

Swift Development With Cocoa Developing For The Mac And Ios App Stores

In just 24 sessions of one hour each, learn how to build powerful applications for today's hottest handheld devices: the iPhone and iPad! Using this book's straightforward, step-by-step approach, you'll master every skill and technology you need, from setting up your iOS development environment to building great user interfaces, sensing motion to writing multitasking applications. Each lesson builds on what you've already learned, giving you a rock-solid foundation for real-world success! Step-by-step instructions carefully walk you through the most common iOS development tasks. Quizzes and Exercises help you test your knowledge. By the Way notes present interesting information related to the discussion. Did You Know? tips show you easier ways to perform tasks. Watch Out! cautions alert you to possible problems and give you advice on how to avoid them. John Ray is currently serving as the Director of the Office of Research Information Systems at the Ohio State University. His many books include Using TCP/IP: Special Edition, Maximum Mac OS X Security, Mac OS X Unleashed, Teach Yourself Dreamweaver MX in 21 Days, and Sams Teach Yourself iOS 7 Application Development in 24 Hours. Printed in full color—figures and code appear as they do in Xcode Covers iOS 8 and up Learn to navigate the Xcode 6.x development environment Prepare your system and iDevice for efficient development Get started quickly with Apple's new language: Swift Test code using the new iOS Playground Understand the Model-View-Controller (MVC) development pattern Visually design and code interfaces using Xcode Storyboards, Segues, Exits, Image Slicing, and the iOS Object Library Use Auto Layout and Size Classes to adapt to different screen sizes and orientations Build advanced UIs with Tables, Split Views, Navigation Controllers, and more Read and write preferences and data, and create System Settings plug-ins Use the iOS media playback and recording capabilities Take photos and manipulate graphics with Core Image Sense motion, orientation, and location with the accelerometer, gyroscope, and GPS Integrate online services using Twitter, Facebook, Email, Web Views, and Apple Maps Create universal applications that run on both the iPhone and iPad Write background-aware multitasking applications Trace, debug, and monitor your applications as they run

Get valuable hands-on experience with Swift 3, the latest version of Apple's programming language. With this practical guide, skilled programmers with little or no knowledge of Apple development will learn how to code with Swift 3 by developing three complete, tightly linked versions of the Notes application for the OS X, iOS, and watchOS platforms. In the process, you'll learn Swift's fundamentals, including its syntax and features, along with the basics of the Cocoa, CocoaTouch, and WatchKit frameworks. This book teaches you how to use common design patterns for Swift, how to structure an application for Apple's platforms, and how to submit working apps to the App Store. Divided into four distinct parts, this book includes: Swift 2 basics: Learn Swift's basic building blocks and features for object-oriented development OS X app development: Set up the document model, build out features, and sync data with iCloud iOS app development: Use multimedia, contacts, location, notifications, and iCloud files to build a fully featured iOS Notes app Advanced app extensions: Build an Apple Watch app, and learn how to debug, monitor, and test all three of your Swift apps

Learn how to integrate all the interface elements iOS users have come to know and love, such as buttons, switches, pickers, toolbars, and sliders. In this edition of the best selling book, you'll master a variety of design patterns, from the simplest single view to complex hierarchical drill-downs. Assuming little or no working knowledge of the Swift programming language, and written in a friendly, easy-to-follow style, this book offers a comprehensive course in iPhone and iPad programming. The book starts with the basics, walking through the process of

downloading and installing Xcode and the iOS 11 SDK, and then guides you through the creation of your first simple application. The art of table building will be demystified, and you'll learn how to save your data using the iOS file system. You'll see how to create, load and work with playgrounds as you develop an understanding of the Swift language. You'll also learn how to save and retrieve your data using a variety of persistence techniques, including Core Data and SQLite. And there's much more! Beginning iPhone Development with Swift 4 covers the basic information you need to get up and running quickly with your iOS apps. Once you're ready, move on to Professional iPhone Development with Swift 4 to learn more of the really unique aspects of the SDK and Swift language. What You Will Learn Discover what data persistence is, and why it's important Build cool, crisp user interfaces Display data in Table Views Work with all the most commonly used iOS Frameworks Who This Book is For Aspiring iOS app developers new to the Apple Swift programming language and/or the iOS SDK.

Swift is the future of Apple programming - the heir apparent to Objective-C, and that's good news! Designed from the ground up to be a simpler programming language, it's now easier than ever to get started creating apps for iPhone or iPad, or applications for Mac OS X! Trust Dummies to get you off to a strong start with Swift, whether you are an existing Objective-C programmer looking to port your code to Swift or even if you've never programmed for Apple in the past. Find out how to set up Xcode for a new Swift applications, use operators, objects, and data types; control program flow with conditional statement; and create new functions, statements, and declarations. Learn useful patterns in an object-oriented environment and take advantage of frameworks to speed your coding along. Find out how Swift does away with pointer variables and how to reference and dereference variables instead. Existing programmers will find out how to quickly port existing objective-c applications into Swift and get into the swing of the new language very ... swiftly. In the book, you'll find coverage of: -Moving existing Objective-C code to Swift -Operators -Collections and objects -Data types -Controlling data flow -Creating and using functions -Expressions -Statements -Patterns, generic parameters, and arguments -Initializing and deinitializing data -Closures -Classes -Methods -Memory management with automatic reference counting -Casting and nesting types -Using extensions and protocols

