IOS 10 Swift Programming Cookbook: Solutions And Examples For IOS Apps

NOTE: This edition is now out of date, and does not conform with the current version of Swift. Please check out the newer edition instead, which is ISBN 9780134289779. LEARNING A NEW PROGRAMMING LANGUAGE can be daunting. With Swift, Apple has lowered the barrier of entry for developing iOS and OS X apps by giving developers an innovative new programming language for Cocoa and Cocoa Touch. If you are new to Swift, this book is for you. If you have never used C, C++, or Objective-C, this book is definitely for you. With this handson guide, you'll quickly be writing Swift code, using Playgrounds to instantly see the results of your work. Author Boisy G. Pitre gives you a solid grounding in key Swift language concepts-including variables, constants, types, arrays, and dictionaries-before he shows you how to use Swift's innovative Xcode integrated development environment to create apps for iOS and OS X. THIS BOOK INCLUDES: Detailed instruction, ample illustrations, and clear examples Real-world guidance and advice Best practices from an experienced Mac and iOS developer Emphasis on how to use Xcode, Playgrounds, and the REPL COMPANION WEBSITE: www.peachpit.com/swiftbeginners includes additional resources.

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.

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.

Stay motivated and overcome obstacles while learning to use Swift Playgrounds and Xcode 10.2 to become a great iOS developer. This book, fully updated for Swift 5, is perfect for those with no programming background, those with some programming experience but no object-oriented experience, or those that have a great idea for an app but haven't programmed since school. Many people have a difficult time believing they can learn to write iOS apps. Swift 5 for Absolute Beginners will show you how to do so. You'll learn Object-Oriented Programming (OOP) and be introduced to User Interface (UI) design following Apple's Human Interface Guidelines (HIG) using storyboards and the Model-View-Controller (MVC) pattern before moving on to write your own iPhone and Apple Watch apps from scratch. What You'll Learn Work with Swift classes, properties, and functions Examine proper User Interface (UI) and User Experience (UX) design Understand Swift data types: integers, floats, strings, and booleans Use Swift data collections: arrays and dictionaries Review Boolean logic, comparing data, and flow control Use the Xcode debugger to troubleshoot problems with your apps Store data in local app preferences and Core Data databases Who This Book Is For Anyone who wants to learn to develop apps for the Mac, iPhone, iPad, and Apple Watch using the Swift programming language. No previous programming experience is necessary.

Over 60 proven recipes for developing better iOS applications with Swift 5.3, 2nd Edition
The Big Nerd Ranch Guide
Swift 5 for Absolute Beginners
Programming iOS 14
Swift 4 Programming Cookbook
iPhone Programming
Beginning Programming with Swift

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 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. 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.

Advanced Swift takes you through Swift's features, from low-level programming to high-level abstractions. In this book, we'll write about advanced concepts in Swift programming. If you have read the Swift Programming Guide, and want to explore more, this book is for you. Swift is a great language for systems programming, but also lends itself for very high-level programming. We'll explore both high-level topics (for example, programming with generics and protocols), as well as low-level topics (for example, wrapping a C library and string internals).

Over 50 recipes to help you quickly and efficiently build applications with Swift 4 and Xcode 9 About This Book Write robust and efficient code and avoid common pitfalls using Swift 4 Get a comprehensive coverage of the tools and techniques needed to create multi-platform apps with Swift 4 Packed with easy-to-follow recipes, this book will help you develop code using the latest version of Swift Who This Book Is For If you are looking for a book to help you learn about the diverse features offered by Swift 4 along with tips and tricks to efficiently code and build applications, then this book is for you. Basic knowledge of Swift or general programming concepts will be beneficial. What You Will Learn Explore basic to advanced concepts in Swift 4 Programming Unleash advanced features of Apple's Xcode 9 IDE and Swift Playgrounds Learn about the conditional statements, loops, and how to handle errors in Swift Define flexible classes and structs using Generics, and learn about the advanced operators, and create custom operators Explore functionalities outside of the standard libraries of Swift Import your own custom functionality into Swift Playgrounds Run Swift on Linux and investigate server-side programming with the server side framework Vapor In Detail Swift 4 is an exciting, multi-platform, general-purpose programming language. Being open source, modern and easy to use has made Swift one of the fastest growing programming languages. If you interested in exploring it, then this book is what you need. The book begins with an introduction to the basic building blocks of Swift 4, its syntax and the functionalities of Swift constructs. Then, introduces you to Apple's Xcode 9 IDE and Swift Playgrounds, which provide an ideal platform to write, execute, and debug the codes thus initiating your development process. Next, you'll learn to bundle variables into tuples, set order to your data with an array, store key-value pairs with dictionaries and you'll learn how to use the property observers. Later, explore the decision-making and control structures in Swift and learn how to handle errors in Swift 4. Then you'll, examine the advanced features of Swift, generics and operators, and then explore the functionalities outside of the standard library, provided by frameworks such as Foundation and UIKit. Also, you'll explore advanced features of Swift Playgrounds. At the end of the book, you'll learn server-side programming aspect of Swift 4 and see how to run Swift on Linux and then investigate Vapor, one of the most popular server-side frameworks for Swift. Style and approach Each recipe addresses a specific problem, with a detailed discussion that explains the solution and offers insight into how it works.

