Asynccandidate

Richard Blewett, Andrew Clymer, Rock Solid Knowledge Ltd

You Don't Know JS: Async & Performance Kyle Simpson, 2015-02-23 No matter how much experience you have with JavaScript, odds are you don't fully understand the language. As part of the You Don't Know JS series, this concise yet in-depth guide focuses on new asynchronous features and performance techniques—including Promises, generators, and Web Workers—that let you create sophisticated single-page web applications and escape callback hell in the process. Like other books in this series, You Don't Know JS: Async & Performance dives into trickier parts of the language that many JavaScript programmers simply avoid. Armed with this knowledge, you can become a true JavaScript master. With this book you will: Explore old and new JavaScript methods for handling asynchronous programming Understand how callbacks let third parties control your program's execution Address the inversion of control issue with JavaScript Promises Use generators to express async flow in a sequential, synchronous-looking fashion Tackle program-level performance with Web Workers, SIMD, and asm.js Learn valuable resources and techniques for benchmarking and tuning your expressions and statements

The Async-First Playbook Sumeet Gayathri Moghe,2023-09-20 Reimagining Agile for Distributed and Remote Teams Distributed work is now inevitable, but conventional agile approaches are too synchronous for today's remote teams. Meetings, ceremonies, and rituals can become unsustainable when teams are scattered across the globe. The result: burnout, constant interruptions, a lack of deep work, poor work-life balance, greater frustration, and workplaces with poor diversity. In The Async-First Playbook, Thoughtworks Principal Product Manager Sumeet Gayathri Moghe provides tools and

techniques to embed remote-native, asynchronous practices into traditional agile methods, making remote work more efficient, inclusive, thoughtful, and fun. Drawing on extensive experience leading distributed teams, Moghe addresses the nuts and bolts of specific practices and the crucial softer elements such as culture, mindset, and leadership. Short, practical chapters show how to adapt traditional agile techniques such as sprints and pair programming for the realities of today's distributed environments. Whatever your project, you'll learn how to create asynchronous environments that promote success, improve the workplace experience, and deliver better results. Discover why asynchronous collaboration is crucial to your project's success Learn the tools, skills, and protocols you need to get right in order to go async-first Map current agile techniques to async-first versions that better reflect today's realities Become a more supportive and effective leader of async-first teams Anticipate, navigate, and mitigate the pitfalls of async-first distributed work Bring it all together--walk through your async-first transition Access valuable resources, examples, and hands-on templates at the companion website This playbook will empower you to lead and build differently. All that you need is an open mind and a belief that the status quo isn't worthy of defining the future. --From the Foreword by Darren Murph Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

Entity Framework Core in Action, Second Edition Jon P Smith, 2021-07-13 The most comprehensive reference for EF Core that does—or ever will—exist. - Stephen Byrne, Intel Corporation Entity Framework Core in Action, Second Edition teaches you to write flawless database interactions for .NET applications. Summary Entity Framework Core in

Action, Second Edition is an in-depth guide to reading and writing databases with EF Core. Revised from the bestselling original edition, it's filled with over 100 diagrams, code snippets, and examples—including building and scaling your own bookselling web application. Learn from author Jon Smith's extensive experience working with EF Core in production, as you discover time-saving patterns and best practices for security, performance tuning, and unit testing. All of the book's code is available on GitHub. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Entity Framework radically simplifies data access in .NET applications. This easy-to-use object-relational mapper (ORM) lets you write database code in pure C#. It automatically maps classes to database tables and enables queries with standard LINQ commands. It even generates SQL, so you don't have to! About the book Entity Framework Core in Action, Second Edition teaches you to write flawless database interactions for .NET applications. Following relevant examples from author Jon Smith's extensive experience, you'll progress guickly from EF basics to advanced techniques. In addition to the latest EF features, this book addresses performance, security, refactoring, and unit testing. This updated edition also contains new material on NoSQL databases. What's inside Configure EF to define every table and column Update your schema as your app grows Integrating EF with existing C# application Write and test business logic for database access Applying a Domain-Driven Design to EF Core Getting the best performance out of EF Core About the reader For .NET developers familiar with relational databases. About the author Jon P. Smith is a freelance software developer and architect with a special focus on .NET and Azure. Table

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Entity Framework Core in Action, Second Edition Jon Smith,2021-06-08 Entity Framework Core in Action, Second Edition teaches you to write flawless database interactions for .NET applications. Following relevant examples from author Jon Smith's extensive experience, you'll progress quickly from EF basics to advanced techniques. In addition to the latest EF features, this book addresses performance, security, refactoring, and unit testing. This updated edition also contains new material on NoSQL databases.

