

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

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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

Using iPhones, iPads, and iPods - Matthew Connolly 2014-10-28

Using iPhones and iPads: A Practical Guide for Librarians offers library professionals a clear path to Apple readiness. The authors combine their experience in library public services and mobile technology to provide easy-to-follow, step-by-step instructions to help you get up to speed.

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 11. Our video course, iOS Development with Swift in Motion, is the perfect companion to this book, featuring even more projects and examples for you to dig into in the exciting world of iOS development. Find out more at our website: www.manning.com/livevideo/ios-development-with-swift-lv Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology One billion iPhone users are waiting for the next amazing app. It's time for you to build it! Apple's Swift language makes iOS development easier than ever, offering modern language features, seamless integration with all iOS libraries, and the top-notch Xcode development environment. And with this book, you'll get started fast. About the Book iOS Development with Swift is a hands-on guide to creating iOS apps. It takes you through the experience of building an app—from idea to App Store. After setting up your dev environment, you'll learn the basics by experimenting in Swift playgrounds. Then you'll build a simple app layout, adding features like animations and UI widgets. Along the way, you'll retrieve, format, and display data; interact with the camera and other device features; and touch on cloud and networking basics. What's Inside Create adaptive layouts Store and manage data Learn to write and debug Swift code Publish to the App Store Covers Swift 4, Xcode 9, and iOS 11 About the Reader Written for intermediate web or mobile developers. No prior experience with Swift assumed. About the Author Craig Grummitt is a successful developer, instructor, and mentor. His iOS apps have had over 100,000 downloads combined! **Table of Contents** PART 1 - INTRODUCING XCODE AND SWIFT Your first iOS application Introduction to Swift playgrounds Swift objects PART 2 - BUILDING YOUR INTERFACE View controllers, views, and outlets User interaction Adaptive layout More adaptive layout Keyboard notifications, animation, and scrolling PART 3 - BUILDING YOUR APP Tables and navigation Collections, searching, sorting, and tab bars Local data persistence Data persistence in iCloud Graphics and media Networking Debugging and testing PART 4 - FINALIZING YOUR APP Distributing your app What's next?

Learning Swift - Paris Buttfield-Addison 2017-03-30

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 *Swift Programming in easy steps* - Darryl Bartlett 2019-05-07

Swift is very easy to learn and it's more readable than most programming languages. It allows you to build applications for iPhone, iPad, Apple Watch, Apple TV and Mac. Swift Programming in easy steps teaches you how to build iOS apps from scratch using Swift 4. Learn: · Xcode: the free software to write apps in Swift. · Swift Playgrounds: the experimenting environment that lets you write code and see results instantly. · Firebase: Google's mobile platform that lets you add functionality to your app. · SpriteKit: that gives you everything you'll need to build 2D games. · ARKit: that allows you to create Augmented Reality experiences for your app users. You don't need any prior programming knowledge. This book will walk you through the process of user interface design and coding, all the way to publishing your apps to the App Store! For anyone seeking to discover the easiest way to create apps for Apple devices. Covers iOS 12 and Swift 4 Table of Contents Introduction to iOS Development Swift Playgrounds User Interaction Camera & Photo Library Location & Table Views Firebase: Login & Database Game Development Advanced Swift Submitting your Apps

iOS 14 Programming Fundamentals with Swift - Matt Neuburg 2020-09-23

Move into iOS development by getting a firm grasp of its fundamentals, including the Xcode 12 IDE, Cocoa Touch, and the latest version of Apple's acclaimed programming language, Swift 5.3. With this thoroughly updated guide, you'll learn the Swift language, understand Apple's Xcode development tools, and discover the Cocoa framework. Become familiar with built-in Swift types Dive deep into Swift objects, protocols, and generics Tour the life cycle of an Xcode project Learn how nibs are loaded Understand Cocoa's event-driven design Communicate with C and Objective-C In this edition, catch up on the latest iOS programming features: Multiple trailing closures Code editor document tabs New Simulator features Resources in Swift packages Logging and testing improvements And more! Once you master the fundamentals, you'll be ready to tackle the details of iOS app development with author Matt Neuburg's companion guide, Programming iOS 14.

