable shaders, a wide variety of new algorithms have arisen and evolved over the past few years. This edition discusses current, practical rendering methods used in games and other applications. It also presents a solid theoretical framework and relevant mathematics for the field of interactive computer graphics, all in an approachable style. The authors have made the figures used in the book available for download for fair use.:Download Figures. *Rendering* has been a required reference for professional graphics practitioners for nearly a decade. This latest edition is as relevant as ever,

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covering topics from essential mathematical foundations to advanced techniques used by today's cutting edge games. -- Gabe Newell, President, Valve, May 2008 Rendering ... has been completely revised and revamped for its updated third edition, which focuses on modern techniques used to generate three-dimensional images in a fraction of the time old processes took. From practical rendering for games to math and details for better interactive applications, it's not to be missed. -- The Bookwatch, November 2008 You'll get brilliantly lucid explanations of concepts like vertex morphing and variance shadow mapping—as well as a new respect for the incredible craftsmanship that goes into today's PC games. -- Logan Decker, PC Gamer Magazine , February 2009

Filled with practical, step-by-step instructions and clear explanations for the most important and useful tasks. The book will take a how-to approach, focusing on recipes that demonstrate Stylecop code analysis. Stylecop Code Analysis How-to is intended for developers and project managers who are looking for an all-encompassing overview of Stylecop to display or enforce their specific coding conventions. It is assumed that you have a minimal understanding of integration technologies such as MSBuild and Nant. You should also have some knowledge on how to program in C# and LINQ. An available version of Visual Studio 2008 professional or superior is also required to follow the first chapters of this book.

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This book is a collection of notes and sample codes written by the author while he was learning C#. Topics include: Data, Variables and Expressions; Logical Expressions and Conditional Statements; Arrays and Loops; Data Types; Precision of "float", "double", and "decimal"; Performance of "float", "double", and "decimal"; Binary Representation of "float" and "double" Values; Binary Representation of "decimal" Values - Methods; Execution Environment; Common Language Runtime; Intermediate Language Assembler and Disassembler; Private Memory vs. Virtual Memory; Multithreading programs; Async and Await Feature; WPF (Windows Presentation Foundation); MSBuild tool; XAML (eXtensible Application Markup Language). Updated in 2020 (Version 3.31) with minor changes. For latest updates and free sample chapters, visit <http://www.herongyang.com/C-Sharp>.

Presents a guide to the software build and deployment process using MSBuild. A comprehensive guide for beginners to learn the key concepts, real-world applications, and latest features of C# 9 and .NET 5 with hands-on exercises using VS Code Key Features Explore the newest additions to C# 9, the .NET 5 class library, Entity Framework Core and Blazor Strengthen your command of ASP.NET Core 5.0 and create professional websites and services Build cross-platform apps for Windows, macOS, Linux, iOS, and Android Book Description In

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C# 9 and .NET 5 – Modern Cross-Platform Development, Fifth Edition, expert teacher Mark J. Price gives you everything you need to start programming C# applications. This latest edition uses the popular Visual Studio Code editor to work across all major operating systems. It is fully updated and expanded with a new chapter on the Microsoft Blazor framework. The book's first part teaches the fundamentals of C#, including object-oriented programming and new C# 9 features such as top-level programs, target-typed new object instantiation, and immutable types using the record keyword. Part 2 covers the .NET APIs, for performing tasks like managing and querying data, monitoring and improving performance, and working with the file system, async streams, serialization, and encryption. Part 3 provides examples of cross-platform apps you can build and deploy, such as websites and services using ASP.NET Core or mobile apps using Xamarin.Forms. By the end of the book, you will have acquired the understanding and skills you need to use C# 9 and .NET 5 to create websites, services, and mobile apps. What you will learn Build your own types with object-oriented programming Query and manipulate data using LINQ Build websites and services using ASP.NET Core 5 Create intelligent apps using machine learning Use Entity Framework Core and work with relational databases Discover Windows app development using the Universal Windows Platform and XAML

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Build rich web experiences using the Blazor framework Build mobile applications for iOS and Android using Xamarin.Forms Who this book is for This book is best for C# and .NET beginners, or programmers who have worked with C# in the past but feel left behind by the changes in the past few years. This book doesn't expect you to have any C# or .NET experience; however, you should have a general understanding of programming. Students and professionals with a science, technology, engineering, or mathematics (STEM) background can certainly benefit from this book.