Knowledge for Free... Get that job, you aspire for! Want to switch to that high paying job? Or are you already been preparing hard to give interview the next weekend? Do you know how many people get rejected in interviews by preparing only concepts but not focusing on actually which questions will be asked in the interview? Don't be that person this time. This is the most comprehensive iOS & Swift interview questions book that you can ever find out. It contains: 1000 most frequently asked and important iOS & Swift interview questions and answers Wide range of questions which cover not only basics in iOS & Swift but also most advanced and complex questions which will help freshers, experienced professionals, senior developers, testers to crack their interviews.

Get a thorough, hands-on exploration of Apple's Swift programming language. With this practical guide, you'll learn how to write Swift code and examine why this language works the way it does. You'll build three complete apps, all tightly linked together: an iOS note-taking app, its OS X counterpart that uses iCloud to sync data, and an app for the Apple Watch that makes the user's data available at a moment's notice. This book also explains how Swift works in the wider world, including how to use your apps with open-source frameworks, how to use extensions to help your app play nicely with other apps, and how to take the language beyond Apple's domain with open-source Swift tools. Get started with Swift today and quickly learn how you can build on its foundations.

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*.

Move into iOS development by getting a firm grasp of its fundamentals, including the Xcode IDE, the Cocoa Touch framework, and Swift 3—the latest version of Apple's acclaimed programming language. With this thoroughly updated guide, you'll learn Swift's object-oriented concepts, understand how to use Apple's development tools, and discover how Cocoa provides the underlying functionality iOS apps need to have. Explore Swift's object-oriented concepts: variables and functions, scopes and namespaces, object types and instances Become familiar with built-in Swift types such as numbers, strings, ranges, tuples, Optionals, arrays, dictionaries, and sets Learn how to declare, instantiate, and customize Swift object types: enums, structs, and classes Discover powerful Swift features such as protocols and generics Catch up on Swift 3 innovations: revised APIs, new Foundation bridged types, and more Tour the lifecycle of an Xcode project from inception to App Store—including Xcode's new automatic code signing and debugging features Construct app interfaces with the nib editor, Interface Builder Understand Cocoa's event-driven model and its major design patterns and features Find out how Swift communicates with Cocoa's C and Objective-C APIs Once you master the fundamentals, you'll be ready to tackle the details of iOS app development with author Matt Neuburg's companion guide, *Programming iOS 10*.

Explore the complex app development concepts for iOS application programming with fun and ease. **KEY FEATURES** ? In-depth knowledge with practical examples on how to develop professional iOS apps. ? Includes coverage on the entire iOS application development, right from designing the UI to application deployment. ? Get to know more about machine learning and augmented reality, and their impact on iOS apps. **DESCRIPTION** Grab this book if you want to make Apps for Apple's iOS devices and that too efficiently like a skilled developer. This book covers the complete development of iOS applications, right from concepts of designing an application to adding machine learning capabilities in the applications. You will learn and practice the App development environment with Xcode and Swift programming. Concepts like different types of views and UI components, data manipulations, animations, different iOS screen views, and integrating web services are covered in detail with examples. You will also learn the popular machine learning technology and fascinating features like Augmented Reality to be put into use in your app. You will learn to run automated application testing, use SwiftUI, and deploy applications on the network. **WHAT YOU WILL LEARN** ? Build strong familiarity with the entire application development environment. ? Revive essential coding concepts and methods of Swift and Xcode. ? Simplify integration of iOS apps with web services, including JSON and XML decoding. ? Learn to work with iOS ARKit and add the experience of augmented reality to applications. ? Work with popular SwiftUI, XCTest, and a growing machine learning library, CoreML. **WHO THIS BOOK IS FOR** This book caters to mobile developers, application developers, and students who want to build sound proficiency in the entire process of iOS Application development. Knowing basic programming concepts would be good, although not mandatory. **TABLE OF CONTENTS** 1. iOS App Development Environment 2. Swift Programming Language 3. User Interface and Data Handling 4. Different Views in iOS Devices 5. Image and Animation 6. Multi-View Application and Navigation 7. Data Persistence for iOS Devices 8. Integration with Web Services 9. Augmented Reality 10.

Machine Learning 11. App Testing and Deployment 12. SwiftUI

Move into iOS development by getting a firm grasp of its fundamentals, including the Xcode IDE, the Cocoa Touch framework, and Swift—Apple’s new programming language. With this thoroughly updated guide, you’ll learn Swift’s object-oriented concepts, understand how to use Apple’s development tools, and discover how Cocoa provides the underlying functionality iOS apps need to have. Explore Swift’s object-oriented concepts: variables and functions, scopes and namespaces, object types and instances Become familiar with built-in Swift types such as numbers, strings, ranges, tuples, Optionals, arrays, and dictionaries Learn how to declare, instantiate, and customize Swift object types—enums, structs, and classes Discover powerful Swift features such as protocols and generics Tour the lifecycle of an Xcode project from inception to App Store Create app interfaces with nibs and the nib editor, Interface Builder Understand Cocoa’s event-driven model and its major design patterns and features Find out how Swift communicates with Cocoa’s C and Objective-C APIs Once you master the fundamentals, you’ll be ready to tackle the details of iOS app development with author Matt Neuburg’s companion guide, *Programming iOS 8*.