Swift Development with Cocoa - Jonathon Manning 2014-12-10

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

Swift in 24 Hours, Sams Teach Yourself - BJ Miller 2014-11-26

In just 24 lessons of one hour or less, Sams Teach Yourself Swift in 24 Hours helps you build next-generation OS X and iOS apps with Apple's new Swift programming language. This book's straightforward, step-by-step approach helps you quickly master Swift's core concepts, structure, and syntax and use Swift to write safe, powerful, modern code. In just a few hours you'll be applying advanced features such as extensions, closures, protocols, and generics. Every 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 Swift development tasks. Practical, hands-on examples show you how to apply what you learn. Quizzes and exercises help you test your knowledge and stretch your skills. Notes and tips point out shortcuts and solutions. Learn how to... Set up your Swift development environment Master Swift's fundamental data types and operators Make the most of arrays and dictionaries Control program flow, modify execution paths, and iterate code Perform complex actions with functions Work with higher-order functions and closures Harness the power of structs, enums, classes, and class inheritance Customize initializers of classes, structs, and enums Implement instance methods, type methods, and advanced type functionality Take full advantage of Swift's advanced memory allocation Extend type functionality with protocols and extensions Leverage the power of generics, chaining, and other advanced features Interoperate with Objective-C code Interact with user interfaces Take advantage of Swift's Standard Library features and functions Who Should Read this Book Beginner-intermediate level programmers Advanced programmers who are not yet familiar with Swift can benefit

Swift for Programmers - Paul J. Deitel 2015

'Swift for Programmers' is a programming-language focused book designed to get practicing programmers up-to-speed quickly in Swift programming. The Deitels provide thousands of lines of proven Swift code in the book, using a mix of code snippets and live-code examples. When they present code snippets rather than full-length complete programs, the snippet will be extracted from a Deitel-created, compiled, live-code example to ensure that the snippet is correct

iOS 15 Programming Fundamentals with Swift - Matt Neuburg 2021-10

Move into iOS development by getting a firm grasp of its fundamentals, including the Xcode 13 IDE, Cocoa Touch, and the latest version of Apple's acclaimed programming language, Swift 5.5. With this thoroughly updated guide, you'll learn the Swift language, understand Apple's Xcode development tools, and discover the Cocoa framework. Explore Swift's object-oriented concepts Become familiar with built-in Swift types Dive deep into Swift objects, protocols, and generics Tour the life cycle of an Xcode project Learn how nibs are loaded

Understand Cocoa's event-driven design Communicate with C and Objective-C In this edition, catch up on the latest iOS programming features: Structured concurrency: async/await, tasks, and actors Swift native formatters and attributed strings Lazy locals and throwing getters Enhanced collections with the Swift Algorithms and Collections packages Xcode tweaks: column breakpoints, package collections, and Info.plist build settings Improvements in Git integration, localization, unit testing, documentation, and distribution And more!

