

Document Outline Xcode

Covers iOS 9.1 and up, Xcode 7.x, iPhone, iPad, and More! In just 24 sessions of one hour each, learn how to build powerful applications for today's hottest handheld devices: the iPhone and iPad! Using this book's straightforward, step-by-step approach, you'll master every skill and technology you need, from setting up your iOS development environment to building great user interfaces, sensing motion to writing multitasking applications. Each lesson builds on what you've already learned, giving you a rock-solid foundation for real-world success! Step-by-step instructions carefully walk you through the most common iOS development tasks. Quizzes and Exercises help you test your knowledge. Notes present interesting information related to the discussion. Tips show you easier ways to perform tasks. Cautions alert you to possible problems and give you advice on how to avoid them. Printed in full color—figures and code appear as they do in Xcode 7.x

- Learn to navigate the Xcode 7.x development environment and install apps on your iDevice
- Get started quickly with Apple's Open Source language: Swift 2.0
- Test code and application logic using the iOS Playground
- Understand the Model-View-Controller (MVC) development pattern
- Visually design and code interfaces using Xcode Storyboards, Segues, Exits, Image Slicing, and the iOS Object Library
- Use Auto Layout and Size Classes to adapt to different screen sizes and orientations
- Build advanced UIs with Tables, Split Views, Navigation Controllers, and more
- Read and write preferences and data, and create System Settings plug-ins
- Use iOS media playback and recording capabilities
- Take photos and manipulate graphics with Core Image
- Sense motion, orientation, and location with the accelerometer, gyroscope, and GPS
- Use 3D touch to add Peek, Pop, and Quick Actions to your apps
- Integrate online services using Twitter, Facebook, Email, Web Views, and Apple Maps
- Create universal applications that run on both the iPhone and iPad
- Write background-aware multitasking applications
- Trace, debug, and monitor applications as they run

Additional files and updates available online

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.

A guide to Apple's Xcode 5, covering such topics as creating iOS projects with MVC design; designing Core Data schemas for iOS apps; linking data models to views; and creating libraries by adding and building new targets.

Updated for Xcode 11, Swift 5, and iOS 13, iOS Programming: The Big Nerd Ranch Guide leads you through the essential concepts, tools, and techniques for developing iOS applications. After completing this book, you will have the know-how and the confidence you need to tackle iOS projects of your own. Based on Big Nerd Ranch's popular iOS training and its well-tested materials and methodology, this bestselling guide teaches iOS concepts and coding in tandem. The result is instruction that is relevant and useful. Throughout the book, the authors explain what's important and share their insights into the larger context of the iOS platform. You get a real understanding of how iOS development works, the many features that are available, and when and where to apply what you've learned.

Learn how to code for the iMac, Mac mini, Mac Pro, and MacBook using Swift, Apple's hottest programming language. Fully updated to cover the new MacBook Touch Bar, macOS Programming for Absolute Beginners will not only teach complete programming novices how to write macOS programs, but it can also

help experienced programmers moving to the Mac for the first time. You will learn the principles of programming, how to use Swift and Xcode, and how to combine your knowledge into writing macOS programs. If you've always wanted to learn coding but felt stymied by the limitation of simplistic programming languages or intimidated by professional but complicated programming languages, then you'll want to learn Swift. Swift is your gateway to both Mac and iOS app development while being powerful and easy to learn at the same time, and macOS

Programming for Absolute Beginners is the perfect place to start - add it to your library today. What You'll Learn/div Master the basic principles of object-oriented programming Use Xcode, the main programming tool used for both macOS and iOS development See what makes Swift unique and powerful as a programming language and why you should learn it Create macOS programs using Swift and Xcode Apply interface principles that follow Apple's Human Interface Guidelines Take advantage of the new Touch Bar Who This Book Is For People who want to learn programming for the first time and for experienced programmers wanting to learn Xcode and the Mac for the first time.