Languages and Compilers for Parallel Computing José Nelson Amaral, 2008-12 This book constitutes the thoroughly refereed post-conference proceedings of the 21th International Workshop on Languages and Compilers for Parallel Computing, LCPC 2008, held in Edmonton, Canada, in July/August 2008. The 18 revised full papers and 6 revised short papers presented were carefully reviewed and selected from 35 submissions. The papers address all aspects of languages, compiler techniques, run-time environments, and compiler-related performance evaluation for parallel and high-performance computing and

comprise also presentations on program analysis that are precursors of high performance in parallel environments.

Universal Windows Apps with XAML and C# Unleashed Adam Nathan, 2015-02-03 Full Color: Figures and code appear as they do in Visual Studio. Universal Windows apps are a total game-changer. You can now write once and deploy your app to any modern PC, tablet, phone, or other Windows device. Suddenly, it's quick and easy to serve new devices and form factors, sharing unified assets ranging from code to styles to user controls. It has never been easier to reach multiple-device markets! Now, the world's #1 expert on Microsoft XAML brings together all the knowledge Windows developers need to build universal apps that adapt smoothly for any device running Windows 8.1, Windows Phone 8.1, or their successors. Drawing on his unsurpassed personal experience and direct input from Microsoft's Windows and Visual Studio teams, Adam Nathan illuminates core development concepts, answers your most important questions, and candidly assesses the technology's strengths and limitations. This full-color guide walks you through every key task involved in building a universal Windows app: layout and input, working with the app model, using advanced controls, leveraging XAML's powerful rich media features, and much more. Detailed information on how to... Quickly build universal, localized apps that exploit the vast global scale of the Windows Store Size, position, and transform elements within layouts that gracefully adapt to different devices Handle input from touch, mouse, pen, keyboard, and any sensor Monetize apps with Windows Store sales, in-app purchases, and advertising Make the most of controls for managing content, items, text, images, media, speech, and more Create efficient 2D vector graphics and animations Use styles,

templates, and visual states to redesign controls without losing functionality Bind data sources to simplify data presentation and updates Easily integrate data from apps, users, and networks Support Windows app commands: Search, Share, Print, Play, Project, Settings Use contracts to build apps that cooperate to perform complex tasks Improve the user experience even when your app isn't running

Windows 8.1 Apps with XAML and C# Sams Teach Yourself in 24 Hours Adam Nathan, 2014-05-26 Learn how to build great Windows Store apps! Figures and code appear as they do in Visual Studio. In just 24 sessions of one hour or less, Sams Teach Yourself Windows 8.1 Apps with XAML and C# in 24 Hours will help you build compelling apps for Windows 8.1 devices of all kinds. Using this book's straightforward approach, you'll learn to design and build apps, create flexible user interfaces, handle inputs, integrate controls, and more. Step by step, you'll discover how to leverage XAML's visual richness and the immense power of Windows 8.1. Every lesson builds on what you've already learned, giving you a rock-solid foundation for real-world success! Step-by-step instructions carefully walk you through today's most common XAML and C# development tasks. Quizzes at the end of each chapter help you test your knowledge. Notes present interesting information related to the discussion. Tips offer advice or show you easier ways to perform tasks. Cautions alert you to possible problems and give you advice on how to avoid them. Learn how to... Create user interfaces that adapt to any device, from tablets to high-def TVs Handle input from touch, mouse, pen, and keyboard Manage the entire Windows 8.1 app lifecycle and all execution states Master powerful XAML controls for text, images, audio, video, and more Integrate vector graphics that scale perfectly to any

size Apply rich animations Work with styles, templates, and visual states Exploit the Windows charms within your apps Take full advantage of data binding and contracts Read data from sensors and control external devices Provide dynamic updates via live tiles, notifications, and the lock screen Discover the many ways to monetize your Windows Store apps