Mobile Application Penetration Testing - Vijay Kumar Velu 2016-03-11

Explore real-world threat scenarios, attacks on mobile applications, and ways to counter them About This Book Gain insights into the current threat landscape of mobile applications in particular Explore the different options that are available on mobile platforms and prevent circumventions made by attackers This is a step-by-step guide to setting up your own mobile penetration testing environment Who This Book Is For If you are a mobile application evangelist, mobile application developer, information security practitioner, penetration tester on infrastructure web applications, an application security professional, or someone who wants to learn mobile application security as a career, then this book is for you. This book will provide you with all the skills you need to get started with Android and iOS pen-testing. What You Will Learn Gain an in-depth understanding of Android and iOS architecture and the latest changes Discover how to work with different tool suites to assess any application Develop different strategies and techniques to connect to a mobile device Create a foundation for mobile application security principles Grasp techniques to attack different components of an Android device and the different functionalities of an iOS device Get to know secure development strategies for both iOS and Android applications Gain an understanding of threat modeling mobile applications Get an in-depth understanding of both Android and iOS implementation vulnerabilities and how to provide counter-measures while developing a mobile app In Detail Mobile security has come a long way over the last few years. It has transitioned from "should it be done?" to "it must be done!" Alongside the growing number of devices and applications, there is also a growth in the volume of Personally identifiable information (PII), Financial Data, and much more. This data needs to be secured. This is why Pen-testing is so important to modern application developers. You need to know how to secure user data, and find vulnerabilities and loopholes in your application that might lead to security breaches. This book gives you the necessary skills to security test your mobile applications as a beginner, developer, or security practitioner. You'll start by discovering the internal components of an Android and an iOS application. Moving ahead, you'll understand the inter-process working of these applications. Then you'll set up a test environment for this application using various tools to identify the loopholes and vulnerabilities in the structure of the applications. Finally, after collecting all information about these security loop holes, we'll start securing our applications from these threats. Style and approach This is an easy-to-follow guide full of hands-on examples of real-world attack simulations. Each topic is explained in context with respect to testing, and for the more inquisitive, there are more details on the concepts and techniques used for different platforms.

iOS 8 App Development I and II - Paul Deitel 2015

Overview The professional programmer's Deitel® video guide to iPhone® and iPad® app development using iOS® 8, Swift™, Xcode® 6, and Cocoa Touch®. Description Billions of apps have been downloaded from Apple's App Store! This LiveLesson gives you everything you'll need to start developing great iOS 8 apps quickly using Swift

Apple's programming language of the future. The video uses an app-driven approach each new technology is discussed in the context of seven fully tested iOS 8 apps (three apps in Part I and four apps in Part II). This LiveLesson has two parts: • iOS 8 App Development Fundamentals with Swift LiveLessons Part I • iOS 8 App Development Fundamentals with Swift LiveLessons Part II About the Instructor Paul J. Deitel , CEO and Chief Technical Officer of Deitel & Associates, Inc., is a graduate of MIT, where he studied Information Technology. He holds the Sun (now Oracle) Certified Java Programmer and Certified Java Developer certifications, and is an Oracle Java Champion. Through Deitel & Associates, Inc., he has delivered Java, C#, Visual Basic, C++, C and Internet programming courses to industry clients, including Cisco, IBM, Sun Micro systems, Dell, Siemens, Lucent Technologies, Fidelity, NASA at the Kennedy Space Center, the National Severe Storm Laboratory, White Sands Missile Range, Rogue Wave Software, Boeing, SunGard Higher Education, Stratus, Cambridge Technology Partners, One Wave, Hyperion Software, Adra Systems, Entergy, CableData Systems, Nortel Networks, Puma, iRobot, Invensys and many more. He and his co-author, Dr. Harvey M. Deitel, are the world's best-selling programming-language textbook/professional book authors. Skill Level Beginner-to-intermediate app developers who are familiar with a C-based object-oriented programming language What You'll Learn Begin by setting up your Mac for iOS app development with the Swift programming language. Next, you'll get an overview of the Xcode IDE as you test-drive the Tip Calculator app (which you'll build in Lesson 3). In Lesson 2, without writing any code, you'll build a universal app using Xcode's Interface Builder and drag-and-drop UI design; then you'll make the app accessible for people with visual impairments and localize it to display text in English or Spanish. In Lesson 3 you'll build the interactive Tip Calculator app, using Apple's new Swift programming language to write the code that responds to user interactions and programmatically updates the user interface (U...

Learning iOS Development - Maurice Sharp 2014

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

iOS 13 Programming Fundamentals with Swift - Matt Neuburg 2019-10-03

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.

