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Functional
Programming
in Swift

Chris Eidhof, Florian Kugler, and Wouter Swierstra

Functional Programming In Swift Florian Kugler

Mark Steyvers

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  Functional Swift: Updated for Swift 4 Florian Kugler,Wouter Swierstra,Chris Eidhof,2014-11 This book will teach you how to use Swift to apply functional programming techniques to your iOS or OS X projects These techniques complement object oriented programming that most Objective C developers will already be familiar with providing you with a valuable new tool in your developer s toolbox We will start by taking a look at Swift s new language features such as higher order functions generics optionals enumerations and pattern matching Mastering these new features will enable you to write functional code effectively After that we will provide several examples of how to use functional programming patterns to solve real world problems These examples include a compositional and type safe API around Core Image a library for diagrams built on Core Graphics and a small spreadsheet application built from scratch **Functional Programming: A PragPub Anthology** Michael Swaine,2017-07-20 Explore functional programming and discover new ways of thinking about code You know you need to master functional programming but learning one functional language is only the start In this book through articles drawn from PragPub magazine and articles written specifically for this book you ll explore functional thinking and functional style and idioms across languages Led by expert guides you ll discover the distinct strengths and approaches of Clojure Elixir Haskell Scala and Swift and learn which best suits your needs Contributing authors Rich Hickey Stuart Halloway Aaron Bedra Michael Bevilacqua Linn Venkat Subramaniam Paul Callaghan Jose Valim Dave Thomas Natasha Murashev Tony Hillerson Josh Chisholm and Bruce Tate Functional programming is on the rise because it lets you write simpler cleaner code and its emphasis on immutability makes it ideal for maximizing the benefits of multiple cores and distributed solutions So far nobody s invented the perfect functional language each has its unique strengths In Functional Programming A PragPub Anthology you ll investigate the philosophies tools and idioms of five different functional programming languages See how Swift the development language for iOS encourages you to build highly scalable apps using functional techniques like map and reduce Discover how Scala allows you to transition gently but deeply into functional programming without losing the benefits of the JVM while with Lisp based Clojure you can plunge fully into the functional style Learn about advanced functional concepts in Haskell a pure functional language making powerful use of the type system with type inference and type classes And see how functional programming is becoming more elegant and friendly with Elixir a new functional language built on the powerful Erlang base The industry has been embracing functional programming more and more driven by the need for concurrency and parallelism This collection of articles will lead you to mastering the functional approach to problem solving So put on your explorer s hat and prepare to be surprised The goal of exploration is always discovery What You Need Familiarity with one or more programming languages Swift High Performance Kostiantyn Koval,2015-11-06 Leverage Swift and enhance your code to take your applications to the next level About This Book Build solid high performance applications in Swift Increase your efficiency by getting to grips with

concurrency and parallel programming Use Swift to design performance oriented solutions Who This Book Is For This book is aimed at experienced Swift developers wanting to optimize their programs on Apple platforms to optimize application performance What You Will Learn Build solid stable and reliable applications using Swift Use REPL and Pl to manage and configure relational databases Explore Swift s features including its static type system value objects and functional programming Design reusable code for high performance in Swift Use to Xcode LLBD and REPL to debug commands Avoid sharing resources by using concurrency and parallel programming Understand the lazy loading pattern lazy sequences and lazy evolution In Detail Swift is one of the most popular and powerful programming languages for building iOS and Mac OS applications and continues to evolve with new features and capabilities Swift is considered a replacement to Objective C and has performance advantages over Objective C and Python Swift adopts safe programming patterns and adds modern features to make programming easier more flexible and more fun Develop Swift and discover best practices that allow you to build solid applications and optimize their performance First a few of performance characteristics of Swift will be explained You will implement new tools available in Swift including Playgrounds and REPL These will improve your code efficiency enable you to analyse Swift code and enhance performance Next the importance of building solid applications using multithreading concurrency and multi core device architecture is covered before moving on to best practices and techniques that you should utilize when building high performance applications such as concurrency and lazy loading Finally you will explore the underlying structure of Swift further and learn how to disassemble and compile Swift code Style and approach This is a comprehensive guide to enhancing Swift programming techniques and methodology to enable faster application development

