Reactive Extensions Team Blog

Tomasz Nurkiewicz, Ben Christensen

Silverlight 5 in Action Pete Brown, 2012-05-31 Summary A thorough revision of the bestselling Silverlight 4 in Action. This comprehensive guide teaches Silverlight from the ground up, covering all the new v. 5 features in depth. You'll also explore WCF RIA Services, MVVM, and more-with dozens of code samples you can use in Visual Studio 2010 or the free Visual Web Developer 2010 Express. About the Book This hands-on guide explores Silverlight from the ground up, covering every feature in rich, practical detail. It is readable and the coverage is comprehensive. You'll master networking, MVVM, and more-with dozens of code samples you can use in Visual Studio or the free Visual Web Developer Express. Silverlight 5 in Action teaches you how to build desktop-quality applications you can deploy on the web. Beginners will appreciate the progression from simple examples to full applications that employ good design and coding practices. Seasoned . NET developers will love how the sample code embraces and extends what they already know. 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. What's Inside 2D and 3D graphics and animation Business application services, rules, and validation The MVVM pattern and testing Free appendixes (150 pages) available online A background in C# or VB.NET is helpful, but no knowledge of Silverlight or Contents PART 1 CORE SILVERLIGHT PART 2 CREATING THE USER INTERFACE PART 3 WORKING WITH DATA AND SERVICES PART 4 2D AND 3D GRAPHICS PART 5 MAKING THE MOST OF THE PLATFORM PART 6 BEST PRACTICES Introducing Silverlight XAML and the property system The application model and the plug-in Working with HTML and browsers Out-of-browser applications The security model and elevated trust Rendering, layout, and transforming Panels Human input Text fundamentals Editing plain and rich text Control basics and UserControls Animation and behaviors Resources, styles, and control templates Extensions, converters, custom controls, and panels Binding Data controls: DataGrid and DataForm Input validation Networking basics Working with SOAP services RESTful services with the ASP.NET Web API Working with XML, JSON, RSS, and Atom Duplex, sockets, and local connections Graphics and effects Working with images Introduction to 3D 3D lighting, texturing, and animation Pop-ups, windows, and full-screen applications Navigation Working with files and directories Printing COM, Native Extensions, and p-invoke Structuring and testing with the MVVM pattern Debugging your application The install experience and preloaders

Reactive Programming for .NET Developers Antonio Esposito, Michael Ciceri, 2016-07-29 Get up and running with reactive programming paradigms to build fast, concurrent, and powerful applications About This Book Get to grips with the core design principles of reactive programming Learn about Reactive Extensions for .NET through real-world examples Improve your problem-solving ability by applying functional programming Who This Book Is For If you are a .NET developer who wants to implement all the reactive programming paradigm techniques to create better and more efficient code, then this is the book for you. No prior knowledge of reactive programming is expected. What You Will Learn Create, manipulate, and aggregate sequences in a functional-way Query observable data streams using standard LINQ query operators Program reactive observers and observable collections with C# Write concurrent programs with ease, scheduling actions on various workers Debug,

analyze, and instrument Rx functions Integrate Rx with CLR events and custom scheduling Learn Functional Reactive Programming with F# In Detail Reactive programming is an innovative programming paradigm focused on time-based problem solving. It makes your programs better-performing, easier to scale, and more reliable. Want to create fast-running applications to handle complex logics and huge datasets for financial and big-data challenges? Then you have picked up the right book! Starting with the principles of reactive programming and unveiling the power of the pull-programming world, this book is your one-stop solution to get a deep practical understanding of reactive programming techniques. You will gradually learn all about reactive extensions, programming, testing, and debugging observable sequence, and integrating events from CLR data-at-rest or events. Finally, you will dive into advanced techniques such as manipulating time in data-flow, customizing operators and providers, and exploring functional reactive programming. By the end of the book, you'll know how to apply reactive programming to solve complex problems and build efficient programs with reactive user interfaces. Style and approach This is a concise reference manual for reactive programming with Rx for C# and F# using real-world, practical examples.

Web Content Rx Wayne English,2009-05-28 Web Content Rx is a hands-on primer that shows anyone-even technical novice-show to write high-quality, keywordladen, search engine optimized Web content. Based on the latest research on how people read the Web, it also includes numerous tips, tricks, and techniques on writing a blog, training, and creating an audio or video podcast. This must-have reference is for anyone working on the Web. Webmasters can avoid losing projects for lack of content. Business people can now create effective, readily understood Web content about their services or products. eBay sellers can create powerful online advertisements and photograph your products to maximize their appeal. Technical writers, and those who write for industry, will appreciate the extensive safety-related material.

