

Download File IOS 11 Swift Programming Cookbook Pdf Free Copy

IOS 11 Swift Programming Cookbook IOS 11 Programming Fundamentals with Swift Programming IOS 11 Programming iOS 11 iOS 13 Programming for Beginners Programming IOS 11 Swift Programming Beginning IOS 13 & Swift App Development: Develop IOS Apps with Xcode 11, Swift 5, Core ML, ARKit and More IOS 11 Programming Fundamentals with Swift IOS 10 Swift Programming Cookbook IOS 13 Programming Fundamentals with Swift Learn IOS 11 Programming with Swift 4 - Second Edition Beginner's Guide to IOS 11 App Development Using Swift 4 Learn IOS 11 Programming with Swift 4 iPhone Programming Swift Programming Learn Swift by Building Applications Swift Cookbook IOS 15 Programming Fundamentals with Swift Programming iOS 14 iOS 14 Programming Fundamentals with Swift Beginning Swift IOS 11 App Development Essentials Swift in Depth Swift iOS Programming for Kids

Programming iOS 13 iOS 12 Programming Fundamentals with Swift iOS Development with Swift Beginner's Guide to IOS 13 App Development Using Swift 5. 1 Swift for Programmers Expert Swift (First Edition) Learning Swift iOS Programming IOS 11 Programming with Swift macOS Programming for Absolute Beginners SwiftUI Essentials - iOS 14 Edition Learning Core Audio RxSwift (Fourth Edition) IOS 10 Programming Fundamentals with Swift Head First Swift

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, 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 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 code in Swift, it requires a new way of thinking to take advantage of its powerful features and a solid understanding of the basics to become productive. What you will learn Explore the fundamental Swift programming concepts, language structure, and the Swift programming syntax Learn how Swift compares to other computer languages and how to transform your thinking to leverage new concepts such as optionals and protocols Master how to use key language elements, such as strings and collections Grasp how Swift supports modern application development using advanced features, such as built-in Unicode support and higher-order functions Who this book is for If you are seeking fundamental Swift programming skills, in preparation for learning to develop native applications for iOS or macOS, this book is the best for you. You don't need to have any

prior Swift knowledge; however, object-oriented programming experience is desired. Start building your very own mobile apps with this comprehensive introduction to Swift and object-oriented programming

Key Features A complete beginner's guide to Swift programming language Understand core Swift programming concepts and techniques for creating popular iOS apps Start your journey toward building mobile app development with this practical guide

Book Description Swift Language is now more powerful than ever; it has introduced new ways to solve old problems and has gone on to become one of the fastest growing popular languages. It is now a de-facto choice for iOS developers and it powers most of the newly released and popular apps. This practical guide will help you to begin your journey with Swift programming through learning how to build iOS apps. You will learn all about basic variables, if clauses, functions, loops, and other core concepts; then structures, classes, and inheritance will be discussed. Next, you'll dive into developing a weather app that consumes data from the internet and presents information to the user. The final project is more complex, involving creating an Instagram like app that integrates different external libraries. The app also uses CocoaPods as its package dependency manager, to give you a cutting-edge tool to add to your skillset. By the end of the book, you will have learned how to model real-world apps in Swift. What you will learn

Become a pro at iOS development by creating simple-to-complex iOS mobile applications

Master Playgrounds, a unique and intuitive approach to teaching Xcode Tackle the basics,

including variables, if clauses, functions, loops and structures, classes, and inheritance
Model real-world objects in Swift and have an in-depth understanding of the data structures
used, along with OOP concepts and protocols Use CocoaPods, an open source Swift
package manager to ease your everyday developer requirements Develop a wide range of
apps, from a simple weather app to an Instagram-like social app Get ahead in the industry
by learning how to use third-party libraries efficiently in your apps Who this book is for
This book is for beginners who are new to Swift or may have some preliminary knowledge
of Objective-C. If you are interested in learning and mastering Swift in Apple's ecosystem,
namely mobile development, then this book is for you. Move into iOS development by
getting a firm grasp of its fundamentals, including the Xcode 12 IDE, Cocoa Touch, and the
latest version of Apple's acclaimed programming language, Swift 5.3. With this thoroughly
updated guide, you'll learn the Swift language, understand Apple's Xcode development
tools, and discover the Cocoa framework. Become familiar with built-in Swift types Dive
deep into Swift objects, protocols, and generics Tour the life cycle of an Xcode project
Learn how nibs are loaded Understand Cocoa's event-driven design Communicate with C
and Objective-C In this edition, catch up on the latest iOS programming features: Multiple
trailing closures Code editor document tabs New Simulator features Resources in Swift
packages Logging and testing improvements And more! 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 14. Begin your iOS development journey using Swift 4 and Xcode 9 with this easy to learn, practical guide. Key Features Explore the latest features of iOS 11 and Swift 4 to build robust applications Kickstart your iOS development career by building your first application from scratch Manage databases and integrate standard elements such as photos and GPS into your app Book Description You want to build iOS applications but where do you start? Forget sifting through tutorials and blog posts, this book is a direct route into iOS development, taking you through the basics and showing you how to put the principles into practice. So take advantage of this developer-friendly guide and start building applications that may 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 iOS development, you'll quickly gain a solid foundation to begin venturing deeper into your development journey. Experienced programmers can jump right in and learn the latest iOS 11 features. You'll also learn advanced topics of iOS design, such as gestures and animations, to give your app the edge. Explore the latest developments in Swift 4 and iOS 11 by incorporating new features, custom-rich notifications, drag and drop features, and the latest developments in SiriKit. With further guidance on beta testing with TestFlight, you'll quickly learn everything you need to get your project on the App Store! What you will learn Get to grips with Swift 4 and Xcode 9, the building blocks of Apple development Get to

