

# Ios 10 Swift Programming Cookbook Solutions And Examples For Ios Apps

In this book, we take you on a fun, hands-on and pragmatic journey to learning iOS 14 application development using Swift. You'll start building your first iOS app within minutes. Every section is written in a bite-sized manner and straight to the point as I don't want to waste your time (and most certainly mine) on the content you don't need. In the end, you will have the skills to create an app and submit it to the app store. In the course of this book, we will cover: Chapter 1 & 2 - Working with Xcode and Swift to build a BMI calculator app. Chapter 3 - Build a Quotes app using Table View Chapter 4 - Create a To Do List app (create, read, update and delete to-do items) Chapter 5 - Implement data persistency to our To Do List app using Core Data Chapter 6 - Improve our To Do List app by adding images and swipe deletion Chapter 7 - Build a cryptocurrency price tracker app which retrieves prices via an API Chapter 8 - Build a image detection app using machine learning Chapter 9 - Create an Augmented Reality app with ARKit Chapter 10 - Publish our app on to the App store Chapter 11 - SwiftUI Chapter 12 - Widgets Chapter 13 - App Clips Chapter 14 - Dark Mode Chapter 15 - Porting your iOS App to the Mac with Project Catalyst Chapter 16 - In-App Purchases The goal of this book is to teach you iOS development in a manageable way without

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overwhelming you. We focus only on the essentials and cover the material in a hands-on practice manner for you to code along. About the Reader No previous knowledge on iOS development required, but you should have basic programming knowledge. About the Author Greg Lim is a technologist and author of several programming books. Greg has many years in teaching programming in tertiary institutions and he places special emphasis on learning by doing.

This book guides you through every aspect of iOS development. From Xcode and Swift, the building blocks of modern iOS development, you'll quickly gain a solid foundation to begin venturing deeper into your development journey.

- This book has covered the latest Swift 5.3.
- Use this book as a quick reference guide (like a cheat sheet) for Swift programming language. Access any topic inside a chapter in just one tap.
- For beginners and for dummies, this book is a step-by-step guide to understanding object-oriented programming with Swift.
- If you are an experienced developer who knows at least one modern programming language well, then this book is designed to teach you how to think and program in Swift Programming language.
- Each topic is covered with clear and concise examples for Swift programming language using Playground. I hope you find this book to be a useful and worthy addition to your library. I've had a great time writing it. Hopefully you'll have a great time reading and learning the latest version of Swift 5.3. I will keep updating this book to make it much simpler and more productive. Thank you for purchasing a copy! -Amit Chaudhary, 10th

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January 2021 • Chapters Covered in this book: 1. Basics 2. Constants 3. Variables 4. Data Types 5. Operators 6. String and Characters 7. Control Flow 8. Collection Types (Arrays, Sets, and Dictionaries) 9. Functions 10. Closures 11. Enumerators 12. Structures 13. Classes 14. Properties 15. Subscripts 16. Methods 17. Inheritance 18. Initializers 19. De-Initializers/ Deallocation 20. Protocols 21. Extensions/ Categories 22. Automatic Reference Count 23. Type Casting/ Type Checking 24. Generics 25. Optional Chaining 26. Nested Types 27. Error Handling

Have you always wanted to create your own iOS application? In this book, you will learn how to build an app from scratch using Xcode. We use real-life, practical examples that you will be able to use when developing your own apps. Your first app will be up-and-running in no time! This is the largest iOS and Swift book ever released! Buy it today!

All in on Swift! iOS 10 and Xcode 8 make it clearer than ever that Swift is Apple's language of the future. Core frameworks have been redesigned to work better with Swift, and the language itself continues to evolve quickly. iOS 10 SDK Development is the pure-Swift approach to developing for the iOS platform. This completely revised and updated edition of the bestselling iOS guide shows you how to pull in the SDK's enormous feature set and deliver powerful, real-world apps for iPhone and iPad using modern Swift programming techniques. Swift is the language of the future for iOS development, and this completely revised and updated book is your guide. From the

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community-driven changes in Swift 3 to the overhaul of iOS' Foundation framework to make it more "Swiftly," iOS 10 and Xcode 8 mark an "all in" commitment to Swift, and this new edition matches that commitment. Learn not just the syntax of the Swift language but also stylish Swift, the idiomatic uses of the language, and best practices you'll find in the wild. From there, move into developing a complete, real-world podcast client sample application-completely new for this edition-featuring Internet access, tables, navigation, and media playback, all with the most modern approaches provided by Apple's iOS 10 frameworks and tools. Go beyond code to master the practices that professional developers rely on: testing, debugging, publishing on the App Store, and managing your app over the long haul. As a bonus, you'll get a taste of cutting-edge iOS 10 features, such as the new Siri voice-command API. Swift's time is here. Whether you're new to Swift or just catching up on iOS' latest features, iOS 10 SDK Development will help you master the language and the platform. Through the authors' carefully constructed explanations and examples, you will develop an understanding of Swift grammar and the elements of effective Swift style. Throughout the book, the authors share their insights into Swift to ensure that you understand the hows and whys of Swift and can put that understanding to use in different contexts. After working through the book, you will have the knowledge and confidence to develop your own solutions to a wide range of programming challenges using Swift.

