

Books By Ray Wenderlich Author Of Ios Games By Tutorials

Deep Dive Into Swift! Swift is a rich language with a plethora of features to offer. Reading the official documentation or entry-level books is important, but it's not enough to grasp the true power of the language. **Expert Swift** is here to help, by showing you how to harness the full power of Swift. You'll learn about advanced usages of protocols, generics, functional reactive programming, API design and more. **Who This Book is For** This book is for intermediate Swift developers who already know the basics of Swift and are looking to deepen their knowledge and understanding of the language. **Topics Covered in Expert Swift** **Protocols and Generics:** Learn how protocols and generics work, and how you can leverage them in your code to produce clean, long-lasting and easy-to-refactor APIs. **Sequences and Collections:** Learn how to use Sequences and Collections to write generic algorithms that operate across type families. **Unsafe:** Understand the memory layout of types and how to use typed and untyped pointers. **Functional Reactive Programming:** Explore the most important and refined concepts of functional reactive programming and how you can apply these concepts to your apps. **Objective-C Interoperability:** Learn how to expose Objective-C code to Swift and vice versa. **Library and API Design:** Enhancing your skill set and intuition for designing great APIs. **One thing you can count on:** after reading this book, you'll be prepared to use the advanced features of Swift and improve your existing code with the knowledge you'll acquire. **Learn iPhone and iPad Programming via Tutorials!** If you're new to iOS or Swift, or to programming in general, learning how to write an app can seem incredibly overwhelming. That's why you need a book that: Shows you how to write an app step-by-step. Has tons of illustrations and screenshots to make everything clear. Is written in a fun and easygoing manner! In this book, you will learn how to make your own iPhone and iPad apps, through four engaging, epic-length tutorials. These hands-on tutorials describe in full detail how to build a new app from scratch. Five tutorials, five apps. Each new app will be a little more advanced than the one before, and together they cover everything you need to know to make your own apps. By the end of the series you'll be experienced enough to turn your ideas into real apps that you can sell on the App Store.

Build for iOS & Android With Flutter! Flutter is an exciting development toolkit that lets you build apps for iOS, Android and even web and desktop, all from a single codebase. It uses a declarative approach to UI development. You can "hot reload" code while developing, and apps will perform at native speed thanks to its custom rendering engine. With Flutter and Flutter Apprentice, you can achieve the dream of building fast applications, faster. **Who This Book Is For** This book is for developers who are new to Flutter, and also developers that already have some experience with building apps for the iOS and Android platforms, or web apps. **Topics Covered in Flutter Apprentice** **Widgets:** Use Flutter widgets to build

modern mobile user interfaces. Navigation: Navigate between multiple screens within a Flutter app, including using deep links. Networking and Persistence: Fetch data from the network, parse the JSON response and cache data locally in a SQLite database. State Management: Explore the all-important idea of state management in Flutter and learn about various state management techniques and tools. Streams: Learn about Dart streams and how to use them in Flutter apps. Deployment: Learn to prepare and deploy your app to mobile app stores. One thing you can count on: After reading this book, you'll be prepared to create and deploy full-featured mobile apps to both the iOS App Store and the Google Play Store, without having to write two separate apps.

Learn How to Make Games with the Unity game engine! Unity is a popular game engine used by both by AAA studios and indie game developers alike. This book will introduce you how to create games with Unity whether you have some game development experience or you are a complete beginner. By the time you're finished reading this book, you will have made 4 complete mini-games, modeled your own game assets, and even played with virtual reality! These games include a twin stick shooter, a first person shooter, a 2D platformer, and tower defense game. Topics Covered in Unity Games by Tutorials: GameObjects: Learn about basic building blocks used to create your game. Components: Customize your GameObjects by the way of components. Physics: Unleash the power of the built-in physics engine. Animation: Learn how to bring your models to life through Unity's animation system. Sound: Add depth to your games through Unity's powerful audio tools. Pathfinding: Learn about the pathfinding system to give direction to your monsters. User Interface: Provide custom user interfaces for players to use in your game. Virtual Reality: Convert one of your games to be played in Virtual Reality. Modeling: Learn the basics of Blender and how to create and animate your creations. Publishing: Learn how to export your game to your computer, web, and mobile devices. Unity 2D: A deep walkthrough on Unity's 2D system. And much more including a C# quick start guide, a Unity API overview, and saving game data