know the fundamentals of Swift 4, including strings, variables, constants, and control flow
Discover the distinctive design principles that define the iOS user experience Build a
responsive UI and add privacy to your custom-rich notifications Preserve data and
manipulate images with filters and effects Bring in SiriKit to create payment requests inside
your app Collect valuable feedback with TestFlight before you release your apps on the App
Store Who this book is for This book is for beginners who want to be able to create iOS
applications. You do not need any knowledge of Swift or any prior programming
experience. However, 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 Head First Swift Swift is a programming language you can rely on. A
language you can present to the family. Safe, reliable, speedy, friendly, easy to talk to, it's
the language of choice for Apple's platforms--iOS, macOS, watchOS, and tvOS. But open
source Swift also runs on Linux as well as the server, and it's gaining ground in scientific
computing and web apps. Swift for Windows is even in the works. You can build
everything from mobile apps to games, web apps, frameworks, and beyond. So jump in and
get started! What's so special about this book? If you've read a Head First book, you know
what to expect--a visually rich format designed for the way your brain works. If you
haven't, you're in for a treat. With this book, you'll learn Swift through a multisensory
experience that engages your mind rather than a text-heavy approach that puts you to sleep.

Move into iOS development by getting a firm grasp of its fundamentals, including the Xcode 10 IDE, Cocoa Touch, and the latest version of Apple's acclaimed programming language, Swift 5. With this thoroughly updated guide, you'll learn the Swift language, understand Apple's Xcode development tools, and discover the Cocoa framework. Explore Swift's object-oriented concepts Become familiar with built-in Swift types Dive deep into Swift objects, protocols, and generics Tour the lifecycle of an Xcode project Learn how nibs are loaded Understand Cocoa's event-driven design Communicate with C and Objective-C 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 13. Deep Dive Into Swift! Swift is a rich language with a plethora of features to offer. Reading the official documentation or entry-level books is important, but it's not enough to grasp the true power of the language. Expert Swift is here to help, by showing you how to harness the full power of Swift. You'll learn about advanced usages of protocols, generics, functional reactive programming, API design and more. Who This Book is For This book is for intermediate Swift developers who already know the basics of Swift and are looking to deepen their knowledge and understanding of the language. Topics Covered in Expert Swift Protocols and Generics: Learn how protocols and generics work, and how you can leverage them in your code to produce clean, long-lasting and easy-to-refactor APIs. Sequences and Collections: Learn how to use Sequences and Collections to write

generic algorithms that operate across type families. Unsafe: Understand the memory layout of types and how to use typed and untyped pointers. Functional Reactive Programming: Explore the most important and refined concepts of functional reactive programming and how you can apply these concepts to your apps. Objective-C Interoperability: Learn how to expose Objective-C code to Swift and vice versa. Library and API Design: Enhancing your skill set and intuition for designing great APIs. One thing you can count on: after reading this book, you'll be prepared to use the advanced features of Swift and improve your existing code with the knowledge you'll acquire. Summary iOS Development with Swift is a hands-on guide to creating apps for iPhone and iPad using the Swift language. Inside, you'll be guided through every step of the process for building an app, from first idea to App Store. This book fully covers Swift 4, Xcode 9, and iOS 1. Our video course, iOS Development with Swift in Motion, is the perfect companion to this book, featuring even more projects and examples for you to dig into in the exciting world of iOS development. Find out more at our website: www.manning.com/livevideo/ios-development-with-swift-lv Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology One billion iPhone users are waiting for the next amazing app. It's time for you to build it! Apple's Swift language makes iOS development easier than ever, offering modern language features, seamless integration with all iOS libraries, and the top-notch Xcode development environment. And with this book,