Proven author provides expert analysis on key new features Visual Studio 2005 release provides an ample catalyst for sales of this book Our .NET 2.0 series has proven to be a very successful book line; this is a member of such Kovach provides an ideal tutorial to the Direct3D APIs and shows how to use them in real gaming applications, with an emphasis on best performance practices. The author shows how to add 3D effects to any application's UI quickly, and demonstrates how to get great performance and impact from the investment.

Get the supplement that helps you drill even further into MSBuild—and maximize your control over the software build and deployment process. Designed as a companion to the popular book Inside the Microsoft Build Engine: Using MSBuild

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and Team Foundation Build, Second Edition, this supplement extends your knowledge by covering what's new in Visual Studio 2012 for MSBuild and Team Foundation Build. You'll also gain a fresh cookbook of examples to help you get productive with UI changes, batching, Team Foundation Server, offline apps, database publishing, and other essential topics. Extends your knowledge of MSBuild with all-new coverage of Visual Studio 2012 Shares additional hands-on insights and guidance from two expert authors Provides a cookbook of examples to study and reuse

Conquer SQL Server 2017 administration—from the inside out Dive into SQL Server 2017 administration—and really put your SQL Server DBA expertise to work. This supremely organized reference packs hundreds of timesaving solutions, tips, and workarounds—all you need to plan, implement, manage, and secure SQL Server 2017 in any production environment: on-premises, cloud, or hybrid. Four SQL Server experts offer a complete tour of DBA capabilities available in SQL Server 2017 Database Engine, SQL Server Data Tools, SQL Server Management Studio, and via PowerShell. Discover how experts tackle today's essential tasks—and challenge yourself to new levels of mastery. • Install, customize, and use SQL Server 2017's key administration and development tools • Manage memory, storage, clustering, virtualization, and

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other components • Architect and implement database infrastructure, including IaaS, Azure SQL, and hybrid cloud configurations • Provision SQL Server and Azure SQL databases • Secure SQL Server via encryption, row-level security, and data masking • Safeguard Azure SQL databases using platform threat protection, firewalling, and auditing • Establish SQL Server IaaS network security groups and user-defined routes • Administer SQL Server user security and permissions • Efficiently design tables using keys, data types, columns, partitioning, and views • Utilize BLOBs and external, temporal, and memory-optimized tables • Master powerful optimization techniques involving concurrency, indexing, parallelism, and execution plans • Plan, deploy, and perform disaster recovery in traditional, cloud, and hybrid environments For Experienced SQL Server Administrators and Other Database Professionals • Your role: Intermediate-to-advanced level SQL Server database administrator, architect, developer, or performance tuning expert • Prerequisites: Basic understanding of database administration procedures

As software complexity increases, proper build practices become ever more important. This essential reference—fully updated for Visual Studio 2010—drills inside MSBuild and shows you how to maximize your control over the build and deployment process. Learn how to customize and extend build processes with

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MSBuild—and scale them to the team, product, or enterprise level with Team Foundation Build.

