

# Learning iPhone Programming From Xcode To App Store

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**Learning iOS Programming, 3rd Edition**  
- Alasdair Allan 2013

**Beginning IOS 13 & Swift App Development: Develop IOS Apps with**

**Xcode 11, Swift 5, Core ML, ARKit and More** - Greg Lim 2020-09

In this book, we take you on a fun, hands-on and pragmatic journey to learning iOS13 application

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development using Swift. You'll start building your first iOS app within minutes. Every section is written in a bite-sized manner and straight to the point as I don't want to waste your time (and most certainly mine) on the content you don't need. In the end, you will have the skills to create an app and submit it to the app store. In the course of this book, we will cover: Chapter 1 - Working with Xcode and Swift to build a BMI calculator app. Chapter 2 - Build a Quotes app using Table View Chapter 3 - Create a To Do List app where we create, read, update and delete to-do items Chapter 4 - Implement data persistency to our To Do List app using Core Data Chapter 5 - Improve our To Do List app by adding images and implementing swipe deletion Chapter 6 - Build a cryptocurrency price tracker app which retrieves prices via an API Chapter 7 - Build a image detection app using machine learning with Core

ML 2 and Create ML 2 Chapter 8 - Create an Augmented Reality app with ARKit Chapter 9 - Publish our app on to the App store Chapter 10 - SwiftUI Chapter 11 - Dark Mode Chapter 12 - Porting your iOS App to the Mac with Project Catalyst Chapter 13 - In-App Purchases The goal of this book is to teach you iOS development in a manageable way without overwhelming you. We focus only on the essentials and cover the material in a hands-on practice manner for you to code along. About the Reader No previous knowledge on iOS development required, but you should have basic programming knowledge. About the Author Greg Lim is a technologist and author of several programming books. Greg has many years in teaching programming in tertiary institutions and he places special emphasis on learning by doing.

**Mastering iOS 12 Programming** - Donny Wals 2018-10-31  
Become a professional iOS developer

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with the most in-depth and advanced guide to Swift, Xcode 10, ARKit, and Core ML Key Features Explore the extensive world of iOS development through practical examples Gain detailed insights into core iOS programming concepts such as app extensions and performance Extend your iOS apps by adding augmented reality and machine learning capabilities Book Description The iOS development environment has significantly matured, and with Apple users spending more money in the App Store, there are plenty of development opportunities for professional iOS developers. However, the journey to mastering iOS development and the new features of iOS 12 is not straightforward. This book will help you make that transition smoothly and easily. With the help of Swift 4.2, you'll not only learn how to program for iOS 12, but also how to write efficient, readable, and maintainable Swift code that maintains industry

best practices. Mastering iOS 12 Programming will help you build real-world applications and reflect the real-world development flow. You will also find a mix of thorough background information and practical examples, teaching you how to start implementing your newly gained knowledge. By the end of this book, you will have got to grips with building iOS applications that harness advanced techniques and make best use of the latest and greatest features available in iOS 12. What you will learn Build a professional iOS application using Xcode 10 and Swift 4.2 Use AutoLayout to create complex layouts that look great on every device Delve into advanced animations with UIViewPropertyAnimator and UIKit Dynamics Enhance your app by using instruments and building your own profiling tools Integrate iMessage, Siri, and more in your app through app extensions Train and use machine

learning models with Core ML 2 and Create ML Create engaging augmented reality experiences with ARKit 2Who this book is for If you're a developer with some experience in iOS programming and want to enhance your skills by unlocking the full potential of the latest iOS version with Swift to build great applications, this book is for you.

*Head First iPhone and iPad*

*Development* - Dan Pilone 2013-12-18

Provides information on using iOS SDK tools to create applications for the iPhone and the iPad.

*Learning iOS Programming* - Alasdair Allan 2012-03-23

With this guide, you'll build several sample applications by learning how to use Xcode tools, the Objective-C programming language, and the core frameworks.

**Learning App Development in iOS 8** - Keith Welch 2014

"In this Learning App Development in iOS 8 training course, expert author

Keith Welch will teach you how to use Xcode and Objective-C to create iPhone and iPad apps. This course is designed for the absolute beginner, meaning no iOS app development experience is required. You will start by learning the basics of Xcode and Objective-C, as well as the iOS SDK. From there, Keith will teach you how to build a user interface using storyboard. This video tutorial will cover basic user interface elements such as labels and text views, and more advanced controls like collection views and tab bars. You will also cover iOS features, including location services, mapping, social networking, reminders, and alarms. Keith will also teach you about the new iOS features, including CloudKit, HomeKit, and PhotoKit. Finally, you will work with the Dev Center and learn how to submit your completed iPhone or iPad app for inclusion in the iTunes App Store."-- Resource description page.

Apple Game Frameworks and Technologies - Tammy Coron 2021-05-11  
Design and develop sophisticated 2D games that are as much fun to make as they are to play. From particle effects and pathfinding to social integration and monetization, this complete tour of Apple's powerful suite of game technologies covers it all. Familiar with Swift but new to game development? No problem. Start with the basics and then layer in the complexity as you work your way through three exciting - and fully playable - games. In the end, you'll know everything you need to go off and create your own video game masterpiece for any Apple platform. Discover the power of Apple Game Frameworks, Xcode, and Swift by building three exciting games: Gloop Drop - a new twist on a classic arcade game, Val's Revenge - a roguelike dungeon crawler, and Hog - a social player vs. player mobile dice game. With Apple Game

Frameworks, you can create high-performance, power-efficient games that work across all Apple platforms, including iOS, macOS, tvOS, and watchOS. In this book, you'll discover how to... Design and develop rich 2D gaming experiences using Apple's built-in game frameworks. Harness the power of SpriteKit using Xcode and Swift to create engaging player experiences. Use the visual Scene Editor to build complete scenes. Unleash the power of the Particle Editor to create amazing effects. Use GameplayKit to add advanced features to your games like pathfinding, artificial intelligence, and complex rule systems. Build larger, more complex worlds with tile maps and Xcode's visual Tile Map editor. Bring people together using GameKit and Game Center, Apple's social gaming network. Increase revenue with third-party banner ads and rewarded ads using Google AdMob (tm). Monetize your games with