you'll get started fast. About the Book iOS Development with Swift is a hands-on guide to creating iOS apps. It takes you through the experience of building an app—from idea to App Store. After setting up your dev environment, you'll learn the basics by experimenting in Swift playgrounds. Then you'll build a simple app layout, adding features like animations and UI widgets. Along the way, you'll retrieve, format, and display data; interact with the camera and other device features; and touch on cloud and networking basics. What's Inside Create adaptive layouts Store and manage data Learn to write and debug Swift code Publish to the App Store Covers Swift 4, Xcode 9, and iOS 11 About the Reader Written for intermediate web or mobile developers. No prior experience with Swift assumed. About the Author Craig Grummitt is a successful developer, instructor, and mentor. His iOS apps have had over 100,000 downloads combined! Table of Contents PART 1 - INTRODUCING XCODE AND SWIFT Your first iOS application Introduction to Swift playgrounds Swift objects PART 2 - BUILDING YOUR INTERFACE View controllers, views, and outlets User interaction Adaptive layout More adaptive layout Keyboard notifications, animation, and scrolling PART 3 - BUILDING YOUR APP Tables and navigation Collections, searching, sorting, and tab bars Local data persistence Data persistence in iCloud Graphics and media Networking Debugging and testing PART 4 - FINALIZING YOUR APP Distributing your app What's next? 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 touch Use view controllers to manage multiple screens of interface Master interface classes for scroll views, table views, collection 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 Stay up-to-date on iOS 14 innovations, such as: Control action closures and menus Table view cell configuration objects Collection view lists and outlines New split view controller architecture Pointer customization on iPad New photo picker and limited photos authorization Reduced accuracy location Color picker, new page control behavior, revised date pickers, and more! Want to brush up on the basics? Pick up iOS 14 Programming Fundamentals with Swift to learn about Swift, Xcode, and Cocoa. Together with Programming iOS 14, you'll gain a solid, rigorous, and practical understanding of iOS 14 development. 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 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 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 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 Stay up-to-date on iOS 11 innovations, such as: Drag and drop Autolayout changes (including the new safe area) Stretchable navigation bars Table cell swipe buttons Dynamic type improvements Offline sound file rendering,

image picker controller changes, new map annotation types, and more All example code (now rewritten in Swift 4) is available on GitHub for you to download, study, and run. Want to brush up on the basics? Pick up iOS 11 Programming Fundamentals with Swift to learn about Swift, Xcode, and Cocoa. Together with Programming iOS 11, you'll gain a solid, rigorous, and practical understanding of iOS 11 development. Learn how to code for the iMac, Mac mini, Mac Pro, and MacBook using Swift, Apple's hottest programming language. Fully updated to cover the new MacBook Touch Bar, macOS Programming for Absolute Beginners will not only teach complete programming novices how to write macOS programs, but it can also help experienced programmers moving to the Mac for the first time. You will learn the principles of programming, how to use Swift and Xcode, and how to combine your knowledge into writing macOS programs. If you've always wanted to learn coding but felt stymied by the limitation of simplistic programming languages or intimidated by professional but complicated programming languages, then you'll want to learn Swift. Swift is your gateway to both Mac and iOS app development while being powerful and easy to learn at the same time, and macOS Programming for Absolute Beginners is the perfect place to start - add it to your library today.

What You'll Learn/div
Master the basic principles of object-oriented programming Use Xcode, the main programming tool used for both macOS and iOS development See what makes Swift unique and powerful as a programming language and why you should learn it Create macOS

programs using Swift and Xcode Apply interface principles that follow Apple's Human Interface Guidelines Take advantage of the new Touch Bar Who This Book Is For People who want to learn programming for the first time and for experienced programmers wanting to learn Xcode and the Mac for the first time. 'Swift for Programmers' is a programming-language focused book designed to get practicing programmers up-to-speed quickly in Swift programming. The Deitels provide thousands of lines of proven Swift code in the book, using a mix of code snippets and live-code examples. When they present code snippets rather than full-length complete programs, the snippet will be extracted from a Deitel-created, compiled, live-code example to ensure that the snippet is correct 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 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 Stay up-to-date on iOS 11 innovations, such as: Drag and drop Autolayout changes (including the new safe area) Stretchable navigation bars Table

cell swipe buttons Dynamic type improvements Offline sound file rendering, image picker controller changes, new map annotation types, and more All example code (now rewritten in Swift 4) is available on GitHub for you to download, study, and run. Want to brush up on the basics? Pick up iOS 11 Programming Fundamentals with Swift to learn about Swift, Xcode, and Cocoa. Together with Programming iOS 11, you'll gain a solid, rigorous, and practical understanding of iOS 11 development. iOS 11 App Development Essentials, the latest edition of this popular book series, has now been fully updated for the iOS 11 SDK, Xcode 9 and the Swift 4 programming language. This publication is available for purchase in print and Kindle editions. The print edition consists of 100 chapters and includes a free download of the color PDF of the book with 16 additional chapters. The Kindle edition contains all 116 chapters. 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 11 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, biometric authentication,

