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Functional Programming in Swift



Chris Eidhof, Florian Kugler, and Wouter Swierstra

Functional Programming In Swift Ebook Chris Eidhof

**Chris Eidhof, Ole Begemann, Florian
Kugler (Software developer), Ben
Cohen**



Functional Programming In Swift Ebook Chris Eidhof :

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 Swift* Chris Eidhof, Florian Kugler (Software developer), Wouter Swierstra, 2019

Advanced Swift Chris Eidhof, Airspeed Velocity, 2016-03-18 Advanced Swift takes you through Swift s features from low level programming to high level abstractions In this book we ll write about advanced concepts in Swift programming If you have read the Swift Programming Guide and want to explore more this book is for you Swift is a great language for systems programming but also lends itself for very high level programming We ll explore both high level topics for example programming with generics and protocols as well as low level topics for example wrapping a C library and string internals *Advanced Swift* Chris Eidhof, Ole Begemann, Florian Kugler (Software developer), Ben Cohen, 2019 Learn about advanced concepts in Swift programming *The Swift Developer's Cookbook (includes Content Update Program)* Erica Sadun, 2015-12-15 In The Swift Developer s Cookbook renowned author Erica Sadun joins powerful strategies with ready to use Swift code for solving everyday development challenges As in all of Sadun s programming best sellers The Swift Developer s Cookbook translates modern best practices into dozens of well tested easy to apply solutions This book s code examples were created in response to real world questions from working developers to reflect Swift s newest capabilities and best practices Each chapter groups related tasks together You can jump straight to your solution without having to identify the right class or framework first Sadun covers key Swift development concepts shows you how to write robust and efficient code and helps you avoid common pitfalls other developers struggle with She offers expert strategies for working with this immensely powerful language taking into account Swift s rapid evolution and its migration tools Whether you re moving to modern Swift from Objective C from older versions of the Swift language or from the world of non Apple languages this guide will help you master both the how and why of effective Swift development Industry recruiters are scrambling to find Swift developers who can solve real problems and produce effective working code Get this book and you ll be ready Coverage includes Writing effective Swift code that communicates clearly and coherently to the compiler your team and to future you who will be maintaining this code Using Xcode to handle changes in Swift s language constructs as the language evolves Building feedback documentation and output

to meet your development and debugging needs Making the most of optionals and their supporting constructs Using closures to encapsulate state and functionality and treat actions as variables for later execution Leveraging control flow with innovative Swift specific statements Working with all Swift types classes enumerations and structures Using generics and protocols to build robust code that expands functionality beyond single types Making the most of the powerful Swift error system Working with innovative features such as array indexing general subscripting statement labels custom operators and more This book is part of the Pearson Content Update Program CUP As the technology changes sections of this book will be updated or new sections will be added The updates will be delivered to you via a free Web Edition of this book which can be accessed with any Internet connection

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 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 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

Learning Functional Programming with Swift ,2018 Learn how to write more robust and maintainable Swift code by making the switch to functional programming

SwiftUI Cookbook Giordano Scalzo,Edgar Nzokwe,2021-11-01 Unleash the power of declarative programming in SwiftUI by building cross platform Apple apps for iOS 15 macOS and watchOS using Swift 5 5 Xcode 13 and SwiftUI 3 Key FeaturesApply the declarative programming paradigm to build cross platform UIs for Apple devicesLearn to integrate UIKit Core Data Firebase and Sign in with Apple with SwiftUIAdopt the new SwiftUI 3 0 features to build visually appealing UIs speedilyBook Description SwiftUI provides an innovative and simple way to build beautiful user interfaces UIs for all Apple platforms from iOS and macOS through to watchOS and tvOS using the Swift programming language In this recipe based cookbook you ll cover the foundations of SwiftUI as well as the new SwiftUI 3 features introduced in iOS 15 and explore a range of essential techniques and concepts that will help you through the development process The cookbook begins by explaining how to use basic SwiftUI components Once you ve learned the core concepts of UI development such as Views Controls Lists and ScrollViews using practical implementations in Swift you ll advance to adding useful features to SwiftUI using drawings built in shapes animations and transitions You ll understand how to integrate SwiftUI with exciting new components in the Apple development ecosystem such as Combine for managing events and Core Data for managing app data Finally you ll write iOS macOS and watchOS apps by sharing the same SwiftUI codebase By the end of this SwiftUI book you ll have discovered a range of simple direct solutions to common problems encountered when building SwiftUI apps What you will learnExplore various layout presentations in SwiftUI such as HStack VStack LazyHStack and LazyVGridCreate widgets to quickly display relevant content at glanceGet up to speed with drawings in SwiftUI using built in shapes custom paths and polygonsDiscover modern animation and transition techniques in SwiftUIAdd user authentication using Firebase and Sign in with AppleManage concurrency with Combine and async await in SwiftUISolve the most common SwiftUI problems such as integrating a MapKit map unit testing snapshot testing and previewing layoutsWho this book is for This book is for mobile developers who want to learn SwiftUI as well as experienced iOS developers transitioning from UIKit to SwiftUI The book assumes knowledge of the Swift programming language Knowledge of object oriented design and data structures will be useful but not necessary You ll also find this book to be a helpful resource if you re looking for reference material regarding the implementation of various features in SwiftUI