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

including iOS, macOS, tvOS, and watchOS. In this book, you'll discover how to... Design and develop rich 2D gaming experiences using Apple's built-in game frameworks. Harness the power of SpriteKit using Xcode and Swift to create engaging player experiences. Use the visual Scene Editor to build complete scenes. Unleash the power of the Particle Editor to create amazing effects. Use GameplayKit to add advanced features to your games like pathfinding, artificial intelligence, and complex rule systems. Build larger, more complex worlds with tile maps and Xcode's visual Tile Map editor. Bring people together using GameKit and Game Center, Apple's social gaming network. Increase revenue with third-party banner ads and rewarded ads using Google AdMob™. Monetize your games with StoreKit and in-app purchases. So, grab your gear and get your game on - it's time to level up your skills. What You Need: macOS Mojave 10.14.6 or newer Xcode 11.3 or newer Basic knowledge of Swift 5.1.4 or newer

Learn Reactive Programming in Swift with RxSwift!The popularity of reactive programming continues to grow on an every-increasing number of platforms and languages. Rx lets developers easily and quickly build apps with code that can be understood by other Rx developers - even over different platforms.Not only will you learn how to use the RxSwift port to create complex reactive applications on iOS, you'll also see how to easily solve common application design issues by using RxSwift. Finally you'll discover how to exercise full control over the library and leverage the full power of reactive programming in your apps.This books is for iOS developers who already feel comfortable with iOS and Swift, and want to dive deep into development with RxSwift.Topics Covered in RxSwift:- Getting Started: Get an introduction to the reactive programming paradigm, learn the terminology involved and see how to begin using RxSwift in your projects.- Event Management: Learn how to handle asynchronous event sequences via two key concepts in Rx - Observables and Observers.- Being Selective: See how to work with various events using concepts such as filtering, transforming, combining, and time operators.- UI Development: RxSwift makes it easy to work with UI of your apps using RxCocoa, which provides integration of both UIKit and Cocoa.- Intermediate Topics: Level up your RxSwift knowledge with chapters on reactive networking, multi-threading, and error handling.And much, much more!By the end of this book, you'll have hands-on experience solving common issues in a reactive paradigm - and you'll be well on your way to coming up with your own Rx patterns and solutions!

Learn iOS Design Patterns! Design patterns are reusable solutions to common development problems. They aren't project specific, so you can adapt and use them in countless apps. By learning design patterns, you'll become a better developer, save time and work less. Design Patterns by Tutorials is here to help! This book is the easiest and fastest way to get hands-on experience with the iOS design patterns you need to know. Who This Book Is For Whether you're a beginner, intermediate or advanced iOS developer, this book is for you. You can either read this book from cover to

cover, or skip around to just the patterns you want to learn. Topics Covered in Design Patterns by Tutorials Getting Started: You'll first learn about how design patterns work and how they can help you build better, cleaner apps.

Fundamental Patterns: You'll progress onto fundamental design patterns, such as MVC, Delegation, and Strategy, which you're likely to use on every iOS app. Intermediate Patterns: You'll then learn about intermediate design patterns, such as MVVM, Factory, and Adapter, which are less common than fundamental patterns but still very useful for most apps.

You'll finish off by learning about advanced design patterns, including Flyweight, Mediator and Command. You likely won't use these on every app, but they may be just what you need to solve a difficult problem. One thing you can count on: after reading this book, you'll be well-prepared to use design patterns in your own apps!

Learn iOS Development Using SwiftUI You'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 For

This 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 Apprentice Using 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.

This sixth edition of the popular C# guide helps you learn the building blocks of the C# language, right from variables to classes and exception handling. After getting to grips with the basics of C# programming, it takes you through the world of Unity game development and how you can apply C# knowledge using game development examples.