Beginning Xcode, Swift Edition will not only get you up and running with Apple's latest version of Xcode, but it also shows you how to use Swift in Xcode and includes a variety of projects to build. If you already have some programming experience with iOS SDK and Objective-C, but want a more in-depth tutorial on Xcode, especially Xcode with Apple’s new programming language, Swift, then *Beginning Xcode, Swift Edition* is for you. The book focuses on the new technologies, tools and features that Apple has bundled into the new Xcode 6, to complement the latest iOS 8 SDK. By the end of this book, you'll have all of the skills and a variety of examples to draft from to get your Swift app from idea to App Store with all the power of Xcode.

iOS is for developers looking to step into the sometimes frightening world of iPhone and iPad app development. Written as the companion to *Objective-C*, this e-book guides you from creating a simple, single page application to managing assets in a complex, multi-scene application. Advanced features such as localizing application UI, and working with the Audio Toolbox and AVAudioPlayer frameworks are also covered. If you're looking for the fastest way to get up and running with iOS development, forget about the 1,500+ pages of documentation in the iOS Developer Library. This is the only resource you need. This updated and expanded second edition of *Book* provides a user-friendly introduction to the subject, Taking a clear structural framework, it guides the reader through the subject's core elements. A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for all those interested in the subject. We hope you find this book useful in shaping your future career & Business.

Learn to create professional-grade iOS applications for the App Store using the latest iOS 12 features and other helpful tools Key Features Explore the distinctive design principles that define the iOS user experience Train and use machine learning models with Core ML 2 and Create ML Delve into advanced animations with UIViewPropertyAnimator and UIKitDynamics Book Description With Apple users spending more money in the App Store, there are plenty of development opportunities for professional iOS

developers. This Learning Path is a direct route to iOS development, which will take you through the basics and help you put principles into practice. For experienced programmers, this book will help you gain insights into the latest iOS 12 features. This book is also useful for beginners who want to gain expertise in iOS development. You'll start with an introduction to iOS development, Xcode, and Swift. To give your app the edge, you'll get up to speed with advanced iOS topics, such as gestures and animations. Next, you will understand the latest Swift 4.2 and iOS 12 developments by incorporating new features, such as the latest in notifications, custom-UI notifications, maps, and recent additions in SiriKit. With these tools, you'll be able to write efficient, readable, and maintainable Swift code that maintains industry best practices. By the end of the book, you will have the confidence to build iOS 12 applications that harness advanced techniques and make the best use of the latest features. This Learning Path includes content from the following Packt products: iOS 12 Programming for Beginners - Third Edition by Craig Clayton Mastering iOS 12 Programming - Third Edition by Donny Wals What you will learn Build a responsive user interface (UI) and add privacy to your custom-rich notifications Set up SiriKit to add voice for Siri shortcuts Integrate iMessage, Siri, and more in your app through app extensions Use TestFlight to collect feedback before releasing your apps on the App Store Use Auto Layout to create complex layouts that look visually appealing on any device Enhance your app by building your own profiling tools Create engaging augmented reality experiences with ARKit 2 Who this book is for If you are completely new to Swift, iOS, or programming and want to become an expert in developing iOS applications, this Learning Path is for you. You'll also find this Learning Path useful if you're an experienced programmer looking to explore the latest iOS 12 features.

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.

Get quick answers for developing and debugging applications with Swift, Apple's multi-paradigm programming language. Updated to cover the latest features in Swift 2.0, this pocket reference is the perfect on-the-job tool for learning Swift's modern language features, including type safety, generics, type inference, closures, tuples, automatic memory management, and support for Unicode. Designed to work with Cocoa and Cocoa Touch, Swift can be used in tandem with Objective-C, and either language can call APIs implemented in the other. Swift is still evolving, but Apple clearly sees it as the future language of choice for iOS and OS X software development. Topics include: Supported data types, such as strings, arrays, array slices, sets, and dictionaries Program flow: loops, conditional execution, and error handling Classes, structures, enumerations, and functions Protocols, extensions, and generics Memory management Closures: similar to blocks in Objective-C and lambdas in C# Optionals: values

that can explicitly have no value Operators, operator overloading, and custom operators Access control: restricting access to types, methods, and properties Ranges, intervals, and strides A full list of built-in global functions and their parameter requirements