SpriteKit games development and audio to text transcription. 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. The key new features of iOS 11 and Xcode 9 are also covered in detail, including Swift 4, drag and drop integration and the document browser. The aim of this book, therefore, is to teach you the skills necessary to build your own apps for iOS 11. Assuming you are ready to download the iOS 11 SDK and Xcode 9, have an Intel-based Mac and ideas for some apps to develop, you are ready to get started. The goal of this book is to teach the skills necessary to build iOS 14 applications using SwiftUI, Xcode 12 and the Swift 5.3 programming language. Beginning with the basics, this book provides an outline of the steps necessary to set up an iOS development environment together with an introduction to the use of Swift Playgrounds to learn and experiment with Swift. The book also includes in-depth chapters introducing the Swift 5.3 programming language including data types, control flow, functions, object-oriented programming, property wrappers and error handling. An introduction to the key concepts of SwiftUI and project architecture is followed by a guided tour of Xcode in SwiftUI development mode. The book also covers the creation of custom SwiftUI views and explains how these views are combined to create user interface layouts including the use of stacks, frames and forms. Other topics covered include data handling using state

properties in addition to observable, state and environment objects, as are key user interface design concepts such as modifiers, lists, tabbed views, context menus, user interface navigation, and outline groups. The book also includes chapters covering graphics drawing, user interface animation, view transitions and gesture handling, WidgetKit, document-based apps and SiriKit integration. Chapters are also provided explaining how to integrate SwiftUI views into existing UIKit-based projects and explains the integration of UIKit code into SwiftUI. Finally, the book explains how to package up a completed app and upload it to the App Store for publication. Along the way, the topics covered in the book are put into practice through detailed tutorials, the source code for which is also available for download. The aim of this book, therefore, is to teach you the skills necessary to build your own apps for iOS 14 using SwiftUI. Assuming you are ready to download the iOS 14 SDK and Xcode 12 and have an Apple Mac system you are ready to get started. "You want to build iOS applications for the 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. The goal of this tutorial is to help you become a professional developer by unleashing the full potential of iOS 11 to build applications. This tutorial will cover the essentials of the Swift language, building flexible iOS user interfaces working on multiple devices, looking into how software patterns such as Target-Action and Model-View-Controller are implemented in iOS 11, and focusing on

specific issues to make you proficient at tasks more rapidly."--Resource description page.

Audio can affect the human brain in the most powerful and profound ways. Using Apple's Core Audio, you can leverage all that power in your own Mac and iOS software, implementing features ranging from audio capture to real-time effects, MP3 playback to virtual instruments, web radio to VoIP support. The most sophisticated audio programming system ever created, Core Audio is not simple. In *Learning Core Audio*, top Mac programming author Chris Adamson and legendary Core Audio expert Kevin Avila fully explain this challenging framework, enabling experienced Mac or iOS programmers to make the most of it. In plain language, Adamson and Avila explain what Core Audio can do, how it works, and how it builds on the natural phenomena of sound and the human language of audio. Next, using crystal-clear code examples, they guide you through recording, playback, format conversion, Audio Units, 3D audio MIDI connectivity, and overcoming unique challenges of Core Audio programming for iOS. Coverage includes: mastering Core Audio's surprising style and conventions; recording and playback with Audio Queue; synthesizing audio; perform effects on audio streams; capturing from the mic; mixing multiple streams; managing file streams; converting formats; creating 3D positional audio; using Core MIDI on the Mac; leveraging your Cocoa and Objective-C expertise in Core Audio's C-based environment, and much more. When you've mastered the "black arts" of Core Audio, you can do some serious magic. This book will transform