StoreKit and in-app purchases. So, grab your gear and get your game on – it's time to level up your skills. What You Need: macOS Mojave 10.14.6 or newer Xcode 11.3 or newer Basic knowledge of Swift 5.1.4 or newer [Learn iOS 7 App Development](#) - James Bucanek 2013-12-12

Learn iOS App Development is both a rapid tutorial and a useful reference. You'll quickly get up to speed with Objective-C, Cocoa Touch, and the iOS 7 SDK. It's an all-in-one getting started guide to building your first iPhone or iPad app. 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 7 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 Objective-C language concepts and how to exploit design patterns and logic with the iOS SDK, based on Objective-C 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 Objective-C. 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! What you'll learn Develop simple to moderately complex iOS apps. Add sound and iPod music playback, the camera, and photos to your app. Connect your app to the world through internet services, peer-to-peer networking, social networking, and cloud synchronization. Plug into the latest mobile technologies: maps, GPS, accelerometer, gyroscope, and compass. Polish your apps with elegant animation and effortless navigation. Improve your app's quality with core design patterns and best programming practices. Who this book is for This book requires no prior iPhone or iOS app coding experience, but some comfort with programming in general is assumed. Table of Contents Getting Your Tools Boom, App! Spin a Web Coming Events Table Manners Object Lesson Smile! Model Citizen Sweet, Sweet, Music Got

Tools? Draw Me a Picture There and Back Again Networking, the Nerdy Kind Networking, the Social Kind Build It and They Will Come Wheeeeeeee! Where Am I? Remember Me? Document This Being Objective The Elephant in the Room Êtes-vous polyglotte? Faster, Faster! Twice as Nice [IOS Apprentice](#) - Matthijs Hollemans 2014-12-01 Learn iPhone and iPad Programming via Tutorials! If you're new to iOS and Swift, or to programming in general, learning how to write an app can seem incredibly overwhelming. That's why you need a book that: Shows you how to write an app step-by-step Has tons of illustrations and screenshots to make everything clear Is written in a fun and easygoing manner! In this book, you will learn how to make your own iPhone and iPad apps, through a series of four epic-length hands-on tutorials. These hands-on tutorials describe in full detail how to build a new app from scratch. Four

tutorials, four apps. Each new app will be a little more advanced than the one before, and together they cover everything you need to know to make your own apps. By the end of the series you'll be experienced enough to turn your ideas into real apps that you can sell on the App Store.

**Tutorial 1: Bull's Eye.** In the first tutorial in the book, you'll start off by building a simple but fun game to learn the basics of iPhone programming. In the process, you'll get familiar with Xcode, Interface Builder, and Swift in an easygoing manner.

**Tutorial 2: Checklists.** In the second tutorial in the series, you'll create your own to-do list app. In the process, you'll learn about the fundamental design patterns that all iOS apps use and about table views, navigation controllers and delegates. Now you're making apps for real!

**Tutorial 3: MyLocations.** In the third tutorial, you'll develop a location-aware app that lets you keep

a list of spots that you find interesting. In the process, you'll learn about Core Location, Core Data, Map Kit, and much more!

**Tutorial 4: StoreSearch.** Mobile apps often need to talk to web services and that's what you'll do in this final tutorial of the book. You'll make a stylish app for iPhone and iPad that lets you search for products on the iTunes store using HTTP requests and JSON. It is my sincere belief that this series can turn you from a complete newbie into an accomplished iOS developer, but you do have to put in the time and effort. By writing this book I've done my part, now it's up to you...

*Learning Cocoa with Objective-C* - James Duncan Davidson 2002

Learning Cocoa with Objective-C eases you into the experience of Cocoa development, not merely by reading, but by doing. After an introduction to Project Builder and Interface Builder, you'll quickly come up to



speed on the concepts of object-oriented programming with Objective-C, the language of choice for building applications to run on Mac OS X. Each chapter presents a different sample program for you to build, with easy-to-follow, step-by-step instructions to teach you the fundamentals of Cocoa programming. The techniques learned in each chapter lay the foundation for more advanced techniques and concepts presented in later chapters. You'll learn how to :

- Effectively use Apple's suite of Developer Tools, including Project Builder and Interface Builder
- Build single- and multiple-window document-based applications
- Manipulate text data using Cocoa's text handling capabilities
- Draw with Cocoa
- Localize your application for multiple language support
- Polish off your application by adding an icon for use in the Dock, providing Help, and packaging your program for

distribution At the end of each chapter, you'll be presented with a series of Exercises, challenging you to tweak the application you've just built, or to go back to an earlier example and add some new functionality to it. Solutions are provided in the Appendix, but you're encouraged to learn by trying. Originally written by insiders at Apple Computer, Inc., and revised for this new edition by James Duncan Davidson, this book is based on the Jaguar release of Mac OS X 10.2. Learning Cocoa with Objective-C covers the latest updates to the Cocoa frameworks, including the AddressBook framework. Also included with this edition are a handy API quick reference card and an appendix that includes a listing of resources essential to any Cocoa developer—beginning or advanced.

*iOS 15 Programming for Beginners* - Ahmad Sahar 2021-12-24

Learn iOS app development and work

with Xcode 13 and Apple's iOS 15 simulators Key Features Explore the latest features of Xcode 13 and the Swift 5.5 programming language in this updated sixth edition Start your iOS programming career and have fun building your own iOS apps Discover the new features of iOS 15 such as Mac Catalyst, SwiftUI, Swift Concurrency, and SharePlay Book Description With almost 2 million apps on the App Store, iOS mobile apps continue to be incredibly popular. Anyone can reach millions of customers around the world by publishing their apps on the App Store. iOS 15 Programming for Beginners is a comprehensive introduction for those who are new to iOS. It covers the entire process of learning the Swift language, writing your own app, and publishing it on the App Store. Complete with hands-on tutorials, projects, and self-assessment questions, this easy-to-follow guide will help you get well-

versed with the Swift language to build your apps and introduce exciting new technologies that you can incorporate into your apps. You'll learn how to publish iOS apps and work with Mac Catalyst, SharePlay, SwiftUI, Swift concurrency, and much more. By the end of this iOS development book, you'll have the knowledge and skills to write and publish interesting apps, and more importantly, to use the online resources available to enhance your app development journey. What you will learn Get to grips with the fundamentals of Xcode 13 and Swift 5.5, the building blocks of iOS development Understand how to prototype an app using storyboards Discover the Model-View-Controller design pattern and how to implement the desired functionality within an app Implement the latest iOS features such as Swift Concurrency and SharePlay Convert an existing iPad app into a Mac app with Mac Catalyst

Design, deploy, and test your iOS applications with design patterns and best practices Who this book is for This book is for anyone who has programming experience but is new to Swift and iOS app development. Basics knowledge of programming, including loops, boolean, and so on, is necessary.