Delve inside the Windows Runtime - and learn best ways to design and build Windows Store apps. Guided by Jeffrey Richter, a recognized expert in Windows and .NET programming, along with principal Windows consultant Maarten van de Bospoort, you'll master essential concepts. And you'll gain practical insights and tips for how to architect, design, optimize, and debug your apps. With this book, you will:

- Learn how to consume Windows Runtime APIs from C#
- Understand the principles of architecting Windows Store apps
- See how to build, deploy, and secure app packages
- Understand how apps are activated and the process model controlling their execution
- Study the rich features available when working with files and folders
- Explore how to transfer, compress, and encrypt data via streams
- Design apps that give the illusion of running using live tiles, background transfers, and background tasks
- Share data between apps using the clipboard and the Share charm
- Get advice for monetizing your apps through the Windows Store

About This Book Requires working knowledge of Microsoft .NET Framework, C#, and the Visual Studio IDE Targeted to programmers building Windows Store apps Some chapters also useful to those building desktop apps

Technologies Covered Windows 8.1 Microsoft Visual Studio 2013

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Explores the architecture, components, and tools of Microsoft Dynamics AX 2012 R3, including forms, security, SharePoint integration, workflow infrastructure, reporting, automating tasks and document distribution, and application domain frameworks.

Right Your Software and Transform Your Career Righting Software presents the proven, structured, and highly engineered approach to software design that renowned architect Juval Löwy has practiced and taught around the world. Although companies of every kind have successfully implemented his original design ideas across hundreds of systems, these insights have never before appeared in print. Based on first principles in software engineering and a comprehensive set of matching tools and techniques, Löwy's methodology integrates system design and project design. First, he describes the primary area where many software architects fail and shows how to decompose a system into smaller building blocks or services, based on volatility. Next, he shows how to flow an effective project design from the system design; how to accurately calculate the project duration, cost, and risk; and how to devise multiple execution options. The method and principles in Righting Software apply regardless of your project and company size, technology, platform, or industry. Löwy starts the reader on a journey that addresses the critical challenges of

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software development today by righting software systems and projects as well as careers—and possibly the software industry as a whole. Software professionals, architects, project leads, or managers at any stage of their career will benefit greatly from this book, which provides guidance and knowledge that would otherwise take decades and many projects to acquire. Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

“Welcome to one of the greatest collaborations you could dream of in the world of C# books—and probably far beyond!” —From the Foreword by Mads Torgersen, C# Program Manager, Microsoft

Essential C# 6.0 is a well-organized, no-fluff guide to the latest versions of C# for programmers at all levels of experience. Fully updated to reflect new C# 6.0 and .NET 4.6 features and patterns, it will help you write C# code that’s simple, powerful, robust, secure, and maintainable. This book’s authors are world-class C# experts: long-time Microsoft MVP and Regional Director Mark Michaelis and Eric Lippert, formerly principal developer on Microsoft’s C# compiler team. Together, they cover the entire language, illustrating key constructs with succinct examples and offering a complete foundation for successful C# development. Essential C# 6.0 makes it easy to program with any version of C#, whether you’re creating new code or

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maintaining existing systems. Separate indexes for C# versions 4, 5, and 6 help you quickly find version-specific answers with accompanying visual indicators that help you identify which language innovations will work when. This edition also includes a set of best-practice C# Coding Guidelines updated to leverage C# 6.0 constructs. Coverage includes Mastering C# data types, operators, control flow, methods, and parameters Using C# object-oriented constructs, including classes, inheritance, interfaces, and more—all with the significantly simplified syntax of C# 6.0 Working with well-formed value and reference types Implementing reliable, effective exception handling Reducing code complexity with generics, delegates, lambda expressions, and events (including a simplified C# 6.0 syntax for triggering events) Learning dynamic programming with reflection and attributes Querying diverse data collections using LINQ with query expressions Creating custom collections that operate against business objects Using collection interfaces and standard query operators to access .NET collections Understanding the Common Language Infrastructure and C# in the context of .NET 4.6 Taking advantage of declarative programming, embedded metadata, reflection, and attributes Mastering multithreading and synchronization, including the new async/await paradigm Using P/Invoke, pointers, and direct memory manipulation to interoperate with other languages

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Understanding how C# programs relate to the underlying runtime For Qualified Instructors An instructor's guide, exercises, and a slide deck are available to support your courses.