    Classic Computer Science Problems in Swift David Kopec,2018-03-24 Summary Classic Computer Science Problems in Swift invites readers to invest their energy in some foundational techniques that have been proven to stand the test of time Along the way they ll learn intermediate and advanced features of the Swift programming language a worthwhile skill in its own right Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Don t just learn another language Become a better programmer instead Today s awesome iOS apps stand on the shoulders of classic algorithms coding techniques and engineering principles Master these core skills in Swift and you ll be ready for AI data centric programming machine learning and the other development challenges that will define the next decade About the Book Classic Computer Science Problems in Swift deepens your Swift language skills by exploring foundational coding techniques and algorithms As you work through examples in search clustering graphs and more you ll remember important things you ve forgotten and discover classic solutions to your new problems You ll appreciate author David Kopec s amazing ability to connect the core disciplines of computer science to the real world concerns of apps data performance and even nailing your next job interview What s Inside Breadth first depth first and A search algorithms Constraint satisfaction problems Solving problems with graph algorithms Neural networks genetic algorithms and more All

examples written in Swift 4 1 About the Reader For readers comfortable with the basics of Swift About the Author David Kopec is an assistant professor of computer science and innovation at Champlain College in Burlington Vermont He is an experienced iOS developer and the author of Dart for Absolute Beginners Table of Contents Small problems Search problems Constraint satisfaction problems Graph problems Genetic algorithms K means clustering Fairly simple neural networks Miscellaneous problems *RoboCup 2021: Robot World Cup XXIV* Rachid Alami,Joydeep Biswas,Maya Cakmak,Oliver Obst,2022-03-21 This book constitutes the proceedings of the 24th RoboCup International Symposium which was held online during June 22 June 28 2021 The 19 full papers included in these proceedings were carefully reviewed and selected from 42 submissions the volume also includes 10 RoboCup Champions Papers In addition to presenting the proceedings of the RoboCup 2021 Symposium the book highlights the approaches of champion teams from the competitions Due to the complex research challenges set by the RoboCup initiative the RoboCup International Symposium offers a unique perspective for exploring scientific and engineering principles underlying advanced robotic and AI systems *Functional Swift* Chris Eidhof,Florian Kugler (Software developer),Wouter Swierstra,2019 **Mastering iOS 12 Programming** Donny Wals,2018-10-31 Become a professional iOS developer with the most in depth and advanced guide to Swift Xcode 10 ARKit and Core ML Key FeaturesExplore the extensive world of iOS development through practical examplesGain detailed insights into core iOS programming concepts such as app extensions and performanceExtend your iOS apps by adding augmented reality and machine learning capabilitiesBook Description The iOS development environment has significantly matured and with Apple users spending more money in the App Store there are plenty of development opportunities for professional iOS developers However the journey to mastering iOS development and the new features of iOS 12 is not straightforward This book will help you make that transition smoothly and easily With the help of Swift 4 2 you ll not only learn how to program for iOS 12 but also how to write efficient readable and maintainable Swift code that maintains industry best practices Mastering iOS 12 Programming will help you build real world applications and reflect the real world development flow You will also find a mix of thorough background information and practical examples teaching you how to start implementing your newly gained knowledge By the end of this book you will have got to grips with building iOS applications that harness advanced techniques and make best use of the latest and greatest features available in iOS 12 What you will learnBuild a professional iOS application using Xcode 10 and Swift 4 2Use AutoLayout to create complex layouts that look great on every deviceDelve into advanced animations with UIViewPropertyAnimator and UIKit DynamicsEnhance your app by using instruments and building your own profiling toolsIntegrate iMessage Siri and more in your app through app extensionsTrain and use machine learning models with Core ML 2 and Create MLCreate engaging augmented reality experiences with ARKit 2Who this book is for If you re a developer with some experience in iOS programming and want to enhance your skills by unlocking the full potential of the latest iOS version with Swift to build great applications this book is for you **Core Data**