A practical introduction for using iOS 6 to create universal apps If you have prior experience programming in an object-oriented language and are eager to start building universal apps for iPad and iPhone (including the iPod touch), then this is the book for you! Using the latest version of iOS (iOS 6) along with the latest version of Xcode (Xcode 4.5), this book is a practical introduction rather than just a catalog of components. Full-color and packed with groundbreaking, innovative designs, this book teaches you how to create eye-catching, unique apps. Teaches you the various aspects of iOS development, beginning with getting started with iOS 6, getting Up to Speed with Xcode, and learning the tools and Objective-C Reviews building the user interface with Xcode and Interface Builder Details how to set up your app in iTunes connect and distribute it through the app store Walks you through adding features like geo-location and twitter sharing Helps you avoid common pitfalls and design decisions related to user experience and iOS programming iOS 6 Foundations is organized so that each chapter builds on the previous, providing you with a finished app by the end of the book.

Create incredible apps for the iPhone and iPad using the latest features of iOS 6 You could be the one who creates the next super app - one that is universal, works for both the iPhone and iPad, and is a top seller. It's a great goal, and the road starts here, with this energizing guide. Whether you're a budding programming hobbyist or a serious developer looking to hit it big, the information in this book is what you need. Learn how to join Apple's developer program, understand key differences between iPad and iPhone apps, download the latest SDK, create great user experiences, and build your very own app from the ground up. You'll gain the valuable hands-on experience you need to take your development skills to the next level by walking through the development process step-by-step and creating two applications. Shows programming hobbyists and

programming pros how to develop a universal app for the iPhone and iPad in iOS 6 Explains the process of creating interfaces for each target device and how to merge your designs to create a killer universal app Walks you through the development of two applications, side by side Covers nib files, views, view controllers, interface objects, gesture recognizers, and much more iOS 6 Application Development For Dummies is your guide to bringing all your app ambitions to life!

With more than 600 million iOS devices sold, Apple's booming mobile platform provides a immense and continuously growing app market for developers. And with each update to the iOS SDK, Apple offers the richest set of additional developer tools. iOS 7.0 is no exception. iOS programming expert Richard Warren shows you how to use these powerful tools to begin writing the next generation of iOS apps. You will hone your development skills by creating a complete, full-featured mobile application. You'll learn to build an intuitive and beautiful user interface, beginning with linking View Controllers in the Storyboard and then adding custom drawn views. Next, you will learn how to use iCloud storage and Core Data to manage an app's data model, synchronizing data across multiple devices. Then you will learn ways to make your app stand out, using more advanced iOS techniques like UIKit Dynamics and UIMotionEffects. Finally, Richard shows you how to prepare your app for submission to the App Store, getting it in front of iOS users around the world. This book includes: Real-world guidance and advice Insight into the current best practices from an iOS programming expert An essential introduction to the Objective-C language and Cocoa design patterns Coverage of key iOS 7.0 technologies, including the asset catalog, dynamic fonts, UIKit Dynamics, UIMotionEffects, Sprite Kit, and more. Beginning iOS Cloud and Database Development gets you started with building apps that use Apple's iCloud. You'll learn the techniques which will enable you to devise and create iOS apps that can interact with iCloud servers. From the basics up, you'll progressively learn how to configure your app for iCloud, upload and download files, implement revisions, add conflict resolution policies, and work with custom documents. There's more! You'll learn how to integrate iCloud with Core Data based applications. Besides technical advice, you'll find suggestions and best practices to design the interaction of iCloud-driven applications. According to many industry sources, analysts, and shows, Apple will rely more and more on iCloud or web apps in the cloud to store and stream data-intensive media and other kinds of apps. As the majority of apps use some sort of data—and that only will grow as apps become more complex with rich and streaming media—this book shows developers how to create apps for iCloud, Apple's new cloud computing storage and data service. Beginning Xcode, Swift Edition will not only get you up and running with Apple's latest version of Xcode, but it also shows you how to use Swift in Xcode and includes a variety of projects to build. If you already have some programming experience with iOS SDK and Objective-C, but want a more in-depth tutorial on Xcode, especially Xcode with Apple's new programming language, Swift, then Beginning Xcode, Swift Edition is for you. The book focuses on the new technologies, tools and features that Apple has bundled into the new Xcode 6, to complement the latest iOS 8 SDK. By the end of this book, you'll have all of the skills and a variety of examples to draft from to get your Swift app from idea to App Store with all the power of Xcode.