Finally, a book comes a long that is the definitive reference on the Microsoft Office Web Components. Learn how to build windows forms and web based applications containing interactive Microsoft Excel spreadsheets, customized pivot tables and dynamic 2D/3D charts and graphs. Inside, you will find hundreds of code snippets in C#, VB.NET, Javascript, and VBscript, complete walkthrus, sample implementations and advanced coding strategies and techniques for building commercial-grade software that will integrate seamlessly with core Microsoft Office products. With nearly 570 pages, this book offers something for every level of developer. Thanks to all of you who contributed to hundreds of copies of this book being sold and 6 months in the top 100 sales rank, enjoy this new price.

"Raymond Chen is the original raconteur of Windows." --Scott Hanselman, ComputerZen.com "Raymond has been at Microsoft for many years and has seen many nuances of Windows that others could only ever hope to get a glimpse of. With this book, Raymond shares his knowledge, experience, and anecdotal stories, allowing all of us to get a better understanding of the operating

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system that affects millions of people every day. This book has something for everyone, is a casual read, and I highly recommend it!" --Jeffrey Richter, Author/Consultant, Cofounder of Wintellect "Very interesting read. Raymond tells the inside story of why Windows is the way it is." --Eric Gunnerson, Program Manager, Microsoft Corporation "Absolutely essential reading for understanding the history of Windows, its intricacies and quirks, and why they came about." --Matt Pietrek, MSDN Magazine's Under the Hood Columnist "Raymond Chen has become something of a legend in the software industry, and in this book you'll discover why. From his high-level reminiscences on the design of the Windows Start button to his low-level discussions of GlobalAlloc that only your inner-geek could love, The Old New Thing is a captivating collection of anecdotes that will help you to truly appreciate the difficulty inherent in designing and writing quality software." --Stephen Toub, Technical Editor, MSDN Magazine Why does Windows work the way it does? Why is Shut Down on the Start menu? (And why is there a Start button, anyway?) How can I tap into the dialog loop? Why does the GetWindowText function behave so strangely? Why are registry files called "hives"? Many of Windows' quirks have perfectly logical explanations, rooted in history. Understand them, and you'll be more productive and a lot less frustrated. Raymond Chen--who's spent more than a decade on Microsoft's Windows

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development team--reveals the "hidden Windows" you need to know. Chen's engaging style, deep insight, and thoughtful humor have made him one of the world's premier technology bloggers. Here he brings together behind-the-scenes explanations, invaluable technical advice, and illuminating anecdotes that bring Windows to life--and help you make the most of it. A few of the things you'll find inside: What vending machines can teach you about effective user interfaces A deeper understanding of window and dialog management Why performance optimization can be so counterintuitive A peek at the underbelly of COM objects and the Visual C++ compiler Key details about backwards compatibility--what Windows does and why Windows program security holes most developers don't know about How to make your program a better Windows citizen Prepare to be a Microsoft Lists advocate and transform the way data is harnessed in your organization Key Features Get to grips with Microsoft Lists and organize your data efficiently Discover best practices and real-world scenarios to track information, events, and issues in your organization Take control of your data by creating custom data models using Microsoft Lists Book Description Microsoft Lists is an extremely flexible and powerful platform for creating custom data models. Hands-On Microsoft Lists is an easy-to-read guide for those who want to get started with Lists, as well as those who are already familiar with the

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basic concepts and want to create custom and flexible Lists that are easily available through a web interface. This comprehensive introduction to Lists will show you how to get up to speed in no time with the help of practical guidance and examples. Complete with hands-on tutorials and projects, you'll understand how to use and implement Microsoft Lists effectively. You'll start by covering all the basic concepts that will help you to build your Microsoft Lists and get the most out of the platform. As you progress, you'll explore how to customize Microsoft Lists layouts and forms. Later chapters will guide you through integrating Microsoft Lists with the Power Platform. Throughout the book, you'll work with practical scenarios that you can use daily to improve the collaboration in your organization. By the end of this Microsoft book, you'll have learned how to create custom data models to improve the way your data is put together, managed, and consumed in your workplace. What you will learn Use the Lists platform effectively in the modern workplace Get to grips with data privacy Discover how to customize Microsoft Lists data and forms Automate processes using Microsoft Lists Extend the default features of Microsoft Lists using the SharePoint framework Create custom list templates using PnP PowerShell Extend Microsoft Lists using Power Platform Who this book is for This book is for business professionals and end users working with Microsoft 365 tools such as

