Inside The Microsoft Build Engine Using Msbuild And Team Foundation Build By Hashimi Sayed Ibrahim Published By Microsoft Press 2nd Second Edition 2011 Paperback

"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 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 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.

#1 NEW YORK TIMES BESTSELLER If you want to build a better future, you must believe in secrets. The great secret of our time is that there are still uncharted frontiers to explore and new inventions to create. In Zero to One, legendary entrepreneur and investor Peter Thiel shows how we can find singular ways to create those new things. Thiel begins with the contrarian premise that we live in an age of technological stagnation, even if we're too distracted by shiny mobile devices to notice. Information technology has improved rapidly, but there is no reason why progress should be limited to computers or Silicon Valley. Progress

can be achieved in any industry or area of business. It comes from the most important skill that every leader must master: learning to think for yourself. Doing what someone else already knows how to do takes the world from 1 to n, adding more of something familiar. But when you do something new, you go from 0 to 1. The next Bill Gates will not build an operating system. The next Larry Page or Sergey Brin won't make a search engine. Tomorrow's champions will not win by competing ruthlessly in today's marketplace. They will escape competition altogether, because their businesses will be unique. Zero to One presents at once an optimistic view of the future of progress in America and a new way of thinking about innovation: it starts by learning to ask the questions that lead you to find value in unexpected places.

Market_Desc: Microsoft developers, software project managers, and software testers. Special Features: · A new book for a brand new product---not a new edition!· Authoritative: Written by a team of Microsoft insiders and MVPs; the lead author was voted Microsoft MVP of the Year for Visual Studio Application Lifecycle Management and TFS!· Timely: Expected to be the first book on Team Foundation Server 2010; timed to release prior to Microsoft's planned migration from Visual SourceSafe to TFS.· A Hot Market: TFS is the primary tool that supports Microsoft's Application Lifecycle Management suite of productivity tools.· Builds on Successful Wrox Title: Follows the tutorial style of Wrox's successful Professional Application Lifecycle Management with Visual Studio 2010 (ISBN: 9780470484265).· Certification Test Support: The authors will ensure the book covers all topics required for readers to pass the MCTS 70-512 Certification Exam for Team Foundation Server 2010. About The Book: · 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.· Follows the tutorial style of Wrox's successful Professional Application Lifecycle Management with Visual Studio 2010 (ISBN: 9780470484265).· Provide the TFS Administrator with plenty of detailed knowledge and tools to make them efficient at carrying out their administrative duties and monitoring the health of the TFS environment.· Provide Partners enough knowledge about extensibility options and where to begin to make them proficient at writing extensions for TFS 2010.· Provide certification candidates the knowledge necessary to pass the 70-512 Microsoft Certification exam for TFS 2010.

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

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 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 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.

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 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.

Foreword. A transformed scientific method. Earth and environment. Health and wellbeing. Scientific infrastructure. Scholarly

communication.

Describes how to put software security into practice, covering such topics as risk analysis, coding policies, Agile Methods, cryptographic standards, and threat tree patterns.

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. Reviews Rendering has been a required reference for professional graphics practitioners for nearly a decade. This latest edition is as relevant as ever, 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

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

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.

Microsoft Azure Essentials from Microsoft Press is a series of free ebooks designed to help you advance your technical skills with Microsoft Azure. This third ebook in the series introduces Microsoft Azure Machine Learning, a service that a developer can use to build predictive analytics models (using training datasets from a variety of data sources) and then easily deploy those models for consumption as cloud web services. The ebook presents an overview of modern data science theory and principles, the associated workflow, and then covers some of the more common machine learning algorithms in use today. It builds a variety of predictive analytics models using real world data, evaluates several different machine learning algorithms and modeling strategies, and then deploys the finished models as machine learning web services on Azure within a matter of minutes. The ebook also expands on a working Azure Machine Learning predictive model example to explore the types of client and server applications you can create to consume Azure Machine Learning web services. Watch Microsoft Press's blog and Twitter (@MicrosoftPress) to learn about other free ebooks in the Microsoft Azure Essentials series.

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

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.