Covers iOS 6, Xcode 4.5+, iPhone, iPad, and More! Figures and code appear as they do in Xcode 4.5+ In just 24 sessions of one hour each, learn how to build powerful applications for today's hottest handheld devices: the iPhone and iPad! Using this book's straightforward, step-by-step approach, you'll master every skill and technology you need, from setting up your iOS development environment to building great responsive user interfaces, from sensing motion to writing multitasking applications. Each lesson builds on what you've already learned, giving you a rock-solid foundation for real-world success! Step-by-step instructions carefully walk you through the most common iOS development tasks. Activities at the end of each chapter help you test your knowledge. Notes present interesting information related to the discussion. Tips offer advice or show you easier ways to perform tasks. Cautions alert you to possible problems and give you advice on how to avoid them. • Printed in full color • Covers iOS 6.0 and up • Use the new Objective-C NSArray, NSDictionary, and NSNumber Data Type shortcuts introduced in Xcode 4.5.2 • Learn to navigate the Xcode 4.5+ development environment • Prepare your system and iDevice for efficient development • Get started quickly with Apple's Objective-C and Cocoa Touch • Understand the Model-View-Controller (MVC) development paradigm • Visually design and code interfaces using Xcode storyboards, segues, exits, and the iOS Object Library • Use Auto Layout to adapt to different screen sizes and orientations • Build advanced UIs with tables, split views, navigation controllers, and more • Read and write preferences and data, and create System Settings plug-ins • Use the iOS media playback and recording capabilities • Take photos and manipulate graphics with Core Image • Sense motion, orientation, and location with the accelerometer, gyroscope, and GPS • Integrate online services using Twitter, Facebook, Email, Web Views, and Apple Maps • Create universal applications that run on both the iPhone and iPad • Write background-aware multitasking applications • Trace and debug your applications as they run

Explore how to use ARKit to create iOS apps and learn the basics of augmented reality while diving into ARKit specific topics. This book reveals how augmented reality allows you to view the screen on an iOS device, aim the camera at a nearby scene, and view both the real items in that scene as well as a graphic image overlaid on to that scene. You'll start by accessing the camera and teaching your app to track the world around its device. You'll then see how to position nodes and create augmented reality shapes and textures. Next you'll have your creations interact with their environment by programming workable physics, detecting planes, measuring distance, and applying virtual force. Finally you'll learn how to hit test and troubleshoot your applications to ensure they interact with the real world around them seamlessly. ARKit is Apple's software framework for creating augmented reality apps on iOS devices such as the iPhone and iPad. Unlike virtual reality that creates an entirely artificial world for the user to view and explore, Beginning ARKit for iPhone and iPad will show you how augmented reality places artificial items in an actual scene displayed by an iOS device's camera. What You'll Learn Access the camera Use ARKit's hit testing for tracked geometry Apply and combine real world and virtual physics Who This Book Is For Programmers familiar with the basics of Swift programming who want to dive into developing iOS applications with Swift.

In Xcode 4 Unleashed, renowned Mac/iOS developer Fritz Anderson shows how to use Apple's powerful new Xcode 4 integrated development environment to develop outstanding software with the least effort possible. Anderson demonstrates Xcode 4 by walking through the construction of three full applications: a command-line tool, an iOS app, and a Mac OS X application. These case-study projects offer practical insights and realistic best practices for efficiently utilizing Xcode 4 in day-to-day development. Next, he drills down to offer an even deeper understanding of Xcode 4's most powerful capabilities. Through practical examples, he shows experienced Apple developers how to move to Xcode 4's "browser" model from older document-based approaches. You'll also find thorough, up-to-the-minute coverage of key

tasks ranging from builds and profiling to documentation. He concludes with a chapter-length roundup of “tips, traps, and features” for maximizing your productivity with Xcode 4—whether you’re writing iOS apps or Mac applications, working solo, or as part of a large development team. Detailed information on how to... Get started fast with Xcode 4 project workflow Master Xcode 4’s new features and development paradigms Construct modern iOS and Mac user interfaces with Interface Builder Implement Model-View-Controller designs in iOS apps Use Storyboard to specify an iOS app’s entire structure in one file Leverage Xcode’s first-class unit testing and measurement tools Master the essentials of iOS provisioning Use Mac OS X bindings to simplify the link between data and screen Quickly localize Mac and iOS software for new languages and markets Package and share subprograms that can be integrated into any OS X application Use the Xcode Build System to move from source files to executable products Fully understand and optimize performance and resource usage Register your copy today at informit.com/register to download a free 90+ page guide to 4.4 & 4.5 feature changes 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.