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Microsoft SharePoint and Microsoft Teams who are looking to improve the way their data is structured, managed, and consumed inside an organization. Basic knowledge of SharePoint and Excel is assumed.

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Through four complete sprints, this book takes you through every step needed to build brand new cross-platform web apps with ASP.NET Core, and make them available on the Internet. You won't just master Microsoft's revolutionary open source ASP.NET Core technology: you'll learn how to integrate the immense power of MVC, Docker, Azure Web Apps, Visual Studio and Visual Studio Code, C#, JavaScript, TypeScript, and Entity Framework. Working through the authors' carefully designed sprints, you'll start with a blank canvas, move through software architecture and design, adjusting to user feedback, recovering from mistakes, builds, testing, deployment, maintenance, refactoring, and more. Along the way, you'll learn techniques for delivering state-of-the-art software to users more rapidly and repeatably than ever before. Learn to leverage the features of the newest version of SharePoint, in this update to the bestseller More than simply a portal, SharePoint is Microsoft's popular content management solution for building intranets and Web sites or hosting

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wikis and blogs. Offering broad coverage on all aspects of development for the SharePoint platform, this comprehensive book shows you exactly what SharePoint does, how to build solutions, and what features are accessible within SharePoint. Written by one of the most recognized names in SharePoint development, Professional SharePoint 2010 Development offers an extensive selection of field-tested best practices that shows you how to leverage the vast power of this multi-faceted tool to build custom workflow and content management applications. Plus, you'll discover how to take advantage of the new features to roll out new SharePoint sites or upgrade existing sites. SharePoint guru Tom Rizzo offers broad coverage of the newest version of SharePoint, Microsoft's popular content management solution Addresses how the new version adds enhanced developer support for ASP.NET, Ajax, LINQ, and Silverlight Demonstrates how to take advantage of new features, including improvements to offline and mobile client capabilities, social networking additions, and more Covers user experience development, platform services, social media features, event handling, the business data catalog, forms and workflow, business intelligence, and more With this book, you'll get exhaustive coverage on the many possibilities that exist with SharePoint. Shows readers how to perform complex data analysis, create reports with the

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data analysis expressions language, and add hierarchies to data models to enable faster browsing.

"AI will enable breakthrough advances in areas like healthcare, agriculture, education and transportation. It's already happening in impressive ways. But as we've witnessed over the past 20 years, new technology also inevitably raises complex questions and broad societal concerns." - Brad Smith and Harry Shum on *The Future Computed*. "As we look to a future powered by a partnership between computers and humans, it's important that we address these challenges head on. How do we ensure that AI is designed and used responsibly? How do we establish ethical principles to protect people? How should we govern its use? And how will AI impact employment and jobs?" - Brad Smith and Harry Shum on *The Future Computed*. As Artificial Intelligence shows up in every aspect of our lives, Microsoft's top minds provide a guide discussing how we should prepare for the future. Whether you're a government leader crafting new laws, an entrepreneur looking to incorporate AI into your business, or a parent contemplating the future of education, this book explains the trends driving the AI revolution, identifies the complex ethics and workforce issues we all need to think about and suggests a path forward. Read more: *The Future Computed: Artificial Intelligence and its role in society* provides Microsoft's perspective on where AI