The iOS Game Programming Collection consists of two bestselling eBooks: Learning iOS Game Programming: A Hands-On Guide to Building Your First iPhone Game Learning Cocos2D: A Hands-on Guide to Building iOS Games with

Cocos2D, Box2D, and Chipmunk Since the launch of the App Store, games have been the hottest category of apps for the iPhone, iPod touch, and iPad. That means your best chance of tapping into the iPhone/iPad "Gold Rush" is to put

out a killer game that everyone wants to play (and talk about). While many people think games are hard to build, they actually can be quite easy, and this collection is your perfect beginner's guide. Learning iOS Game Programming walks you through every step as you build a 2D tile map game, Sir Lamorak's Quest: The Spell of Release (which is free in the App Store). You can download and play the game you're going to build while you learn about the code. You learn the key characteristics of a successful iPhone game and important terminology and tools you will use. Learning Cocos2D walks you through the process of building Space Viking (which is free on the App Store), a 2D scrolling game that leverages Cocos2D, Box2D, and Chipmunk. As you build Space Viking, you'll learn everything you need to know about Cocos2D so you can create the next killer iOS game. This collection helps you Plan high-level game design, components, and difficulty levels Use game loops to make sure the right events happen at the right time Render images, create sprite sheets, and build animations Use tile maps to build large game worlds from small reusable images Create fire, explosions, smoke, sparks, and other organic effects Deliver great sound via OpenAL and the iPhone's media player Provide game control via iPhone's touch and accelerometer features Craft an effective, intuitive game interface Build game objects and entities and making them work properly Detect collisions and ensuring the right response to them Polish, test, debug, and performance-tune your game Install and configure Cocos2D so it works with Xcode 4 Build a complete 2D action adventure game with Cocos2D Build your game's main menu screen for accessing levels Use Cocos2D's Scheduler to make sure the right events happen at the right times Use tile maps to build scrolling game levels from reusable images Add audio and sound effects with CocosDenshion--Cocos2D's sound engine Add gravity, realistic collisions, and ragdoll effects with Box2D and Chipmunk physics engines Add amazing effects to your games with particle systems Leverage Game Center in your game for achievements and leader boards Squeeze the most performance from your games

Learn Android programming with Kotlin! Learning Android programming can be challenging. Sure, there is plenty of documentation, but the tools and libraries available today for Android are easily overwhelming for newcomers to Android and Kotlin. Android Apprentice takes a different approach. From building a simple first app, all the way to a fully-featured podcast player app, this book walks you step-by-step, building on basic concepts to advanced techniques so you can build amazing apps worthy of the Google Play Store! Who This Book Is For This book is for anyone interested in writing mobile apps for Android. Though no previous mobile experience is necessary, this book is also a great resource for iPhone developers transitioning from iOS. Topics Covered in Android Apprentice Getting Started: Learn how to set up Android Studio and the Android Emulator. Layouts: Create layouts that can be used for both Activities and Fragments Debugging: No one's perfect! Learn how to dig down and troubleshoot bugs in your apps. Communication: Design

separate Activities and communicate and send data between them using Intents. Scrolling Layouts: Learn how to use RecyclerView Views to make efficient, reusable views that scroll fluidly at a touch. Google Places: Integrate location APIs to bring the magic of maps into your Android apps. Networking: Learn how to access resources on the internet and handle networked responses. Material Design: Make sure your apps conform to modern best practices by using Google's standards of Material Design. AndroidX: Learn how to use the AndroidX libraries to support older versions of Android. And much, much more! One thing you can count on: after reading this book, you'll be prepared to write feature-rich apps from scratch and go all the way to submitting them to the Google Play Store! About the Tutorial Team The Tutorial Team is a group of app developers and authors who write tutorials at the popular website raywenderlich.com. We take pride in making sure each tutorial we write holds to the highest standards of quality. We want our tutorials to be well written, easy to follow, and fun. If you've enjoyed the tutorials we've written in the past, you're in for a treat. The tutorials we've written for this book are some of our best yet - and this book contains detailed technical knowledge you simply won't be able to find anywhere else.

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

This fifth edition of the popular C# guide helps you learn the building blocks of C# language, right from variables to classes and exception handling. After getting to grips with the basics of C# programming, it takes you through the world of Unity game development and how you can apply C# knowledge using game development examples.