*iOS 11 Programming Fundamentals with Swift* - Matt Neuburg 2017-09-26 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 In this edition, catch up on the latest iOS programming features. Multiline strings and improved dictionaries Object serialization Key paths and key-value observing Expanded git integration Code refactoring And more!

Learning iOS Programming - Alasdair Allan 2013-03-12

Get a rapid introduction to iPhone, iPad, and iPod touch programming. With this easy-to-follow guide, you'll learn how to develop your first marketable iOS application, from opening Xcode to submitting your product to the App Store. Whether you're a developer new to Mac programming or an experienced Mac developer ready to tackle iOS, this is your book. You'll learn about Objective-C and the core frameworks hands-on by writing several sample iOS applications, giving you the

basic skills for building your own applications independently. Packed with code samples, this book is refreshed and updated for iOS 6 and Xcode 4. Discover the advantages of building native iOS apps Get started with Objective-C and the Cocoa Touch frameworks Dive deep into the table view classes for building user interfaces Handle data input, parse XML and JSON documents, and store data on SQLite Use iOS sensors, including the accelerometer, magnetometer, camera, and GPS Build apps that use the Core Location and MapKit frameworks Integrate Apple's iCloud service into your applications Walk through the process of distributing your polished app to the App Store

**Swift in 30 Days** - Gaurang

Ratnaparkhi 2021-09-03

Designing iOS mobile apps using simple Swift codes and libraries. KEY FEATURES ● Combines the fundamentals of Swift and power-packed libraries,

including SwiftUI. ● Includes graphical illustrations and step-by-step instructions on coding your first iOS application. ● Covers end-to-end iOS app development with code debugging and best practices. DESCRIPTION 'Swift in 30 Days' teaches young graduates and coding applicants to enter the field of rapid development of applications through simplified, pragmatic, and quick programming learning without much theory. The book examines the basics of Swift programming, fundamental Swift building blocks, how to write syntax, constructs, define classes, arrays, model data with interfaces, and several examples of Swift programming. The book will help you to create the environment for app development, including tools and libraries like Xcode and SwiftUI. You will learn to work with Xcode and Swift libraries and finally make an independently developed Swift application. You will have access to

design patterns and learn how to handle errors, debug, and work with protocols. By the end of this book, you will become a trusted Swift programmer and a successful iOS developer who will dive deeper into Apple's intelligent app programming challenge. WHAT YOU WILL LEARN ● Create an iOS app from scratch and learn fundamental Swift concepts such as operators and control flow. ● Create intuitive and intelligent user interfaces with an understanding of self-design and constraints. ● Recap OOP concepts and Swift protocol-based programming. ● Work with design patterns, write clean codes, and build expert tables and navigations. ● Work with Xcode and SwiftUI 2.0.

WHO THIS BOOK IS FOR This book is for students, graduates, and entry-level coders who want to learn iOS app development without prior Swift or mobile app development experience. TABLE OF CONTENTS Week 1 (Beginner) 1. Building Your First App 2. Swift

Programming Basics 3. Auto Layout 4. Types and Control Flow Week 2 (Intermediate) 5. Optional Type and More 6. Code Structuring Week 3 (Advanced) 7. OOP in Swift 8. Protocols and Delegates Week 4 (Bonus) 9. Error handling and Debugging 10. SwiftUI

*Learning Swift* - Paris Buttfield-Addison 2016-05-02

Get hands-on experience with Apple's Swift programming language by building real working apps. With this practical guide, skilled programmers with little or no knowledge of Apple development will learn how to code with Swift 2 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 features for object-oriented development, as well as various developer tools OS X app development: Set up your app, work with its documents, and build out its features iOS app development: Use multimedia, contacts, location, notifications, and iCloud files to build a fully featured iOS Notes app Advanced app extensions: Support Apple Watch and learn how to debug, monitor, and test all three of your Swift apps

### **Learning iPhone Programming -**

Alasdair Allan 2010-03-09

Get the hands-on experience you need to program for the iPhone and iPod Touch. With this easy-to-follow guide, you'll build several sample applications by learning how to use Xcode tools, the Objective-C

programming language, and the core frameworks. Before you know it, you'll not only have the skills to develop your own apps, you'll know how to sail through the process of submitting apps to the iTunes App Store. Whether you're a developer new to Mac programming or an experienced Mac developer ready to tackle the iPhone and iPod Touch, Learning iPhone Programming will give you a head start on building market-ready iPhone apps. Start using Xcode right away, and learn how to work with Interface Builder Take advantage of model-view-controller (MVC) architecture with Objective-C Build a data-entry interface, and learn how to parse and store the data you receive Solve typical problems while building a variety of challenging sample apps Understand the demands and details of App Store and ad hoc distribution Use iPhone's accelerometer, proximity sensor, GPS, digital compass, and camera Integrate

your app with iPhone's preference pane, media playback, and more

**iOS Development with Swift** - Craig Grummitt 2017-11-13

Summary iOS Development with Swift is a hands-on guide to creating apps for iPhone and iPad using the Swift language. Inside, you'll be guided through every step of the process for building an app, from first idea to App Store. This book fully covers Swift 4, Xcode 9, and iOS 1. Our video course, iOS Development with Swift in Motion, is the perfect companion to this book, featuring even more projects and examples for you to dig into in the exciting world of iOS development. Find out more at our website:

[www.manning.com/livevideo/ios-development-with-swift-lv](http://www.manning.com/livevideo/ios-development-with-swift-lv) Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology One billion iPhone users are waiting for the next amazing app.