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iOS 12 App Development Essentials, the latest edition of this popular book series, has now been fully updated for the iOS 12 SDK, Xcode 10 and the Swift 4 programming language. Beginning with the basics, this book provides an outline of the steps necessary to set up an iOS development environment. An introduction to the architecture of iOS 12 and programming in Swift 4 is provided, followed by an in-depth look at the design of iOS applications and user interfaces. More advanced topics such as file handling, database management, graphics drawing and animation are also covered, as are touch screen handling, gesture recognition, multitasking, location management, local notifications, camera access and video playback support. Other features are also covered including Auto Layout, local map search, user interface animation using UIKit dynamics, Siri integration, iMessage app development, CloudKit sharing and biometric authentication. Additional features of iOS development using Xcode are also covered, including Swift playgrounds, universal user interface design using size classes, app extensions, Interface Builder Live Views, embedded frameworks, collection and stack layouts and CloudKit data storage in addition to drag and drop integration and the document browser. The key new features of iOS 12 and Xcode 10 are also covered in detail, including Siri shortcuts and the new iOS machine learning features. The aim of this book, therefore, is to teach you the skills necessary to build your own apps for iOS 12. Assuming you are ready to download the iOS 12 SDK and Xcode 10, have an Intel-based Mac and ideas for some apps to develop, you are

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ready to get started.

Master Metal: The Next-Generation Graphics and GPU Programming Platform for Apple Developers Metal enables Apple developers to maximize performance in demanding tasks like 3D graphics, games, scientific programming, visualization, and GPU-accelerated machine learning. Metal(R) Programming Guide is the authoritative, practical guide to Metal for all iOS programmers who are interested in graphics programming but don't know where to start. Pioneering Apple developer Janie Clayton covers everything from basic draw calls to advanced parallel computing, combining easy-to-understand conceptual explanations with well-tested Swift 4/Xcode 9 sample code (available for download at GitHub). Clayton introduces the essential Metal, graphics, and math concepts every graphics programmer needs to know. She also discusses key graphics-specific libraries, concepts, and Metal Classes, presenting techniques and examples you'll find valuable for both graphics and data processing. Clayton also provides coverage of the Metal Compute Pipeline, demonstrating practical GPU programming applications ranging from image processing to neural networking. Quickly get a basic Metal project running Work with Metal resources and memory management Learn how shaders are compiled and accessed by the CPU Program both 2D and 3D graphics with Metal Import 3D models and assets from Blender, Maya, and other programs Apply imported textures to model objects Use multipass rendering to efficiently implement computationally expensive techniques Leverage tessellation to

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Unlock the full potential of iOS 10 programming with Swift 3.0 to build rich and powerful applications. About This Book\* This practical guide will help you make the transition to professional iOS developer\* Implement numerous powerful iOS 10 and Swift 3 techniques to build high-quality apps through this book\* Get the most in-depth, advanced-level guide on the latest version of iOS and take a hands-on approach Who This Book Is For This book takes a no-frill approach and is very code-specific. The focus is on teaching advanced concepts through a series of small projects and standalone examples that help you gain expertise with various aspects of iOS application development. What you will learn\* Write beautiful Swift code with Protocol-Oriented Programming and best practices\* Create rich views and layouts with responsive animations and transitions.\* Handle data, both from the web and offline\* Integrate with iOS and improve the user experience with app extensions\* Make sure that your app is of outstanding quality with XCTest\* Measure and improve performance by using Xcode

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Instruments\* Embrace the latest extension features in iOS 10 such as the new rich notifications, SiriKit, and iMessageIn DetailWith usage of apps growing rapidly, mobile application development has become the most sought-after skill set. Within the mobile market, iOS commands a massive presence and is a highly lucrative platform. The goal of our book is to help you become a professional developer by unleashing the full potential of iOS 10 to build applications. Written with the latest Swift version and following the latest Swift API design guidelines, you won't just learn how to program for iOS 10-you'll also learn how to write beautiful, readable, and maintainable Swift code that's in line with the industry's best-practices. The progression of the book reflects the real-world development flow: it will quickly brush on the essentials at the beginning and then move on to the advanced concepts crucial to building powerful applications. Within the book, you will build a couple of small applications that resemble applications you might want to build in the real world. You will be reading a mix of thorough background information and practical examples, so you'll know how to make use of a certain technique right away while you also get a great understanding of the how and why.

Get ahead of everyone else and learn the latest technologies introduced by Apple. This is the first book to teach you how to work with Swift 3, Xcode 8, iOS

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10 and the new APIs. iOS Apps for Masterminds leads the reader step by step to master the complex subjects required to create applications for iPhones and iPads. After reading this book, you will know how to program in Swift, how to design user interfaces, and how to work with the most powerful frameworks available for the construction of modern applications. This book is a complete course that will teach you how to build insanely great applications from scratch. Every chapter explores both basic and complicated concepts of computer programming, the Swift language, and app development. The information is supported by fully functional examples to guide beginners and experts through every single framework included in the iOS SDK. The examples are distributed throughout the book in a specific order to gradually introduce complex topics and make them accessible to everyone. The goal of iOS Apps for Masterminds is to make you familiar with the most advanced technologies for app development. It was designed to prepare you for the future and was written for the genius inside you, for Masterminds. This book includes: Introduction to Swift 3 Swift Paradigm Foundation Framework UIKit Framework Auto Layout Size Classes Navigation Controllers Scroll Views Table Views Collection Views Split View Controller Alert Views Notifications Files Archiving Core Data iCloud Core Graphics and Quartz 2D Core Animation AVFoundation Camera and Photo Library Web Views