Learn Core Data With Swift! Take control of your data in iOS apps using Core Data, through a series of high quality hands-on tutorials. Start with the basics like setting up your own Core Data Stack all the way to advanced topics like migration, performance, multithreading, and more! By the end of this book, you'll have hands-on experience with Core Data and will be ready to use it in your own apps.

Who This Book Is For: This book is for intermediate iOS developers who already know the basics of iOS and Swift development but want to learn how to use Core Data to save data in their apps.

Topics Covered in Core Data by Tutorials:

- Your First Core Data App: You'll click File\New Project and write a Core Data app from scratch!
- NSManagedObject Subclasses: Learn how to create your own subclasses of NSManagedObject - the base data storage class in Core Data.
- The Core Data Stack: Learn how the main objects in Core Data work together, so you can move from the starter Xcode template to your own system.
- Intermediate Fetching: This chapter covers how to fetch data with Core Data - fetch requests, predicates, sorting and asynchronous fetching.
- NSFetchedResultsController: Learn how to make Core Data play nicely with table views using NSFetchedResultsController!
- Versioning and Migration: In this chapter, you'll learn how to migrate your user's data as they upgrade through different versions of your data model.
- Unit Tests: In this chapter, you'll learn how to set up a test environment for Core Data and see examples of how to test your models.
- Measuring and Boosting Performance: Learn how to measure your app's performance with various Xcode tools and deal with slow spots in your code.
- Multiple Managed Object Contexts: Learn how multiple managed object contexts can improve performance and make for cleaner code.
- Core Data and CloudKit: Learn how to synchronize Core Data across all of a user's devices.

Get Advanced With Git! If you're involved with software development, chances are you've heard of and used Git at some point. Version control systems are critical for any successful collaborative software project. Git is simple to start using, while accommodating the most complex tasks with version control. However, even seasoned Git users hit roadblocks on how to handle everyday situations. Advanced Git is here to help! This book begins where the other Git book in our catalog, "Git Apprentice", ends.

Who This Book Is For: This book is for anyone who wants to leverage version control's power with Git in their software development process. It starts with a look under Git's hood, then moves on to more complicated scenarios including merge conflicts, rebasing and more. Finally, you'll learn common workflows using Git.

Topics Covered in Advanced Git

- How Git actually works: After using Git for a while, it's good to discover the whys behind all the things.
- Rebasing: A more advanced way of merging code and collaborating.
- Merge Conflicts & Undo: You'll eventually run into problems while using Git. Find out how to handle them with ease.
- Workflows in Git: Working with Git requires some rules to ensure things go smoothly across development teams. Learn the most common workflows and how to decide which to use for your project.
- One thing you can count on: After reading this book, you'll be well-prepared to use Git in your software development workflow!

This book is written by a professional instructor and founder of CartoonSmart.com, a company specializing in new media tutorials for nearly a decade. The book is a start-to-finish guide for anyone looking to begin iOS development using Cocos2d and Xcode and submit their finished app to Apple. Even if you haven't read code before, you can begin with this book. This book is a handy reference guide, with easy to look-up

sections of code snippets, pictures and links to video examples. Features: Code Video examples 5 hours of tutorial videos on Box2d, which can take the reader even further beyond what they learned in the book

Learn & Master SwiftUI! Every developer wants to build the most fluid and engaging declarative UI for their apps with as little code as possible. SwiftUI will help you do just that. Learn all the main concepts through an easy-to-follow tutorials where you'll build apps that teach you to create modern, responsive UI and animations that look great on iOS, iPadOS, watchOS, tvOS, and even macOS. Who This Book Is For This book is for intermediate iOS developers who already know the basics of iOS, and who wish to know everything there is to know about SwiftUI. Topics Covered in SwiftUI by Tutorials SwiftUI Overview: Learn SwiftUI features, as well as the differences between Apple's platforms with SwiftUI. Customize your apps for AppKit, UIKit, WatchKit, tvOS, iPadOS and even Catalyst. Testability: See how to apply UI Testing to your SwiftUI apps in this very simple, yet powerful course. Controls & User Input: Learn about controls such as TextField, Button, Toggle, Slider, Stepper, pickers and many more. State & Data Flow: Learn how to bind data to the UI, about reactive updates to the UI through state management, and in-depth usage of the attributes related to SwiftUI. Accessibility: Learn how to navigate your app with VoiceOver on an iOS device and use the SwiftUI Accessibility API attributes to improve your app's accessible UI. Drawing Custom Graphics & Animations: Create drawings, graphics, animations and even view transitions in SwiftUI. macOS: Learn how to create a document-based Mac app and later start with an existing iOS app and learn how to re-use code, views and assets for creating a macOS app. One thing you can count on: After you finish reading this book, you'll be able to take advantage of the latest and greatest features of SwiftUI to bring modern declarative UX to your apps.

Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

"Beginning 2D iOS game development with Swift"--Page 1 of cover.

Apply Different Architectures to Your Codebase! Advanced iOS App Architecture guides you through building one real-world app written in different architectures to give you hands-on and practical experience working in different architectures. This book will also guide you through the theory you need to gain a solid foundation of architecture concepts so that you can make your own informed decisions on how to use them in your codebase. Who This Book Is For This book is for intermediate iOS developers who already know the basics of iOS and are looking to build apps using defined architectures, making apps cleaner and easier to maintain. Topics Covered in Advanced iOS App Architecture Navigating Architecture Topics: Learn the theory behind various architectures to help inform which works best for you in different situations you may face. Managing Dependencies: Learn how to manage dependencies both internally and externally within your app. MVVM Architecture: Explore the history of the MVVM architecture and begin building KOOBER - the book's project app - using MVVM principles. Redux Architecture: Explore the history of the Redux architecture and continue building KOOBER using Redux principles. Elements Architecture: Explore the history of the Elements architecture and continue building KOOBER using Elements principles. SwiftUI: Explore SwiftUI and find out how to adapt existing application architectures for use with SwiftUI. After reading this book, you'll have the knowledge to decide which types of architecture components suit your apps and you'll have a deep understanding of the covered architectures. About the iOS Architecture Team The architecture team is a group of seasoned developers who work for large multi-national companies who deal with large and diverse code bases on a daily basis. The knowledge procured over years of development is now being transferred to you through book. We hope you enjoy the book and, hopefully, you'll apply some of the architectures you've learned to your own apps

Learn Apple's brand new programming language, Swift, the quick and easy way: via hands-on tutorials! Through a series of real-world, practical examples you will bring your Swift knowledge from beginner to master. Swift by Tutorials covers the following topics: Language Basics: Variables, constants, types, equality, strings, optionals, collections, and more: get off the ground with the language essentials. Classes & Structs: Data structures like classes and structs are at the heart of any object-oriented language. This is the first chapter where you'll build a full-featured iOS app. Generics: In C++ it's called templates; in Swift it's called generics: Generic programming allows you to write an algorithm once and reuse it for multiple types. Functions & Closures: It's hard to write code without using functions! Closures are a related topic. (Spoiler alert-in Swift, they're just unnamed functions!) Enums & Switch Statements: Swift introduces extremely powerful enum types. Switch statements are crucial to unlocking their potential. Functional Programming: Functional programming is a popular topic right now-quite a departure from more traditional, imperative programming. Swift builds this paradigm right into the core of the language. Swift & Cocoa: 90% of iOS development is interfacing with Cocoa frameworks-this remains true with Swift. This chapter illustrates how you will work with Cocoa in Swift; you'll also see how bridging headers work so you can continue to use Objective-C code and libraries in Swift. Swift vs. Objective-C: Existing Objective-C developers will be wondering what's different with Swift, or how to do their favorite things using Swift. In this chapter, you'll re-implement an Objective-C app in Swift to compare and contrast the two languages. Language Quick Reference: As you're coding your own Swift applications, you can refer back to this reference to remind yourself how something works. The iOS Tutorial Team takes pride in making sure each tutorial we write holds to the highest standards of quality. We want our tutorials to be well written, easy to follow, and fun. And we don't want to just skim the surface of a subject - we want to really dig into it, so you can truly understand how it works and apply the knowledge directly in your own apps.