SwiftUI Cookbook Giordano Scalzo,Edgar Nzokwe,2020-10-19 Unleash the power of declarative programming in SwiftUI with practical recipes for building cross platform Apple applications for iOS 14 macOS and watchOS

using Swift 5.3 Xcode 12 and SwiftUI 2.0 Key Features Apply the declarative programming paradigm for building cross platform UIs for Apple devices Learn to integrate UIKit Core Data Sign in with Apple and Firebase with SwiftUI Adopt the new SwiftUI 2.0 features to build visually appealing UIs at speed Book Description SwiftUI is an innovative and simple way to build beautiful user interfaces UIs for all Apple platforms right from iOS and macOS through to watchOS and tvOS using the Swift programming language In this recipe based book you ll work with SwiftUI and explore a range of essential techniques and concepts that will help you through the development process The recipes cover the foundations of SwiftUI as well as the new SwiftUI 2.0 features introduced in iOS 14 Other recipes will help you to make some of the new SwiftUI 2.0 components backward compatible with iOS 13 such as the Map View or the Sign in with Apple View The cookbook begins by explaining how to use basic SwiftUI components Then you ll learn the core concepts of UI development such as Views Controls Lists and ScrollViews using practical implementation in Swift By learning drawings built in shapes and adding animations and transitions you ll discover how to add useful features to the SwiftUI When you re ready you ll understand how to integrate SwiftUI with exciting new components in the Apple development ecosystem such as Combine for managing events and Core Data for managing app data Finally you ll write iOS macOS and watchOS apps while sharing the same SwiftUI codebase By the end of this SwiftUI book you ll have discovered a range of simple direct solutions to common problems found in building SwiftUI apps What you will learn Explore various layout presentations in SwiftUI such as HStack VStack LazyHStack and LazyVGrid Create a cross platform app for iOS macOS and watchOS Get up to speed with drawings in SwiftUI using built in shapes custom paths and polygons Discover modern animation and transition techniques in SwiftUI Add user authentication using Firebase and Sign in with Apple Handle data requests in your app using Core Data Solve the most common SwiftUI problems such as integrating a MapKit map unit testing snapshot testing and previewing layouts Who this book is for This book is for mobile developers who want to learn SwiftUI as well as experienced iOS developers transitioning from UIKit to SwiftUI The book assumes knowledge of the Swift programming language Knowledge of object oriented design and data structures is useful but not necessary [Swift 2 Functional Programming](#) Fatih Nayebe, 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 applications About 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 code Who This Book Is For The book is for developers with a basic knowledge of Swift programming aiming to incorporate functional programming paradigms in their day to day application development What 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 paradigms In Detail This 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 approach This 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

Advanced Swift Chris Eidhof, Ole Begemann, Airspeed Velocity, 2017-11-13 Learn about advanced concepts in Swift programming *Swift Functional Programming* Dr. Fatih Nayebe, 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 for the Really Impatient* Matt Henderson,Dave Wood,2015 Swift for the Really Impatient is the perfect jumpstart to the Swift language for every experienced Objective C developer Through expert code examples and crystal clear explanations the authors reveal how Swift features improve on Objective C and show how to make the most of them Each chapter includes hands on exercises Students will learn how to re implement common Objective C programming solutions in Swift improving code clarity power and performance on both desktop and mobile devices Publisher description

Learning Swift Andrew J Wagner,2015-06-30 Swift is Apple s new programming language and the future of iOS and OS X app development At its surface Swift is easy to jump into but it has complex elements that are critical to becoming proficient at turning an idea into reality Develop the skills and confidence to dive passionately into creating compelling maintainable and elegant apps in Swift This book provides an approachable step by step introduction into programming with Swift Each topic is separated into comprehensive sections that are full of practical examples and easy to understand explanations Each section builds on the previous topics to develop a comprehensive understanding of app development in Swift It begins by giving an overview of the key features with practical examples and progresses to more advanced topics that help differentiate the skillful developers from the mediocre ones It covers topics such as variables optionals closures generics and memory management In addition this book also covers the art of programming such as maintainability useful

design patterns and resources for furthering 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 a reality **Swift Cookbook** Keith Moon,Chris Barker,2021-02-26