Programming Reactive Extensions and LINQ Jesse Liberty, Paul Betts, 2012-02-01 Pro Reactive Extensions and LINQ is a deep dive into the next important technology for .NET developers: Reactive Extensions. This indepth tutorial goes beyond what is available anywhere else to teach how to write WPF, Silverlight, and Windows Phone applications using the Reactive Extensions (Rx) to handle events and asynchronous method calls. Reactive programming allows you to turn those aspects of your code that are currently imperative into something much more event-driven and flexible. For this reason, it's sometimes referred to as LINQ for Events. Reactive programming hinges on the concept of the observable collection, as opposed to the simple enumerable collection with which we're all familiar. For example, to extract data from a collection and add it to a list box, you would traditionally iterate through the list box, extracting each object in turn. This approach works fine, but it requires significant knowledge about the data you're working with, which can be limiting. In Rx programming, you're instead informed about each object in turn and then free to react to each notification however you like, which affords much greater flexibility. This book shows you how reactive programming can be applied to a range of situations-from WPF applications to Windows Phone apps-to improve coding efficiency and boost performance.

Rx.NET in Action Tamir Dresher, 2017-04-20 Summary Rx.NET in Action teaches

developers how to build event-driven applications using the Reactive Extensions (Rx) library. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Modern applications must react to streams of data such as user and system events, internal messages, and sensor input. Reactive Extensions (Rx) is a .NET library containing more than 600 operators that you can compose together to build reactive client- and server-side applications to handle events asynchronously in a way that maximizes responsiveness, resiliency, and elasticity. About the Book Rx.NET in Action teaches developers how to build event-driven applications using the Rx library. Starting with an overview of the design and architecture of Rx-based reactive applications, you'll get hands-on with in-depth code examples to discover firsthand how to exploit the rich query capabilities that Rx provides and the Rx concurrency model that allows you to control both the asynchronicity of your code and the processing of event handlers. You'll also learn about consuming event streams, using schedulers to manage time, and working with Rx operators to filter, transform, and group events. What's Inside Introduction to Rx in C# Creating and consuming streams of data and events Building complex queries on event streams Error handling and testing Rx code About the Reader Readers should understand OOP concepts and be comfortable coding in C#. About the Author Tamir Dresher is a senior software architect at CodeValue and a prominent member of Israel's Microsoft programming community. Table of Contents PART 1 - GETTING STARTED WITH REACTIVE EXTENSIONS Reactive programming Hello, Rx Functional thinking in C# PART 2 - CORE IDEAS Creating observable sequences Creating observables from .NET asynchronous types Controlling the observerobservable relationship Controlling the observable temperature Working with basic guery operators Partitioning and combining observables Working with Rx concurrency and synchronization Error handling and recovery APPENDIXES Writing asynchronous code in .NET The Rx Disposables library Testing Rx queries and operators

Reactive Programming with RxJava Tomasz Nurkiewicz, Ben

Christensen, 2016-10-06 In today's app-driven era, when programs are asynchronous and responsiveness is so vital, reactive programming can help you write code that's more reliable, easier to scale, and better-performing. With this practical book, Java developers will first learn how to view problems in the reactive way, and then build programs that leverage the best features of this exciting new programming paradigm. Authors Tomasz Nurkiewicz and Ben Christensen include concrete examples that use the RxJava library to solve real-world performance issues on Android devices as well as the server. You'll learn how RxJava leverages parallelism and concurrency to help you solve today's problems. This book also provides a preview of the upcoming 2.0 release. Write programs that react to multiple asynchronous sources of input without descending into callback hell Get to that aha! moment when you understand how to solve problems in the reactive way Cope with Observables that produce data too quickly to be consumed Explore strategies to debug and to test programs written in the reactive style Efficiently exploit parallelism and concurrency in your programs Learn about the transition to RxJava version 2

Reactive Programming in Kotlin Rivu Chakraborty,2017-12-05 Learn how to implement Reactive Programming paradigms with Kotlin, and apply them to web programming with Spring Framework 5.0 and in Android Application Development.