Windows 8.1 Apps with XAML and C# Unleashed Adam Nathan, 2013-12-09 Full color: Learn how to build great Windows Store apps! Figures and code appear as they do in Visual Studio. Windows 8.1 enables you to build stunning applications that integrate with each other, Web services, and Windows itself. You can sell them in the Windows Store, with more options than ever before, for tablets such as Surface, laptops, and traditional desktop PCs! World-renowned Microsoft programming guru Adam Nathan shows you exactly how to write first-class apps for this significant update to Windows. Don't let the minor name change fool you--Windows 8.1 contains an incredible amount of new developer opportunities compared to Windows 8. Clear, accessible, and intensely practical, this guide teaches through concise code examples, in full color to match their appearance in Visual Studio--the same approach that made Nathan's WPF Unleashed so popular. Writing with unprecedented depth and insight, Nathan guides you through creating advanced user interfaces with XAML and exploiting key Windows 8.1 features. Whether you're already comfortable with Microsoft programming or relatively new to it, Windows 8.1 Apps with XAML and C# Unleashed will take you to the cutting edge of Windows 8.1 development. Detailed information on how to... Use XAML to represent stateof-the-art user interfaces, even across multiple windows Handle touch, mouse, keyboard,

and pen input, including handwriting recognition Use new Windows 8.1 controls for creating hubs, flyouts, better app bars, performing in-app searches, rendering PDFs, and much more Encode, decode, and transcode multimedia content and speech-enable your app Leverage rich XAML vector graphics and animation Interact with built-in functionality such as the Camera app, file picker, the lock screen, new contacts and appointments integration, and more Exploit the Windows 8.1 charms bar Integrate DirectX graphics seamlessly Work with the rich set of available sensors: accelerometer, compass, light sensor, location (with geofencing support), proximity, and more Control devices such as fingerprint readers, image and bar code scanners, magnetic stripe readers, and custom Bluetooth, USB, HID, or Wi-Fi Direct devices

Async in C# 5.0 Alex Davies,2012-09-07 If you're writing one of several applications that call for asynchronous programming, this concise hands-on guide shows you how the async feature in C# 5.0 can make the process much simpler. Along with a clear introduction to asynchronous programming, you get an in-depth look at how the async feature works and why you might want to use it in your application. Written for experienced C# programmers—yet approachable for beginners—this book is packed with code examples that you can extend for your own projects. Write your own asynchronous code, and learn how async saves you from this messy chore Discover new performance possibilities in ASP.NET web server code Explore how async and WinRT work together in Windows 8 applications Learn the importance of the await keyword in async methods Understand which .NET thread is running your code—and at what points in the program Use the Task-based Asynchronous Pattern (TAP) to write asynchronous APIs in .NET Take

advantage of parallel computing in modern machines Measure async code performance by comparing it with alternatives

Entity Framework Core in Action Jon Smith, 2018-07-15 Summary Entity Framework Core in Action teaches you how to access and update relational data from .NET applications. Following the crystal-clear explanations, real-world examples, and around 100 diagrams, you'll discover time-saving patterns and best practices for security, performance tuning, and unit testing. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology There's a mismatch in the way OO programs and relational databases represent data. Entity Framework is an object-relational mapper (ORM) that bridges this gap, making it radically easier to query and write to databases from a .NET application. EF creates a data model that matches the structure of your OO code so you can guery and write to your database using standard LINQ commands. It will even automatically generate the model from your database schema. About the Book Using crystal-clear explanations, real-world examples, and around 100 diagrams, Entity Framework Core in Action teaches you how to access and update relational data from .NET applications. You'l start with a clear breakdown of Entity Framework, long with the mental model behind ORM. Then you'll discover timesaving patterns and best practices for security, performance tuning, and even unit testing. As you go, you'll address common data access challenges and learn how to handle them with Entity Framework. What's Inside Querying a relational database with LINQ Using EF Core in business logic Integrating EF with existing C# applications Applying domaindriven design to EF Core Getting the best performance out of EF Core Covers EF Core 2.0