Florian Kugler,Daniel Eggert,2015-12-08 Core Data best practices by example from simple persistency to multithreading and syncing This book strives to give you clear guidelines for how to get the most out of Core Data while avoiding the pitfalls of this flexible and powerful framework We start with a simple example app and extend it step by step as we talk about relationships advanced data types concurrency syncing and many other topics Later on we go well beyond what s needed for the basic example app We ll discuss in depth how Core Data works behind the scenes how to get great performance the trade offs between different Core Data setups and how to debug and profile your Core Data code All code samples in this book are written in Swift We show how you can leverage Swift s language features to write elegant and safe Core Data code We expect that you re already familiar with Swift and iOS but both newcomers and experienced Core Data developers will find a trove of applicable information and useful patterns *Advanced Swift* Chris Eidhof,Ole Begemann,Florian Kugler (Software developer),Ben Cohen,2019 Learn about advanced concepts in Swift programming **Swift Functional Programming** Dr. Fatih Nayebi,2017-04-26 Bring the power of functional programming to Swift to develop clean smart scalable and reliable applications About This Book Written for the latest version of Swift this is a comprehensive guide that introduces iOS Web and macOS developers to the all new world of functional programming that has so far been alien to them Get familiar with using functional programming alongside existing OOP techniques so you can get the best of both worlds and develop clean robust and scalable code Develop a case study on example backend API with Swift and Vapor Framework and an iOS application with Functional Programming Protocol Oriented Programming Functional Reactive Programming and Object Oriented Programming techniques Who This Book Is For Meant for a reader who knows object oriented programming has some experience with Objective C Swift programming languages and wants to further enhance his skills with functional programming techniques with Swift 3 x What You Will Learn Understand what functional programming is and why it matters Understand custom operators function composition currying recursion and memoization Explore algebraic data types pattern matching generics associated type protocols and type erasure Get acquainted with higher kinded types and higher order functions using practical examples Get familiar with functional and non functional ways to deal with optionals Make use of functional data structures such as semigroup monoid binary search tree linked list stack and lazy list Understand the importance of immutability copy constructors and lenses Develop a backend API with Vapor Create an iOS app by combining FP OOP FRP and POP paradigms In Detail Swift is a multi paradigm programming language enabling you to tackle different problems in various ways Understanding each paradigm and knowing when and how to utilize and combine them can lead to a better code base Functional programming FP is an important paradigm that empowers us with declarative development and makes applications more suitable for testing as well as performant and elegant This book aims to simplify the FP paradigms making them easily understandable and usable by showing you how to solve many of your day to day development problems using Swift FP It starts with the basics of FP and you will go through all the core concepts of Swift and the building

blocks of FP You will also go through important aspects such as function composition and currying custom operator definition monads functors applicative functors memoization lenses algebraic data types type erasure functional data structures functional reactive programming FRP and protocol oriented programming POP You will then learn to combine those techniques to develop a fully functional iOS application from scratch Style and approach An easy to follow guide that is full of hands on coding examples of real world applications Each topic is explained sequentially and placed in context and for the more inquisitive there are more details of the concepts used It introduces the Swift language basics and functional programming techniques in simple non mathematical vocabulary with examples in Swift **Swift Functional Programming** Fatih Nayebi,2017-04-26 Bring the power of functional programming to Swift to develop clean smart scalable and reliable applications About This Book Written for the latest version of Swift this is a comprehensive guide that introduces iOS Web and macOS developers to the all new world of functional programming that has so far been alien to them Get familiar with using functional programming alongside existing OOP techniques so you can get the best of both worlds and develop clean robust and scalable code Develop a case study on example backend API with Swift and Vapor Framework and an iOS application with Functional Programming Protocol Oriented Programming Functional Reactive Programming and Object Oriented Programming techniquesWho This Book Is ForMeant for a reader who knows object oriented programming has some experience with Objective C Swift programming languages and wants to further enhance his skills with functional programming techniques with Swift 3 x What You Will Learn Understand what functional programming is and why it matters Understand custom operators function composition currying recursion and memoization Explore algebraic data types pattern matching generics associated type protocols and type erasure Get acquainted with higher kinded types and higher order functions using practical examples Get familiar with functional and non functional ways to deal with optionals Make use of functional data structures such as semigroup monoid binary search tree linked list stack and lazy list Understand the importance of immutability copy constructors and lenses Develop a backend API with Vapor Create an iOS app by combining FP OOP FRP and POP paradigmsIn DetailSwift is a multi paradigm programming language enabling you to tackle different problems in various ways Understanding each paradigm and knowing when and how to utilize and combine them can lead to a better code base Functional programming FP is an important paradigm that empowers us with declarative development and makes applications more suitable for testing as well as performant and elegant This book aims to simplify the FP paradigms making them easily understandable and usable by showing you how to solve many of your day to day development problems using Swift FP It starts with the basics of FP and you will go through all the core concepts of Swift and the building blocks of FP You will also go through important aspects such as function composition and currying custom operator definition monads functors applicative functors memoization lenses algebraic data types type erasure functional data structures functional reactive programming FRP and protocol oriented programming POP You will then learn to combine those