About This Book Learn how to solve blocking user experience with Reactive Programming and get deep insights into RxKotlin Integrate Reactive Kotlin with Spring and build fantastic Android Apps with RxKotlin and RxAndroid Build reactive architectures that reduce complexity throughout the development process and make your apps(web and Android) scalable Who This Book Is For This book is for Kotlin developers who would like to build faulttolerant, scalable, and distributed systems. A basic knowledge of Kotlin is required, but no prior knowledge of reactive programming. What You Will Learn Learn about reactive programming paradigms and how reactive programming can improve your existing projects Gain in-depth knowledge in RxKotlin 2.0 and the ReactiveX Framework Use RxKotlin with Android Create your own custom operators in RxKotlin Use Spring Framework 5.0 with Kotlin Use the reactorkotlin extension Build Rest APIs with Spring, Hibernate, and RxKotlin Use testSubscriber to test RxKotlin applications Use backpressure management and Flowables In Detail In today's app-driven era, when programs are asynchronous, and responsiveness is so vital, reactive programming can help you write code that's more reliable, easier to scale, and better-performing. Reactive programming is revolutionary. With this practical book, Kotlin developers will first learn how to view problems in the reactive way, and then build programs that leverage the best features of this exciting new programming paradigm. You will begin with the general concepts of Reactive programming and then gradually move on to working with asynchronous data streams. You will dive into advanced techniques such as manipulating time in data-flow, customizing operators and provider and how to Use the concurrency model to control asynchronicity of code and process event handlers effectively. You will then be introduced to functional reactive programming and will learn to apply FRP in practical use cases in Kotlin. This book will also take you one step forward by introducing you to spring 5 and spring boot 2 using Kotlin. By the end of the book, you will be able to build real-world applications with reactive user interfaces as well as you'll learn to implement reactive programming paradigms in Android. Style and Approach Loaded with numerous code examples and real-life projects, this book helps you delve into Reactive Programming with Kotlin, and apply it to real-world Spring-web and Android projects, thus making all your apps reactive.

Reactive Java Programming Andrea Maglie,2016-11-02 Learn reactive programming using Java and its functional aspects, sometimes called RxJava. This book shows you how to solve callback hell with RxJava and shows you how to write thread-safe code without hanging onto state variables which comes in handy for cloud computing software-as-a-service issues, especially when dealing with big data processes through streaming. Reactive Java Programming includes unique coverage of reactive Android programming, growing more and more popular in mobile development with the Cloud. After reading this guide to reactive programming, you'll be able to apply it to your own big data cloud applications that use Java. What You'll Learn Use and map observables Filter and combine events Employ subjects, schedulers, and backpressure Handle reactive patterns Test your RxJava code Write your own operators Carry out reactive Android programming who This Book Is For Experienced Java programmers new to reactive programming and those who may have some experience with reactive programming new to Java.

Scala Reactive Programming Rambabu Posa,2018-02-28 Build fault-tolerant, robust, and distributed applications in Scala Key Features - Understand and

use the concepts of reactive programming to build distributed systems running on multiple nodes. - Learn how reactive architecture reduces complexity throughout the development process. - Get to grips with functional reactive programming and Reactive Microservices. Book Description Reactive programming is a scalable, fast way to build applications, and one that helps us write code that is concise, clear, and readable. It can be used for many purposes such as GUIs, robotics, music, and others, and is central to many concurrent systems. This book will be your guide to getting started with Reactive programming in Scala. You will begin with the fundamental concepts of Reactive programming and gradually move on to working with asynchronous data streams. You will then start building an application using Akka Actors and extend it using the Play framework. You will also learn about reactive stream specifications, event sourcing techniques, and different methods to integrate Akka Streams into the Play Framework. This book will also take you one step forward by showing you the advantages of the Lagom framework while working with reactive microservices. You will also learn to scale applications using multi-node clusters and test, secure, and deploy your microservices to the cloud. By the end of the book, you will have gained the knowledge to build robust and distributed systems with Scala and Akka. What you will learn Understand the fundamental principles of Reactive and Functional programming Develop applications utilizing features of the Akka framework Explore techniques to integrate Scala, Akka, and Play together Learn about Reactive Streams with real-time use cases Develop Reactive Web Applications with Play, Scala, Akka, and Akka Streams Develop and deploy Reactive microservices using the Lagom framework and ConductR Who this book is for This book is for Scala developers who would like to build fault-tolerant, scalable distributed systems. No knowledge of Reactive programming is required.

<u>Health Industry Communication</u> Nancy J. Hicks, Christina M. Nicols, 2016-03-01 The Second Edition of Health Industry Communication: New Media, New Methods, New Message is a thorough revision fills a critical gap in the literature for communications students as well as students of health administration and public health. Featuring best practices and case studies from notable practitioners, the chapters offer a 360-degree view of the world of health communications from a business and promotions outlook as well as a look at special topics that impact health communicators.

