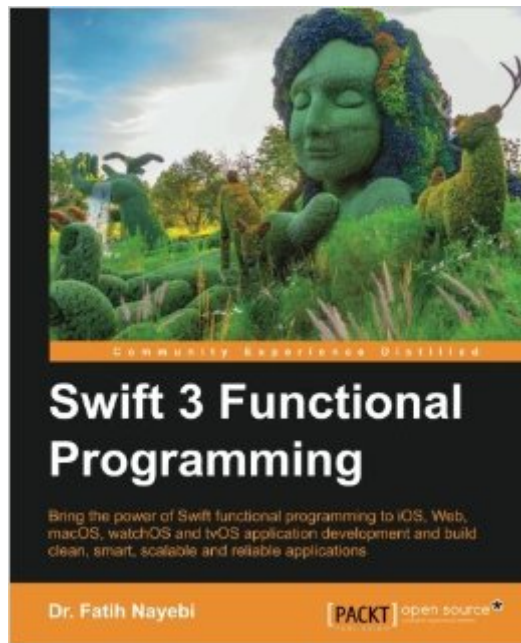


The book was found

# Swift 3 Functional Programming



## Synopsis

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 memorization
- 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

## Book Information

Paperback: 296 pages

Publisher: Packt Publishing - ebooks Account (June 30, 2016)

Language: English

ISBN-10: 1785883887

ISBN-13: 978-1785883880

Product Dimensions: 7.5 x 0.7 x 9.2 inches

Shipping Weight: 1.2 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #94,891 in Books (See Top 100 in Books) #9 in Books > Computers &

Technology > Programming > Languages & Tools > Swift #60 inÂ Books > Computers &  
Technology > Programming > Languages & Tools > C & C++ > C++ #251 inÂ Books > Computers  
& Technology > Networking & Cloud Computing > Internet, Groupware, & Telecommunications

[Download to continue reading...](#)

Swift 3 Functional Programming iOS 10 Programming Fundamentals with Swift: Swift, Xcode, and  
Cocoa Basics iOS Animations by Tutorials Second Edition: Updated for Swift 2.2: iOS 9 and Swift  
2.2 Edition Swift Walker: A Space Adventure: Swift Walker Science and Geography Books for Kids,  
Book 3 Swift Programming Artificial Intelligence: Made Easy, w/ Essential Programming Learn to  
Create your \* Problem Solving \* Algorithms! TODAY! w/ Machine ... engineering, r programming,  
iOS development) Swift: Programming, Master's Handbook; A TRUE Beginner's Guide! Problem  
Solving, Code, Data Science, Data Structures & Algorithms (Code like a PRO in ... engineering, r  
programming, iOS development) Python Programming Guide + SQL Guide - Learn to be an  
EXPERT in a DAY!: Box Set Guide (Python, C++, PHP, Swift, Os, Programming Guide)  
Programming Elixir 1.2: Functional |> Concurrent |> Pragmatic |> Fun Functional Reactive  
Programming Object Oriented Programming with Swift 2 Protocol Oriented Programming with Swift  
Visual Population Codes: Toward a Common Multivariate Framework for Cell Recording and  
Functional Imaging (Computational Neuroscience Series) Functional Awareness: Anatomy in Action  
for Dancers Java: The Simple Guide to Learn Java Programming In No Time  
(Programming,Database, Java for dummies, coding books, java programming)  
(HTML,Javascript,Programming,Developers,Coding,CSS,PHP) (Volume 2) Taylor Swift 2017  
Square (Multilingual Edition) Dress Up Taylor Swift Advanced Swift Test-Driven iOS Development  
with Swift Swift Essentials - Second Edition iOS Apps for Masterminds: How to take advantage of  
Swift to create insanely great apps for iPhones and iPads

[Dmca](#)