It's time for you to build it! Apple's Swift language makes iOS development easier than ever, offering modern language features, seamless integration with all iOS libraries, and the top-notch Xcode development environment. And with this book, you'll get started fast. About the Book iOS Development with Swift is a hands-on guide to creating iOS apps. It takes you through the experience of building an app—from idea to App Store. After setting up your dev environment, you'll learn the basics by experimenting in Swift playgrounds. Then you'll build a simple app layout, adding features like animations and UI widgets. Along the way, you'll retrieve, format, and display data; interact with the camera and other device features; and touch on cloud and networking basics. What's Inside Create adaptive layouts Store and manage data Learn to write and debug Swift code Publish to the App Store Covers Swift 4, Xcode 9,

and iOS 11 About the Reader Written for intermediate web or mobile developers. No prior experience with Swift assumed. About the Author Craig Grummitt is a successful developer, instructor, and mentor. His iOS apps have had over 100,000 downloads combined! Table of Contents PART 1 - INTRODUCING XCODE AND SWIFT Your first iOS application Introduction to Swift playgrounds Swift objects PART 2 - BUILDING YOUR INTERFACE View controllers, views, and outlets User interaction Adaptive layout More adaptive layout Keyboard notifications, animation, and scrolling PART 3 - BUILDING YOUR APP Tables and navigation Collections, searching, sorting, and tab bars Local data persistence Data persistence in iCloud Graphics and media Networking Debugging and testing PART 4 - FINALIZING YOUR APP Distributing your app What's next? *Programming IOS 6* - Matt Neuburg 2013 Provides information on using iOS 6

to create applications for the iPhone, iPad, and iPod Touch. **Complete IOS 12 Development Guide** - Craig Clayton 2019-03-20 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. **iOS 13 Programming for Beginners -**

Ahmad Sahar 2020-01-24

A step-by-step guide to learning iOS app development and exploring the latest Apple development tools. Key Features: Explore the latest features of Xcode 11 and the Swift 5 programming language in this updated fourth edition. Kick-start your iOS programming career and have fun building your own iOS apps. Discover the new features of iOS 13 such as Dark Mode, iPad apps for Mac, SwiftUI, and more. Book Description: iOS 13 comes with features ranging from Dark Mode and Catalyst through to SwiftUI and Sign In with Apple. If you're a beginner and are looking to experiment and work with these features to create your own apps, then this updated fourth edition gets you off to a strong start. The book offers a comprehensive introduction for programmers who are new to iOS, covering the entire process of learning the Swift language, writing your own apps, and publishing them on

the App Store. This edition is updated and revised to cover the new iOS 13 features along with Xcode 11 and Swift 5. The book starts with an introduction to the Swift programming language, and how to accomplish common programming tasks with it. You'll then start building the user interface (UI) of a complete real-world app, using the latest version of Xcode, and also implement the code for views, view controllers, data managers, and other aspects of mobile apps. The book will then help you apply the latest iOS 13 features to existing apps, along with introducing you to SwiftUI, a new way to design UIs. Finally, the book will take you through setting up testers for your app, and what you need to do to publish your app on the App Store. By the end of this book, you'll be well versed with how to write and publish apps, and will be able to apply the skills you've gained to enhance your apps. What you will learn: Get to grips

with the fundamentals of Xcode 11 and Swift 5, the building blocks of iOS development. Understand how to prototype an app using storyboards. Discover the Model-View-Controller design pattern, and how to implement the desired functionality within the app. Implement the latest iOS features such as Dark Mode and Sign In with Apple. Understand how to convert an existing iPad app into a Mac app. Design, deploy, and test your iOS applications with industry patterns and practices. Who this book is for: This book is for anyone who has programming experience but is completely new to Swift and iOS app development. Experienced programmers looking to explore the latest iOS 13 features will also find this book useful.

**IOS App Distribution & Best Practices (First Edition)** – Pietro Rea

2021-04-21

Sharing Apple Apps With Your Team, Testers & the World You'll learn how

to sign up for Apple Developer Program, generate the various certificates needed, configure your app and submit an app to the App Store for approval, both manually and through automated processes through automated pipelines. You'll learn how to use Apple TestFlight to add internal and external testers and receive feedback and crash reports. iOS App Distribution starts with explaining hurdles everyone faces, such as code signing, provisioning profiles, and how to do manual releases. It'll then go into more advanced topics, including distribution through TestFlight, build customization, automation, and continuous integration. Who This Book Is For: This book is for beginner to experienced developers who want to know the best and most common workflow to release an app to the App store, as well as limiting frustration by troubleshooting and debugging common issues and problems

associated with distributing apps. Topics Covered in iOS App Distribution & Best Practices App Store quick start: Your quickest way from no account to the App Store. Provisioning, code signing & entitlements: In-depth explanation of what they are, why you need them, and how they work. Distribution channels & TestFlight: Learn different ways of distributing your app, within an enterprise, with internal or external testers. App Store Connect: Learn about the Apple review process, what are the guidelines, what can go wrong and how to dispute them. Build customizations: Learn the ins and outs of configuring Xcode and build configurations. Build automation: Automate builds, build servers, and learn about tools such as fastlane. Continuous integration: Build your own CI pipeline to code, build, test, release, and repeat! After reading this book, you'll take your app build process and distribution to the next

level, automate most of its tedious processes, and have an easier time debugging obscure app submission problem  
*Swift 5 for Absolute Beginners* - Stefan Kaczmarek 2019-06-26  
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.