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technology is going and the new societal issues it is raising - ensuring AI is designed and used responsibly, establishing ethical principles to protect people, and how AI will impact employment and jobs. The principles of fairness, reliability and safety, privacy and security, inclusiveness, transparency and accountability are critical to addressing the societal impacts of AI and building trust as AI becomes more and more a part of the products and services that people use at work and at home every day. A central theme in *The Future Computed* is that for AI to deliver on its potential drive widespread economic and social progress, the technology needs to be human-centered - combining the capabilities of computers with human capabilities to enable people to achieve more. But a human-centered approach can only be realized if researchers, policymakers, and leaders from government, business and civil society come together to develop a shared ethical framework for AI. This in turn will help foster responsible development of AI systems that will engender trust. Because in an increasingly AI-driven world the question is not what computers can do, it is what computers should do. *The Future Computed* also draws a few conclusions as we chart our path forward. First, the companies and countries that will fare best in the AI era will be those that embrace these changes rapidly and effectively. Second, while AI will help solve big societal problems, we must look to this future with a critical

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eye as there will be challenges as well as opportunities. Third, we need to act with a sense of shared responsibility because AI won't be created by the tech sector alone. Finally, skilling-up for an AI-powered world involves more than science, technology, engineering and math. As computers behave more like humans, the social sciences and humanities will become grow in importance. A practical guide to effectively using, customizing, and extending the build engine. As software complexity increases, proper build practices become ever more important. This essential reference drills inside MSBuild-and shows how to maximize your control over the build and deployment process. Learn how to customize and extend build processes with MSBuild-and scale them to the team, product, or enterprise level with Team Foundation Build. Discover how to: *

- * Create and modify MSBuild files-outside the Visual Studio IDE
- * Use XML-based syntax to declare dynamic properties and items
- * Apply built-in tasks or write your own
- * Customize the build process-adding code generation, unit testing, or code analysis
- * Use batching and incremental builds to reduce build times
- * Invoke external tools in scripts and create reusable files
- * Start and stop services
- * Set assembly versions and extend the clean process
- * Configure, customize, and extend Team Build-and automate build from end to end

The special anniversary edition of The Little Engine That Could™ contains the

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entire text and original artwork. Young readers, as well as parents and grandparents, will treasure the story of the blue locomotive who exemplifies the power of positive thinking.

This book constitutes the refereed proceedings of the 4th International Conference on Integrated Formal Methods, IFM 2004, held in Canterbury, UK, in April 2004. The 24 revised full papers presented together with 3 invited papers and one invited tutorial chapter were carefully reviewed and selected from 65 submissions. The papers are devoted to automating program analysis, state/event-based verification, formalizing graphical notions, refinement, object-orientation, hybrid and timed automata, integration frameworks, verifying interactive systems, and testing and assertions.

NEW YORK TIMES BESTSELLER USA TODAY BESTSELLER Amazon, Apple, Facebook, and Google are the four most influential companies on the planet. Just about everyone thinks they know how they got there. Just about everyone is wrong. For all that's been written about the Four over the last two decades, no one has captured their power and staggering success as insightfully as Scott Galloway. Instead of buying the myths these companies broadcast, Galloway asks fundamental questions. How did the Four infiltrate our lives so completely that they're almost impossible to avoid (or boycott)? Why does the stock market

forgive them for sins that would destroy other firms? And as they race to become the world's first trillion-dollar company, can anyone challenge them? In the same irreverent style that has made him one of the world's most celebrated business professors, Galloway deconstructs the strategies of the Four that lurk beneath their shiny veneers. He shows how they manipulate the fundamental emotional needs that have driven us since our ancestors lived in caves, at a speed and scope others can't match. And he reveals how you can apply the lessons of their ascent to your own business or career. Whether you want to compete with them, do business with them, or simply live in the world they dominate, you need to understand the Four.