and 2.1 About the Reader For .NET developers with some awareness of how relational databases work. About the Author Jon P Smith is a full-stack developer with special focus on .NET Core and Azure. Table of Contents Part 1 - Getting started Introduction to Entity FrameworkCore Querying the database Changing the database content Using EF Core in business logic Using EF Core in ASP.NET Core web applications Part 2 - Entity Framework in depth Configuring nonrelational properties Configuring relationships Configuring advanced features and handling concurrency conflicts Going deeper into the DbContext Part 3 - Using Entity Framework Core in real-world applications Useful software patterns for EF Core applications Handling database migrations EF Core performance tuning A worked example of performance tuning Different database types and EF Core services Unit testing EF Core applications Appendix A - A brief introduction to LINQ Appendix B - Early information on EF Core version 2.1

Pro Asynchronous Programming with .NET Richard Blewett, Andrew Clymer, Rock Solid Knowledge Ltd, 2014-01-22 Pro Asynchronous Programming with .NET teaches the essential skill of asynchronous programming in .NET. It answers critical questions in .NET application development, such as: how do I keep my program responding at all times to keep my users happy? how do I make the most of the available hardware? how can I improve performance? In the modern world, users expect more and more from their applications and devices, and multi-core hardware has the potential to provide it. But it takes carefully crafted code to turn that potential into responsive, scalable applications. With Pro Asynchronous Programming with .NET you will: Meet the underlying model for asynchrony on Windows—threads. Learn how to perform long blocking operations away

from your UI thread to keep your UI responsive, then weave the results back in as seamlessly as possible. Master the async/await model of asynchrony in .NET, which makes asynchronous programming simpler and more achievable than ever before. Solve common problems in parallel programming with modern async techniques. Get under the hood of your asynchronous code with debugging techniques and insights from Visual Studio and beyond. In the past asynchronous programming was seen as an advanced skill. It's now a must for all modern developers. Pro Asynchronous Programming with .NET is your practical guide to using this important programming skill anywhere on the .NET platform.

Architecting Angular Applications with Redux, RxJS, and NgRx Christoffer Noring,2018-03-26 Managing the state of large-scale web applications is a highly challenging task with the need to align different components, backends, and web workers harmoniously. When it comes to Angular, you can use NgRx, which combines the simplicity of Redux with the reactive programming power of RxJS to build your application architecture, making your ...

Big Data Analytics Ladjel Bellatreche, Vikram Goyal, Hamido Fujita, Anirban Mondal, P. Krishna Reddy, 2021-01-02 This book constitutes the proceedings of the 8th International Conference on Big Data Analytics, BDA 2020, which took place during December 15-18, 2020, in Sonepat, India. The 11 full and 3 short papers included in this volume were carefully reviewed and selected from 48 submissions; the book also contains 4 invited and 3 tutorial papers. The contributions were organized in topical sections named as follows: data science systems; data science architectures; big data analytics in healthcare; information interchange of Web data resources; and business analytics.

Using Asyncio in Python Caleb Hattingh, 2020-01-30 If you're among the Python developers put off by asyncio's complexity, it's time to take another look. Asyncio is complicated because it aims to solve problems in concurrent network programming for both framework and end-user developers. The features you need to consider are a small subset of the whole asyncio API, but picking out the right features is the tricky part. That's where this practical book comes in. Veteran Python developer Caleb Hattingh helps you gain a basic understanding of asyncio's building blocks—enough to get started writing simple event-based programs. You'll learn why asyncio offers a safer alternative to preemptive multitasking (threading) and how this API provides a simpleway to support thousands of simultaneous socket connections. Get a critical comparison of asyncio and threading for concurrent network programming Take an asyncio walk-through, including a quickstart quidefor hitting the ground looping with event-based programming Learn the difference between asyncio features for end-user developers and those for framework developers Understand asyncio's new async/await language syntax, including coroutines and task and future APIs Get detailed case studies (with code) of some popular asynciocompatible third-party libraries