Leverage the best techniques provided by Apple to build apps with maximum privacy for your users. This book explores not only the how-to steps for implementing privacy in your apps, but also answers workflow questions about what information you actually need. Do you need full access to a device's contacts? Do you need to have location services enabled in the background constantly? This book explains how to selectively enable services and how to make apps that can continue to function even when the user refuses to share data. Understanding the needs of your users and the expectations of Apple in reviewing your app will make better apps. You'll see how to ensure that you make it through the App Store review quickly and without the need to go back and develop privacy protocols that should have been in place to begin with. Not only is developing with privacy in mind good from a moral standpoint, but it also helps you create leaner apps that set themselves up for less potential data breaches and issues later on in distribution. While a basic understanding of app creation is expected, no deep understanding of Cocoa(Touch) or Swift will be required as code will point to the Apple Documentation. What You'll Learn Important APIs and how they affect privacy Work with the camera, Siri, maps, and other common iOS services and hardware Effectively allow notifications and advertising without affecting privacy Who This Book Is For App builders interested in creating apps that respects their user's privacy. Users willing to learn about the technicalities behind apps that respect or not their privacy

This is the definitive guide to the Swift programming language and the iOS 9 SDK, and the source code has been updated to reflect Xcode 7 and Swift 2. There's up-to-date coverage of new Apple technologies as well as significant updates to existing material. You'll have everything you need to create your very own apps for the latest iOS devices. Every single sample app in the book has been rebuilt from scratch using the latest Xcode and the latest 64-bit iOS 9-specific project templates, and designed to take advantage of the latest Xcode features. Assuming little or no working knowledge of the new Swift programming language, and written in a friendly, easy-to-follow style, this book offers a complete soup-to-nuts course in iPhone, iPad, and iPod touch programming. The book starts with the basics, walking through the process of downloading and installing Xcode and the iOS 9 SDK, and then guides you through the creation of your first simple application. From there, you'll learn how to integrate all the interface elements iOS users have come to know and love, such as buttons, switches, pickers, toolbars, and sliders. You'll master a variety of design patterns, from the simplest single view to complex hierarchical drill-downs. The art of table building will be demystified, and you'll learn how to save your data using the iPhone file system. You'll also learn how to save and retrieve your data using a variety of persistence techniques, including Core Data and SQLite. And there's much more! What You Will Learn: Everything you need to know to develop your own bestselling iPhone and iPad apps Utilizing Swift playgrounds Best practices for optimizing your code and delivering great user experiences“/li> What data persistence is, and why it's important Get started with building cool, crisp user interfaces How to display data in Table Views How to draw to the screen using Core Graphics How to use

iOS sensor capabilities to map your world How to get your app to work with iCloud and more Who This Book is For: The professional programmer's Deitel® guide to Apple's new Swift programming language for the iOS® and OS X® platforms ; Written for programmers with a background in object-oriented programming in a C-based language like Objective-C, Java, C# or C++, this book applies the Deitel signature live-code approach with scores of complete, working, real-world programs to explore the new Swift language in depth. The code examples feature syntax shading, code highlighting, rich commenting, line-by-line code walkthroughs and live program outputs. The book features thousands of lines of proven Swift code, and tips that will help you build robust applications. ; Start with an introduction to Swift using an early classes and objects approach, then rapidly move on to more advanced topics. When you master the material, you'll be ready to build industrial-strength object-oriented Swift applications. About This Book ; The Swift™ programming language was arguably the most significant announcement at Apple's 2014 Worldwide Developers Conference. Although apps can still be developed in Objective-C®, Apple says that Swift is its applications programming and systems programming language of the future. ; Swift is a contemporary language with simpler syntax than Objective-C. Because Swift is new, its designers were able to include popular programming language features from languages such as Objective-C, Java™, C#, Ruby, Python® and many others. These features include automatic reference counting (ARC), type inference, optionals, String interpolation, tuples, closures (lambdas), extensions, generics, operator overloading, functions with multiple return values, switch statement enhancements and more. We've been able to develop apps more quickly in Swift than with Objective-C and the code is shorter, clearer and runs faster on today's multi-core architectures. ; Swift also eliminates the possibility of many errors common in other languages, making your code more robust and secure. Some of these error-prevention features include no implicit conversions, ARC, no pointers, required braces around every control statement's body, assignment operators that do not return values, requiring initialization of all variables and constants before they're used, array bounds checking, automatic checking for overflow of integer calculations, and more. You can combine Swift and Objective-C in the same app to enhance existing Objective-C apps without having to rewrite all the code. Your apps will easily be able to interact with the Cocoa®/Cocoa Touch® frameworks, which are largely written in Objective-C. ; You can also use the new Xcode playgrounds with Swift. A playground is an Xcode window in which you can enter Swift code that compiles and executes as you type it. This allows you to see and hear your code's results as you write it, quickly find and fix errors, and conveniently experiment with features of Swift and the Cocoa/Cocoa Touch frameworks. ; Practical, Example-Rich Coverage of: Classes, Objects, Methods, Properties Initializers, Deinitializers, Bridging Tuples, Array and Dictionary Collections Structures, Enumerations, Closures, ARC Inheritance, Polymorphism, Protocols Type Methods, Type Properties Generics; Strings and Characters Operator Overloading, Operator Functions, Custom Operators, Subscripts Access Control; Type Casting and Checking Nested Types, Nested Methods Optionals, Optional Chaining, Extensions Xcode, Playgrounds, Intro to Cocoa Touch® with a Fully Coded iOS® 8 Tip Calculator App Overflow Operators, Attributes, Patterns More topics online ; IMPORTANT NOTE ABOUT XCODE AND SWIFT: With Xcode 6.3 and Swift 1.2, Apple introduced several changes in Swift that affect the book's source code. Please visit