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Contacts Sensors MapKit Gesture Recognizers Timers Operation Queues Error Handling Image and Video Internationalization ...and more! iOS app development with iOS 10, Xcode 8 and Swift 3 App development, Swift programming, Create apps, Create app, iPhone apps, Build app, Swift language, develop application, Objective-C, Apple development, iOS development, iOS Apps, Program apps. The Swift Programming Book (Over 600 pages) The 'Beginning iOS 10 Programming with Swift' ebook, available in PDF and ePub formats. Source code The complete source code and Xcode project of the demo apps you'll build. Learn how to code in Swift and build a real world app from scratch Now fully updated for Xcode 8, Swift 3 and iOS 10

Learn how to create apps for iOS 12 before anyone else. This is the first book to teach you how to work with Swift 4.2, Xcode 10, iOS 12 and the new APIs introduced by Apple. iOS Apps for Masterminds leads the reader step by step to master the complex subjects required to create applications for iPhones and iPads. After reading this book, you will know how to program in Swift, how to design user interfaces, and how to work with the most powerful frameworks available for the construction of modern applications. This book is a complete course that will teach you how to build insanely great applications from scratch. Every chapter explores both basic and complicated concepts of computer

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programming, the Swift language, and app development. The information is supported by functional examples that guide beginners and experts through the most fundamental frameworks included in the iOS SDK. The examples are distributed throughout the book in a specific order to gradually introduce complex topics and make them accessible to everyone. The goal of iOS Apps for Masterminds is to make you familiar with the most advanced technologies for app development. It was designed to prepare you for the future and was written for the genius inside you, for Masterminds. This book includes: Introduction to Swift 4.2 Swift Paradigm Foundation Framework UIKit Framework Auto Layout Size Classes Navigation Controllers Scroll Views Stack Views Table Views Collection Views Split View Controller Alert Views Notifications Files Archiving Core Data iCloud CloudKit Core Graphics and Quartz 2D Core Animation AVFoundation Camera and Photos Library Web Kit Views Gesture Recognizers Timers Operation Queues Error Handling Image and Video Internationalization ...and more! iOS app development with iOS 12, Xcode 10 and Swift 4.2 App development, Swift programming, Create apps, Create app, iPhone apps, Build app, Swift language, develop application, Objective-C, Apple development, iOS development, iOS Apps, Program apps.

Learn how to create apps for iOS 12 before anyone else. This is the first book to

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teach you how to work with Swift 4.2, Xcode 10, iOS 12 and the new APIs introduced by Apple iOS Apps for Masterminds leads the reader step by step to master the complex subjects required to create applications for iPhones and iPads. After reading this book, you will know how to program in Swift, how to design user interfaces, and how to work with the most powerful frameworks available for the construction of modern applications. This book is a complete course that will teach you how to build insanely great applications from scratch. Every chapter explores both basic and complicated concepts of computer programming, the Swift language, and app development. The information is supported by functional examples that guide beginners and experts through the most fundamental frameworks included in the iOS SDK. The examples are distributed throughout the book in a specific order to gradually introduce complex topics and make them accessible to everyone. The goal of iOS Apps for Masterminds is to make you familiar with the most advanced technologies for app development. It was designed to prepare you for the future and was written for the genius inside you, for Masterminds. This book includes: Introduction to Swift 4.2 Swift Paradigm Foundation Framework UIKit Framework Auto Layout Size Classes Navigation Controllers Scroll Views Stack Views Table Views Collection Views Split View Controller Alert Views Notifications Files Archiving Core Data

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iCloud CloudKit Core Graphics and Quartz 2D Core Animation AVFoundation Camera and Photos Library WebKit Views Gesture Recognizers Timers Operation Queues Error Handling Image and Video Internationalization ...and more! iOS app development with iOS 12, Xcode 10 and Swift 4.2 App development, Swift programming, Create apps, Create app, iPhone apps, Build app, Swift language, develop application, Objective-C, Apple development, iOS development, iOS Apps, Program apps.

Get ahead of everyone else and learn the latest technologies introduced by Apple. This is the first book to teach you how to work with Swift 3, Xcode 8, iOS 10 and the new APIs. iOS Apps for Masterminds leads the reader step by step to master the complex subjects required to create applications for iPhones and iPads. After reading this book, you will know how to program in Swift, how to design user interfaces, and how to work with the most powerful frameworks available for the construction of modern applications. This book is a complete course that will teach you how to build insanely great applications from scratch. Every chapter explores both basic and complicated concepts of computer programming, the Swift language, and app development. The information is supported by fully functional examples to guide beginners and experts through every single framework included in the iOS SDK. The examples are distributed

