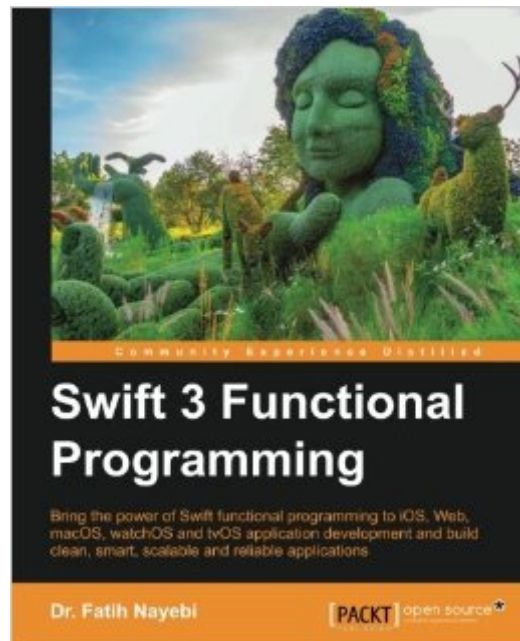**The book was found**

# Swift 3 Functional Programming

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# 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 or 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

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