you from an acolyte into a true Core Audio wizard. 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 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 Stay up-to-date on iOS 11 innovations, such as: Drag and drop Autolayout changes (including the new safe area) Stretchable navigation bars Table cell swipe buttons Dynamic type improvements Offline sound file rendering, image picker controller changes, new map annotation types, and more All example code (now rewritten in Swift 4) is available on GitHub for you to download, study, and run. Want to brush up on the basics? Pick up iOS 11 Programming Fundamentals with Swift to learn about Swift, Xcode, and Cocoa. Together with Programming iOS 11, you'll gain a solid, rigorous, and practical understanding of iOS 11 development. In this book, we take you on a fun, hands-on and pragmatic journey to learning iOS13 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 - Working with Xcode and Swift to build a BMI calculator app. Chapter 2 - Build a Quotes app using Table View Chapter 3 - Create a To Do List app where we create, read, update and delete to-do items Chapter 4 - Implement data persistency to our To Do List app using Core Data Chapter 5 - Improve our To Do List app by adding images and implementing swipe deletion Chapter 6 - Build a cryptocurrency price tracker app which retrieves prices via an API Chapter 7 - Build a image detection app using machine learning with Core ML 2 and Create ML 2 Chapter 8 - Create an Augmented Reality app with ARKit Chapter 9 - Publish our app on to the App store Chapter 10 - SwiftUI Chapter 11 - Dark Mode Chapter 12 - Porting your iOS App to the Mac with Project Catalyst Chapter 13 - In-App Purchases

The goal of this book is to teach you iOS development in a manageable way without 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. Begin your iOS development journey using Swift 4 and XCode 9 with this easy to learn, practical guide.

About This Book Explore the latest features of iOS 11 and Swift 4 to build robust applications Kickstart your iOS development career by building your first application from scratch Manage databases and integrate standard elements such as photos and GPS into your app Who This Book Is For This book is for beginners who want to be able to create iOS applications. You do not need any knowledge of Swift or any prior programming experience. However, 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 What You Will Learn Get to grips with Swift 4 and Xcode 9, the building blocks of Apple development Get to know the fundamentals of Swift 4, including strings, variables, constants, and control flow Discover the distinctive design principles that define the iOS user experience Build a responsive UI and add privacy to your custom-rich notifications Preserve data and manipulate images with filters and effects Bring in SiriKit to create payment requests inside your app Collect valuable feedback with TestFlight before you release your apps on the App Store In Detail You want to build iOS applications but where do you start? Forget sifting through tutorials and blog posts, this book is a direct route into iOS development, taking you through the basics and showing you how to put the principles into practice. So take advantage of this developer-friendly guide and start building applications that may 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 iOS development, you'll quickly gain a solid foundation to begin venturing deeper into your development journey. Experienced programmers can jump right in and learn the latest iOS 11 features. You'll also learn advanced topics of iOS design, such as gestures and animations, to give your app the edge. Explore the latest developments in Swift 4 and iOS 11 by incorporating new features, custom-rich notifications, drag and drop features, and the latest developments in SiriKit. With further guidance on beta testing with TestFlight, you'll quickly learn everything you need to get your project on the App Store! Style and approach Step by step pr ... This book covers iOS 13 app design fundamentals using the latest Swift 5.1 programming language, Xcode 11 and iOS 13.1 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 5 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 complete apps (including a 2D game) are developed in separate chapters. 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 on simulators and real devices. Chapters of the book and the contents of these chapters are as follows: Chapter 1.

Introduction: General info and the steps of developing an iOS app. Chapter 2. Setting up your development environment: Installing Xcode, setting up signing identities, viewing/adding simulators and real devices. Chapter 3. Test drive - the Hello World: Creating a new Xcode project, adding and positioning user interface objects, building the project, running the developed app on the simulator and on the real device. Chapter 4. Swift programming language: Variables, constants, optionals, arrays, dictionaries, sets, if-else and switch-case decision making statements, for and while loops, functions, classes, objects and inheritance in Swift 5. Each concept is clearly explained step by step with code examples and screenshots. Chapter 5. Disco lights app: Using buttons and connecting actions to buttons in the code. Chapter 6. Body mass index (BMI) calculator app: Using input boxes, performing calculations and displaying the results on the screen. Chapter 7. 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. Chapter 8. Exercise calorie calculator app: Using global variables, creating tabbed apps and utilizing segmented controls. Chapter 9. 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. Chapter 10. S.O.S. sender app: Adding SMS functionality, setting required permissions and sending real time location using SMS. Chapter 11. Bounce the ball 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 2D game. This book includes 212 figures and 101 code snippets that are used to explain app development concepts clearly. Full resolution colour figures and project files can be viewed and downloaded from the book's companion website: www.yamaclis.com/ios13swift5 A step-by-step guide to learning iOS app development and exploring the latest Apple development tools

Key Features

Explore the latest features of Xcode 11 and the Swift 5 programming language in this updated fourth edition

Kick-start your iOS programming career and have fun building your own iOS apps

Discover the new features of iOS 13 such as Dark Mode, iPad apps for Mac, SwiftUI, and more