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throughout the book in a specific order to gradually introduce complex topics and make them accessible to everyone. The goal of iOS Apps for Masterminds is to make you familiar with the most advanced technologies for app development. It was designed to prepare you for the future and was written for the genius inside you, for Masterminds. This book includes: Introduction to Swift 3 Swift Paradigm Foundation Framework UIKit Framework Auto Layout Size Classes Navigation Controllers Scroll Views Table Views Collection Views Split View Controller Alert Views Notifications Files Archiving Core Data iCloud Core Graphics and Quartz 2D Core Animation AVFoundation Camera and Photos Library Web Views Contacts Sensors MapKit Gesture Recognizers Timers Operation Queues Error Handling Image and Video Internationalization ...and more! iOS app development with iOS 10, Xcode 8 and Swift 3 App development, Swift programming, Create apps, Create app, iPhone apps, Build app, Swift language, develop application, Objective-C, Apple development, iOS development, iOS Apps, Program apps. Learn the fundamental elements of the new Swift 3 programming language as applied to game development for new iOS 10. In Part 1 of this book, you'll start with a basic 2D game idea and build the game throughout the book introducing each SpriteKit topic as you add new functionality to the game. By the end of the book, you'll have experience with all the important SpriteKit topics and have a

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fully functional game as a result. In Part 2, you'll learn 3D game development using Apple's SceneKit framework and the Swift programming language, following the same pattern used for Part 1. Game apps are one of the most popular categories in the Apple iTunes App Store. In response, James Goodwill and Wesley Matlock bring you *Beginning Swift Games Development for iOS, Third Edition* an update to their best-selling work. After reading and using this book, you'll have the skills and the code to build your first 2D and then 3D game app that you can run on any iOS-enabled device. What you'll learn Discover what's in the new Swift 3 programming language Apply Swift 3 to iOS 10 and 9 game development Build a 2D game app using SpriteKit and Swift Build a 3D game from 2D using SceneKit and Swift Who this book is for iOS app developers new to Swift or for those thinking of trying iOS game app development for the very first time.

Implement object-oriented programming paradigms with Swift 3.0 and mix them with modern functional programming techniques to build powerful real-world applications About This Book Leverage the most efficient object-oriented design patterns in your Swift applications Write robust, safer, and better code using the blueprints that generate objects Build a platform with object-oriented code using real-world elements and represent them in your apps Who This Book Is For This

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book is for iOS and macOS developers who want to get a detailed practical understanding of object-oriented programming with the latest version of Swift: 3.0. What You Will Learn Write high-quality and easy-to-maintain reusable object-oriented code to build applications for iOS, macOS, and Linux Work with encapsulation, abstraction, and polymorphism using Swift 3.0 Work with classes, instances, properties, and methods in Swift 3.0 Take advantage of inheritance, specialization, and the possibility to overload or override members Implement encapsulation, abstraction, and polymorphism Explore functional programming techniques mixed with object-oriented code in Swift 3.0 Understand the differences between Swift 3.0, previous Swift versions, and Objective-C code In Detail Swift has quickly become one of the most-liked languages and developers' de-facto choice when building applications that target iOS and macOS. In the new version, the Swift team wants to take its adoption to the next level by making it available for new platforms and audiences. This book introduces the object-oriented paradigm and its implementation in the Swift 3 programming language to help you understand how real-world objects can become part of fundamental reusable elements in the code. This book is developed with XCode 8.x and covers all the enhancements included in Swift 3.0. In addition, we teach you to run most of the examples with the Swift REPL available on macOS and Linux,

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and with a Web-based Swift sandbox developed by IBM capable of running on any web browser, including Windows and mobile devices. You will organize data in blueprints that generate instances. You'll work with examples so you understand how to encapsulate and hide data by working with properties and access control. Then, you'll get to grips with complex scenarios where you use instances that belong to more than one blueprint. You'll discover the power of contract programming and parametric polymorphism. You'll combine generic code with inheritance and multiple inheritance. Later, you'll see how to combine functional programming with object-oriented programming and find out how to refactor your existing code for easy maintenance. Style and approach This simple guide is packed with practical examples of solutions to common problems. Each chapter includes exercises and the possibility for you to test your progress by answering a quiz

iOS 11, Swift 4, and Xcode 9 provide many new APIs for iOS developers. With this cookbook, you'll learn more than 170 proven solutions for tackling the latest features in iOS 11 and watchOS 4, including new ways to use Swift and Xcode to make your day-to-day app development life easier. This collection of code-rich recipes also gets you up to speed on continuous delivery and continuous integration systems. Ideal for intermediate and advanced iOS developers looking to work with the newest version of

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iOS, these recipes include reusable code on GitHub, so you can put them to work in your project right away. Among the topics covered in this book: New features in Swift 4 and Xcode 9 Tools for continuous delivery and continuous integration Snapshot testing and test automation Creating document-based applications Updated Map view and Core Location features iOS 11's Security and Password Autofill Data storage with Apple's Core Data Creating lively user interfaces with UI Dynamics Building iMessage applications and sticker packages Integrating Siri into your apps with Siri Kit Creating fascinating apps for Apple Watch

Begin your iOS mobile application development journey with this accessible, practical guide

**About This Book\*** Use Swift 3 and latest iOS 10 features to build awesome apps for iPhone and iPad\* Explore and use a wide range of Apple development tools to become a confident iOS developer\* From prototype to App Store-find out how to build an app from start to finish!

**Who This Book Is For**This book is for beginners who want to be able to create iOS applications. If you have some programming experience, this book is a great way to get a full understanding of how to create an iOS application from scratch and submit it to the App Store. You do not need any knowledge of Swift or any prior programming experience.