Swift Development with Cocoa - Jonathon Manning 2014-12-10

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

More iPhone Development with Swift - Alex Horovitz
2015-03-21

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.

iOS 11 Swift Programming Cookbook - Vandad Nahavandipoor
2017-12-06

iOS 11, Swift 4, and Xcode 9 provide many new APIs for iOS developers. With this cookbook, you'll learn more than 170 proven solutions for tackling the latest features in iOS 11 and watchOS 4, including new ways to use Swift and Xcode to make your day-to-day app development life easier. This collection of code-rich recipes also gets you up to speed on continuous delivery and continuous integration systems. Ideal for intermediate and advanced iOS developers looking to work with the newest version of iOS, these recipes include reusable code on GitHub, so you can put them to work in your project right away. Among the topics covered in this book: New features in Swift 4 and Xcode 9 Tools for continuous delivery and continuous integration Snapshot testing and test automation Creating document-based applications Updated Map view and Core Location features iOS 11's Security and Password Autofill Data storage with Apple's Core Data Creating lively user interfaces with UI Dynamics Building iMessage applications and sticker packages Integrating Siri into your apps with Siri Kit Creating fascinating apps for Apple Watch

Learn Swift by Building Applications - Emil Atanasov
2018-05-25

Start building your very own mobile apps with this comprehensive introduction to Swift and object-oriented programming Key Features A complete beginner's guide to Swift programming language Understand core Swift programming concepts and techniques for creating popular iOS apps Start your journey toward building mobile app development with this practical guide Book Description Swift Language is now more powerful than ever; it has introduced new ways to solve old problems and has gone on to become one of the fastest growing popular languages. It is now a de-facto choice for iOS developers and it powers most of the newly released and popular apps. This practical guide will help you to begin your journey with Swift programming through learning how to build iOS apps. You will learn all about basic variables, if clauses, functions, loops, and other core concepts; then structures, classes, and inheritance will be discussed. Next, you'll dive into developing a

weather app that consumes data from the internet and presents information to the user. The final project is more complex, involving creating an Instagram like app that integrates different external libraries. The app also uses CocoaPods as its package dependency manager, to give you a cutting-edge tool to add to your skillset. By the end of the book, you will have learned how to model real-world apps in Swift. What you will learn Become a pro at iOS development by creating simple-to-complex iOS mobile applications Master Playgrounds, a unique and intuitive approach to teaching Xcode Tackle the basics, including variables, if clauses, functions, loops and structures, classes, and inheritance Model real-world objects in Swift and have an in-depth understanding of the data structures used, along with OOP concepts and protocols Use CocoaPods, an open source Swift package manager to ease your everyday developer requirements Develop a wide range of apps, from a simple weather app to an Instagram-like social app Get ahead in the industry by learning how to use third-party libraries efficiently in your apps Who this book is for This book is for beginners who are new to Swift or may have some preliminary knowledge of Objective-C. If you are interested in learning and mastering Swift in Apple's ecosystem, namely mobile development, then this book is for you.

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 Cocoa with Objective-C - Apple Computer Inc
2002-09-20

Learning Cocoa with Objective-C is the "must-have" book for people who want to develop applications for Mac OS X, and is the only book approved and reviewed by Apple engineers. Based on the Jaguar release of Mac OS X 10.2, this edition of *Learning Cocoa* includes examples that use the Address Book and Universal Access APIs. Also included is a handy quick reference card, charting Cocoa's Foundation and AppKit frameworks, along with an Appendix that includes a listing of resources essential to any Cocoa developer--beginning or advanced. Completely revised and updated, this 2nd edition begins with some simple examples to familiarize you with the basic elements of Cocoa programming as well Apple's Developer Tools, including Project Builder and Interface Builder. After introducing you to Project Builder and Interface Builder, it brings you quickly up to speed on the concepts of object-oriented programming with Objective-C, the language of choice for building Cocoa applications. From there, 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 you will learn 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 Add scripting functionality to your applications Localize your application for multiple language support Polish off your application by adding an icon for use in the Dock, provide Help, and package your program for distribution Each chapter ends with a series of Examples, challenging you to test your newly-learned skills by tweaking the application you've just built, or to go back to an earlier example and add to it some new functionality. Solutions are provided in the Appendix, but you're encouraged to learn by trying. Extensive programming experience is not required to complete the examples in the book, though experience with the C programming language will be helpful. If you are familiar with an object-oriented programming language such as Java or Smalltalk, you will rapidly come up to speed with the Objective-C language. Otherwise, basic object-oriented and language concepts are covered where needed.