Book Description

iOS 13 comes with features ranging from Dark Mode and Catalyst through to SwiftUI and Sign In with Apple. If you're a beginner and are looking to experiment and work with these features to create your own apps, then this updated fourth edition gets you off to a strong start. The book offers a comprehensive introduction for programmers who are new to iOS, covering the entire process of learning the Swift language, writing your own apps, and publishing them on the App Store. This edition is updated and revised to cover the new iOS 13 features along with Xcode 11 and Swift 5. The book starts with an introduction to the Swift programming language, and how to accomplish common programming tasks with it. You'll then start building the user interface (UI) of a complete real-world app, using the latest version of Xcode, and also implement the code for

views, view controllers, data managers, and other aspects of mobile apps. The book will then help you apply the latest iOS 13 features to existing apps, along with introducing you to SwiftUI, a new way to design UIs. Finally, the book will take you through setting up testers for your app, and what you need to do to publish your app on the App Store. By the end of this book, you'll be well versed with how to write and publish apps, and will be able to apply the skills you've gained to enhance your apps. What you will learn

Get to grips with the fundamentals of Xcode 11 and Swift 5, the building blocks of iOS development

Understand how to prototype an app using storyboards

Discover the Model-View-Controller design pattern, and how to implement the desired functionality within the app

Implement the latest iOS features such as Dark Mode and Sign In with Apple

Understand how to convert an existing iPad app into a Mac app

Design, deploy, and test your iOS applications with industry patterns and practices

Who this book is for

This book is for anyone who has programming experience but is completely new to Swift and iOS app development. Experienced programmers looking to explore the latest iOS 13 features will also find this book useful. 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 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. Move into iOS development by getting a firm grasp of its fundamentals, including the Xcode 9 IDE, Cocoa Touch, and the latest version of Apple's acclaimed programming language, Swift 4. With this thoroughly updated guide, you'll learn the Swift language, understand Apple's Xcode development tools, and discover the Cocoa framework. Explore Swift's object-oriented concepts Become familiar with built-in Swift types Dive deep into Swift objects, protocols, and generics Tour the lifecycle of an Xcode project Learn how nibs are loaded Understand Cocoa's event-driven design Communicate with C and Objective-C 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 12. Unleash your child's developer potential through fun projects and

help them learn how to create iOS apps in Swift About This Book Children can express their creativity while learning through interactive Swift Playgrounds Empower children to think critically about problems Learning programming basics can help children gain confidence in problem solving Help children put their imagination into action building their first iOS app Who This Book Is For Children who are curious about the technology we use in our daily lives and want to know how it works can use this book to learn about programming and building their first iOS app. No prior programming experience is necessary. What You Will Learn Basic programming and coding fundamentals Write code using the fun and interactive Swift Playgrounds app Make animations, including creating your own starry night Utilise functions by making pizza in code Create an interactive toy bin Learn how to use control flow statements to further enhance your toy bin Build a simple movie night app working with tableviews and arrays In Detail This book starts at the beginning by introducing programming through easy to use examples with the Swift Playgrounds app. Kids are regularly encouraged to explore and play with new concepts to support knowledge acquisition and retention – these newly learned skills can then be used to express their own unique ideas. Children will be shown how to create their first iOS application and build their very own movie night application. Style and approach This is a project-based guide with an engaging tone that uses a visually rich format. It explains the concepts in clear language and uses lots of pictures, cartoons, and examples. There is a set

of practical exercises to be completed. This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Through the authors' carefully constructed explanations and examples, you will develop an understanding of Swift grammar and the elements of effective Swift style. This book is written for Swift 3.0 and will also show you how to navigate Xcode 8 and get the most out of Apple's documentation. 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. Updated for Xcode 11, Swift 5, and iOS 13, *iOS Programming: The Big Nerd Ranch Guide* leads you through the essential concepts, tools, and techniques for developing iOS applications. After completing this book, you will have the know-how and the confidence you need to tackle iOS projects of your own. Based on Big Nerd Ranch's popular iOS training and its well-tested materials and methodology, this bestselling guide teaches iOS concepts and coding in tandem. The result is instruction that is relevant and useful. Throughout the book, the authors explain what's important and share their insights into the larger context of the iOS platform. You get a real understanding of how iOS development works, the many features that are available, and when and where to apply what you've learned. Move into iOS development by getting a firm grasp of its

fundamentals, including the Xcode 9 IDE, Cocoa Touch, and the latest version of Apple's acclaimed programming language, Swift 4. With this thoroughly updated guide, you'll learn the Swift language, understand Apple's Xcode development tools, and discover the Cocoa framework. Explore Swift's object-oriented concepts; become familiar with built-in Swift types; dive deep into Swift objects, protocols, and generics; tour the lifecycle of an Xcode project; learn how nibs are loaded; understand Cocoa's event-driven design; and communicate with C and Objective-C. In this edition, catch up on the latest iOS programming features: Multiline strings and improved dictionaries, object serialization, key paths and key-value observing, expanded git integration, code refactoring, and more! 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 11*. Move into iOS development by getting a firm grasp of its fundamentals, including the Xcode 9 IDE, Cocoa Touch, and the latest version of Apple's acclaimed programming language, Swift 4. With this thoroughly updated guide, you'll learn the Swift language, understand Apple's Xcode development tools, and discover the Cocoa framework. Explore Swift's object-oriented concepts; become familiar with built-in Swift types; dive deep into Swift objects, protocols, and generics; tour the lifecycle of an Xcode project; learn how nibs are loaded; understand Cocoa's event-driven design; and communicate with C and Objective-C. In this edition, catch up on the latest iOS programming features: Multiline strings and improved