**What you will learn\*** Get to grips with Swift 3 and Xcode, the building blocks of Apple development\* Get to know the fundamentals of Swift, including variables, constants, and control flow\* Discover the distinctive design principles that define the iOS user experience\* See how to prototype your app with

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Swift's Playgrounds feature\* Build a responsive UI that looks great on a range of devices\* Find out how to use CoreLocation to add location services to your app\* Add push notifications to your app\* Make your app able to be used on both iPhone and iPad

In Detail You want to build iOS applications for iPhone and iPad-but where do you start? Forget sifting through tutorials and blog posts, this is a direct route into iOS development, taking you through the basics and showing you how to put the principles into practice. With every update, iOS has become more and more developer-friendly, so take advantage of it and begin building applications that might just take the App Store by storm! Whether you're an experienced programmer or a complete novice, this book guides you through every facet of iOS development. From Xcode and Swift-the building blocks of modern Apple development-and Playgrounds for beginners, one of the most popular features of the iOS development experience, you'll quickly gain a solid foundation to begin venturing deeper into your development journey. For the experienced programmer, jump right in and learn the latest iOS 10 features. You'll also learn the core elements of iOS design, from tables to tab bars, as well as more advanced topics such as gestures and animations that can give your app the edge. Find out how to manage databases, as well as integrating standard elements such as photos, GPS into your app. With further guidance on beta testing with TestFlight, you'll quickly learn everything you need to get your project on the App Store!

This book covers iOS 12 app design fundamentals using the latest Swift 4.2

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programming language, Xcode 10 and iOS 12 SDK. The author assumes you have no experience in app development. The book starts with the installation of the required programming environment and setting up the simulators. Then, the simplest "Hello World" app is developed step by step. In the next chapter, basics of the Swift 4.2 programming language are given with practical examples. Screenshots and code snippets are clearly given in the book to guide the reader. After the Swift lecture, 7 real world apps are developed again by step by step instructions. Each code line is explained. As the reader follows the development of the example apps, he/she will learn designing user interfaces, connecting interface objects to code, developing efficient Swift code and testing the app in simulators and real devices. Sample apps developed in this book are as follows: 1. Disco lights app: Learn the basics of app development and use buttons in your code. 2. Body mass index (BMI) calculator app: Using input boxes, performing calculations and displaying the results on the screen. 3. Simple die roller app: Using random number generator functions, including image sets in your project, displaying images on the screen and changing the displayed image using Swift code. 4. Exercise calorie calculator app: Using global variables, creating tabbed apps and utilizing segmented controls. 5. Show my location app: Adding a map object to your app, setting required permissions, accessing GPS device and showing real time location on the map. 6. SOS sender app: Adding SMS functionality, setting required permissions and sending real time location using SMS. 7. Bounce the ball

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game: Basics of SpriteKit that is used to develop 2D iOS games, adding objects to the game, sensing screen touches, moving game objects according to touches, combining all these and more to develop a complete ball bouncing game. This book includes 214 figures and 101 code snippets that are used to explain app development concepts clearly. Full resolution colour figures and complete project files can be viewed and downloaded from the the book's website: [www.yamaclis.com/ios12](http://www.yamaclis.com/ios12).

Move into iOS development by getting a firm grasp of its fundamentals, including the Xcode IDE, the Cocoa Touch framework, and Swift 3—the latest version of Apple’s acclaimed programming language. With this thoroughly updated guide, you’ll learn Swift’s object-oriented concepts, understand how to use Apple’s development tools, and discover how Cocoa provides the underlying functionality iOS apps need to have. Explore Swift’s object-oriented concepts: variables and functions, scopes and namespaces, object types and instances Become familiar with built-in Swift types such as numbers, strings, ranges, tuples, Optionals, arrays, dictionaries, and sets Learn how to declare, instantiate, and customize Swift object types: enums, structs, and classes Discover powerful Swift features such as protocols and generics Catch up on Swift 3 innovations: revised APIs, new Foundation bridged types, and more Tour the lifecycle of an Xcode project from inception to App Store—including Xcode’s new automatic code signing and debugging features Construct app interfaces with the nib editor, Interface Builder Understand Cocoa’s event-driven model and its major design patterns and

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features Find out how Swift communicates with Cocoa's C and Objective-C APIs Once you master the fundamentals, you'll be ready to tackle the details of iOS app development with author Matt Neuburg's companion guide, *Programming iOS 10*. If you're grounded in the basics of Swift, Xcode, and the Cocoa framework, this book provides a structured explanation of all essential real-world iOS app components. Through deep exploration and copious code examples, you'll learn how to create views, manipulate view controllers, and add features from iOS frameworks. Stay up-to-date on iOS 10 innovations, such as property animators, force touch, speech recognition, and the User Notification framework, as well as Xcode 8 improvements for autolayout and asset catalogs. All example code (now rewritten in Swift 3) is available on GitHub for you to download, study, and run. Create, arrange, draw, layer, and animate views that respond to touch Use view controllers to manage multiple screens of interface Master interface classes for scroll views, table views, text, popovers, split views, web views, and controls Dive into frameworks for sound, video, maps, and sensors Access user libraries: music, photos, contacts, and calendar Explore additional topics, including files, networking, and threads Want to brush up on the basics? Pick up *iOS 10 Programming Fundamentals with Swift* (978-1-491-97007-2) to learn about Swift, Xcode, and Cocoa. Together with *Programming iOS 10*, you'll gain a solid, rigorous, and practical understanding of iOS 10 development. Designing iOS mobile apps using simple Swift codes and libraries. KEY FEATURES ?