techniques to develop a fully functional iOS application from scratchStyle and approachAn easy to follow guide that is full of hands on coding examples of real world applications Each topic is explained sequentially and placed in context and for the more inquisitive there are more details of the concepts used It introduces the Swift language basics and functional programming techniques in simple non mathematical vocabulary with examples in Swift   **Swift 2 Functional Programming** Fatih Nayebi,2016-06-30 Bring the power of Swift functional programming to iOS Web macOS watchOS and tvOS application development and build clean smart scalable and reliable applicationsAbout This Book Written for Swift 3 Developers Preview version this is a comprehensive guide that introduces iOS and OS X developers to the all new world of functional programming that has so far been alien to them Learn about first class functions and how imperative style patterns can be converted into functional code using some simple techniques The book will get you familiar with using functional programming alongside existing OOP techniques so you can get the best of both worlds and develop clean robust codeWho This Book Is ForThe book is for developers with a basic knowledge of Swift programming aiming to incorporate functional programming paradigms in their day to day application developmentWhat You Will Learn First class higher order and pure functions Closures and capturing values Custom operators recursion and memoization Value and reference types in Swift Enumerations algebraic data types patterns and pattern matching Generics and associated type protocols Higher order functions such as map flatMap filter and reduce Dealing with optionals fmap and apply for multiple functional mapping Functional data structures such as Semigroup Monoid Binary Search Tree Linked List Stack and Lazy List Immutability copy constructors and lenses Combining FP paradigms with OOP FRP and POP in your day to day development activities Developing a backend application with Swift Developing an iOS application with FP OOP FRP and POP paradigmsIn DetailThis book is based on Swift 3 Developer preview version and aims at simplifying the functional programming FP paradigms making it easily usable by showing you how to solve many of your day to day development problems Whether you are new to functional programming and Swift or experienced this book will strengthen the skills you need to design and develop high quality scalable and efficient applications The book starts with functional programming concepts the basics of Swift 3 and essential concepts such as functions closures optionals enumerations immutability and generics in detail with coding examples Furthermore this book introduces more advanced topics such as function composition monads functors applicative functors memoization lenses algebraic data types functional data structures functional reactive programming FRP protocol oriented programming POP and mixing object oriented programming OOP with functional programming FP paradigms Finally this book provides a working code example of a front end application developed with these techniques and its corresponding back end application developed with Swift Style and approachThis is an easy to follow guide full of hands on coding examples of real world applications Each topic is explained sequentially and placed in context and for the more inquisitive there are more details of the concepts used It introduces the Swift language basics and functional programming