Tackle the toughest set-based querying and query tuning problems—guided by an author team with in-depth, inside knowledge of T-SQL. Deepen your understanding of architecture and internals—and gain practical approaches and advanced techniques to optimize your code's performance. Discover how to: Move from procedural programming to the language of sets and logic Optimize query tuning with a top-down methodology Assess algorithmic complexity to predict performance Compare data-aggregation techniques, including new grouping sets Manage data modification—insert, delete, update, merge—for performance Write more efficient queries against partitioned tables Work with graphs, trees, hierarchies, and recursive queries Plus—Use pure-logic puzzles to sharpen your problem-solving skills

We're thrilled to share another free ebook with you: Introducing Microsoft Azure HDInsight, by Avkash Chauhan, Valentine Fontama, Michele Hart, Wee Hyong Tok, and Buck Woody. Here are the download links: Download the PDF (6.37 MB; 130 pages) from http://aka.ms/IntroHDInsight/PDF Download the EPUB (8.46 MB) from http://aka.ms/IntroHDInsight/EPUB Download the MOBI (12.8 MB) from http://aka.ms/IntroHDInsight/MOBI Download the code samples (6.83 KB) from http://aka.ms/IntroHDInsight/CompContent Get a head start evaluating Windows Azure - with technical insights from a Microsoft MVP Mitch Tulloch. This guide introduces the latest features and capabilities, with scenario-based advice on how the platform can meet the needs of your business. Get the high-level overview you need to begin preparing your deployment now. Topics include: Understanding Windows Azure Windows Azure Compute Services Windows Azure Network Services Windows Azure Data Services Windows Azure App Services Getting Started with Windows Azure

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.

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

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 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

Presents a guide to the software build and deployment process using MSBuild.

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 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.

Inside the Microsoft Build EngineUsing MSBuild and Team Foundation BuildPearson Education

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 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

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

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

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 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.

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.

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.

ASP.NET Core in Action, Second Edition is a comprehensive guide to creating web applications with ASP.NET Core 5.0. Go from basic HTTP concepts to advanced framework customization. Summary Fully updated to ASP.NET 5.0, ASP.NET Core in Action, Second Edition is a hands-on primer to building cross-platform web applications with your C# and .NET skills. Even if you've never worked with ASP.NET you'll start creating productive cross-platform web apps fast. And don't worry about late-breaking changes to ASP.NET Core. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Build full-stack web applications that run anywhere. Developers love ASP.NET Core for its libraries and pre-built components that maximize productivity. Version 5.0 offers new features for server-side apps, as well as background services for cross-platform development. About the book ASP.NET Core in Action, Second Edition is a comprehensive guide to creating web applications with ASP.NET Core 5.0. Go from basic HTTP concepts to advanced framework customization. Illustrations and annotated code make learning visual and easy. Master logins, dependency injection, security, and more. This updated edition covers the latest features, including Razor Pages and the new hosting paradigm. What's inside Developing apps for Windows and non-Windows servers Configuring applications Building custom components Logging, testing, and security About the reader For intermediate C# developers. About the author Andrew Lock is a Microsoft MVP who has worked with ASP.NET Core since before its first release. Table of Contents PART 1 - GETTING STARTED WITH ASP.NET CORE 1 Getting started with ASP.NET Core 2 Your first application 3 Handling requests with the middleware pipeline 4 Creating a website with Razor Pages 5 Mapping URLs to Razor Pages using routing 6 The binding model: Retrieving and validating user input 7 Rendering HTML using Razor views 8 Building forms with Tag Helpers 9 Creating a Web API for mobile and client applications using MVC PART 2 - BUILDING COMPLETE APPLICATIONS 10 Service configuration with dependency injection 11 Configuring an ASP.NET Core application 12 Saving data with Entity Framework Core 13 The MVC and Razor Pages filter pipeline 14 Authentication: Adding users to your application with Identity 15 Authorization: Securing your application 16 Publishing and deploying your application PART 3 - EXTENDING YOUR APPLICATIONS 17 Monitoring and troubleshooting errors with logging 18 Improving your application's security 19 Building custom components 20 Building custom MVC and Razor Pages

components 21 Calling remote APIs with IHttpClientFactory 22 Building background tasks and services 23 Testing your application Shows readers how to perform complex data analysis, create reports with the data analysis expressions language, and add hierarchies to data models to enable faster browsing.

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 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

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 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)

"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 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 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.