www.deitel.com/books/iOS8FP1 for updated source code. The changes do not affect Xcode 6.2 users. You can download Xcode 6.2 from developer.apple.com/downloads/index.action (you'll have to log in with your Apple developer account to see the list of downloads). [↗](#) Visit www.deitel.com Download code examples For information on Deitel's Dive Into® Series programming training courses delivered at organizations worldwide visit www.deitel.com/training or to deitel@deitel.com Join the Deitel social networking communities on Facebook® at facebook.com/DeitelFan, Twitter® at [@deitel](https://twitter.com/deitel), Google+™ at google.com/+DeitelFan, LinkedIn® at bit.ly/DeitelLinkedIn, YouTube™ at youtube.com/user/DeitelTV and subscribe to the Deitel® Buzz Online e-mail newsletter at www.deitel.com/newsletter/subscribe.html [↗](#)

Ready to build apps for iPhone, iPad, and Mac now that Swift has landed? If you're an experienced programmer who's never touched Apple developer tools, this hands-on book shows you how to use the Swift language to make incredible iOS and OS X apps, using Cocoa and Cocoa Touch. Learn how to use Swift in a wide range of real-world situations, with Cocoa features such as Event Kit and Core Animation. You'll pick up Swift language features and syntax along the way, and understand why using Swift (instead of Objective-C) makes iOS and Mac app development easier, faster, and safer. You'll also work with several exercises to help you practice as you learn. Learn the OS X and iOS application lifecycle Use storyboards to design adaptive interfaces Explore graphics systems, including the built-in 2D and 3D game frameworks Display video and audio with AVFoundation Store data locally with the file system, or on the network with iCloud Display lists or collections of data with table views and collection views Build apps that let users create, edit, and work with documents Use MapKit, Core Location, and Core Motion to interact with the world

Take your macOS Sierra to the next level using the latest tools, designs, and best coding practices while developing with Swift 3.0

About This Book* Learn to harness the power of macOS with the elegance of the Swift programming language* Become highly competent in building apps on the macOS platform* Get the most in-depth guide with a hands-on approach on the latest version of macOS

Who This Book Is For This book is for developers who have some experience with macOS and want to take their skills to next level by unlocking the full potential of latest version of macOS with Swift 3 to build impressive applications. Basic knowledge of Swift will be beneficial but is not required.

What you will learn* Combine beautiful design with robust code for the very best user experience* Bring the best coding practices to the new macOS Sierra* See what's new in Swift 3.0 and how best to leverage the Swift language* Master Apple's tools, including Xcode, Interface Builder, and Instruments* Use Unix and other common command-line tools to increase productivity* Explore the essential Cocoa frameworks, including networking, animation, audio, and video

Detail macOS continues to lead the way in desktop operating systems, with its tight integration across the Apple ecosystem of platforms and devices. With this book, you will get an in-depth knowledge of working on macOS, enabling you to unleash the full potential of the latest version using Swift 3 to build applications. This book will help you broaden your horizons by taking your programming skills to next level. The initial chapters will show you all about the environment that surrounds a developer at the start of a project. It introduces you to the new features that Swift 3 and Xcode 8 offers and also covers the common design patterns that

you need to know for planning anything more than trivial projects. You will then learn the advanced Swift programming concepts, including memory management, generics, protocol orientated and functional programming and with this knowledge you will be able to tackle the next several chapters that deal with Apple's own Cocoa frameworks. It also covers AppKit, Foundation, and Core Data in detail which is a part of the Cocoa umbrella framework. The rest of the book will cover the challenges posed by asynchronous programming, error handling, debugging, and many other areas that are an indispensable part of producing software in a professional environment. By the end of this book, you will be well acquainted with Swift, Cocoa, and AppKit, as well as a plethora of other essential tools, and you will be ready to tackle much more complex and advanced software projects. Interested in iPhone and iPad apps development? Want to learn more? Whether you are a relative newcomer to iPhone and iPad or iOS development or an old hand looking to expand your horizons, we have the perfect Swift-flavored book for you. The update to the bestselling *More iPhone Development* by Dave Mark and Jeff LaMarche, *More iPhone Development with Swift* digs deeper into the new Apple Swift programming language and iOS 8 SDK, explaining complex concepts and techniques in the same friendly, easy-to-follow style you've come to expect. *More iPhone Development with Swift* covers topics like Swift, Core Data, peer-to-peer networking using Multipeer Connectivity, working with data from the web, MapKit, in-application e-mail, Camera Live-Previews integration, Barcode scanning, Face recognition and more. All the concepts and APIs are clearly presented with code snippets you can customize and use, as you like, in your own apps. You'll journey through coverage of concurrent programming and some advanced techniques for debugging your applications.