C# 4.0 Unleashed Bart De Smet, 2011-01-04 C# 4.0 Unleashed is a practical reference focusing on the C# language and the .NET platform as a whole. While covering the language in lots of detail, it also provides enough coverage of various popular .NET technologies and techniques (such as debugging) for the reader to be successful on the .NET platform. The in-depth coverage of the language features is crucial to the success of a developer. Knowing exactly where and why to use certain language features can boost efficiency significantly. This book differs from other works by going into enough depth on how things work, while not being a clone of the formal language specification. Concise anecdotes with concrete samples illustrate how certain language features behave, and also point out possible caveats in using them. On the side of platform coverage, the author provides a gentle introduction to the wide landscape of the .NET platform, following a logical structure that reflects the high-level architecture of an application: presentation, logic, data, connectivity, etc. In the .NET part of the book there's coverage of relevant new technologies such as cloud computing, modeling, and parallel

programming - things that will gain much more attention moving forward. Provides valuable insight into the C# language and the .NET Framework - not just what but also the how and why of the language and framework features Covers using C# with new major technologies, such as cloud computing, SharePoint, and ASP.NET MVC Author is Microsoft insider Will be day and date with the release of C# 4.0

C# 5.0 Unleashed Bart De Smet, 2013-04-17 Buy the print C# 5.0 Unleashed and get the eBook version for free! See inside the book for access code and details. C# 5.0 Unleashed is for anyone who wants to learn the C# programming language in depth, understanding how language features truly work. While giving you those insights, you learn where and how to use the features to design various kinds of software. This book not only teaches the language's capabilities, it also looks behind the scenes to build a solid foundation to aid you in understanding the .NET platform as a whole. ¿ Bart De Smet offers exceptional insight into the features of both the language and Microsoft's broader framework. He doesn't just cover the "what" and "how" of effective C# programming: He explains the "why," so you can consistently choose the right language and platform features, maximizing your efficiency and effectiveness. ¿ The early chapters introduce the .NET platform, the tooling ecosystem, and the C# programming language, followed by in-depth coverage of the C# programming language itself, with immediate application of language features. The last chapters give an overview of the .NET Framework libraries about which every good developer on the platform should know. Understand the .NET platform: its language support, libraries, tools, and more Learn where C# fits, how it has evolved, and where it's headed Master essential language features including expressions, operators, types, objects, and methods Efficiently manage exceptions and resources Write more effective C# objectoriented code Make the most of generics, collections, delegates, reflection, and other advanced language features Use LINQ to express queries for any form of data Master dynamic programming techniques built on .NET's Dynamic Language Runtime (DLR) Work with namespaces, assemblies, and application domains Write more efficient code using threading, synchronization, and advanced parallel programming techniques Leverage the Base Class Library (BCL) to guickly perform many common tasks Instrument, diagnose, test, and troubleshoot your C# code Understand how to use the new C# 5.0 asynchronous programming features Leverage interoperability with Windows Runtime to build Windows 8 applications

Talk Rx Neha Sangwan,2015 Details a five-step process for learning how to communicate effectively in order to improve health, strengthen relationships, and reduce stress, while becoming comfortable with having honest exchanges.

<u>Blogging All-in-One For Dummies</u> Susan Gunelius,2012-07-02 A complete update to the ultimate reference guide on bloggingbasics! The increase in the number of blogs is seemingly endless and continues to grow at a phenomenal rate, thanks in part to the riseof smartphones, tablets, and blogging applications. With this kindof popularity, how can a blogger stand out from the rest of themasses? This all-in-one guide is packed with detailed informationand advice that helps you create and solidify your place in theblogosphere. You'll learn how to get started, use bloggingtools, collaborate with other bloggers, become a part of mobileblogging, and much more. Covers getting started, working with blogging software, othertools, blog marketing, microblogging (including Twitter), makingmoney with your blog, and corporate and niche blogging Helps new bloggers become active and productive members of theblogging community Provides vital information for both hobby bloggers and thosewho want to build a career around blogging Blogging All-in-One For Dummies, 2nd Edition cuts through the clutter and offers you a fun and friendly reference guide tostarting and maintaining a successful blog.