iOS 12 Programming Fundamentals with Swift - Matt Neuburg 2018-09-26

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 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*.

Beginning iPhone Development with Swift - Kim Topley 2014-11-22

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!

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

Swift for Beginners - Boisy G. Pitre 2015

NOTE: This edition is now out of date, and does not conform with the current version of Swift. Please check out the newer edition instead, which is ISBN 9780134289779. LEARNING A NEW PROGRAMMING LANGUAGE can be daunting. With Swift, Apple has lowered the barrier of entry for developing iOS and OS X apps by giving developers an innovative new programming language for Cocoa and Cocoa Touch. If you are new to Swift, this book is for you. If you have never used C, C++, or Objective-C, this book is definitely for you. With this 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 Real-world guidance and advice Best practices from an experienced Mac and iOS developer Emphasis on how to use Xcode, Playgrounds, and the REPL COMPANION WEBSITE: www.peachpit.com/swiftbeginners includes additional resources.

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

Beginning iPhone Development with Swift 2 - David Mark 2015-12-16

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 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:

Swift For Dummies - Jesse Feiler 2015-02-24

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.

Cocoa Programming for OS X - Aaron Hillegass 2015-04-16

Covering the bulk of what you need to know to develop full-featured applications for OS X, this edition is updated for OS X Yosemite (10.10), Xcode 6, and Swift. Written in an engaging tutorial style and class-tested for clarity and accuracy, it is an invaluable resource for any Mac programmer. The authors introduce the two most commonly used Mac developer tools: Xcode and Instruments. They also cover the Swift language, basic application architecture, and the major design patterns

of Cocoa. Examples are illustrated with exemplary code, written in the idioms of the Cocoa community, to show you how Mac programs should be written. After reading this book, you will know enough to understand and utilize Apple's online documentation for your own unique needs. And you will know enough to write your own stylish code. This edition was written for Xcode 6.3 and Swift 1.2. At WWDC 2015, Apple announced Xcode 7 and Swift 2, both of which introduce significant updates that (along with some changes to Cocoa for OS X 10.11) affect some of the exercises in this book. We have prepared a companion guide listing the changes needed to use Xcode 7 to work through the exercises in the book; it is available at <https://github.com/bignerdranch/cocoa-programming-for-os-x-5e/blob/master/Swift2.md>.

iOS Apps for Masterminds, 2nd Edition - J.D Gauchat 2016-03-10

Get ahead of everyone else and learn the latest technologies introduced by Apple. This is the first book to teach you how to work with Swift 3, Xcode 8, iOS 10 and the new APIs. iOS Apps for Masterminds leads the reader step by step to master the complex subjects required to create applications for iPhones and iPads. After reading this book, you will know how to program in Swift, how to design user interfaces, and how to work with the most powerful frameworks available for the construction of modern applications. This book is a complete course that will teach you how to build insanely great applications from scratch. Every chapter explores both basic and complicated concepts of computer programming, the Swift language, and app development. The information is supported by fully functional examples to guide beginners and experts through every single framework included in the iOS SDK. The examples are distributed throughout the book in a specific order to gradually introduce complex topics and make them accessible to everyone. The goal of iOS Apps for Masterminds is to make you familiar with the most advanced technologies for app development. It was designed to prepare you for the future and was written for the genius inside you, for Masterminds. This book includes: Introduction to Swift 3 Swift Paradigm Foundation Framework UIKit Framework Auto Layout Size Classes Navigation Controllers Scroll Views Table Views Collection Views Split View Controller Alert Views Notifications Files Archiving Core Data iCloud Core Graphics and Quartz 2D Core Animation AVFoundation Camera and Photo Library Web Views Contacts Sensors MapKit Gesture Recognizers Timers Operation Queues Error Handling Image and Video Internationalization ...and more! iOS app development with iOS 10, Xcode 8 and Swift 3 App development, Swift programming, Create apps, Create app, iPhone apps, Build app, Swift language, develop application, Objective-C, Apple development, iOS development, iOS Apps, Program apps.