MatConvNet Deep Learning and iOS Mobile App Design for Pattern Recognition: Emerging Research and Opportunities - Wu, Jiann-Ming

2020-04-17

Deep learning has become a trending area of research due to its adaptive characteristics and high levels of applicability. In recent years, researchers have begun applying deep learning strategies to image analysis and pattern recognition for solving technical issues within image classification. As these technologies continue to advance, professionals have begun translating this intelligent programming language into mobile applications for devices. Programmers and web developers are in need of significant research on how to successfully develop pattern recognition applications using intelligent programming. MatConvNet Deep Learning and iOS Mobile App Design for Pattern Recognition: Emerging Research and Opportunities is an essential reference source that presents a solution to developing intelligent pattern recognition Apps on iOS devices based on MatConvNet

deep learning. Featuring research on topics such as medical image diagnosis, convolutional neural networks, and character classification, this book is ideally designed for programmers, developers, researchers, practitioners, engineers, academicians, students, scientists, and educators seeking coverage on the specific development of iOS mobile applications using pattern recognition strategies.

**Learning the iOS 4 SDK for JavaScript Programmers** - Danny Goodman

2010-12-02

Is it possible for JavaScript programmers to learn Apple's iOS 4 SDK and live to tell the tale? Technology guru Danny Goodman did, and with this book he leaves a well-marked trail for you to follow. An authority on JavaScript since its inception, Goodman understands the challenges you might face in creating native iOS apps with this SDK, and introduces Xcode, Objective-C, and

Cocoa Touch in a context you'll readily understand. Why bother with the SDK when you can simply build web apps for Apple's iOS devices? Web apps can't access an iPhone's music library, camera, or iOS system software for maps, audio, and more. Nor can you sell web apps in the App Store. If you want to take full advantage of the iPhone and iPad, iOS 4 SDK is your tool -- and this is your book. Includes full coverage of iOS SDK 4.2. Learn the distinction between web app and iOS native app programming Create a workbench app to test code snippets throughout the learning process Get a structural view of an iOS app, and compare the process of building objects in Objective-C versus JavaScript Discover how your code launches iOS apps and makes them user-ready Learn about iOS memory management details that are different from JavaScript, including pointers and data types Use Objective-C and Cocoa Touch to

implement common JavaScript tasks  
*Learning iPad Programming* - Kirby  
Turner 2011-12-19

Learning iPad Programming walks you through the process of building PhotoWheel (free on the App Store), a photo management and sharing app that leverages every aspect of iOS 5. With PhotoWheel, you can organize your favorite photos into albums, share photos with family and friends, view them on your TV using AirPlay and an Apple TV, and most importantly, gain hands-on experience with building an iPad app. As you build PhotoWheel, you'll learn how to take advantage of the latest features in iOS 5 and Xcode, including Storyboarding, Automatic Reference Counting (ARC), and iCloud. Best of all, you'll learn how to extend the boundaries of your app by communicating with web services. If you want to build apps for the iPad, Learning iPad Programming is the one book to get. As you build PhotoWheel, you'll learn

how to Install and configure Xcode 4.2 on your Mac Master the basics of Objective-C, and learn about memory management with ARC Build a fully functional app that uses Core Data and iCloud for photo sharing and synchronization Use Xcode's new Storyboard feature to quickly prototype a functional UI, and then extend that UI with code Create multitouch gestures and integrate Core Animation for a unique UI experience Build custom views, and use view controllers to perform custom view transitions Add AirPrint, email, and AirPlay capabilities to your app Apply image filters and effects using Core Image Diagnose and fix bugs with Instruments Prepare your app for submission to the app store Download the free version of PhotoWheel from the App Store today! Share your photos with friends and upload to iCloud, all while learning how to build the app.

**Learning Mobile App Development** -

Downloaded from [ect2018.fpu.edu.py](http://ect2018.fpu.edu.py)  
on by guest

Jakob Iversen 2014

Now, one book can help you master mobile app development with both market-leading platforms: Apple's iOS and Google's Android. Perfect for both students and professionals, Learning Mobile App Development is the only tutorial with complete parallel coverage of both iOS and Android. With this guide, you can master either platform, or both--and gain a deeper understanding of the issues associated with developing mobile apps. You'll develop an actual working app on both iOS and Android, mastering the entire mobile app development lifecycle, from planning through licensing and distribution. Each tutorial in this book has been carefully designed to support readers with widely varying backgrounds and has been extensively tested in live developer training courses. If you're new to iOS, you'll also find an easy, practical introduction to Objective-C, Apple's native language.

**IOS 13 Programming for Beginners - Fourth Edition** - Ahmad Sahar 2020

A step-by-step guide to learning iOS app development and exploring the latest Apple development tools Key Features Explore the latest features of Xcode 11 and the Swift 5 programming language in this updated fourth edition Kick-start your iOS programming career and have fun building your own iOS apps Discover the new features of iOS 13 such as Dark Mode, iPad apps for Mac, SwiftUI, and more Book Description iOS 13 comes with features ranging from Dark Mode and Catalyst through to SwiftUI and Sign In with Apple. If you're a beginner and are looking to experiment and work with these features to create your own apps, then this updated fourth edition gets you off to a strong start. The book offers a comprehensive introduction for programmers who are new to iOS, covering the entire process of learning the Swift language, writing



your own apps, and publishing them on the App Store. This edition is updated and revised to cover the new iOS 13 features along with Xcode 11 and Swift 5. The book starts with an introduction to the Swift programming language, and how to accomplish common programming tasks with it. You'll then start building the user interface (UI) of a complete real-world app, using the latest version of Xcode, and also implement the code for views, view controllers, data managers, and other aspects of mobile apps. The book will then help you apply the latest iOS 13 features to existing apps, along with introducing you to SwiftUI, a new way to design UIs. Finally, the book will take you through setting up testers for your app, and what you need to do to publish your app on the App Store. By the end of this book, you'll be well versed with how to write and publish apps, and will be able to apply the skills you've gained to enhance your

apps. What you will learn Get to grips with the fundamentals of Xcode 11 and Swift 5, the building blocks of iOS development Understand how to prototype an app using storyboards Discover the Model-View-Controller design pattern, and how to implement the desired functionality within the app Implement the latest iOS features such as Dark Mode and Sign In with Apple Understand how to convert an existing iPad app into a Mac app Design, deploy, and test your iOS applications with industry patterns and practices Who this book is for This book is for anyone who has programming experience but is completely new to Swift and iOS app development. Experienced programmers looking to explore the latest iOS 13 features will...