Apple's Swift is a powerful, beginner-friendly programming language that anyone can use to make cool apps for the iPhone or iPad. In Coding iPhone Apps for Kids, you'll learn how to use Swift to write programs, even if you've never programmed before. You'll work in the Xcode playground, an interactive environment where you can play with your code and see the results of your work immediately! You'll learn the fundamentals of programming too, like how to store data in arrays, use conditional statements to make decisions, and create functions to organize your code—all with the help of clear and patient explanations. Once you master the basics, you'll build a birthday tracker app so that you won't forget anyone's birthday and a platform game called Schoolhouse Skateboarder with animation, jumps, and more! As you begin your programming adventure, you'll learn how to: –Build programs to save you time, like one that invites all of your friends to a party with just the click of a button! –Program a number-guessing game with loops to make the computer keep guessing until it gets the right answer –Make a real, playable game with graphics and sound effects using SpriteKit –Challenge players by speeding up your game and adding a high-score systemWhy should serious adults have all the fun? Coding iPhone Apps for Kids is your ticket to the exciting world of computer programming. Covers Swift 3.x and Xcode 8.x. Requires OS X 10.11 or higher.

IOS 10 Programming Fundamentals with Swift
iOS Programming Cookbook
Solutions & Examples for iOS Apps
Simple Solutions for Game Development Problems
Get started with building iOS apps with Swift 5.3 and Xcode 12, 5th Edition
SwiftUI Essentials - iOS 14 Edition
Asynchronous Programming with Swift (Third Edition)

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 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.

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

Get up and running with Swift—swiftly Brimming with expert advice and easy-to-follow instructions, Swift For Dummies shows new and existing programmers how to quickly port existing Objective-C applications into Swift and getinto the swing of the new language like a pro. Designed from theground up to be a simpler programming language, it's never beeneasier to get started creating apps for the iPhone or iPad, orapplications for Mac OS X. Inside the book, you'll find out how to set up Xcode for a newSwift application, use operators, objects, and data types, andcontrol program flow with conditional statements. You'll also getthe scoop on creating new functions, statements, and declarations,learn useful patterns in an object-oriented environment, and takeadvantage of frameworks to speed your coding along. Plus, you'llfind out how Swift does away with pointer variables and how toreference and dereference variables instead. Set up a playground development environment for Mac, iPhone,iPad, and wearable computers Move an existing Objective-C program to Swift Take advantage of framework components and subcomponents Create an app that uses location, mapping, and socialmedia Whether you're an existing Objective-C programmer looking toport your code to Swift or you've never programmed for Apple in thepast, this fun and friendly guide gets you up to speed swiftly.

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 objects 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.

Hello Swift!
Beginning Swift
Building Apps for macOS, iOS, and Beyond
iOS 14 Programming Fundamentals with Swift
Learn to Develop iOS Apps Using SwiftUI, Swift 5 and Xcode 12
Beginning IOS 10 Programming with Swift 3
Master the fundamentals of programming in Swift 4

Learn How to Program with Swift 5.5!Swift is the easiest way to get started developing on Apple's platforms: iOS, iPadOS, macOS, watchOS and tvOS. In this book, you'll learn the basics of Swift from getting started with playgrounds to simple operations to building your own types. Everything you'll learn is platform-neutral; you'll have a firm understanding of Swift by the end of this book, and you'll be ready to move on to whichever app platform you're interested in.Who This Book Is For:This book is for complete beginners to Swift. No prior programming experience is necessary!Topics Covered in The Swift ApprenticePlayground basics: Learn about the coding environment where you can quickly and easily try out your code as you learn.Basic types: Numbers and strings are the basic kinds of data in any app - learn how to use them in Swift.Flow control: Your code doesn't always run straight through - learn how to use conditions and decide what to do.Functions: Group your code together into reusable chunks to run and pass around.Collection types: Discover the many ways Swift offers to store and organize data into collections.Protocols & protocol-oriented programming: Define protocols to make your code more interface-based and compositional.Advanced topics: Learn how to create custom operators, organize your code, write tests, manage memory, serialize your types, concurrency and so much more.After reading this book and completing your Swift apprenticeship by working through the included exercises and challenges, you'll be ready to take on app development on the platform of your choice!