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

Reactive Programming with Angular and ngrx Oren Farhi, 2017-05-16 Manage your Angular development using Reactive programming. Growing in popularity and now an essential part of any professional web developer's toolkit, Reactive programming can enrich your development and make your code more efficient. Featuring a core application to explore and build yourself, this book shows you how to utilize ngrx/store as a state management with Redux pattern, and how to utilize ngrx/effects to define a better and more robust application architecture. Through working code examples, you will understand every aspect of Reactive programming with Angular so that you'll be able to develop maintainable, readable code. Reactive Programming with Angular and ngrx is ideal for developers already familiar with JavaScript, Angular, or other languages, and who are looking for more insight into their Angular projects. Use this book to start mastering Reactive programming today. What You'll Learnsee how= the= boilerplate= and= webpack= work p/pulliConstruct components efficientlybr/liliUtilize ngrx extensions and RxJSbr/liliOrganize state management with reducers, actions and side effectsbr/li/ulp Who This Book Is For Developers who are already familiar with JavaScript and Angular and want to move onto more advanced development.

Hands-On Reactive Programming in Spring 5 Oleh Dokuka, Igor Lozynskyi, 2018-10-08 Today, businesses need a new type of system that can remain responsive at all times. This result is achievable and is called reactive, which means it reacts to changes. The development of such systems is a complex task, requiring a deep understanding of the domain. The developers of the Spring Framework help with the reactive version

Mastering Shiny Hadley Wickham, 2021-04-29 Master the Shiny web framework—and take your R skills to a whole new level. By letting you move beyond static reports, Shiny helps you create fully interactive web apps for data analyses. Users will be able to jump between datasets, explore different subsets or facets of the data, run models with parameter values of their choosing, customize visualizations, and much more. Hadley Wickham from RStudio shows data scientists, data analysts, statisticians, and scientific researchers with no knowledge of HTML, CSS, or JavaScript how to create rich web apps from R. This in-depth guide provides a learning path that you can follow with confidence, as you go from a Shiny beginner to an expert developer who can write large, complex apps that are maintainable and performant. Get started: Discover how the major pieces of a Shiny app fit together Put Shiny in action: Explore Shiny functionality with a focus on code samples, example apps, and useful techniques Master reactivity: Go deep into the theory and practice of reactive programming and examine reactive graph components Apply best practices: Examine useful techniques for making your Shiny apps work well in production

MobX Quick Start Guide Pavan Podila, Michel Weststrate, 2018-07-26 Apply functional Reactive programming for simple and scalable state management with MobX Key Features The easiest way to learn MobX to enhance your client-side state-management Understand how the concepts and components fit together Work through different state management scenarios with MobX Book Description MobX is a simple and highly scalable state management library in JavaScript. Its abstractions can help you manage state in small to extremely large applications. However, if you are just starting out, it is essential to have a guide that can help you take the first steps. This book aims to be that guide that will equip you with the skills needed to use MobX and effectively handle the state management aspects of your application. You will first learn about observables, actions, and reactions: the core concepts of MobX. To see how MobX really shines and simplifies state management, you'll work through some real-world use cases. Building on these core concepts and use cases, you will learn about advanced MobX, its APIs, and libraries that extend MobX. By the end of this book, you will not only have a solid conceptual understanding of MobX, but also practical experience. You will gain the confidence to tackle many of the common state management problems in your own projects. What you will learn Explore the fundamental concepts of MobX, such as observables, actions, and reactions Use observables to track state and react to its changes with validations and visual feedback (via React Components) Create a MobX observable from different data types Define form data as an observable state and tackle sync and async form validations Use the special APIs to directly manipulate observables, tracking its changes, and discovering the reasons behind a change Tackle any state management issue you may have in your app by combining mobx-utils and mobx-state-tree Explore the internals of the MobX reactive system by diving into its inner workings Who this book is for This book is for web developers who want to implement easy and scalable state management for their apps. Knowledge of HTML, CSS, and JavaScript is assumed

Policy and Politics for Nurses and Other Health Professionals Donna Nickitas, Donna J. Middaugh, Nancy Aries, 2010-10-25 Policy and Politics for Nurses and Other Healthcare Professionals: Advocacy and Action provides a nursing focus within an interdisciplinary approach, which intertwines to create an understanding of economics, politics, and policy in relation to health care. Contributors to this text offer future nurses and healthcare providers keen insight about clinical practice and its derivation from regulation, laws, and policies that have roots in public policy and politics. This innovative text also offers practical knowledge on how healthcare professionals can get involved and be proactive in the policy that directly affects their profession and patients. Key pedagogical features include chapter objectives, summaries, examples, boxed articles, case studies, review questions, key terms, photographs, and a tool kit that includes a skills section.

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