dictionaries, object serialization, key paths and key-value observing, expanded git integration, code refactoring, and more! 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 11*. Based on Big Nerd Ranch's popular iPhone Bootcamp class, *iPhone Programming: The Big Nerd Ranch Guide* leads you through the essential tools and techniques for developing applications for the iPhone, iPad, and iPod Touch. In each chapter, you will learn programming concepts and apply them immediately as you build an application or enhance one from a previous chapter. These applications have been carefully designed and tested to teach the associated concepts and to provide practice working with the standard development tools Xcode, Interface Builder, and Instruments. The guide's learn-while-doing approach delivers the practical knowledge and experience you need to design and build real-world applications. Here are some of the topics covered: Dynamic interfaces with animation Using the camera and photo library User location and mapping services Accessing accelerometer data Handling multi-touch gestures Navigation and tabbed applications Tables and creating custom rows Multiple ways of storing and loading data: archiving, Core Data, SQLite Communicating with web services ALocalization/Internationalization "After many 'false starts' with other iPhone development books, these clear and concise tutorials made the concepts gel for me. This book is a definite must have for any budding iPhone developer." –Peter Watling, New Zealand,

Developer of BubbleWrap Move into iOS development by getting a firm grasp of its fundamentals, including the Xcode 13 IDE, Cocoa Touch, and the latest version of Apple's acclaimed programming language, Swift 5.5. With this thoroughly updated guide, you'll learn the Swift language, understand Apple's Xcode development tools, and discover the Cocoa framework. Explore Swift's object-oriented concepts Become familiar with built-in Swift types Dive deep into Swift objects, protocols, and generics Tour the life cycle of an Xcode project Learn how nibs are loaded Understand Cocoa's event-driven design Communicate with C and Objective-C In this edition, catch up on the latest iOS programming features: Structured concurrency: async/await, tasks, and actors Swift native formatters and attributed strings Lazy locals and throwing getters Enhanced collections with the Swift Algorithms and Collections packages Xcode tweaks: column breakpoints, package collections, and Info.plist build settings Improvements in Git integration, localization, unit testing, documentation, and distribution And more! 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. 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 . Get valuable hands-on experience with Swift, the open source programming language developed by Apple. With this practical guide, skilled programmers with little or no knowledge of Apple development will learn how to code with the latest version of Swift by developing a working iOS app from start to finish. You'll begin with Swift programming basics—including guidelines for making your code "Swiftly"—and learn how to work with Xcode and its built-in Interface Builder. Then you'll dive step-by-step into building and customizing a basic app for taking, editing, and deleting selfies. You'll also tune and test the app for performance and manage the app's presence in the App Store. Divided into four parts, this book includes:

- Swift 4 basics: Learn Swift's basic building blocks and the features of object-oriented development
- Building the Selfiegram app: Build model objects and the UI for your selfie app and add location support, user settings, and notifications
- Polishing Selfiegram: Create a theme and support for sharing and add custom views, image overlays, and localization
- Beyond app development: Debug and performance test with Xcode, automate chores with Fastlane, and user-test the app with TestFlight

Discover recipes for building feature-rich, reliable iOS native apps and explore the latest features in Swift 5.3 with the help of proven industry standard recipes, modern design techniques, and popular strategies

Key Features Understand how closures work and make use of generics with protocols to write flexible code Discover the fundamentals of Swift and build apps with frameworks such as Foundation, Networking, and UIKit Get to

grips with the new features of Swift 5.3, including SwiftUI, CoreML and the Vision Framework

Book Description Swift is an exciting, multi-platform, general-purpose programming language, and with this book, you'll explore the features of its latest version, Swift 5.3. The book begins with an introduction to the basic building blocks of Swift 5.3, its syntax, and the functionalities of Swift constructs. You'll then discover how Swift Playgrounds provide an ideal platform to write, execute, and debug your Swift code. As you advance through the chapters, the book will show you how to bundle variables into tuples or sets, order your data with an array, store key-value pairs with dictionaries, and use property observers. You'll also get to grips with the decision-making and control structures in Swift, examine advanced features such as generics and operators, and explore functionalities outside of the standard library. Once you've learned how to build iOS applications using UIKit, you'll find out how to use Swift for server-side programming, run Swift on Linux, and investigate Vapor. Finally, you'll discover some of the newest features of Swift 5.3 using SwiftUI and Combine to build adaptive and reactive applications, and find out how to use Swift to build and integrate machine learning models along with Apple's Vision Framework. By the end of this Swift book, you'll have discovered solutions to boost your productivity while developing code using Swift 5.3. What you will learn