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?

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

"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.

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.

Figures and code appear as they do in Xcode 5.x Covers iOS 7, Xcode 5.x, iPhone, iPad, and More! Additional files and updates available online In just 24 sessions of one hour each, learn how to build powerful applications for today's hottest handheld devices: the iPhone and iPad! Using this book's straightforward, step-by-step approach, you'll master every skill and technology you need, from setting up your iOS development environment to building great user interfaces, sensing motion to writing multitasking applications. Each lesson builds on what you've already learned, giving you a rock-solid foundation for real-world success! Step-by-step instructions carefully walk you through the most common iOS development tasks. Quizzes and Exercises at the end of each chapter help you test your knowledge. By the Way notes present interesting information related to the discussion. Did You Know? tips offer advice or show you easier ways to perform tasks. Watch Out! cautions alert you to possible problems and give you advice on how to avoid them. Printed in full color—figures and code appear as they do in Xcode

Covers iOS 7 and up Learn to navigate the Xcode 5.x development environment Prepare your system and iDevice for efficient development Get started quickly with Apple's Objective-C and Cocoa Touch Understand the Model-View-Controller (MVC) development pattern Visually design and code interfaces using Xcode Storyboards, Segues, Exits, Image Slicing, and the iOS Object Library Use Auto Layout to adapt to different screen sizes, orientations, and iOS versions Build advanced UIs with Tables, Split Views, Navigation Controllers, and more Read and write preferences and data, and create System Settings plug-ins Use the iOS media playback and recording capabilities Take photos and manipulate graphics with Core Image Sense motion, orientation, and location with the accelerometer, gyroscope, and GPS Integrate online services using Twitter, Facebook, Email, Web Views, and Apple Maps Create universal applications that run on both the iPhone and iPad Write background-aware multitasking applications using the latest iOS 7 techniques Trace, debug, and monitor your applications as they run

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

Auto Layout re-imagines the way developers create user interfaces. It provides a flexible and powerful system that describes how views and their content relate to each other and to the windows and superviews they occupy. In contrast to older design approaches, this technology offers incredible control over layout with a wider range of customization than frames, springs, and struts can express. In this guide, Erica Sadun, bestselling author of The Core iOS 6 Developer's Cookbook and The Advanced iOS 6 Developer's Cookbook, helps readers learn how to use Auto Layout effectively, even masterfully, by providing an abundance of examples alongside plenty of explanations and tips. Instead of struggling with class documentation, you learn in simple steps how the system works and why it's far more powerful than you first imagined. You read about common design scenarios and discover best practices that make

Auto Layout a pleasure rather than a chore to use. Sadun includes examples of non-obvious ways to use Auto Layout to build interactive elements, animations, and other features beyond what you might normally lay out in Interface Builder to help expand the reader's design possibilities. With this book you will learn The basic concepts that form the foundation of Auto Layout How to create clear and satisfiable rules of your layout, called constraints How to work effectively with the Interface Builder Layout What visual constraints look like, how to work with them, and how they are used in your projects How to debug constraints How to design interfaces when working with Auto Layout Effective solutions to the most common real-world problems and challenges Approximately 238 pages. For related content by author Erica Sadun, see The Core iOS 6 Developer's Cookbook, and The Advanced iOS 6 Developer's Cookbook.

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

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!