Summary Deep Learning and the Game of Go teaches you how to apply the power of deep learning to complex reasoning tasks by building a Go-playing AI. After exposing you to the foundations of machine and deep learning, you'll use Python to build a bot and then teach it the rules of the game. Foreword by Thore Graepel, DeepMind Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology The ancient strategy game of Go is an incredible case study for AI. In 2016, a deep learning-based system shocked the Go world by defeating a world champion. Shortly after that, the upgraded AlphaGo Zero crushed the original bot by using deep reinforcement learning to master the game. Now, you can learn those same deep learning techniques by building your own Go bot! About the Book Deep Learning and the Game of Go introduces deep learning by teaching you to build a Go-winning bot. As you progress, you'll apply increasingly complex training techniques and strategies using the Python deep learning library Keras. You'll enjoy watching your bot master the game of Go, and along the way, you'll discover how to apply your new deep learning skills to a wide range of other scenarios! What's inside Build and teach a self-improving game AI Enhance classical game AI systems with deep learning Implement neural networks for deep learning About the Reader All you need are basic Python skills and high school-level math. No deep learning experience required. About the Author Max Pumperla and Kevin Ferguson are experienced deep learning specialists skilled in distributed

systems and data science. Together, Max and Kevin built the open source bot BetaGo. Table of Contents PART 1 - FOUNDATIONS Toward deep learning: a machine-learning introduction Go as a machine-learning problem Implementing your first Go bot PART 2 - MACHINE LEARNING AND GAME AI Playing games with tree search Getting started with neural networks Designing a neural network for Go data Learning from data: a deep-learning bot Deploying bots in the wild Learning by practice: reinforcement learning Reinforcement learning with policy gradients Reinforcement learning with value methods Reinforcement learning with actor-critic methods PART 3 - GREATER THAN THE SUM OF ITS PARTS AlphaGo: Bringing it all together AlphaGo Zero: Integrating tree search with reinforcement learning

Shortlisted for the 2021 Booker Prize Longlisted for the 2021 National Book Award for Fiction A heartrending new novel from the Pulitzer Prize–winning and #1 New York Times best-selling author of The Overstory. Named one of the Most Anticipated Books of 2021 by Newsweek, Los Angeles Times, New York Magazine, Chicago Tribune, BuzzFeed, BookPage, Goodreads, Literary Hub, The Millions, New Statesman, and Times of London The astrobiologist Theo Byrne searches for life throughout the cosmos while single-handedly raising his unusual nine-year-old, Robin, following the death of his wife. Robin is a warm, kind boy who spends hours painting elaborate pictures of endangered animals. He's also about to be expelled from third grade for smashing his friend in the face. As his son grows more troubled, Theo hopes to keep him off psychoactive drugs. He learns of an experimental neurofeedback treatment to bolster Robin's emotional control, one that involves training the boy on the recorded patterns of his mother's brain… With its soaring descriptions of the natural world, its tantalizing vision of life beyond, and its account of a father and son's ferocious love, Bewilderment marks Richard Powers's most intimate and moving novel. At its heart lies the question: How can we tell our children the truth about this beautiful, imperiled planet?

The Microsoft Technology Associate certification (MTA) curriculum helps instructors teach and validate fundamental technology concepts with a foundation for students' careers as well as the confidence they need to succeed in advanced studies. Through the use of MOAC MTA titles you can help ensure your students future success in and out of the classroom. This MTA text covers the following HTML5 Application vital fundamental skills: • Manage the Application Life Cycle • Build the User Interface by Using HTML5 • Format the User Interface by Using CSS • Code by Using JavaScript Click here to learn more about the Microsoft Technology Associate (MTA), a new and innovative certification track designed to provide a pathway for future success in technology courses and careers.

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. 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 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.
* WALL STREET JOURNAL BESTSELLER * An insider's account of Apple's creative process during the golden years of Steve Jobs. Hundreds of millions of people use Apple products every day; several thousand work on Apple's campus in Cupertino, California; but only a handful sit at the drawing board. Creative Selection recounts the life of one of the few who worked behind the scenes, a highly-respected software engineer who worked in the final years of the Steve Jobs era—the Golden Age of Apple. Ken Kocienda offers an inside look at Apple's creative process. For fifteen years, he was on the ground floor of the company as a specialist, directly responsible for experimenting with novel user interface concepts and writing powerful, easy-to-use software for products including the iPhone, the iPad, and the Safari web browser. His stories explain the symbiotic relationship between software and product development for those who have never dreamed of programming a computer, and reveal what it was like to work on the cutting edge of technology at one of the world's most admired companies. Kocienda shares moments of struggle and success, crisis and collaboration, illuminating each with lessons learned over his Apple career. He introduces the essential elements of innovation—inspiration, collaboration, craft, diligence, decisiveness, taste, and empathy—and uses these as a lens through

which to understand productive work culture. An insider's tale of creativity and innovation at Apple, Creative Selection shows readers how a small group of people developed an evolutionary design model, and how they used this methodology to make groundbreaking and intuitive software which countless millions use every day.

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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