Decoded is a book like no other: a collection of lyrics and their meanings that together tell the story of a culture, an art form, a moment in history, and one of the most provocative and successful artists of our time. Praise for Decoded "Compelling . . . provocative, evocative . . . Part autobiography, part lavishly illustrated commentary on the author's own work, Decoded gives the reader a harrowing portrait of the rough worlds Jay-Z navigated in his youth, while at the same time deconstructing his lyrics."—Michiko Kakutani, *The New York Times* "One of a handful of books that just about any hip hop fan should own."—*The New Yorker* "Elegantly designed, incisively written . . . an impressive leap by a

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man who has never been known for small steps.”—Los Angeles Times “A riveting exploration of Jay-Z’s journey . . . So thoroughly engrossing, it reads like a good piece of cultural journalism.”—The Boston Globe “Shawn Carter’s most honest airing of the experiences he drew on to create the mythic figure of Jay-Z . . . The scenes he recounts along the way are fascinating.”—Entertainment Weekly “Hip-hop’s renaissance man drops a classic. . . . Heartfelt, passionate and slick.”—Kirkus Reviews (starred review)

A comprehensive guide to using Microsoft Team Foundation Server 2012 Team Foundation Server has become the leading Microsoft productivity tool for software management, and this book covers what developers need to know to use it effectively. Fully revised for the new features of TFS 2012, it provides developers and software project managers with step-by-step instructions and even assists those who are studying for the TFS 2012 certification exam. You'll find a broad overview of TFS, thorough coverage of core functions, a look at extensibility options, and more, written by Microsoft insiders and MVPs. An update of the leading Wrox book on Team Foundation Server, written by an expert team of Microsoft insiders and MVPs Provides a broad overview of Team Foundation Server for developers, software project managers, testers, business analysts, and others wanting to learn how to use TFS Offers administrators the

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necessary tools to efficiently monitor and manage the TFS environment Covers core TFS functions including project management, work item tracking, version control, test case management, build automation, reporting, and how to write extensions for TFS 2012 Professional Team Foundation Server 2012 builds on the proven Wrox Professional formula to give you a solid background in this software management tool.

In complex software projects, managing the development process can be as critical to success as writing the code itself. A project may involve dozens of developers, managers, architects, testers, and customers, hundreds of builds, and thousands of opportunities to get off-track. To keep tabs on the people, tasks, and components of a medium- to large-scale project, most teams use a development system that allows for easy monitoring, follow-up, and accountability. Microsoft Team Foundation Server 2008 (TFS), the server component of Microsoft's Visual Studio Team System (VSTS), provides a powerful collaborative platform for software-development teams. The product offers an integrated toolset for tracking work items, creating test cases, managing source code, generating builds, constructing database schemas, and so on. Because in software development one size does not fit all, TFS provides process customization, project management, and reporting capabilities to build solutions

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around your requirements. Team Foundation Server 2008 in Action is a hands-on guide to Team Foundation Server 2008. Written for developers with a good handle on TFS basics, this book shows you how to solve real-life problems. It's not a repetition of Microsoft's product documentation. Team Foundation Server 2008 in Action is a practitioner's handbook for how to work with TFS under common constraints. This book walks you through real-life software engineering problems based on hundreds of hours of TFS experience. You'll benefit from expert author Jamil Azher's extensive interactions with members of Microsoft's TFS team and MVPs, survey feedback from the author's blog, and interviews with organizations and user groups using TFS. Instead of just offering a high-level overview, the book provides detailed solutions for solving common-and not-so-common-problems using TFS. It discusses the strengths as well as weaknesses of TFS, and suggests appropriate problem resolution steps, workarounds, or custom solutions. 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. MSBuild is more than just a list of source files; it is a declarative programming language, and with the new features in the .Net 4.0 engine, a rather expressive language to boot. This book explores the Microsoft Build Engine used by C#, VB.Net, F# and C++ projects-the 4.0 version shipped with Visual Studio 2010-in