Discover recipes for building feature rich reliable iOS native apps and explore the latest features in Swift 5.3 with the help of proven industry standard recipes modern design techniques and popular strategies Key FeaturesUnderstand how closures work and make use of generics with protocols to write flexible codeDiscover the fundamentals of Swift and build apps with frameworks such as Foundation Networking and UIKitGet to grips with the new features of Swift 5.3 including SwiftUI CoreML and the Vision FrameworkBook Description Swift is an exciting multi platform general purpose programming language and with this book you ll explore the features of its latest version Swift 5.3 The book begins with an introduction to the basic building blocks of Swift 5.3 its syntax and the functionalities of Swift constructs You ll then discover how Swift Playgrounds provide an ideal platform to write execute and debug your Swift code As you advance through the chapters the book will show you how to bundle variables into tuples or sets order your data with an array store key value pairs with dictionaries and use property observers You ll also get to grips with the decision making and control structures in Swift examine advanced features such as generics and operators and explore functionalities outside of the standard library Once you ve learned how to build iOS applications using UIKit you ll find out how to use Swift for server side programming run Swift on Linux and investigate Vapor Finally you ll discover some of the newest features of Swift 5.3 using SwiftUI and Combine to build adaptive and reactive applications and find out how to use Swift to build and integrate machine learning models along with Apple s Vision Framework By the end of this Swift book you ll have discovered solutions to boost your productivity while developing code using Swift 5.3 What you will learnExplore basic to advanced concepts in Swift 5.3 programmingUnderstand conditional statements loops and how to handle errors in SwiftDefine flexible classes and structs using genericsUse advanced operators and create custom onesBuild iOS apps using the powerful features of UIKit or the new SwiftUI frameworkImport your own custom functionality into Swift PlaygroundsRun Swift on Linux and investigate server side programming with the server side framework VaporUse Swift to implement machine learning models using CoreML and VisionWho this book is for This book is for experienced iOS developers looking to learn about the diverse features offered by Swift 5.3 along with tips and tricks to efficiently code and build applications Knowledge of general programming concepts will assist in understanding key concepts **Thinking in SwiftUI** Florian Kugler,Chris Eidhof,2020-03-16 SwiftUI is radically different from UIKit So in this short book we will help you build a mental model of how SwiftUI works We explain the most important concepts in detail and we follow them up with exercises to give you hands on experience SwiftUI is still a young framework and as such we don t believe it s appropriate to write a complete reference Instead this book focuses on transitioning your way of thinking from the object oriented style of UIKit to the declarative style of SwiftUI Thinking in SwiftUI is geared toward readers who are familiar with Swift and who have experience building apps in frameworks like

UIKit *Learning Functional Programming with Swift* Shaun Wassell, 2018 **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 **Swift Programming** Nln Lnc, Alexander Aronowitz, 2021-04-29 You'll begin with Swift programming basics including guidelines for making your code Swiftly and learn how to work with Xcode and its built in Interface Builder Then you'll dive step by step into building and customizing a basic app for taking editing and deleting selfies You'll also tune and test the app for performance and manage the app's presence in the App Store Swift is a general purpose multi paradigm object oriented functional imperative and block structured language It is the result of the latest research on programming languages and is built using a modern approach to safety software design patterns by Apple Inc It is the brand new programming language for iOS application macOS application watchOS application tvOS application Soon it became one of top 5 programming language and gained popularity among Apple developer community over the few years of time replacing the old school Objective C What you will learn Understand core Swift components such as operators collections control flows and functions Learn how and when to use classes structures and enumerations Understand how to use protocol oriented design with extensions to write easier to manage code Use design patterns with Swift to solve commonly occurring design problems Apply copy on write for your custom value types to improve performance Add concurrency to your applications using Grand Central Dispatch and Operation Queues Implement generics to write flexible and reusable code Who this book is for This book is for developers who want to delve into the latest version of Swift If you are a developer looking to learn in a practical way by working with code then this book is for you A basic understanding of Apple's tools will be beneficial but not mandatory All examples should work on the Linux platform as well Want To Know More Scroll to the top and select buy

App Architecture Chris Eidhof, Matt Gallagher, Florian Kugler, 2018-05-13 This book explains a range of application design patterns and their implementation techniques using a single example app fully implemented in five design patterns. Instead of advocating for any particular pattern, we lay out the problems all architectures are trying to address: constructing the app's components, communicating between the view and the model, and handling non-model state. We show high-level solutions to these problems and break them down to the level of implementation for five different design patterns: two commonly used and three more experimental. The common architectures are Model View Controller and Model View ViewModel Coordinator. In addition to explaining these patterns conceptually and on the implementation level, we discuss solutions to commonly encountered problems like massive view controllers. On the experimental side, we explain View State Driven Model View Controller, ModelAdapter, ViewBinder, and The Elm Architecture. By examining these experimental patterns, we extract valuable lessons that can be applied to other patterns and to existing code bases.

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