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.

Xcode 6 Start to Finish - Fritz Anderson 2015-05-08
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.

Swift For Dummies - Jesse Feiler 2015-02-24
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.

Learn iOS 8 App Development - James Bucanek 2014-12-09
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!

iOS Apps for Masterminds 4th Edition - J.D Gauchat 2018-08-15
Learn how to create apps for iOS 12 before anyone else. This is the first book to teach you how to work with Swift 4.2, Xcode 10, iOS 12 and the new APIs introduced by Apple iOS Apps for Masterminds leads the reader step by step to master the complex subjects required to create applications for iPhones and iPads. After reading this book, you will know how to program in Swift, how to design user interfaces, and how to work with the most powerful frameworks available for the construction of modern applications. This book is a complete course that will teach you how to build insanely great applications from scratch. Every chapter explores both basic and complicated concepts of computer programming, the Swift language, and app development. The information is supported by functional examples that guide beginners and experts through the most fundamental frameworks included in the iOS SDK. The examples are distributed throughout the book in a specific order to gradually introduce complex topics and make them accessible to everyone. The goal of iOS Apps for Masterminds is to make you familiar with the most advanced technologies for app development. It was designed to prepare you for

the future and was written for the genius inside you, for Masterminds. This book includes: Introduction to Swift 4.2 Swift Paradigm Foundation Framework UIKit Framework Auto Layout Size Classes Navigation Controllers Scroll Views Stack Views Table Views Collection Views Split View Controller Alert Views Notifications Files Archiving Core Data iCloud CloudKit Core Graphics and Quartz 2D Core Animation AVFoundation Camera and Photos Library Web Kit Views Gesture Recognizers Timers Operation Queues Error Handling Image and Video Internationalization ...and more! iOS app development with iOS 12, Xcode 10 and Swift 4.2 App development, Swift programming, Create apps, Create app, iPhone apps, Build app, Swift language, develop application, Objective-C, Apple development, iOS development, iOS Apps, Program apps.

SwiftUI Apprentice (First Edition) - Audrey Tam Tam
2021-05-26

Learn iOS Development Using SwiftUIYou've heard about Apple's hot new declarative user interface SDK - SwiftUI - and are ready to try your hand at iOS development. But, you have no idea where to begin.SwiftUI Apprentice to the rescue! This book will guide you through the first steps of your journey as you learn to build beautiful iOS apps.Who This Book is ForThis book for developers who are new to iOS and SwiftUI who are looking for a step-by-step path to learning.Topics Covered in SwiftUI ApprenticeUsing Xcode: Learn how to use Xcode - Apple's integrated development environment - to code, build and debug your iOS apps.Planning and Prototyping: Learn how to plan and prototype apps using SwiftUI. Once you're happy with the prototype, you'll fill out the implementation into a full-featured app with a beautiful, professionally-designed user interface.Managing Assets: Discover how to manage app assets, such as colors and images, so your app looks good on all iOS devices from the smallest iPod Touch to the largest iPad.SwiftUI Data Flow: See how to manage data within a SwiftUI app so the user interface updates automatically as that data changes.Data Persistence: Explore multiple strategies for persisting an app's data. Understand the pros and cons of several approaches so you can decide the best solution for your own apps.Networking: Learn to access REST APIs so your app can use internet resources to enhance your app's user experience.One thing you can count on: After reading this book, you'll be prepared to create your own iOS apps using SwiftUI.