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Combines the fundamentals of Swift and power-packed libraries, including SwiftUI. ? Includes graphical illustrations and step-by-step instructions on coding your first iOS application. ? Covers end-to-end iOS app development with code debugging and best practices. DESCRIPTION 'Swift in 30 Days' teaches young graduates and coding applicants to enter the field of rapid development of applications through simplified, pragmatic, and quick programming learning without much theory. The book examines the basics of Swift programming, fundamental Swift building blocks, how to write syntax, constructs, define classes, arrays, model data with interfaces, and several examples of Swift programming. The book will help you to create the environment for app development, including tools and libraries like Xcode and SwiftUI. You will learn to work with Xcode and Swift libraries and finally make an independently developed Swift application. You will have access to design patterns and learn how to handle errors, debug, and work with protocols. By the end of this book, you will become a trusted Swift programmer and a successful iOS developer who will dive deeper into Apple's intelligent app programming challenge. WHAT YOU WILL LEARN ? Create an iOS app from scratch and learn fundamental Swift concepts such as operators and control flow. ? Create intuitive and intelligent user interfaces with an understanding of self-design and constraints. ? Recap OOP concepts and Swift protocol-based programming. ? Work with design patterns, write clean codes, and build expert tables and navigations. ? Work with Xcode and SwiftUI 2.0. WHO THIS BOOK IS FOR This book is for students,

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graduates, and entry-level coders who want to learn iOS app development without prior Swift or mobile app development experience. TABLE OF CONTENTS Week 1 (Beginner) 1. Building Your First App 2. Swift Programming Basics 3. Auto Layout 4. Types and Control Flow Week 2 (Intermediate) 5. Optional Type and More 6. Code Structuring Week 3 (Advanced) 7. OOP in Swift 8. Protocols and Delegates Week 4 (Bonus) 9. Error handling and Debugging 10. SwiftUI

Completely rewritten in Swift and with more than 50 new recipes, this new edition presents dozens of solutions to common problems that face iOS developers.

Thoroughly updated for the iOS 10 SDK, each recipe in the book starts with a problem and offers solutions with example code. You'll also get a comprehensive discussion on how to apply the solutions, including the tradeoffs involved. The recipes in the third edition provide solutions to problems faced by beginners, as well as intermediate and advanced iOS developers.

Mastering iOS 14 Programming is the fourth book in the Mastering iOS series, which started back in 2016 with iOS 10. In this latest edition, you'll learn how to build robust iOS apps by harnessing advanced techniques and making the best use of iOS 14's features.

Entirely rewritten for Apple's Swift programming language, this updated cookbook helps you overcome the vexing issues you're likely to face when creating apps for iOS devices. You'll find hundreds of new and revised recipes

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for using the iOS 8 SDK, including techniques for working with Health data and HomeKit accessories, enhancing and animating graphics, storing and protecting data, sending and receiving notifications, and managing files and folders among them. Each recipe includes sample code on GitHub that you can use right away. Use CloudKit APIs to store information in the cloud with ease Create custom keyboards and extensions Access users' health-related information with HealthKit Interact with accessories inside the user's home with HomeKit Create vibrant and lifelike user interfaces with UIKit Dynamics Use the Keychain to protect your app's data Develop location-aware and multitasking-aware apps Work with iOS 8's audio and video APIs Use Event Kit UI to manage calendars, dates, and events Take advantage of the accelerometer and the gyroscope Get working examples for implementing gesture recognizers Retrieve and manipulate contacts and groups from the Address Book Determine a camera's availability and access the Photo Library

Ready to build stunning apps for iPhone, iPad, and Apple Watch? This cookbook—completely rewritten with all-new material—provides 90 proven solutions for tackling the latest features in iOS 9 and watchOS 2.0. Written exclusively in Apple's Swift language, these code-rich recipes show you how to use dynamic user interfaces, interactive maps, multitasking functionality, Apple's

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new UI Testing framework, and many other features. This cookbook is ideal for intermediate and advanced iOS developers looking to work with the newest versions of Apple's mobile operating systems. Each recipe includes reusable code, available on GitHub, that you can put to work right away. Work with new features in Swift 2, Xcode 7, and Interface Builder Build standalone apps for Apple Watch Create vibrant user interfaces with new UIKit features Use Swift to connect with the iOS contacts database Block ads or obtrusive content with Safari Content Blockers Make your app content searchable with Spotlight APIs Add Picture in Picture playback functionality to iPad apps Take advantage of MapKit and Core Location updates Use Apple's new UI Testing framework Live up your UI with gravity and turbulence fields

iOS is for developers looking to step into the sometimes frightening world of iPhone and iPad app development. Written as the companion to Objective-C , this e-book guides you from creating a simple, single page application to managing assets in a complex, multi-scene application. Advanced features such as localizing application UI, and working with the Audio Toolbox and AVAudioPlayer frameworks are also covered. If you're looking for the fastest way to get up and running with iOS development, forget about the 1,500+ pages of documentation in the iOS Developer Library. This is the only resource you

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need. This updated and expanded second edition of Book provides a user-friendly introduction to the subject, Taking a clear structural framework, it guides the reader through the subject's core elements. A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for all those interested in the subject. We hope you find this book useful in shaping your future career & Business.