Coding iPhone Apps for Kids - Gloria Winquist 2017-05-15

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 system Why 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 14 Programming for Beginners -**

Ahmad Sahar 2020-11-27

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 Features Explore the latest features of Xcode 12 and the Swift

5.3 programming language in this updated fifth edition Kick-start your iOS programming career and have fun building your own iOS apps Discover the new features of iOS 14 such as Mac Catalyst, SwiftUI, widgets and App Clips Book 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 learn Get to grips with the fundamentals of Xcode 12 and Swift 5.3, the building blocks of iOS development Understand how to prototype an app using storyboards Discover the Model-View-Controller design pattern and how to

implement the desired functionality within 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.

**Learning iPad Programming** - Kirby Turner 2013-05-13

“Not many books have a single project that lives and evolves through the entire narrative. The reason not many books do this is because it is difficult to do well. Important toolkit features get shoehorned in weird places because the author didn’t do enough up-front design time. This book, though, takes you from design, to a prototype, to the

Real Deal. And then it goes further.”  
—Mark Dalrymple, cofounder of CocoaHeads, the international Mac and iPhone programmer community; author of Advanced Mac OS X Programming: The Big Nerd Ranch Guide Learning iPad Programming, Second Edition, will help you master all facets of iPad programming with Apple’s newest tools. Its in-depth, hands-on coverage fully addresses the entire development process, from installing the iOS SDK through coding, debugging, submitting apps for Apple’s review, and deployment. Extensively updated for Apple’s newest iOS features and Xcode 4.x updates, this book teaches iPad programming through a series of exercises centered on building PhotoWheel, a powerful personal photo library app. As you build PhotoWheel, you’ll gain experience and real-world insights that will help you succeed with any iPad development project. Leading iOS developers Kirby Turner

and Tom Harrington introduce the essentials of iOS development, focusing on features that are specific to iPad. You'll find expert coverage of key topics many iOS development books ignore, from app design to Core Data. You'll also learn to make the most of crucial iOS and Xcode features, such as Storyboarding and Automatic Reference Counting (ARC), and extend your app with web services and the latest iCloud syncing techniques. Learn how to Build a fully functional app that uses Core Data and iCloud syncing Use Storyboarding to quickly prototype a functional UI and then extend it with code Create powerful visual effects with Core Animation and Core Image Support AirPrint printing and AirPlay slideshows Build collection views and custom views, and use custom segues to perform custom view transitions Download the free version of PhotoWheel from the App Store today! Import, manage, and

share your photos as you learn how to build this powerful app.

**Beginning iOS 12 & Swift App Development: Develop iOS Apps with Xcode 10, Swift 4, Core ML 2, Arkit 2 and More** - Greg Lim 2019-02-17

In this book, we take you on a fun, hands-on and pragmatic journey to learning iOS12 application development using Swift. You'll start building your first iOS app within minutes. Every section is written in a bite-sized manner and straight to the point as I don't want to waste your time (and most certainly mine) on the content you don't need. In the end, you will have the skills to create an app and submit it to the app store. In the course of this book, we will cover: Chapter 1 - Working with Xcode and Swift to build a BMI calculator app. Chapter 2 - Build a Quotes app using Table View Chapter 3 - Create a To Do List app where we create, read, update and delete to-do items Chapter 4 -

Implement data persistency to our To Do List app using Core Data Chapter 5 - Improve our To Do List app by adding images and implementing swipe deletion Chapter 6 - Build a cryptocurrency price tracker app which retrieves prices via an API Chapter 7 - Build a image detection app using machine learning with Core ML 2 and Create ML Chapter 8 - Create an Augmented Reality app with ARKit Chapter 9 - Publish our app on to the App store The goal of this book is to teach you iOS development in a manageable way without overwhelming you. We focus only on the essentials and cover the material in a hands-on practice manner for you to code along. About the Reader No previous knowledge on iOS development required, but you should have basic programming knowledge. About the Author Greg Lim is a technologist and author of several programming books. Greg has many years in teaching programming in tertiary institutions

and he places special emphasis on learning by doing.

Learning Swift - Jonathon Manning  
2018-03-27

Get valuable hands-on experience with Swift, the open source programming language developed by Apple. With this practical guide, skilled programmers with little or no knowledge of Apple development will learn how to code with the latest version of Swift by developing a working iOS app from start to finish. You'll begin with Swift programming basics—including guidelines for making your code "Swiftly"—and learn how to work with Xcode and its built-in Interface Builder. Then you'll dive step-by-step into building and customizing a basic app for taking, editing, and deleting selfies. You'll also tune and test the app for performance and manage the app's presence in the App Store. Divided into four parts, this book includes: Swift 4 basics: Learn Swift's basic

building blocks and the features of object-oriented development Building the Selfiegram app: Build model objects and the UI for your selfie app and add location support, user settings, and notifications Polishing Selfiegram: Create a theme and support for sharing and add custom views, image overlays, and localization Beyond app development: Debug and performance test with Xcode, automate chores with Fastlane, and user-test the app with TestFlight Learning Xcode 8 - Jak Tiano  
2016-11-18

Learn how to use the power of Xcode to turn your next great app idea into a reality About This Book Learn the theory and tools behind app development using Swift 3 and Xcode 8 Build a fully featured iOS app, including a companion app for the Apple Watch Optimize, debug, and ultimately release your app on Test Flight and the App Store Who This Book Is For This book is intended for

programmers looking to get a jump-start into the world of iOS development. Whether you're a young student who has only spent a few months with Java, or a seasoned developer who has spent their career developing for a different platform, all that is expected is a basic understanding of a programming language such as C++, C#, or Java. What You Will Learn Understand the most important features of the Xcode IDE Write Swift 3 code for application data models and view controllers Prepare visual layouts for an iOS application using storyboards, size classes, and auto-layout Integrate many common technologies into an app, such as multi-touch gestures, CoreData, and notifications Build companion applications for the Apple Watch with watchOS 3 Debug applications using Xcode's suite of debugging tools, and prevent bugs with unit testing Optimize an application using Xcode