Get up and running with Apple's latest version of Xcode, and see how to use Swift in Xcode to build a variety of projects. If you already have some programming experience with iOS SDK and Objective-C, but want a more in-depth tutorial on Xcode, especially Xcode with Apple's new programming language, Swift, then Beginning Xcode: Swift Edition is for you. The book focuses on the new technologies, tools and features that Apple has bundled into the new Xcode 8, to complement the latest iOS 10. By the end of this book, you'll have all of the skills and a variety of examples to draft from to get your Swift app from idea to App Store with all the power of Xcode. What You'll learn Use Swift and new Swift-related features in Xcode Get started with Xcode, using Workspaces, Interface Builder, storyboarding, tables/collection views and more Take advantage of Xcode's vast libraries, frameworks and bundles Create exciting

interactive apps for iPhone or iPad using Sprite Kit, Map Kit, and other Apple technologies. Share your app using organizer, localization, auto layout, and more. Who this book is for: Those with some Objective-C/Cocoa and/or iOS SDK app development experience, but want to be more efficient in writing and testing their code, and people who want to know in-depth examples of Swift in Xcode.

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:

Learn how to integrate all the interface elements iOS users have come to know and love, such as buttons, switches, pickers, toolbars, and sliders. In this edition of the best selling book, you'll also learn about touch gestures, table views, and collection views for displaying data on a user interface. Assuming little or no working knowledge of the Swift programming language, and written in a friendly, easy-to-follow style, this book offers a comprehensive course in iPhone and iPad programming. The book starts with a gentle introduction to using Xcode and then guides you through the creation of your first simple application. You'll start with designing basic user interfaces and then explore more sophisticated ones that involve multiple screens such as navigation controllers, tab bars, tool bars, page views, and split views that are particularly useful on the larger screens of the iPad and certain iPhone models. And there's much more!

Beginning iPhone Development with Swift 5 covers the basic information you need to get up and running quickly to turn your great ideas into working iOS apps. Once you're ready, move on to **Pro iPhone Development with Swift 5** to learn more of the really unique aspects of iOS programming and the Swift language.

What You Will Learn Discover what data persistence is, and why it's important Build cool, crisp user interfaces Display data in Table Views Work with all the most commonly used iOS Frameworks Who This Book is For Aspiring iOS app developers new to the Apple Swift programming language and/or the iOS SDK.

Quickly get started creating WatchKit apps with this essential beginners guide to building apps for the Apple Watch. In this book, coauthors Mark Goody and Maurice Kelly introduce you to the technical aspects of building WatchKit apps and show you how to create a WatchKit project. In each chapter, Mark and Maurice highlight key WatchKit concepts, offering guidance and highlighting best practices, on the way to building apps for the Apple Watch. Readers will

not just learn the concepts of WatchKit but understand how to use them in a real-world setting. Mark and Maurice cover how to use extensions to extend functionality and content to the watch, how to handle navigation and controls, and how to design the user interface for your apps. The coauthors look at how to handle notifications and how to communicate with an iPhone before turning to how to ship your WatchKit app. Readers will learn how to * Configure their WatchKit project. * Create interfaces and navigate between screens. * Work with interface objects. * Manage information with glances. * Handle remote and local notifications. Part of the Develop and Design series, books built for both sides of your brain.

Intended for readers with some existing experience of iOS development, watchOS 2 App Development Essentials has been fully updated for watchOS 2, Swift 2 and Xcode 7. Beginning with the basics, this book provides an introduction to WatchKit apps and the watchOS 2 app development architecture before covering topics such as tables, navigation, user input handling, maps, menus, working with images and videos and the recording and playback of audio. More advanced topics are also covered throughout the book, including communication and data sharing between a WatchKit app and the parent iOS app using the WatchConnectivity framework, working with custom fonts, user interface animation, clock face complications and the design and implementation of custom notifications. As with all the books in the "Development Essentials" series, watchOS 2 App Development Essentials takes a modular approach to the subject of app development for the Apple Watch, with each chapter covering a self-contained topic area consisting of detailed explanations, examples and step-by-step tutorials. This makes the book both an easy to follow learning aid and an excellent reference resource.