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 "Swifty"—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

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.

And ConclusionChapter 2. Functions; Function Parameters and Return Value; Void Return Type and Parameters; Function Signature; External Parameter Names; Overloading; Default Parameter Values; Variadic Parameters; Ignored Parameters; Modifiable Parameters; Function In Function; Recursion; Function As Value; Anonymous Functions; Define-and-Call; Closures; How Closures Improve Code; Function Returning Function; Closure Setting a Captured Variable; Closure Preserving Its Captured Environment; Curried Functions; Chapter 3. Variables and Simple Types; Variable Scope and Lifetime.

Dive Deep Into Views, View Controllers, and Frameworks
Learn Swift by Building Applications
Swift, Xcode, and Cocoa Basics
IOS 7 Programming Cookbook
Solutions and Examples for IOS Apps
iOS 13 Programming Fundamentals with Swift
Coding iPhone Apps for Kids

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 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

IOS 10 Swift Programming CookbookSolutions and Examples for IOS AppsO'Reilly Media

Dive into Combine! Writing asynchronous code can be challenging, with a variety of possible interfaces to represent, perform, and consume asynchronous work - delegates, notification center, KVO, closures, etc. Juggling all of these different mechanisms can be somewhat overwhelming. Does it have to be this hard? Not anymore! In this book, you'll learn about Combine - Apple's framework to work with asynchronous events in a unified and reactive way that ensures your app is always up to date based on the latest state of its data. Who This Book Is For This book is for intermediate iOS developers who already know the basics of iOS and Swift development but are interested in learning declarative/reactive programming and take their app and state management to the next level. You'll also find this book interesting if you're interested in SwiftUI - as many of the reactive capabilities keeping your SwiftUI views up-to-date built on top of Combine. Topics Covered in Combine: Asynchronous Programming with Swift What & Why: Learn what is Combine and reactive programming and the problems they solve, and how you can unify all of your asynchronous piece of work. Operators: Learn how to compose, transform, filter and otherwise manipulate different pieces of asynchronous work using operators. In Practice: You'll gain knowledge on various topics and techniques you'll leverage when writing your own real-life apps, as well as practice these techniques with actual hands-on apps and projects. SwiftUI: You'll learn about how Combine is deeply rooted within SwiftUI and provides it with the ability to reactively update its views based on the state of your app. Advanced Combine: Once you've got a handle on the basics, you'll dive into advanced Combine topics such as Error Handling, Schedulers, and Custom Publishers. By the end of this book, you'll be a pro in building full-fledged applications using Combine's various abilities.

Publisher's note: This edition from 2020 is outdated and does not make use of the most recent iOS and swift features. A new sixth edition, updated for iOS 15 and including new advanced topics, such as Mac Catalyst, SwiftUI, Swift Concurrency, and SharePlay, has now been published Key FeaturesExplore the latest features of Xcode 12 and the Swift 5.3 programming language in this updated fifth editionKick-start your iOS programming career and have fun building your own iOS appsDiscover the new features of iOS 14 such as Mac Catalyst, SwiftUI, widgets and App ClipsBook Description If you're looking to work and experiment with powerful iOS 14 features such as widgets and App Clips to create your own apps, this iOS programming guide is for you. The book offers a comprehensive introduction for experienced programmers who are new to iOS, taking you through the entire process of learning the Swift language, writing your own apps, and publishing them on the App Store. Fully updated to cover the new iOS 14 features, along with Xcode 12 and Swift 5.3, this fifth edition of iOS 14 Programming for Beginners starts with an introduction to the Swift programming language and shows you 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 storyboards feature in the latest version of Xcode and implement the code for views, view controllers, data managers, and other aspects of mobile apps. The book will also help you apply iOS 14 features to existing apps and introduce you to SwiftUI, a new way to build apps for all Apple devices. Finally, you'll set up testers for your app and understand what you need to do to publish your app on the App Store. By the end of this book, you'll not only be well versed in writing and publishing applications, but you'll also be able to apply your iOS development skills to enhance existing apps. What you will learnGet to grips with the fundamentals of Xcode 12 and Swift 5.3, the building blocks of iOS developmentUnderstand how to prototype an app using storyboardsDiscover the Model-View-Controller design pattern and how to implement the desired functionality within an appImplement the latest iOS features, such as widgets and App ClipsConvert an existing iPad app into an Apple Silicon Mac appDesign, deploy, and test your iOS applications with design patterns and best practicesWho this book is for This book is for anyone who has programming experience but is new to Swift and iOS app development. Experienced programmers looking to explore the latest iOS 14 features will also find this book useful.