8's profiling tools and asset catalogs. Distribute a beta application through TestFlight, and a finished application through the App Store. In Detail. Over the last few years, we've seen a breakthrough in mobile computing and the birth of world-changing mobile apps. With a reputation as one of the most user-centric and developer-friendly platforms, iOS is the best place to launch your next great app idea. As the official tool to create iOS applications, Xcode is chock full of features aimed at making a developer's job easier, faster, and more fun. This book will take you from complete novice to a published app developer, and covers every step in between. You'll learn the basics of iOS application development by taking a guided tour through the Xcode software and Swift programming language, before putting that knowledge to use by building your first app called "Snippets." Over the

course of the book, you will continue to explore the many facets of iOS development in Xcode by adding new features to your app, integrating gestures and sensors, and even creating an Apple Watch companion app. You'll also learn how to use the debugging tools, write unit tests, and optimize and distribute your app. By the time you make it to the end of this book, you will have successfully built and published your first iOS application. Style and approach This easy-to-follow guide presents topics in a hands-on lecture format where concepts are introduced and explained, then used in an example as reinforcement. The first third of the book covers the separate building blocks of development, while the second two thirds cover the development of an app from start to finish.

Learning Cocoa with Objective-C - Paris Buttfield-Addison 2014-02-19  
Get up to speed on Cocoa and



Objective-C, and start developing applications on the iOS and OS X platforms. If you don't have experience with Apple's developer tools, no problem! From object-oriented programming to storing app data in iCloud, the fourth edition of this book covers everything you need to build apps for the iPhone, iPad, and Mac. You'll learn how to work with the Xcode IDE, Objective-C's Foundation library, and other developer tools such as Event Kit framework and Core Animation. Along the way, you'll build example projects, including a simple Objective-C application, a custom view, a simple video player application, and an app that displays calendar events for the user. Learn the application lifecycle on OS X and iOS Work with the user-interface system in Cocoa and Cocoa Touch Use AV Foundation to display video and audio Build apps that let users create, edit, and work with documents

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 Interact with the outside world with Core Location and Core Motion Use blocks and operation queues for multiprocessing

*Learning IOS Development* - Maurice Sharp 2014

Features hands-on sample projects and exercises designed to help programmers create iOS applications.

**iOS 16 Programming for Beginners** - Ahmad Sahar 2022-11-18

Take your next step in iOS app development and work with Xcode 14 and iOS 16 Key Features Explore the latest features of Xcode 14 and the Swift 5.7 programming language in this updated seventh edition Start your iOS programming career and have fun building your own iOS apps Discover the new features of iOS 16 such as Mac Catalyst, SwiftUI, Lock Screen widgets and WeatherKit Book

Description With almost 2 million apps on the App Store, iOS mobile apps continue to be incredibly popular. Anyone can reach millions of customers around the world by publishing their apps on the App Store, which means that competent iOS developers are in high demand. iOS 16 Programming for Beginners is a comprehensive introduction for those who are new to iOS, covering the entire process of learning the Swift language, writing your own app, and publishing it on the App Store. This book follows a hands-on approach. With step-by-step tutorials to real-life examples and easy-to-understand explanations of complicated topics, each chapter will help you learn and practice the Swift language to build your apps and introduce exciting new technologies to incorporate into your apps. You'll learn how to publish iOS apps and work with new iOS 16 features such as Mac Catalyst, SwiftUI, Lock Screen widgets,

WeatherKit, and much more. By the end of this iOS development book, you'll have the knowledge and skills to write and publish interesting apps, and more importantly, to use the online resources available to enhance your app development journey. What you will learn Get to grips with the fundamentals of Xcode 14 and Swift 5.7, the building blocks of iOS development Understand how to prototype an app using storyboards Discover the Model-View-Controller design pattern and how to implement the desired functionality within an app Implement the latest iOS 16 features such as SwiftUI, Lock screen widgets, and WeatherKit Convert an existing iPad app into a Mac app with Mac Catalyst Design, deploy, and test your iOS applications with design patterns and best practices Who this book is for This book is for anyone who has programming experience but is new to Swift and iOS app development. Basic knowledge of programming,

including loops, data types, and so on, is necessary.

*Learning Swift* - Andrew J Wagner  
2016-03-23

Develop the skills required to create compelling, maintainable, and robust iOS and OS X apps with Swift About This Book Write expressive, understandable, and maintainable Swift 2 code with this hands-on tutorial Unveil the complex underpinnings of Swift to turn your app ideas into reality This book is packed with real-life examples to help you implement concepts as you learn Who This Book Is For If you are looking to build iOS or OS X apps using the most modern technology, this book is ideal for you. You will find this book especially useful if you are new to programming or if you are yet to develop for iOS or OS X. No prior programming exposure is required. What You Will Learn Form a solid understanding of the Swift 2 language Get to know the practical

aspects of how a computer program actually works Understand the paradigms used by Apple's frameworks so you are not intimidated by them Utilize the vast resources written in Objective-C to better inform your Swift programming Develop a basic portfolio of Swift code by learning the critical concepts Experience both object-oriented and functional programming Get to know the new coding techniques made available by Swift 2 Discover resources to ensure you never stop becoming a better developer In Detail Swift is Apple's new programming language and the future of iOS and OS X app development. It is a high-performance language that feels like a modern scripting language. On the surface, Swift is easy to jump into, but it has complex underpinnings that are critical to becoming proficient at turning an idea into reality. This book is an approachable, step-by-step introduction into programming with

Swift for everyone. It begins by giving you an overview of the key features through practical examples and progresses to more advanced topics that help differentiate the proficient developers from the mediocre ones. It covers important concepts such as Variables, Optionals, Closures, Generics, and Memory Management. Mixed in with those concepts, it also helps you learn the art of programming such as maintainability, useful design patterns, and resources to further your knowledge. This all culminates in writing a basic iOS app that will get you well on your way to turning your own app ideas into reality. Style and approach This is an approachable, step-by-step guide to programming in Swift 2. Each topic is separated into compressible sections that are full of practical examples and easy-to-understand explanations. Each section builds on the previous topics so you can develop a

proficient and comprehensive understanding of app development in Swift 2.