Blockchain in Action Bina Ramamurthy,2020-09-22 There's a lot more to the blockchain than mining Bitcoin. This secure system for registering and verifying ownership and identity is perfect for supply chain logistics, health records, and other sensitive data management tasks. Blockchain in Action unlocks the full potential of this revolutionary technology, showing you how to build your own decentralized apps for secure applications including digital democracy, private auctions, and electronic record

management. Summary There's a lot more to the blockchain than mining Bitcoin. This secure system for registering and verifying ownership and identity is perfect for supply chain logistics, health records, and other sensitive data management tasks. Blockchain in Action unlocks the full potential of this revolutionary technology, showing you how to build your own decentralized apps for secure applications including digital democracy, private auctions, and electronic record management. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Blockchain is more than just the tech behind Bitcoin—much more! Combining impenetrable security, decentralized transactions, and independently verifiable supply chains, blockchain applications have transformed currency, digital identity, and logistics. Platforms such as Ethereum and Hyperledger make it easy to get started by using familiar programming languages. About the book Blockchain in Action teaches you how to design and build blockchain-based decentralized apps, and is written in a clear, jargon-free style. First, you'll get an overview of how blockchain works. Next, you'll code your first smart contract using Ethereum and Solidity, adding a web interface, trust validation, and other features until your app is ready for deployment. The only thing you need to get started is standard hardware and open source software. What's inside Blockchain compared with other distributed systems Development in Solidity Identity, privacy, and security On-chain and off-chain data and operations About the reader For programmers who know JavaScript. About the author Bina Ramamurthy has thirty years of experience teaching distributed systems, data science, peer-to-peer networking, and blockchain. Table of Contents PART 1 - GETTING STARTED WITH BLOCKCHAIN PROGRAMMING 1

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Building Microservices Sam Newman, 2021-07-24 As organizations shift from monolithic applications to smaller, self-contained microservices, distributed systems have become more fine-grained. But developing these new systems brings its own host of problems. This expanded second edition takes a holistic view of topics that you need to consider when building, managing, and scaling microservices architectures. Through clear examples and practical advice, author Sam Newman gives everyone from architects and developers to testers and IT operators a firm grounding in the concepts. You'll dive into the latest solutions for modeling, integrating, testing, deploying, and monitoring your own autonomous services. Real-world cases reveal how organizations today manage to get the most out of these architectures. Microservices technologies continue to move quickly. This book brings you up to speed. Get new information on user interfaces, container orchestration, and serverless Align system design with your organization's goals Explore options for integrating a service with your system Understand how to independently deploy microservices Examine the complexities of testing and monitoring distributed services Manage security with expanded content around user-to-service and service-toservice models

Integration of IBM Aspera Sync with IBM Spectrum Scale: Protecting and Sharing Files Globally Nils Haustein, Jose M Gomez, Benjamin C Forsyth, IBM Redbooks, 2019-03-29 Economic globalization requires data to be available globally. With most data stored in file systems, solutions to make this data globally available become more important. Files that are in file systems can be protected or shared by replicating these files to another file system that is in a remote location. The remote location might be just around the corner or in a different country. Therefore, the techniques that are used to protect and share files must account for long distances and slow and unreliable wide area network (WAN) connections. IBM® Spectrum Scale is a scalable clustered file system that can be used to store all kinds of unstructured data. It provides open data access by way of Network File System (NFS); Server Message Block (SMB); POSIX Object Storage APIs, such as S3 and OpenStack Swift; and the Hadoop Distributed File System (HDFS) for accessing and sharing data. The IBM Aspera® file transfer solution (IBM Aspera Sync) provides predictable and reliable data transfer across large distance for small and large files. The combination of both can be used for global sharing and protection of data. This IBM RedpaperTM publication describes how IBM Aspera Sync can be used to protect and share data that is stored in IBM SpectrumTM Scale file systems across large distances of several hundred to thousands of miles. We also explain the integration of IBM Aspera Sync with IBM Spectrum ScaleTM and differentiate it from solutions that are built into IBM Spectrum Scale for protection and sharing. We also describe different use cases for IBM Aspera Sync with IBM Spectrum Scale.