techniques in simple non mathematical vocabulary with examples in Swift   **Core Data** Florian Kugler,Eggert Daniel,2016-12-18 Core Data best practices by example from simple persistency to multithreading and syncing This book strives to give you clear guidelines for how to get the most out of Core Data while avoiding the pitfalls of this flexible and powerful framework We start with a simple example app and extend it step by step as we talk about relationships advanced data types concurrency syncing and many other topics Later on we go well beyond what s needed for the basic example app We ll discuss in depth how Core Data works behind the scenes how to get great performance the trade offs between different Core Data setups and how to debug and profile your Core Data code All code samples in this book are written in Swift We show how you can leverage Swift s language features to write elegant and safe Core Data code We expect that you re already familiar with Swift and iOS but both newcomers and experienced Core Data developers will find a trove of applicable information and useful patterns   **Beginning Swift** Rob Kerr,Kåre Morstøl,2018-05-31 Swift greatly simplifies the process of developing applications for Apple devices This book provides you with the essential skills to help you get started with developing applications using Swift Key Features Teaches you how to correctly structure and architect software using Swift Uses real world examples to connect the theory to a professional setting Imparts expertise in the core Swift standard library Book Description Take your first foray into programming for Apple devices with Swift Swift is fundamentally different from Objective C as it is a protocol oriented language While you can still write normal object oriented code in Swift it requires a new way of thinking to take advantage of its powerful features and a solid understanding of the basics to become productive What you will learn Explore the fundamental Swift programming concepts language structure and the Swift programming syntax Learn how Swift compares to other computer languages and how to transform your thinking to leverage new concepts such as optionals and protocols Master how to use key language elements such as strings and collections Grasp how Swift supports modern application development using advanced features such as built in Unicode support and higher order functions Who this book is for If you are seeking fundamental Swift programming skills in preparation for learning to develop native applications for iOS or macOS this book is the best for you You don t need to have any prior Swift knowledge however object oriented programming experience is desired   *Learning Functional Programming with Swift* ,2018 Learn how to write more robust and maintainable Swift code by making the switch to functional programming   *Learning Swift* Andrew J Wagner,2016-03-23 Develop the skills required to create compelling maintainable and robust iOS and OS X apps with Swift About This Book Write expressive understandable and maintainable Swift 2 code with this hands on tutorial Unveil the complex underpinnings of Swift to turn your app ideas into reality This book is packed with real life examples to help you implement concepts as you learn Who This Book Is For If you are looking to build iOS or OS X apps using the most modern technology this book is ideal for you You will find this book especially useful if you are new to programming or if you are yet to develop for iOS or OS X No prior programming exposure is required What You Will Learn Form a solid understanding of

the Swift 2 language Get to know the practical aspects of how a computer program actually works Understand the paradigms used by Apple s frameworks so you are not intimidated by them Utilize the vast resources written in Objective C to better inform your Swift programming Develop a basic portfolio of Swift code by learning the critical concepts Experience both object oriented and functional programming Get to know the new coding techniques made available by Swift 2 Discover resources to ensure you never stop becoming a better developer In Detail Swift is Apple s new programming language and the future of iOS and OS X app development It is a high performance language that feels like a modern scripting language On the surface Swift is easy to jump into but it has complex underpinnings that are critical to becoming proficient at turning an idea into reality This book is an approachable step by step introduction into programming with Swift for everyone It begins by giving you an overview of the key features through practical examples and progresses to more advanced topics that help differentiate the proficient developers from the mediocre ones It covers important concepts such as Variables Optionals Closures Generics and Memory Management Mixed in with those concepts it also helps you learn the art of programming such as maintainability useful design patterns and resources to further your knowledge This all culminates in writing a basic iOS app that will get you well on your way to turning your own app ideas into reality Style and approach This is an approachable step by step guide to programming in Swift 2 Each topic is separated into compressible sections that are full of practical examples and easy to understand explanations Each section builds on the previous topics so you can develop a proficient and comprehensive understanding of app development in Swift 2   Beginning Swift Programming Wei-Meng Lee,2014-12-04 Enter the Swift future of iOS and OS X programming Beginning Swift Programming is your ideal starting point for creating Mac iPhone and iPad apps using Apple s new Swift programming language Written by an experienced Apple developer and trainer this comprehensive guide explains everything you need to know to jumpstart the creation of your app idea Coverage includes data types strings and characters operators and functions arrays and dictionaries control flow and looping with expert guidance on classes objects class inheritance closures protocols and generics This succinct yet complete overview provides a detailed introduction to the core features of Swift Apple developed Swift to address the limitations of Objective C and add features found in more complex languages like Python The results is simpler cleaner more expressive code with automatic memory management functional programming patterns and more including built in features that make Swift apps faster scalable and more secure This book explains it all helping developers master Apple s new language Become fluent with syntax that s easier to read and maintain Understand inferred types for cleaner less mistake prone code Learn the key features that make Swift more expressive than Objective C Learn the new optional types in Swift that make your code more resilient Understand the key design patterns in iOS and Mac OS programming using protocols and delegates Learn how to use generics to create highly reusable code Learn the new access controls mechanism in Swift Get up to speed quickly to remain relevant and ahead of the curve   **Swift Programming** Matthew Mathias,John Gallagher,Mikey