Discover the do's and don'ts involved in crafting readable Swift code as you explore common Swift coding challenges and the best practices that address them. From spacing, bracing, and semicolons to proper API style, discover the whys behind each recommendation, and add to or establish your own house style guidelines. This practical, powerful, and opinionated guide offers the best practices you need to know to work successfully in this equally opinionated programming language. Apple's Swift programming language has finally reached stability, and developers are demanding to know how to program the language properly. Swift Style guides you through the ins and outs of Swift programming best practices. This is the first best practices book for serious, professional Swift programmers and for programmers who want to shine their skills to be hired in this demanding market. A style guide offers a consistent experience of well-crafted code that lets you focus on the code's underlying meaning, intent, and implementation. This book doesn't offer canonical answers on Swift coding style. It explores the areas of Swift where structure comes into play. Whether you're developing a personal style or a house style, there are always ways to enhance your code choices. You'll find here the ideas and principles to establish or enhance your own best style practices. Begin with simple syntactical styling. Strengthen code bracing for easy readability. Style your closures for safety and resilience. Perfect spacing and layout. Master literal initialization and typing. Optimize control flow layout and improve conditional style choices. Transition from Objective-C and move code into Swift the right way. Boost API design using proper naming and labeling. Elevate defaulted arguments and variadics to their right places. Finally, Erica offers her own broad recommendations on good coding practice. What You Need: Recent version of the Swift programming language

Learn Augmented Reality!Augmented reality is going to be the next big thing - there's absolutely no doubt about it. If you want to build realistic and immersive AR experiences for the Apple platform, this book is your golden ticket.Apple Augmented Reality by Tutorials is the

easiest and fastest way to get hands-on experience using Apple frameworks and technologies like Reality Composer, RealityKit, and ARKit. Who This Book Is For: This book is for beginner to intermediate iOS developers who already know the basics of Swift development and are looking to build immersive AR experiences for the Apple platform. Topics Covered in Apple AR by Tutorials: AR Quick Look: Discover how to integrate AR Quick Look into your apps to give them some cool AR superpowers. Reality Composer & Reality Files: Find out how to leverage the power of Reality Composer to create interactive AR-based experiences. Reality Converter & PBR Materials: Discover how PBR materials can add a level of realism to your AR objects, and how to use Reality Converter to convert, view & customize USDZ content. RealityKit: Learn to set up and use RealityKit to build a face-based augmented reality app. Facial Blend Shapes: Build a fully interactive augmented reality face mask that reacts to your facial expressions using blend shapes. ARKit: Get a complete introduction to ARKit, Apple's framework for creating fully interactive augmented reality, and learn about the different types of rendering options available with ARKit. Raycasting & Physics: Learn about raycasting, 2D hit-testing and the SpriteKit physics engine as you add more features and functionality to your game. ECS & Collaborative Experiences: Build a collaborative AR experience and learn how to create and manage a multipeer connection. After reading this book, you'll have a deep understanding of the technologies and frameworks used to create powerful, immersive AR experiences for the Apple platform.

Create compelling 2D games with Learn cocos2d 2: Game Development with iOS. This book shows you how to use the powerful new cocos2d, version 2 game engine to develop games for iPhone and iPad with tilemaps, virtual joypads, Game Center, and more. It teaches you: The process and best practices of mobile game development, including sprite batching, texture atlases, parallax scrolling, touch and accelerometer input. How to enhance your games using the Box2D and Chipmunk physics engines and other cocos2d-related tools and libraries. How to add UIKit views to cocos2d and how to add cocos2d to UIKit apps. The ins and outs of the Kobold2D development environment for cocos2d and its pre-configured libraries, including cocos3d and Lua. Best of all, this book will have you making games right from the very start. It guides you step-by-step through the creation of sample games. These fun examples are modeled after popular App Store games and teach you key concepts of the new cocos2d 2 game engine and relevant tools like TexturePacker (texture atlas), PhysicsEditor (physics collision shapes), Particle Designer (particle effects), Glyph Designer (bitmap fonts), and others. This book offers a rock-solid introduction to creating games made entirely with cocos2d and little or no iOS SDK and OpenGL code. It also details alternative implementations, identifies the best free and commercial tools for cocos2d game development, features coverage of the author's improved cocos2d game engine (Kobold2D), and even helps you enhance your game's marketability on the App Store.