[iOS 15 Application Development for Beginners](#) - Arpit Kulsreshtha  
2021-12-31

Learn iOS App development with advanced Apple technology and developer-centric tools. KEY FEATURES

- Loaded with core developer tools, including SwiftUI, Xcode, and CoreML.
- Covers app architecture, design patterns, and mobile hardware use in app development.
- Numerous examples covering database, GPS, image recognition, and ML.

DESCRIPTION This book is a step-by-step, hands-on guide for Apple developers to build iOS apps using Swift programming with minimal effort. This book will help develop the knowledge and skills necessary to program Apple applications independently. This book introduces you to Swift, SwiftUI, MapKit, Xcode, and Core ML and guides you through the process of creating a

strong, marketable iOS application. The book begins with the fundamentals of Swift, which will serve as the foundation for future app development. This book will help readers to develop user interfaces for iOS applications, using SwiftUI and Interface Builder, as well as the code for views, view controllers, and data managers. The book teaches how to use Core Data and SQLite to store databases. It will help you work with Apple technologies and frameworks, including Core Location and MapKit for GPS tracking, Camera and Photo Library for image storage, Core ML for machine learning, and implementations of artificial intelligence solutions. By the end of this book, you will have developed a solid foundation for writing Swift apps, utilizing best practices in architecture, and publishing them to the app store. The book successfully introduces you to the entire iOS application development journey in a

manageable manner and instills an understanding of Apple apps. WHAT YOU WILL LEARN ● Develop practical skills in Swift programming, Xcode, and SwiftUI. ● Learn to work around the database, file handling, and networking while building apps. ● Utilize the capabilities of mobile hardware to include sound, images, and videos. ● Bring machine learning capabilities using the Core ML framework. ● Integrate features such as App Gestures and Core Location into iOS applications. ● Utilize mobile design patterns and maintain a clean coding style. WHO THIS BOOK IS FOR This book is ideal for beginners in programming, students, and professionals interested in learning how to program in iOS, use various developer tools, and create Apple apps. Working knowledge of any programming language is an advantage but not required. TABLE OF CONTENTS 1. Getting Started with Xcode 2. Swift Fundamentals 3. Classes,

Struct, and Enumerations 4. Protocols, Extensions, and Error Handling 5. TabBar, TableView, and CollectionView 6. User Interface Design with SwiftUI 7. Database with SQLite and Core Data 8. File Handling in iOS 9. App Gesture Recognizers in iOS 10. Core Location with MapKit 11. Camera And Photo Library 12. Machine Learning with Core ML 13. Networking in iOS Apps 14. Mobile App Patterns and Architectures 15. Publish iOS App on App Store

### **Foundation iPhone App Development -**

Nick Kuh 2012-12-30

Taking a hands-on learning approach, Foundation iPhone App Development: Build An iPhone App in 5 Days with iOS 6 SDK quickly enables existing programmers to become familiar and comfortable coding Objective-C using Xcode 4.5, Storyboarding and the iOS 6 SDK to create apps for the iPhone. Nick Kuh, an experienced, Apple award-winning developer, will teach readers how to build an iOS 6 iPhone

app from start to finish in 5 days. During a 5-day process you will learn how to build a professional, custom-designed, object-oriented iPhone App. You'll start with a PhotoShop PSD design and an app idea. Then, throughout the remainder of the book, Nick will guide you through each stage of building the app. But it's you who will build the app. You will learn how to think like an app developer, how to turn an idea into a beautiful iPhone app. In addition to the code and programming practices introduced, the book includes numerous tips, tricks and lessons learned to help new iPhone App developers succeed on the App Store: SEO, in-app marketing approaches and how to win more 5 star reviews. The 5-day learning process is divided into the following key stages: Day 1 begins with the initial planning, paper prototyping and Photoshop design phases of an app idea. You'll learn how to provision your iOS apps

for deployment to your iPhone. By the end of your first day you'll get to learn on the job, creating an Object-Oriented Black Jack Game that implements the Model View Controller paradigm in Objective C. Day 2 is all about Storyboarding: creating and connecting all of the user interface views of our app. Day 3 begins with table views and data population. By the end of the third day you'll be knee-deep in Core Data: building a data model and creating an editable, persistent data storage solution for your app. By Day 4 you'll be learning how to communicate with Facebook using Apple's new Social framework introduced in iOS 6. Day 5 kicks off with code and methods to add in-app social network marketing to your app. With your completed app you'll then learn how to submit an App to Apple alongside numerous tips and tricks to improve your chances of success and visibility in this unique marketplace. From start to finish,

this book inherits Nick's tried and tested methods to build beautiful native iPhone Apps efficiently. After reading and using this book, you'll come away with a core iOS development process and coding concepts that can be re-used and applied to your own iPhone app projects. Moreover, you'll gain an understanding of how to architect your own apps, write reusable code and implement best practices for faster productivity and maybe even make some money, too.

### **Learning iPhone Programming -**

Alasdair Allan 2010-03-09

Get the hands-on experience you need to program for the iPhone and iPod Touch. With this easy-to-follow guide, you'll build several sample applications by learning how to use Xcode tools, the Objective-C programming language, and the core frameworks. Before you know it, you'll not only have the skills to develop your own apps, you'll know how to sail through the process of

submitting apps to the iTunes App Store. Whether you're a developer new to Mac programming or an experienced Mac developer ready to tackle the iPhone and iPod Touch, Learning iPhone Programming will give you a head start on building market-ready iPhone apps. Start using Xcode right away, and learn how to work with Interface Builder Take advantage of model-view-controller (MVC)

architecture with Objective-C Build a data-entry interface, and learn how to parse and store the data you receive Solve typical problems while building a variety of challenging sample apps Understand the demands and details of App Store and ad hoc distribution Use iPhone's accelerometer, proximity sensor, GPS, digital compass, and camera Integrate your app with iPhone's preference pane, media playback, and more