50 task-oriented recipes to make you productive with Swift 4

iOS 11 Swift Programming Cookbook

A Problem-Solution Approach

Swift in Depth

Swift Cookbook

Swift iOS Programming for Kids

iOS Swift Game Development Cookbook

iOS 10 in Swift 3 will take you from absolute beginner to functional iOS developer learning the concepts, techniques, and tools needed to build professional iOS applications using Xcode 8, iOS 10, and Swift 3. After completing this book, you will have the skills and confidence you need to build and design your own iOS apps and apply for jr. iOS development jobs. This book is patterned after the widely popular & fun hands-on training that Devslopes has provided to over 100,000 students worldwide. Unlike other books and training, this book teaches you through real-world app development - projects you would actually build in a job or startup, including learning UI/UX & app design with Sketch. You'll get different insights from each member of Team Devslopes that will help you become a lifelong programmer and amazing iOS app designer & developer.

iOS 8 App Development Essentials is latest edition of this popular book series and has now been fully updated for the Swift 1.2 programming language, the iOS 8 SDK and Xcode 6.3. 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 8 and programming in Swift 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, in-app purchases, graphics drawing and animation are also covered, as are touch screen handling, gesture recognition, multitasking, iAds integration, location management, local notifications, camera access and video and audio playback support. Other features are also covered including Auto Layout, Twitter and Facebook integration, App Store hosted in-app purchase content, collection views, Sprite Kit-based game development, local map search and user interface animation using UIKit dynamics. The key new features of the iOS 8 SDK and Xcode 6 are also covered, including Swift playgrounds, universal user interface design using size classes, app extensions, Interface Builder Live Views, embedded frameworks, CloudKit data storage and TouchID authentication. The aim of this book is to teach the range of skills necessary to build apps for iOS 8. iOS 8 App Development Essentials takes a modular approach to the subject of iOS 8 application development for both the iPhone and iPad, with each chapter covering a self contained topic area consisting of detailed explanations, examples and step-by-step tutorials. This makes the book both an easy to follow learning aid and an excellent reference resource.

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.

The Swift Programming Book (Over 600 pages)The 'Beginning iOS 10 Programming with Swift' ebook, available in PDF and ePub formats.Source codeThe 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 scratchNow fully updated for Xcode 8, Swift 3 and iOS 10

iOS 14 Programming for Beginners

IOS 10 Swift Programming Cookbook

Optimize Your Code for Better Apps

Solutions and Examples for iOS Apps

iOS 8 Swift Programming Cookbook

High Performance IOS Apps

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.

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 Result Best 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

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!

Ready to build mobile apps that out-perform the rest? If you're an iOS developer with app-building experience, this practical guide provides tips and best practices to help you solve many common performance issues. You'll learn how to design and optimize iOS apps that deliver a smooth experience even when the network is poor and memory is low. Today's picky users want fast and responsive apps that don't hog resources. In this book, author Gaurav Vaish demonstrates methods for writing optimal code from an engineering perspective, using reusable Objective-C code that you can use right away. Up your game and create high-performance native iOS apps that truly stand out from the crowd. Measure key performance indicators—attributes that constitute and affect app performance Write efficient apps by minimizing memory and power consumption, and explore options for using available CPU cores Optimize your app's lifecycle and UI, as well as its networking, data sharing, and security features Learn about application testing, debugging and analysis tools, and monitoring your app in the wild Collect data from real users to analyze app usage, identify bottlenecks, and provide fixes

Swift Programming

Swift For Dummies

IOS 9 Programming Fundamentals with Swift

Swift Essentials

Learning Swift

Combine

iOS 8 App Development Essentials - Second Edition

Whether you are a seasoned Objective-C developer or new to the Xcode platform, Swift Essentials will provide you with all you need to know to get started with the language. Prior experience with iOS development is not necessary, but will be helpful to get the most out of this book.

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 Learn coding concepts through hands on and interactive methods 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 creating an 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 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. It uses 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 engaging and fun tutorial 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.