Swift Programming - Matthew Mathias 2015-12-15

Through the authors' carefully constructed explanations and examples, you will develop an understanding of Swift grammar and the elements of effective Swift style. Written for Swift 2.0, the book is also compatible with Swift 2.1. You will also learn how to navigate Xcode 7 and get the most out of Apple's documentation. Throughout the book, the authors share their insights into Swift to ensure that you understand the hows and whys of Swift and can put that understanding to use in different contexts. After working through this book, you will have the knowledge and confidence to develop your own solutions to a wide range of programming challenges using Swift.

Sams Teach Yourself Swift in 24 Hours - B. J. Miller
2014-11-26

Offers twenty-four lessons teaching how to build next-generation OS X and iOS apps using Apple's new programming language, with step-by-step instructions for such common tasks as using operators, iterating code with loops, and introducing generics.

Objective-C Programming - Aaron Hillegass 2011

Looks at the basics of Objective-C programming for Apple technologies, covering such topics as Xcode, classes, properties, categories, loops, and ARC.

Apple Watch App Development - Steven F. Daniel
2016-04-29

Build real-world applications for the Apple Watch platform using the WatchKit framework and Swift 2.0 About This Book Find out how to download and install the Xcode development tools before learning about Xcode playgrounds and the Swift programming language Discover everything you need to know about the WatchKit platform architecture, its classes, as well its limitations This book introduces you to the very latest mobile platform with hands-on instructions so you can build your very own Apple Watch apps Who This Book Is For This book is for developers who are interested in creating amazing apps for the Apple Watch platform. Readers are expected to have no prior experience of programming. What You Will Learn Navigate within the WatchKit interface using the page-based, modal, and hierarchical navigation techniques Work with context menus to allow your users to interact with the Apple Watch and respond to their actions to perform a task Use the MapKit framework to display a map within the WatchKit interface to track the user's current location Build effective user interfaces for the WatchKit platform and integrate iCloud capabilities to synchronize data between the iOS app and the WatchKit UI Design your apps for the Apple Watch platform by adhering to the set of User Interface design guidelines set out by Apple Reinforce image caching to display animations within the Apple Watch user interface Explore WatchKit tables, which allow your users to purchase groceries and pay for them using Apple Pay Analyze the new layout system to ensure that your Apple Watch apps work with various screen sizes In Detail Wearable are the next wave of mobile technology and with the release of Apple's WatchKit SDK, a whole new world of exciting development possibilities has opened up. Apple Watch App Development introduces you to the architecture and possibilities of the Apple Watch platform, as well as an in-depth look at how to work with Xcode playgrounds. Benefit from a rapid introduction to the Swift programming language so you can quickly begin developing apps with the WatchKit framework and the Xcode Development IDE. Get to grips with advanced topics such as notifications, glances, iCloud, Apple pay, closures, tuples, protocols, delegates, concurrency, and using Swift Playgrounds, with each concept is backed up with example code that demonstrates how to properly execute it. Finally, discover how to package and deploy your Watch application to the Apple AppStore. By the end of this book, you will have a good understanding of how to develop apps for the Apple Watch platform, and synchronize data using iCloud between the wearable and the iOS device. Style and approach This book takes a step-by-step approach to developing applications for the Apple Watch using the Swift programming language and the WatchKit UI. Each topic is explained in a conversational and easy-to-follow style.

Learning Cocoa - Paris Buttfield-Addison 2014

"Learn how to use Cocoa with Objective-C to develop 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 networking with Bluetooth this video course covers all of the essentials you need to build apps for the iPhone, iPad, and Mac."--Resource description page.