Offers step-by-step instructions for using iOS to build applications for iPhone and iPad. Learn how to define user interfaces for your iOS applications using the visual tools provided by Xcode. After reading this guide, you will know how to start a new project, how to structure an application, how to generate the user interface and adapt it to different screens, how to work with view controllers, how to connect the interface with your code, and how to define and modify constraints from code. Table of Contents INTERFACE BUILDER The Interface Storyboard Object Library Guide Lines Properties Connections Outlets Connections in the Storyboard Actions Outlet Collections ADAPTIVITY Adapting the Interface Auto Layout Constraints Assigning Constraints Editing Constraints Safe Area Standard Values Resolving Auto Layout Issues Intrinsic Content Size Multiple Views Constraints Relations and Priorities Stack Views Document Outline Panel Constraint Objects Updating Frames Size Classes Adapting Properties Adapting Constraints Adapting Elements Trait Collection Objects Orientation QUICK REFERENCE Constraints UIView NSLayoutConstraint UIViewlew NSLayoutXAxisAnchor, NSLayoutYAxisAnchor, and NSLayoutDimension UITraitCollection UITraitEnvironment UIContentContainer UIViewController This guide assumes that you have a basic knowledge of app development and the Swift language. If you don't know how to program in Swift or the requirements for app development, download our guides Introduction to Swift and App Development. For a complete course on app development for iOS, read our book iOS Apps for Masterminds. This guide is a collection of excerpts from the book iOS Apps for Masterminds. The information included in this guide will help you understand a particular aspect of app development in iOS, but it will not teach you everything you need to know to develop an app for Apple devices. If you need a complete course on app development for iOS, read our book iOS Apps for Masterminds. For more information, visit our website at www.formasterminds.com.

In just 24 sessions of one hour or less, start using Core Data to build powerful data-driven apps for iOS devices and Mac OS X computers! Using this book's straightforward, step-by-step approach, you'll discover how Apple's built-in data persistence framework can help you meet any data-related requirement, from casual to enterprise-class. Beginning with the

absolute basics, you'll learn how to create data models, build interfaces, interact with users, work with data sources and table views, and even get started with iCloud. 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 Core Data development tasks. Quizzes and Exercises at the end of each chapter help you test your knowledge. Notes present interesting information related to the discussion. Tips offer advice or show you easier ways to perform tasks. Cautions alert you to possible problems and give you advice on how to avoid them. Learn how to... Start writing database apps fast, with Xcode 4's powerful tools and templates Master the Objective-C features and patterns Core Data relies upon Understand Core Data's goals, components, and behavior Model data graphically with Xcode 4's Data Model Editor Leverage the full power of Managed Objects Use controllers to integrate your data model with your code Fetch, use, and store data from any source Develop interfaces and features more quickly with Interface Builder Add navigation and control features that integrate seamlessly with Core Data Interact with users via popovers, segmented controls, action sheets, and tab bars Create table views that users can edit Let Xcode 4 and Core Data validate your data for you Use Predicates to precisely select the right data Get ready for iCloud features to sync and move data among your iCloud-enabled devices Jesse Feiler is a leading expert on Apple database development. Feiler has worked with databases since the 1980s, writing about technologies that have since evolved into Core Data. His database clients have included Federal Reserve Bank of New York, Young & Rubicam, and many small and nonprofit organizations. His recent books include Data-Driven iOS Apps for iPad and iPhone with FileMaker Pro, Bento by FileMaker, and FileMaker Go, and FileMaker Pro in Depth. Category: Mac Programming Covers: Core Data User Level: Beginning-to-Intermediate Register your book at informit.com/title/9780672335778 for access to all code examples from the book, as well as updates, and corrections as they become available.

Presents lessons discussing the concepts of Xcode 4.3+ development for OS X and iOS devices.

In just 24 sessions of one hour or less, Sams Teach Yourself Xcode 4 in 24 Hours will help you achieve breakthrough productivity with Apple's new Xcode 4.3+ development environment for OS X and iOS devices. Every lesson introduces new concepts and 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 Xcode 4 development tasks. Quizzes and Exercises at the end of each chapter help you test your knowledge. By the Way notes present interesting information related to the discussion. Did You Know? tips offer advice or show you easier ways to perform tasks. Watch Out! cautions alert you to possible problems and give you advice on how to avoid them. Printed in full color—figures and code appear as they do in Xcode 4.3+ Master the MVC design pattern at the heart of iOS and OS X development Use Xcode project templates to get a head start on advanced application features Efficiently use the Xcode Code Editor and get fast, contextually-aware answers with the built-in help system Use iOS Storyboards to visually describe an application's workflow Get started with Core Data to simplify data management and data-driven user interfaces Use frameworks and libraries to package functionality and promote time-saving code reuse Use Git and Subversion source control for managing distributed projects Prepare Unit tests and use the Xcode debugger to keep your projects error free Package your apps for the App Store Use the command-line Xcode tools for scripting and build automation 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-osx-5e/blob/master/Swift2.md>.