Swift Recipes provides a problem solution approach for dealing with key aspects of the Swift programming language (covering version 1.2), ensuring you have the indispensable reference you need to successfully execute common programming tasks. You'll learn how to use the language as well as its use with Cocoa and Cocoa touch frameworks and libraries. Solutions are available for a range of problems, including application development with Xcode: working with strings, numbers, and object collections: dealing with threads, multi-core processing, and applications that take advantage of dates and timers and memory management. This book is an essential core reference for every Swift programmer and offers solutions in a concise and easy-to-follow manner. T. Michael Rogers has developed iOS applications for Fortune 100 businesses and experienced iOS developers via the iOS Boot Camp in New York City, online courses, and in private settings. He brings his expertise to offer you the ability to use and exploit Swift to get the most out of all your projects for your app creations, whether you use iOS or Mac Summary Hello Swift! is a how-to guide to programming iOS Apps with the Swift language, written from a kid's perspective. This approachable, well-illustrated, step-by-step guide takes you from beginning programming concepts all the way through developing complete apps. (A book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology It's fun to play games and explore new things on your iPhone. How amazing would it be to create your own apps? With a little practice, you can! Apple's Swift language playgrounds and an easy-to-use programming environment, make it easier than ever. Take it from author Tanmay Bakshi, who started programming when he was just five years old. About the Book His book, Hello Swift! iOS app programming for kids and other beginners, teaches iOS devices step by step, starting with your first line of Swift code. Packed with dozens of apps and special exercises, the book will teach you how to program by writing games, solving puzzles, and exploring what your iPhone can do. Hello Swift! gets you started. Where you go next explanations anyone can understand Kid-friendly examples, including games and puzzles Learn by doing—you'll build dozens of small apps Exercises that encourage critical thinking About the Reader Written for kids who want to learn how to program. (Psst! Adults like it, too.) About first app on the iOS App Store at the age of nine. He's now the youngest IBM Champion, a Cloud Advisor, Watson Developer, TED Speaker, and Manning author! Table of Contents Get ready to build apps with Swift! Create your first app Your first real Swift code Using variables decisions, too! Let computers do repetitive work Knitting variables into arrays and dictionaries Reuse your code: Clean it with function detergent Reduce your code: Use less, do more with class detergent Reading and writing files Frameworks: Bookshelves of classes SpriteKit: F WatchKit code Continuing your journey with Swift

Explore Swift programming through iOS app development

iOS app programming for kids and other beginners

Advanced Swift

IOS 15 Programming Fundamentals with Swift

Learn to Develop Apps for iOS

Swift Recipes

Swift Apprentice (Seventh Edition)

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 FeaturesUnderstand how closures work and make use of generics with protocols to write flexible codeDiscover the fundamentals of Swift and build apps with frameworks such as Foundation, Networking, and UIKitGet to grips with the new features of Swift 5.3, including SwiftUI, CoreML, and the Vision FrameworkBook 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 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 learnExplore basic to advanced concepts in Swift 5.3 programmingUnderstand conditional statements, loops, and how to handle errors in SwiftDefine flexible classes and structs using genericsUse advanced operators and create custom onesBuild iOS apps using the powerful features of UIKit or the new SwiftUI frameworkImport your own custom functionality into Swift PlaygroundsRun Swift on Linux and investigate server-side programming with the server-side framework VaporUse Swift to implement machine learning models using CoreML and VisionWho 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.

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

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 .

Overcome the vexing issues you're likely to face when creating apps for the iPhone, iPad, or iPod touch. With new and thoroughly revised recipes in this updated cookbook, you'll quickly learn the steps necessary to work with the iOS 7 SDK--including ways to store and protect data, send and receive notifications, enhance and animate graphics, manage files and folders, and take advantage of UI Dynamics.

Programming IOS 11

Develop and Design

Swift for Beginners

IOS 10 in Swift 3

A Playful Introduction to Swift

iOS 10 Swift Programming Cookbook

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

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 a solution 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.

Ready to make amazing games for the iPhone and iPad? With Apple's Swift programming language, it's never been easier. This updated cookbook provides detailed recipes for managing a wide range of common iOS game-development issues, ranging from 2D and 3D math, SpriteKit, and OpenGL to augmented reality with ARKit. You get simple, direct solutions to common problems found in iOS game programming. Need to figure out how to give objects physical motion, or want a refresher on gaming-related math problems? This book provides sample projects and straightforward answers. All you need to get started is some familiarity with iOS development in Swift.

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.