Explore basic to advanced concepts in Swift 5.3 programming

Understand conditional statements, loops, and how to handle errors in Swift

Define flexible classes and structs using generics

Use advanced

operators and create custom ones
Build iOS apps using the powerful features of UIKit or the new SwiftUI framework
Import your own custom functionality into Swift Playgrounds
Run Swift on Linux and investigate server-side programming with the server-side framework Vapor
Use Swift to implement machine learning models using CoreML and Vision
Who this book is for
This book is for experienced iOS developers looking to learn about the diverse features offered by Swift 5.3, along with tips and tricks to efficiently code and build applications. Knowledge of general programming concepts will assist in understanding key concepts. This book covers iOS 11 app design fundamentals using the latest Swift 4 programming language, Xcode 9 and iOS 11 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 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 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/ios11. Summary Now updated for Swift 5! Swift is more than just a fun language to build iOS applications with. It features a host of powerful tools that, if effectively used, can help you create even better apps with clean, crystal-clear code and awesome features. Swift in Depth is designed to help you unlock these tools and quirks and get developing next-gen apps, web services, and more! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the

Technology It's fun to create your first toy iOS or Mac app in Swift. Writing secure, reliable, professional-grade software is a different animal altogether. The Swift language includes an amazing set of high-powered features, and it supports a wide range of programming styles and techniques. You just have to roll up your sleeves and learn Swift in depth. About the Book Swift in Depth guides you concept by concept through the skills you need to build professional software for Apple platforms, such as iOS and Mac; also on the server with Linux. By following the numerous concrete examples, enlightening explanations, and engaging exercises, you'll finally grok powerful techniques like generics, efficient error handling, protocol-oriented programming, and advanced Swift patterns. Author Tjeerd in 't Veen reveals the high-value, difficult-to-discover Swift techniques he's learned through his own hard-won experience. What's inside Covers Swift 5 Writing reusable code with generics Iterators, sequences, and collections Protocol-oriented programming Understanding map, flatMap, and compactMap Asynchronous error handling with ResultBest practices in Swift About the Reader Written for advanced-beginner and intermediate-level Swift programmers. About the Author Tjeerd in 't Veen is a senior software engineer and architect in the mobile division of a large international banking firm. Table of Contents Introducing Swift in depth Modeling data with enums Writing cleaner properties Making optionals second nature Demystifying initializers Effortless error handling Generics Putting the pro in protocol-oriented programming Iterators, sequences,

and collections Understanding map, flatMap, and compactMap Asynchronous error handling with Result Protocol extensions Swift patterns Delivering quality Swift code Where to Swift from here Through the authors' carefully constructed explanations and examples, you will develop an understanding of Swift grammar and the elements of effective Swift style. At the same time, you will learn how to navigate Xcode and get the most out of Apple's documentation. In addition, 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 this book, you will have the knowledge and confidence to develop your own solutions to a wide range of programming challenges using Swift. Learn Reactive Programming in Swift with RxSwift!The popularity of reactive programming continues to grow on an every-increasing number of platforms and languages. Rx lets developers easily and quickly build apps with code that can be understood by other Rx developers - even over different platforms. Not only will you learn how to use the RxSwift port to create complex reactive applications on iOS, you'll also see how to easily solve common application design issues by using RxSwift. Finally you'll discover how to exercise full control over the library and leverage the full power of reactive programming in your apps. This book is for iOS developers who already feel comfortable with iOS and Swift, and want to dive deep into development with RxSwift. Topics Covered in RxSwift:- Getting Started: Get an introduction to the reactive

programming paradigm, learn the terminology involved and see how to begin using RxSwift in your projects.- Event Management: Learn how to handle asynchronous event sequences via two key concepts in Rx - Observables and Observers.- Being Selective: See how to work with various events using concepts such as filtering, transforming, combining, and time operators.- UI Development: RxSwift makes it easy to work with UI of your apps using RxCocoa, which provides integration of both UIKit and Cocoa.- Intermediate Topics: Level up your RxSwift knowledge with chapters on reactive networking, multi-threading, and error handling.And much, much more!By the end of this book, you'll have hands-on experience solving common issues in a reactive paradigm - and you'll be well on your way to coming up with your own Rx patterns and solutions!

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