



Swift Recipes

A Problem-Solution Approach

T. Michael Rogers

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~~This book is dedicated to my wife, Liz, who single-handedly keeps our family together and functioning, and to my children Catherine, Keira, and Anna. I love you all. I thank them and my other friends and family for their patience and support during all the late nights and long weekends of writing.~~

Introduction

Swift is the newest and hottest language in the mobile-development world today. At the 2015 Worldwide Developers Conference (WWDC), Apple announced that it is open sourcing Swift and making it available on other platforms. For developers, this is a huge opportunity to share code inside and outside the Apple ecosystem.

Swift represents an exciting step forward in application development. It brings the power of the latest modern languages, such as functional programming, closures, and extensibility. At the same time, it incorporates tried-and-true concepts, such as type safety and object-oriented structures. This book, *Swift Recipes*, is a reference book for developers who need quick answers to common problems on the iOS and OS X platforms as well as any platform that will support pure Swift in the future.

The book starts out covering core language concepts and provides common problems along with their solutions. Once all the language-specific topics are covered, the book proceeds to offer solutions to common application-development needs and challenges. Each chapter presents recipes in a problem/solution format that can be used individually or in combination with each other. Some recipes build upon each other to form more complex solutions.

In addition to Swift language basics, this book also covers topics such as iOS and OS X application development, multithreading and concurrency, connecting with Web Services and APIs, Core Data, and some advanced iOS 8 topics using Swift.

This book is designed as a reference to help developers get work done. Each chapter includes step-by-step instructions, diagrams, and sample code that explains the concepts behind the solutions, as well as offering the code and patterns required to implement the solutions in your applications.

If you are a developer who develops applications on the iOS or OS X platforms, you will benefit from these solutions. In addition, if you are transitioning from Objective-C to Swift, these recipes will leverage your existing knowledge into creating Swift solutions.

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