Over 50 exciting and powerful recipes to help you unearth the promise of iOS programming About This Book Create high performance iOS apps with a focus on application development APIs and techniques Enrich your UI skills with UIStoryboard, Autolayout, Size classes, and Container view Produce enhanced results with iOS 10 as a result of learning and implementing pro-level practices, techniques, and solutions Who This Book Is For If you are an iOS developer on a quest to develop your perfect iOS app, then this book is for you. It would also prove to be a valuable resource for those who want to get up and running with iOS development through a clear, practical approach. In order to unleash the full potential of this book, basic Swift programming knowledge is necessary. What You Will Learn Build your own custom UIViews through code or the interface builder Implement a dynamic and interactive interface in an iOS app Work on

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various graphics related elements and the process of using them together to make meaningful shapes. Use the side over and split view to interact with multiple apps concurrently Encrypt JSON calls to make the app more secure Work on web markup feature to enhance search optimization In Detail Do you want to understand all the facets of iOS programming and build complex iOS apps? Then you have come to the right place. This problem-solution guide will help you to eliminate expensive learning curves and focus on specific issues to make you proficient at tasks and the speed-up time involved. Beginning with some advanced UI components such as Stack Views and UICollectionView, you will gradually move on to building an interface efficiently. You will work through adding gesture recognizer and touch elements on table cells for custom actions. You will work with the Photos framework to access and manipulate photos. You will then prepare your app for multitasking and write responsive and highly efficient apps. Next, you will integrate maps and core location services while making your app more secure through various encryption methods. Finally, you will dive deep into the advanced techniques of implementing notifications while working with memory management and optimizing the performance of your apps. By the end of the book, you will master most of the latest iOS 10 frameworks. Style and approach This is the best practical resource on iOS 10 development.

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This book, with its no nonsense approach and a clear practical focus, will be your best friend on your quest to develop your perfect iOS app. The best thing about this book is that in addition to recipes on iOS programming techniques and app development essentials, it will take you on a complete guided tour of all the new app development APIs that are shipped with iOS 10.

Create your very own apps for the latest iOS devices. You'll start with the basics, and then work your way through the process of downloading and installing Xcode and the iOS 10 SDK, and then guides you through the creation of your first simple application. Assuming little or no working knowledge of the Swift programming language, and written in a friendly, easy-to-follow style, *Beginning iPhone Development with Swift 3* offers a comprehensive course in iPhone and iPad programming. In this third edition of the best-selling book, you'll learn how to integrate all the interface elements iOS users have come to know and love, such as buttons, switches, pickers, toolbars, and sliders. Every single sample app in the book has been rebuilt from scratch using the latest Xcode and the latest iOS 10-specific project templates, and designed to take advantage of the latest Xcode features. Discover brand-new technologies, as well as significant updates to existing tools. You'll master a variety of design patterns, from the simplest single view to complex hierarchical drill-downs. The art of table building will be

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demystified, and you'll learn how to save your data using the iOS file system. You'll also learn how to save and retrieve your data using a variety of persistence techniques, including Core Data and SQLite. And there's much more! What You Will Learn Develop your own bestselling iPhone and iPad apps Utilize Swift playgrounds Display data in Table Views Draw to the screen using Core Graphics Use iOS sensor capabilities to map your world Get your app to work with iCloud and more Who This Book is For Anyone who wants to start developing for iPhone and iPad.

Ready to build truly stunning apps for iPhone, iPad, and Apple Watch? This cookbook—written exclusively in Swift 3—provides more than 120 proven solutions for tackling the latest features in iOS 10 and watchOS 3. With these code-rich recipes, you'll learn how to build dynamic voice interfaces with Siri and messaging apps with iMessage. You'll also learn how to use interactive maps, multitasking functionality, the UI Testing framework, and many other features. This cookbook is ideal for intermediate and advanced iOS developers looking to work with the newest versions of Apple's mobile operating systems. Each recipe includes reusable code that's available on GitHub, so you can put it to work right away. Let users interact with your apps and services through Siri Write your own iMessage extensions that allow added interactivity Work with features in Swift 3,

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Xcode 8, and Interface Builder Build standalone apps for Apple Watch Create vibrant user interfaces with new UIKit features Use Spotlight APIs to make your app content searchable Add Picture in Picture playback functionality to iPad apps Take advantage of MapKit and Core Location updates Use Apple's new UI Testing framework Liven up your UI with gravity and turbulence fields

This book leads you through the essential concepts and new iOS 10 SDK and Swift 3 programming language APIs to build iPhone and iPad database driven applications using the defacto standard for data storage for mobile apps, SQLite. Readers will learn about SQL operations like selecting, inserting, updating and deleting data using various data types like text, numerical types, images and even audio/video data. After working through this book, you will gain an expert view of developing iOS apps using SQLite as a data storage using Objective-C and Swift. With Build iOS Database Apps with Swift and SQLite you will also gain expert knowledge on how to create databases at runtime, including creating or modifying indexes, triggers, tables, columns, and views. The examples use time-tested code from working applications.