Learn iOS 8 App Development is both a rapid tutorial and a useful reference. You'll quickly get up to speed with Swift, Cocoa Touch, and the iOS 8 SDK. It's an all-in-one getting started guide to building useful apps. You'll learn best practices that ensure your code will be efficient and perform well, earning positive reviews on the iTunes App Store, and driving better search results and more revenue. The iOS 8 SDK offers powerful new features, and this book is the fastest path to mastering them—and the rest of the iOS SDK—for programmers with some experience who are new to iPhone and iPad app development. Many books introduce the iOS SDK, but few explain how to develop apps optimally and soundly. This book teaches both core Swift language concepts and how to exploit design patterns and logic with the iOS SDK, based on Swift and the Cocoa Touch framework. Why spend months or years discovering the best ways to design and code iPhone and iPad apps when this book will show you how to do things the right way from the start? Get an accelerated treatment of the core fundamentals of Swift. Develop your first app using Xcode's advanced interface design tools. Build your first iPhone app using the code that you're given as you walk through this book. Finally, debug and distribute your first app on Apple's iTunes App Store. Learn how to create apps for any model of iPhone, the iPod Touch, the iPad, or build universal apps that run on all of them. After reading this book, you'll be creating professional quality apps, ready to upload to the app store, making you the prestige and the money you seek!

* * * * * GoLearningBus: A quality product from WAG Mobile Inc !!! * * * * * Focus of GoLearningBus is to make education enjoyable, entertaining, and exciting for everyone. GoLearningBus brings you, simpleNeasy, on-the-go learning eBook for

"Introduction to Swift Programming". The eBook provides: 1. Snack sized chapters for easy learning. 2. Simple and easy quizzes for self-assessment. 3. Code Samples for practice. Designed for both students and adults. This eBook provides a quick summary of essential concepts in Swift Programming by following snack sized chapters: Introduction to Swift, Swift Tools, Let's Write Some Code in Swift, Swift Basics, Swift Variables and Data Types, Operators, Controlling Program Flow, Functions, Classes and Structures, Properties and Methods, Inheritance, Enumeration, Memory Management, Using Swift with Cocoa and Objective C.

About GoLearningBus eBooks: 1) A companion eBook for on-the-go, bite-sized learning. 2) Over Three million paying customers from 175+ countries. Why GoLearningBus eBooks: 1) Beautifully simple, Amazingly easy, Massive selection of eBooks. 2) Effective, Engaging and Entertaining eBooks. 3) An incredible value for money. Lifetime of free updates! GoLearningBus Vision : simpleNeasy eBooks for a lifetime of on-the-go learning GoLearningBus Mission : A simpleNeasy GoLearningBus eBook in every hand. Visit us : www.GoLearningBus.com Please write to us at Team@WAGmob.com. We would love to improve this eBook.

Program the Internet of Things with Swift and iOS is a detailed tutorial that will teach you how to build apps using Apple's native APIs for the Internet of Things, including the Apple Watch, HomeKit, and Apple Pay. This is the second book by Ahmed Bakir (author of Beginning iOS Media App Development) and his team at devAtelier LLC, who have been involved in developing over 20 mobile projects. Written like a code review, this book presents a detailed "how" and "why" for each topic, explaining Apple-specific design patterns as they come up and pulling lessons from other popular apps. To help you getting up and running quickly, each chapter is framed within a working project, allowing you to use the sample code directly in your apps. The Internet of Things is not limited to Apple devices alone, so this book also explains how to interface with popular third-party hardware devices, such as the Fitbit and Raspberry Pi, and generic interfaces, like Restful API's and HTTPS. The Internet of Things is waiting — be a part of it!

The team that brought you the bestselling Beginning iPhone Development, the book that taught the world how to program on the iPhone, is back again for Beginning iPhone Development with Swift. This definitive guide to the Swift programming language and the iOS 8 SDK, and the source code has been updated to reflect Xcode 6.3.1 and Swift 1.2. There's coverage of brand-new technologies, including Swift playgrounds, as well as significant updates to existing material. You'll have everything you need to create your very own apps for the latest iOS devices. Every single sample app in the book has been rebuilt from scratch using the latest Xcode and the latest 64-bit iOS 8-specific project templates, and designed to take advantage of the latest Xcode features. Assuming little or no working knowledge of the new Swift programming language, and written in a friendly, easy-to-follow style, this book offers a complete soup-to-nuts course in iPhone, iPad, and iPod touch programming. The book starts with the basics, walking through the process of downloading and installing Xcode and the iOS 8 SDK, and then guides you through the creation of your first simple application. From there, you'll learn how to integrate all the interface elements iOS users have come to know and love, such as buttons, switches, pickers, toolbars, and sliders. You'll master a variety of design patterns, from the simplest single view to complex hierarchical drill-downs. The art of table building will be demystified, and you'll learn how to save your data using the iPhone file system. You'll also learn how to save and retrieve your data using a variety of persistence techniques, including

Core Data and SQLite. And there's much more!

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

What You Will Learn

- Develop your own bestselling iPhone and iPad apps
- Utilize Swift playgrounds
- Display data in Table Views
- Draw to the screen using Core Graphics
- Use iOS sensor capabilities to map your world
- Get your app to work with iCloud and more

Who This Book is For

Anyone who wants to start developing for iPhone and iPad.