Parallel Programming and Concurrency with C# 10 and .NET 6 Alvin

Ashcraft, 2022-08-30 Leverage the latest parallel and concurrency features in .NET 6 when building your next application and explore the benefits and challenges of asynchrony, parallelism, and concurrency in .NET via practical examples Key FeaturesLearn to implement parallel programming and handle concurrency in .NET efficientlySwitch threads while debugging and learn how to monitor specific threads in Visual StudioDiscover how to cancel tasks with callbacks, by polling, or by using a task with wait handlesBook Description .NET has included managed threading capabilities since the beginning, but early techniques had inherent risks: memory leaks, thread synchronization issues, and deadlocks. This book will help you avoid those pitfalls and leverage the modern constructs available in .NET 6 and C# 10, while providing recommendations on patterns and best practices for parallelism and concurrency. Parallel, concurrent, and asynchronous programming are part of every .NET application today, and it becomes imperative for modern developers to understand how to effectively use these techniques. This book will teach intermediate-level .NET developers how to make their applications faster and more responsive with parallel programming and concurrency in .NET and C# with practical examples. The book starts with the essentials of multi-threaded .NET development and explores how the language and framework constructs have evolved along with .NET. You will later get to grips with the different options available today in .NET 6, followed by insights into best practices, debugging, and unit testing. By the end of this book, you will have a deep understanding of why, when, and how to employ parallelism and concurrency in any .NET application. What you will learnPrevent deadlocks and race conditions with managed threading Update Windows app UIs without

causing exceptionsExplore best practices for introducing asynchronous constructs to existing codeAvoid pitfalls when introducing parallelism to your codeImplement the producer-consumer pattern with Dataflow blocksEnforce data sorting when processing data in parallel and safely merge data from multiple sourcesUse concurrent collections that help synchronize data across threadsDebug an everyday parallel app with the Parallel Stacks and Parallel Tasks windowsWho this book is for This book is for beginner to intermediate-level .NET developers who want to employ the latest parallel and concurrency features in .NET when building their applications. Readers should have a solid understanding of the C# language and any version of the .NET Framework or .NET Core.

Async JavaScript Trevor Burnham, 2012-11-28 With the advent of HTML5, front-end MVC, and Node.js, JavaScript is ubiquitous--and still messy. This book will give you a solid foundation for managing async tasks without losing your sanity in a tangle of callbacks. It's a fast-paced guide to the most essential techniques for dealing with async behavior, including PubSub, evented models, and Promises. With these tricks up your sleeve, you'll be better prepared to manage the complexity of large web apps and deliver responsive code. With Async JavaScript, you'll develop a deeper understanding of the JavaScript language. You'll start with a ground-up primer on the JavaScript event model--key to avoiding many of the most common mistakes JavaScripters make. From there you'll see tools and design patterns for turning that conceptual understanding into practical code. The concepts in the book are illustrated with runnable examples drawn from both the browser and the Node.js server framework, incorporating complementary libraries

including jQuery, Backbone.js, and Async.js. You'll learn how to create dynamic web pages and highly concurrent servers by mastering the art of distributing events to where they need to be handled, rather than nesting callbacks within callbacks within callbacks. Async JavaScript will get you up and running with real web development quickly. By the time you've finished the Promises chapter, you'll be parallelizing Ajax requests or running animations in sequence. By the end of the book, you'll even know how to leverage Web Workers and AMD for JavaScript applications with cutting-edge performance. Most importantly, you'll have the knowledge you need to write async code with confidence. What You Need: Basic knowledge of JavaScript is recommended. If you feel that you're not up to speed, see the Resources for Learning JavaScript section in the preface.

FastAPI Bill Lubanovic,2023-11-06 FastAPI is a young yet solid framework that takes advantage of newer Python features in a clean design. As its name implies, FastAPI is indeed fast, rivaling similar frameworks in languages such as Golang. With this practical book, developers familiar with Python will learn how FastAPI lets you accomplish more in less time with less code. Author Bill Lubanovic covers the nuts and bolts of FastAPI development with how-to guides on various topics such as forms, database access, graphics, maps, and more that will take you beyond the basics. This book also includes how-to guides that will get you up to speed on RESTful APIs, data validation, authorization, and performance. With its similarities to frameworks like Flask and Django, you'll find it easy to get started with FastAPI. Through the course of this book, you will: Learn how to build web applications with FastAPI Understand the differences between FastAPI, Starlette, and pydantic Learn two features that set FastAPI apart: asynchronous

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