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depth and in a very practical way, full of examples not covered in the reference material (or in the other book on MSBuild). Inside you'll find: How to unify all your projects How to add help to your build How to simulate loops and data joins How to use inline C# code in project files How to enhance logging ...and over 90 additional tips and tricks, and including some extensive walkthroughs of more advanced topics, like dealing with huge projects and rolling your own tool integrations right in the IDE. You can further explore the content with code samples on the Web. So if you've ever found yourself wondering how to get MSBuild to... Perform some simple arithmetic, or a string replacement (see trick #9) Find a subset of files using a complex expression (see trick #11) Specify the folder where MSBuild.exe resides (see trick #6) Fail the build when your custom task shows an error but the build still succeeds (see trick #2) Get you a list of all the referenced assemblies in your project (see trick #72) Get Visual Studio to stop ignoring your customizations (see trick #82) Search for your customizations, without having to hardcode paths (see trick #16) Allow almost any property to be tweaked (see trick #45) Do something that seems too complex for AfterBuild (see trick #23) Extract the branch name from a path (see trick #99) And don't be put off if you're brand new to MSBuild. If you've ever so much as peeked at the XML in a C# project file, you'll be well served by this book. You'll start from first

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principals and the most basic mechanisms of MSBuild and the structure of an MSBuild file will be explained. Each trick is small and digestible and presented in a way that you can try out new techniques with just a few lines of MSBuild in a text file. Most of the tricks are things you can copy directly into your own build files and use that day. While many of the tricks stand on their own, the more complex ones are broken down and presented in sequences that progressively build on one another. You won't need any other book on MSBuild! But if you happen to have the other one, MSBuild Trickery will take you far beyond a reference book, providing practical guidance and preparing you for all of those truly unique gotchas that appear when the build runs. With a foreword by Dan Moseley, Microsoft Senior Development Lead for Visual Studio Project & Build. Other books pay lip service to performance tuning Microsoft SQL Server. This is the only book devoted exclusively to MS SQL Server performance tuning. Focusing on ODBC programming practices, the book covers database design and explains how that relates to performance issues, and covers optimization at both the application and server levels.

A guide to the workings of the common language runtime, Microsoft .NET, and C#.

Now in paperback, the inside story of "the greatest transformation of Microsoft

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since it became a multinational company" Marshall Phelps's remarkable eyewitness story offers lessons for any executive struggling with today's innovation and intellectual property challenges. *Burning the Ships* offers Phelps's dramatic behind-the-scenes account of how he overcame internal resistance and got Microsoft to open up channels of collaboration with other firms. Discover the never-before-told details of Microsoft's secret two-year negotiations with Red Hat and Novell that led to the world's first intellectual property peace treaty and technical collaboration with the open source community. Witness the sometimes-nervous support Bill Gates and CEO Steve Ballmer gave to Phelps in turning their company around 180 degrees from market bully to collaborative industry partner. Offers an extraordinary behind-the-scenes view of the high-level deliberations of the company's senior-most executives, the internal debates and conflicts among executives and rank-and-file employees alike over the company's new collaborative direction. There are lessons in this book for executives in every industry—most especially on the role that intellectual property can play in liberating previously untapped value in a company and opening up powerful new business opportunities in today's era of "open innovation." Here is a powerful inside account of the dawn of a new era at what is arguably the most powerful technology company on earth.

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Dino Esposito's Programming ASP.NET Core is the definitive guide to practical software development with Microsoft's exciting new ASP.NET Core technologies. Unlike competitive books that focus primarily on ASP.NET Core's cross-platform capabilities or only what's changed from earlier versions, Esposito offers a complete learning path for every developer who wants to build production solutions. Esposito's expert coverage includes: Applying all key ASP.NET Core components, including MVC for HTML generation, .NET Core, EF Core, ASP.NET Identity, dependency injection, and more Integrating ASP.NET Core with leading client-side frameworks, including Bootstrap ASP.NET Core code for implementing business logic and data transformations Handling configuration, routing, controllers, views, and common tasks (including posting forms and presenting data) Performing complementary tasks: error handling, logging, application design, authentication, localization, and more Front-end development: ensuring responsiveness, creating mobile views, and providing advanced interactivity Middleware, data access, runtime architecture, and deployment Taking full advantage of the brand-new ASP.NET Core runtime

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