What You'll Learn: How to create database and database applications using iOS and Swift How to insert, select, edit, and delete records How to extend SQLite How to work with multi-database apps How to use SQLite with Swift How to backup online SQLite Databases and

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more Who This Book Is For: Experienced Apple iOS, Swift programmers and developers.

It's not just about the theory or syntax of Swift. Just like our beginner book, this intermediate book (over 450 pages) will help you learn the new APIs introduced in iOS 8/9/10 in a practical way. You will learn by writing code. As you follow the book to build apps, you will learn the new features of Swift and iOS SDK along the way.

This is the definitive guide to the Swift programming language and the iOS 9 SDK, and the source code has been updated to reflect Xcode 7 and Swift 3. There's up-to-date coverage of new Apple technologies as well as significant updates to existing material. You'll have everything you need to create your very own apps for the latest iOS devices. Every single sample app in the book has been rebuilt from scratch using the latest Xcode and the latest 64-bit iOS 9-specific project templates, and designed to take advantage of the latest Xcode features. Assuming little or no working knowledge of the new Swift programming language, and written in a friendly, easy-to-follow style, this book offers a complete soup-to-nuts course in iPhone, iPad, and iPod touch programming. The book starts with the basics, walking through the process of downloading and installing Xcode and the iOS 9 SDK, and then guides you through the creation of

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your first simple application. From there, you'll learn how to integrate all the interface elements iOS users have come to know and love, such as buttons, switches, pickers, toolbars, and sliders. You'll master a variety of design patterns, from the simplest single view to complex hierarchical drill-downs. The art of table building will be demystified, and you'll learn how to save your data using the iPhone file system. You'll also learn how to save and retrieve your data using a variety of persistence techniques, including Core Data and SQLite. And there's much more!

**What You Will Learn:** Everything you need to know to develop your own bestselling iPhone and iPad apps Utilizing Swift playgrounds Best practices for optimizing your code and delivering great user experiences“/li> What data persistence is, and why it's important Get started with building cool, crisp user interfaces How to display data in Table Views How to draw to the screen using Core Graphics How to use iOS sensor capabilities to map your world How to get your app to work with iCloud and more Who This Book is For: If you're grounded in the basics of Swift, Xcode, and the Cocoa framework, this book provides a structured explanation of all essential real-world iOS app components. Through deep exploration and copious code examples, you'll learn how to create views, manipulate view controllers, and add features from iOS frameworks. Create, arrange, draw, layer, and animate views that respond to

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touch Use view controllers to manage multiple screens of interface Master interface classes for scroll views, table views, text, popovers, split views, web views, and controls Dive into frameworks for sound, video, maps, and sensors Access user libraries: music, photos, contacts, and calendar Explore files, networking, and threads Stay up-to-date on iOS 13 innovations, such as: Symbol images Light and dark mode Sheet presentation Diffable data sources and compositional layout Context menus and previews Window scene delegates and multiple windows on iPad Want to brush up on the basics? Pick up iOS 13 Programming Fundamentals with Swift to learn about Swift, Xcode, and Cocoa. Together with Programming iOS 13, you'll gain a solid, rigorous, and practical understanding of iOS 13 development.

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Learn by Doing It's not just about the theory or syntax of Swift. Just like our beginner book, this intermediate book (over 450 pages) will help you learn the new APIs introduced in iOS 8/9/10 in a practical way. You will learn by writing code. As you follow the book to build apps, you will learn the new features of Swift and iOS SDK along the way.

Leverage the power of the Functional Reactive Programming paradigm with Swift

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to develop robust iOS applications About This Book- Build highly responsive applications with this practical introduction to Reactive programming- This book uses ReactiveCocoa, the most popular solution for Reactive Programming on iOS to install, debug, and develop a framework with Swift- Switch from the traditional programming style to the reactive paradigm to code your first reactive applications with ease Who This Book Is For Reactive Programming with Swift is for Swift developers who want to start making more powerful and efficient applications. You need a basic understanding of Swift to follow along. This book takes a first-principles approach to what Reactive Programming is and how you can start implementing it in your next iOS applications. What You Will Learn- Switch your programming concepts from imperative to Functional reactive programming- Improve your app's maintenance by developing with a different paradigm- Create unit tests and automation tests using the ReactiveCocoa framework- Create clear code that is very easy to read- Get accustomed to migrating mobile apps to the Reactive way of programming- Perform asynchronous calls and join them later In Detail Reactive programming helps you write applications that are more powerful and efficient. You can write more software, help more people, and create applications that scale. Reactive programming is a growing paradigm that we will help you set to work in

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Swift.Reactive Programming with Swift guides you through migrating from the traditional way of developing to the new ReactiveCocoa framework, which uses Swift as its main programming language. You will learn how to develop with this framework, debug code, create unit tests, use additional frameworks, and convert a traditional framework into a ReactiveCocoa one. Starting with a crash course on the fundamental concepts of Reactive programming, we'll set you up so you're ready to create reactive applications. We'll then move on to topics such as Graphical events, Streaming, and Core data, which will help you dive deeper with advanced programming. The concept of switching your programming concepts from imperative to functional reactive programming will also be covered. By the end of this book, you will be able to successfully create highly functional apps using Swift. Style and approach This book is a fast-paced, practical guide compiled with ample images and screenshots that explain how to create apps and demonstrate their logic.

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