If you've got incredible iOS ideas, get this book and bring them to life! iOS 7 represents the most significant update to Apple's mobile operating system since the first iPhone was released, and even the most seasoned app developers are looking for information on how to take advantage of the latest iOS 7 features in their app designs. That's where iOS App Development For Dummies comes in! Whether you're a programming hobbyist wanting to build an app for fun or a professional developer looking to expand into the iOS market, this book will walk you through the fundamentals of building a universal app that stands out in the iOS crowd. Walks you through joining Apple's developer program, downloading the latest SDK, and working with Apple's developer tools Explains the key differences between iPad and iPhone apps and how to use each device's features to your advantage Shows you how to design your app with the end user in mind and create a fantastic user experience Covers using nib files, views, view controllers, interface objects, gesture recognizers, and much more There's no time like now to tap into the power of iOS – start building the next big app today with help from iOS App Development For Dummies!

In just 24 sessions of one hour each, learn how to build powerful applications for today's hottest handheld devices: the iPhone and iPad! Using this book's straightforward, step-by-step approach, you'll master every skill and technology you need, from setting up your iOS development environment to building great user interfaces, sensing motion to writing multitasking applications. Each lesson builds on what you've already learned, giving you a rock-solid foundation for real-world success! Step-by-step instructions carefully walk you through the most common iOS development tasks. Quizzes and Exercises at the end of each chapter help you test your knowledge. By the Way notes present interesting information related to the discussion. Did You Know? tips offer advice or show you easier ways to perform tasks. Watch Out! cautions alert you to possible problems and give you advice on how to avoid them. Printed in full color—figures and code appear as they do in Xcode Covers iOS 5.0 and up Learn to navigate the Xcode 4.2+ development environment Prepare your system and iDevice for efficient development Get started quickly with Apple's Objective-C and Cocoa Touch Understand the Model-View-Controller (MVC) development paradigm Visually design and code interfaces using Xcode Storyboards, Segues, and the iOS Object Library Build advanced UIs with Tables, Split Views,

Navigation Controllers, and more Read and write preferences and data, and create System Settings plug-ins Use the iOS media playback and recording capabilities Take photos and manipulate graphics with Core Image Sense motion, orientation, and location with the accelerometer, gyroscope, and GPS Integrate online services using Twitter, Email, Web Views, and Google Maps Create universal applications that run on both the iPhone and iPad Write background-aware multitasking applications Trace and debug your applications as they run Covers iOS 5, Xcode 4.2+, Storyboards, iPhone, iPad, and More! Additional files and updates available online

<http://teachyourselfios.com>

Discover how to build iOS and watchOS applications in Swift 2 using Xcode About This Book Gets you up and running with Swift programming without any prior iOS development experience. A fast paced guide showing best practices and lets you get up to speed with Swift to quickly build your own iOS applications A unique practical approach to make your life with Swift easy. Who This Book Is For Are you interested in learning Swift? Do you want to write iOS applications in Swift? If yes, then this is the book for you. No prior iOS programming experience is assumed; however, having some experience with any programming language will be beneficial. What You Will Learn Dive into Swift and explore its innovative and powerful syntax Work with Swift in Xcode to get a unique and productive approach to development Find out how to create complete iOS applications Discover rapid prototyping with a Swift playground Get to know how to use the Swift storyboard to develop multi-page applications Get to grips with parsing JSON and XML data from network sources Build a network client for GitHub repositories, with full source code on GitHub In Detail Swift was considered one of the biggest innovations last year, and certainly with Swift 2 announced at WWDC in 2015, this segment of the developer space will continue to be hot and dominating. This is a fast-paced guide to provide an overview of Swift programming and then walks you through in detail how to write iOS applications. Progress through chapters on custom views, networking, parsing and build a complete application as a Git repository, all by using Swift as the core language Style and approach This fast-paced practical guide will quickly give you hands-on experience with all the features of Swift programming. Following the practical examples in the book will help you successfully create your own iOS applications.

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.

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

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