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 programming language for Cocoa and Cocoa Touch. Now in its second edition, *Swift for Beginners* has been updated to accommodate the evolving features of this rapidly adopted language. 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 hands-on 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

- Best practices from an experienced Mac and iOS developer
- Emphasis on how to use Xcode, Playgrounds, and the REPL

COMPANION WEBSITE: www.peachpit.com/swiftbeginners2 includes additional resources.

Unearth some of the most significant attacks threatening iOS applications in recent times and learn methods of patching them to make payment transactions and personal data sharing more secure. When it comes to security, iOS has been in the spotlight for a variety of reasons. Although a tough system to manipulate, there are still critical security bugs that can be exploited. In response to this issue, author Kunal Relan offers a concise, deep dive into iOS security, including all the tools and methods to master reverse engineering of iOS apps and penetration testing. What you will learn:

- Get a deeper understanding of iOS infrastructure and architecture
- Obtain deep insights of iOS security and jailbreaking
- Master reverse engineering techniques for securing your iOS

Apps• Discover the basics of application development for iOS• Employ security best practices for iOS applications Who is this book for: Security professionals, Information Security analysts, iOS reverse engineers, iOS developers, and readers interested in secure application development in iOS.

Bring the power of functional programming to Swift to develop clean, smart, scalable and reliable applications. About This Book Written for the latest version of Swift, this is a comprehensive guide that introduces iOS, Web and macOS developers to the all-new world of functional programming that has so far been alien to them Get familiar with using functional programming alongside existing OOP techniques so you can get the best of both worlds and develop clean, robust, and scalable code Develop a case study on example backend API with Swift and Vapor Framework and an iOS application with Functional Programming, Protocol-Oriented Programming, Functional Reactive Programming, and Object-Oriented Programming techniques Who This Book Is For Meant for a reader who knows object-oriented programming, has some experience with Objective-C/Swift programming languages and wants to further enhance his skills with functional programming techniques with Swift 3.x. What You Will Learn Understand what functional programming is and why it matters Understand custom operators, function composition, currying, recursion, and memoization Explore algebraic data types, pattern matching, generics, associated type protocols, and type erasure Get acquainted with higher-kinded types and higher-order functions using practical examples Get familiar with functional and non-functional ways to deal with optionals Make use of functional data structures such as semigroup, monoid, binary search tree, linked list, stack, and lazy list Understand the importance of immutability, copy constructors, and lenses Develop a backend API with Vapor Create an iOS app by combining FP, OOP, FRP, and POP paradigms In Detail Swift is a multi-paradigm programming language enabling you to tackle different problems in various ways. Understanding each paradigm and knowing when and how to utilize and combine them can lead to a better code base. Functional programming (FP) is an important paradigm that empowers us with declarative development and makes applications more suitable for testing, as well as performant and elegant. This book aims to simplify the FP paradigms, making them easily understandable and usable, by showing you how to solve many of your day-to-day development problems using Swift FP. It starts with the basics of FP, and you will go through all the core concepts of Swift and the building blocks of FP. You will also go through important aspects, such as function composition and currying, custom operator definition, monads, functors, applicative functors, memoization, lenses, algebraic data types, type erasure, functional data structures, functional reactive programming (FRP), and protocol-oriented programming (POP). You will then learn to combine those techniques to develop a fully functional iOS application from scratch Style and approach An easy-to-follow guide that is full of hands-on coding examples of real-world applications. Each topic is explained sequentially and placed in context, and for the more inquisitive, there are more details of the concepts used. It introduces the Swift language basics and functional programming techniques in simple, non-mathematical vocabulary with examples in Swift.

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 get into the swing of the new

language like a pro. Designed from the ground up to be a simpler programming language, it's never been easier to get started creating apps for the iPhone or iPad, or applications for Mac OS X. Inside the book, you'll find out how to set up Xcode for a new Swift application, use operators, objects, and data types, and control program flow with conditional statements. You'll also get the scoop on creating new functions, statements, and declarations, learn useful patterns in an object-oriented environment, and take advantage of frameworks to speed your coding along. Plus, you'll find out how Swift does away with pointer variables and how to reference 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 social media Whether you're an existing Objective-C programmer looking to port your code to Swift or you've never programmed for Apple in the past, this fun and friendly guide gets you up to speed swiftly.

Paris Buttfield-Addison listed as first author on cover.

