

FUNCTIONAL

PROGRAMMING

ALL IN 10 MINUTES



Functional Programming In Swift

SA Adler



Functional Programming 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 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

Functional Programming in Swift Chris Eidhof, Florian Kugler, Wouter Swierstra, 2014-11-01 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

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 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 **Learning**

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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

Functional Programming in C#, Second Edition Enrico Buonanno,2022-02 Functional Programming in C Second Edition teaches functional thinking for real world problems It reviews the C language features that allow you to program functionally and through many practical examples shows the power of function composition data driven programming and immutable data structures All code examples work with NET 6 and C 10

[The Science of Functional Programming \(draft version\)](#) Sergei Winitzki, *Modern Programming: Object Oriented Programming and Best Practices* Graham Lee,2019-06-28 Discover the untapped features of object oriented programming and use it with other software tools to code fast efficient applications Key FeaturesExplore the complexities of object oriented programming OOP Discover what OOP can do for youLearn to use the key tools and software engineering practices to support your own programming needsBook Description Your experience and knowledge always influence the approach you take and the tools you use to write your programs With a sound understanding of how to approach your goal and what software paradigms to use you can create high performing applications quickly and efficiently In this two part book you ll discover the untapped features of object oriented programming and use it with other software tools to code fast and efficient applications The first part of the book begins with a discussion on how OOP is used today and moves on to analyze the ideas and problems that OOP doesn t address It continues by deconstructing the complexity of OOP showing you its fundamentally simple core You ll see that by using the distinctive elements of OOP you

can learn to build your applications more easily The next part of this book talks about acquiring the skills to become a better programmer You ll get an overview of how various tools such as version control and build management help make your life easier This book also discusses the pros and cons of other programming paradigms such as aspect oriented programming and functional programming and helps to select the correct approach for your projects It ends by talking about the philosophy behind designing software and what it means to be a good developer By the end of this two part book you will have learned that OOP is not always complex and you will know how you can evolve into a better programmer by learning about ethics teamwork and documentation What you will learnUntangle the complexity of object oriented programming by breaking it down to its essential building blocksRealize the full potential of OOP to design efficient maintainable programsUtilize coding best practices including TDD pair programming and code reviews to improve your workUse tools such as source control and IDEs to work more efficientlyLearn how to most productively work with other developersBuild your own software development philosophyWho this book is for This book is ideal for programmers who want to understand the philosophy behind creating software and what it means to be good at designing software Programmers who want to deconstruct the OOP paradigm and see how it can be reconstructed in a clear straightforward way will also find this book useful To understand the ideas expressed in this book you must be an experienced programmer who wants to evolve their practice

Professional Swift Michael Dippery,2015-06-02 Transition from Objective C to the cleaner more functional Swift quickly and easily Professional Swift shows you how to create Mac and iPhone applications using Apple s new programming language This code intensive practical guide walks you through Swift best practices as you learn the language build an application and refine it using advanced concepts and techniques Organized for easy navigation this book can be read end to end for a self paced tutorial or used as an on demand desk reference as unfamiliar situations arise The first section of the book guides you through the basics of Swift programming with clear instruction on everything from writing code to storing data and Section II adds advanced data types advanced debugging extending classes and more You ll learn everything you need to know to make the transition from Objective C to Swift smooth and painless so you can begin building faster more secure apps than ever before Get acquainted with the Swift language and syntax Write deploy and debug Swift programs Store data and interface with web services Master advanced usage and bridge Swift and Objective C Professional Swift is your guide to the future of OS X and iOS development

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

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Functional Programming in C# Enrico Buonanno,2017-08-12 Summary Functional Programming in C teaches you to apply functional thinking to real world problems using the C language The book with its many practical examples is written for proficient C programmers with no prior FP experience It will give you an awesome new perspective Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Functional programming changes the way you think about code For C developers FP techniques can greatly improve state management concurrency event handling and long term code maintenance And C offers the flexibility that allows you to benefit fully from the application of functional techniques This book gives you the awesome power of a new perspective About the Book Functional Programming in C teaches you to apply functional thinking to real world problems using the C language You ll start by learning the principles of functional programming and the language features that allow you to program functionally As you explore the many practical examples you ll learn the power of function composition data flow programming immutable data structures and monadic composition with LINQ What s Inside Write readable team friendly code Master async and data streams Radically improve error handling Event sourcing and other FP patterns About the Reader Written for proficient C programmers with no prior FP experience About the Author Enrico Buonanno studied computer science at Columbia University and has 15 years of experience as a developer architect and trainer Table of Contents PART 1 CORE CONCEPTS Introducing functional programming Why function purity matters Designing function signatures and types Patterns in functional programming Designing programs with function composition PART 2 BECOMING FUNCTIONAL Functional error handling Structuring an application with functions Working effectively with multi argument functions Thinking about data functionally Event sourcing a functional approach to persistence PART 3 ADVANCED TECHNIQUES Lazy computations continuations and the beauty of monadic composition Stateful programs and stateful computations Working with asynchronous computations Data streams and the Reactive Extensions An introduction to message passing concurrency

SwiftUI for Absolute Beginners Jayant Varma,2019-11-12 Dive into the world of developing for all of Apple platforms with SwiftUI Apple s new framework that makes writing applications faster and easier with fewer lines of code This book teaches the basics of SwiftUI to help you

write amazing native applications using XCode For developers already familiar with ReactNative this book reviews the declarative state based DSL that manages the UI and updates it automatically will feel just like what they re used to You ll see how SwiftUI reduces the number of lines of code required to achieve the same effects by over 60% and provides a much better experience Like the announcement of Swift in 2014 SwiftUI is expected to fundamentally change the way developing programmers approach coding iPhone and iPad applications This book examines how SwiftUI lowers the entry barrier for developers to write amazing cross platform applications for iOS and iPadOS as well as WatchOS Mac OS and TVOS What You ll Learn Write code in the new SwiftUI syntax Combine views to arrange them for an application Add gestures and controls to an application Who This Book Is For Anyone who wants to learn to develop apps for the Mac iPhone iPad and Apple Watch using the Swift programming language No previous programming experience is necessary Trends in Functional Programming Wouter Swierstra,Nicolas Wu,2023-01-01 This book constitutes revised selected papers from the 23rd International Symposium on Trends in Functional Programming TFP 2022 which was held virtually in March 2022 The 9 full papers presented in this volume were carefully reviewed and selected from 17 submissions They deal with all aspects of functional programming taking a broad view of current and future trends in the area **Image Processing and Computer Vision in iOS** Oge Marques,2020-11-23 This book presents the fundamentals of mobile visual computing in iOS development and provides directions for developers and researchers interested in developing iOS applications with image processing and computer vision capabilities Presenting a technical overview of some of the tools languages libraries frameworks and APIs currently available for developing iOS applications Image Processing and Computer Vision in iOS reveals the rich capabilities in image processing and computer vision Its main goal is to provide a road map to what is currently available and a path to successfully tackle this rather complex but highly rewarding task

Functional Programming In Swift Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Functional Programming In Swift**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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