Ward,2020-10-21 Through this guide s carefully constructed explanations and examples you will develop an understanding of Swift grammar and the elements of effective Swift style all thoroughly revised for Swift 5 3 and Xcode 12 Based on Big Nerd Ranch s popular Swift training and its well tested materials and methodology this guide teaches concepts and coding through hands on exercises You will explore Swift features in Xcode playgrounds and you will end by building sample apps for the command line and for macOS and iOS After working through the book you will have the skills to confidently dive into learning app development for Apple platforms like iOS and macOS **Learning Functional Programming with Swift** Shaun Wassell,2018 *Swift 3 Object Oriented Programming - Second Edition* Gaston C. Hillar,2017-01-31 Implement object oriented programming paradigms with Swift 3 0 and mix them with modern functional programming techniques to build powerful real world applicationsAbout This Book Leverage the most efficient object oriented design patterns in your Swift applications Write robust safer and better code using the blueprints that generate objects Build a platform with object oriented code using real world elements and represent them in your appsWho This Book Is ForThis book is for iOS and macOS developers who want to get a detailed practical understanding of object oriented programming with the latest version of Swift 3 0 What you will learn Write high quality and easy to maintain reusable object oriented code to build applications for iOS macOS and Linux Work with encapsulation abstraction and polymorphism using Swift 3 0 Work with classes instances properties and methods in Swift 3 0 Take advantage of inheritance specialization and the possibility to overload or override members Implement encapsulation abstraction and polymorphism Explore functional programming techniques mixed with object oriented code in Swift 3 0 Understand the differences between Swift 3 0 previous Swift versions and Objective C codeIn DetailSwift has quickly become one of the most liked languages and developers de facto choice when building applications that target iOS and macOS In the new version the Swift team want to take its adoption to the next level by making it available for new platforms and audiences This book introduces the object oriented paradigm and its implementation in the Swift 3 programming language to help you understand how real world objects can become part of fundamental elements in the code This book is developed with XCode 8 x and covers all the enhancements included in Swift 3 0 In addition we teach you to run most of the examples with the Swift REPL available on macOS and Linux and with a Web based Swift sandbox developed by IBM capable of running on any web browser including Windows and mobile devices You will organise data in blueprints that generate instances You ll work with examples so you understand how to encapsulate and hide data by working with properties and access control Then you ll get to grips with complex scenarios where you use instances that belong to more than one blueprint You ll discover the power of contract programming and parametric polymorphism You ll combine generic code with inheritance and multiple inheritance Later you ll see how to combine functional programming with object oriented programming and find out how to refactor your existing code for easy maintenance

Whispering the Secrets of Language: An Mental Quest through **Functional Programming In Swift Florian Kugler**

In a digitally-driven earth wherever displays reign supreme and quick transmission drowns out the subtleties of language, the profound secrets and mental subtleties hidden within phrases often move unheard. Yet, situated within the pages of **Functional Programming In Swift Florian Kugler** a fascinating literary treasure blinking with organic thoughts, lies an exceptional quest waiting to be undertaken. Published by a skilled wordsmith, that enchanting opus attracts viewers on an introspective trip, delicately unraveling the veiled truths and profound affect resonating within the material of each and every word. Within the mental depths of the emotional evaluation, we will embark upon a heartfelt exploration of the book is primary themes, dissect their captivating writing style, and yield to the effective resonance it evokes strong within the recesses of readers hearts.

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