The team that brought you the bestselling *Beginning iPhone Development*, the book that taught the world how to program on the iPhone, is back again for *Beginning iPhone Development with Swift*. This definitive guide to the Swift programming language and the iOS 8 SDK, and the source code has been updated to reflect Xcode 6.3.1 and Swift 1.2. There's coverage of brand-new technologies, including Swift playgrounds, as well as significant updates to existing material. You'll have everything you need to create your very own apps for the latest iOS devices. Every single sample app in the book has been rebuilt from scratch using the latest Xcode and the latest 64-bit iOS 8-specific project templates, and designed to take advantage of the latest Xcode features. Assuming little or no working knowledge of the new Swift programming language, and written in a friendly, easy-to-follow style, this book offers a complete soup-to-nuts course in iPhone, iPad, and iPod touch programming. The book starts with the basics, walking through the process of downloading and installing Xcode and the iOS 8 SDK, and then guides you through the creation of your first simple application. From there, you'll learn how to integrate all the interface elements iOS users have come to know and love, such as buttons, switches, pickers, toolbars, and sliders. You'll master a variety of design patterns, from the simplest single view to complex hierarchical drill-downs. The art of table building will be demystified, and you'll learn how to save your data using the iPhone file system. You'll also learn how to save and retrieve your data using a variety of persistence techniques, including Core Data and SQLite. And there's much more! What you'll learn Everything you need to know to develop your own bestselling iPhone and iPad apps Utilizing Swift playgrounds Best practices for optimizing your code and delivering great user experiences What data persistence is, and why it's important Get started with building cool, crisp user interfaces How to display data in Table Views How to draw to the screen using Core Graphics How to use iOS sensor capabilities to map your world How to get your app to work with iCloud and more Who this book is for This book is for aspiring iPhone app developers, new to the Apple Swift programming language and/or the iOS SDK. Table of Contents 1. Welcome to the Swift Jungle 2. Appeasing the Tiki Gods 3. Handling Basic Interaction 4. More User Interface Fun 5. Rotation and Adaptive Layout 6. Multiview Applications 7. Tab Bars and

Pickers 8. Introduction to Table Views 9. Navigation Controllers and Table Views 10. Collection Views 11. iPad Considerations 12. Application Settings and User Defaults 13. Basic Data Persistence 14. Hey! You! Get onto iCloud! 15. Grand Central Dispatch, Background Processing, and You 16. Core Graphics: Drawing with Quartz 17. Getting Started with Sprite Kit 18. Taps, Touches, and Gestures 19. Where Am I? Finding Your Way with Core Location and Map Kit 20. Whee! Gyro and Accelerometer! 21. The Camera and Photo Library 22. Application Localization 23. Appendix: A Swift Introduction to Swift

"In this Mixed Language App Development with Objective-C and Swift training course, expert author Jesse Feiler will teach you how to effectively develop apps for Cocoa and Cocoa Touch with Xcode. This course is designed for users that are already familiar with Objective-C and Swift. You will start by learning how apps are built, then jump into setting up the development environment. From there, Jesse will explore the main issues, such as brackets and dots, named parameters in Objective-C, and Objective-C nil code. This video tutorial will teach you how to work with classes, declare properties and variables, initialize objects and properties, and declare methods. You will also learn how to create functions and methods, use Tuples in Swift, mix and match Swift and Objective-C, work with switches, and override operators in Swift. Finally, you will learn how to expand your app using an extension or category, as well as how to share your code using Swift and Objective-C. Once you have completed this computer based training course, you will be fully capable of developing your own apps for Cocoa and Cocoa Touch with Xcode."--Resource description page.

Transition from Objective-C to the cleaner, more functional Swift quickly and easily Professional Swift shows you how to create Mac and iPhone applications using Apple's new programming language. This code-intensive, practical guide walks you through Swift best practices as you learn the language, build an application, and refine it using advanced concepts and techniques. Organized for easy navigation, this book can be read end-to-end for a self-paced tutorial, or used as an on-demand desk reference as unfamiliar situations arise. The first section of the book guides you through the basics of Swift programming, with clear instruction on everything from writing code to storing data, and Section II adds advanced data types, advanced debugging, extending classes, and more. You'll learn everything you need to know to make the transition from Objective-C to Swift smooth and painless, so you can begin building faster, more secure apps than ever before. Get acquainted with the Swift language and syntax Write, deploy, and debug Swift programs Store data and interface with web services Master advanced usage, and bridge Swift and Objective-C Professional Swift is your guide to the future of OS X and iOS 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.

Use Xcode 6 to Craft Outstanding iOS and OS X Apps! Xcode 6 Start to Finish will help you use Apple's Xcode 6 tools to improve productivity, write great code, and leverage the newest iOS 8 and OS X Yosemite features, including Apple's new Swift programming language. Drawing on more than thirty years of experience developing for Apple platforms, and helping others do so, Fritz Anderson presents a complete best-practice workflow that reflects Xcode's latest innovations. Through three full, sample projects, you'll learn to integrate testing, source control, and other key skills into a high-efficiency process that works. And all sample code has been completely written in Swift, with figures and descriptions that reflect Xcode's radically new interface. This is the only Xcode 6 book focused on deep mastery of the tools you'll be living with every day. Anderson reveals better ways to storyboard, instrument, build, and compile code, and helps you apply new features, ranging from Interface Builder Live Rendering to View Debugging and XCTest Performance Testing. By the time you're finished, you'll have all the Xcode 6 skills you need in order to develop truly exceptional software. Coverage includes Working with iOS-side dynamic frameworks and iOS/OS X extension modules Streamlining Model, View, and Controller development with Swift Rewriting Objective-C functions in Swift Efficiently managing layouts and view hierarchies with size classes Inspecting and fixing interface issues with the new View Debugger Displaying and configuring custom views within Interface Builder via Live Rendering Benchmarking performance within the Xcode 6 unit test framework Leveraging Xcode 6 automated tools to simplify localization Creating new extensions to inject services and UI into other applications Mastering new Swift debugging techniques Register your book at informit.com/register for access to this title's downloadable code.

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