This is Volume 2 of a 2-Volume book. iOS 5 was one of the biggest upgrades to iOS so far, and has a ton of awesome features that you'll definitely want to start using in your apps. The only problem is, there's not a ton of documentation or sample code on the APIs, so they're often quite hard to learn! This is where iOS 5 By Tutorials comes in! The goal of the book is to help intermediate and advanced iOS developers get up-to-speed with the APIs introduced in iOS 5 in the quickest and easiest way - via tutorials! Updated for iOS 6. This new second edition is fully up-to-date with iOS 6 and Xcode 4.5. Although the book focuses on APIs introduced in iOS 5, the chapters have been updated to work on iOS 6, use Modern Objective C syntax, and more. This book is for intermediate or advanced iOS developers, who already know the basics of iOS development but want to upgrade their skills to iOS 5. iOS 5 by Tutorials Volume 2 covers the following APIs: Twitter Integration: Learn how to use the new built-in Twitter integration support in iOS 5. Newsstand: Learn how to make a magazine-style app that is integrated with the new Newsstand app. UINavigationController: Learn how to make your view controllers transition with page curls. Turn-

Based Gaming: Learn how to make turn-based games easily with the new Game Center API. Core Image: Learn how to use the new Core Image framework to apply filters to your app's images. View Controller Containment: Learn how to contain view controllers inside others - the right way. Working with JSON in iOS 5: Learn how to use the new built-in JSON parsing and writing support. UIKit Particle Systems: Learn how to make neat particle effects in UIKit. Using the iOS Dictionary: Learn how to integrate the iOS 5 dictionary directly in your apps. New AddressBook APIs: Learn about the new social profile, vCards, and more. New Location APIs: Learn how forward and reverse geocoding just got a lot easier. New Game Center APIs: Learn about the new notification banner, player photos, and more. New Calendar APIs: Learn about the new calendar chooser and custom calendars. The iOS Tutorial Team takes pride in making sure each tutorial we write holds to the highest standards of quality. We want our tutorials to be well written, easy to follow, and fun. And we don't want to just skim the surface of a subject - we want to really dig into it, so you can truly understand how it works and apply the knowledge directly in your own apps. By the time you're finished reading this book, your skills will be completely up to date with iOS 5, and you'll be ready to use these new technologies right away in your apps!

Annotation Cocos2d for iPhone is a robust but simple-to-use 2D game framework for iPhone. It is easy to use, fast, flexible, free, and Appstore approved. More than 2500 AppStore games already use it, including many best-seller games. Do you want to take your cocos2d game development skills to the next level and become more professional in cocos2d game design?Cocos2d for iPhone 1 Game Development Cookbook will help you reach that next level. You will find over 100 recipes here that explain everything from the drawing of a single sprite to AI pathfinding and advanced networking. Full working examples are emphasized.Starting with the first chapter, Graphics, you will be taken through every major topic of game development. You will find both simple and complex recipes in the book.Each recipe is either a solution to a common problem (playing video files, accelerometer steering) or a cool advanced technique (3D rendering, textured polygons).This cookbook will have you creating professional quality iOS games quickly with its breadth of working example code.

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

“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.

Learn Machine Learning! Machine learning is one of those topics that can be daunting at first blush. It's not clear where to start, what path someone should take and what APIs to learn in order to get started teaching machines how to learn. This is where Machine Learning by Tutorials comes in! In this book, we'll hold your hand through a number of tutorials, to get you started in the world of machine learning. We'll cover a wide range of popular topics in the field of machine learning, while developing apps that work on iOS devices. Who This Book Is For This book is for the intermediate iOS developer who already knows the basics of iOS and Swift development, but wants to understand how machine learning works. Topics covered in Machine Learning by Tutorials CoreML: Learn how to add a machine learning model to your iOS apps, and how to use iOS APIs to access it. Create ML: Learn how to create your own model using Apple's Create ML Tool. Turi Create and Keras: Learn how to tune parameters to improve your machine learning model using more advanced tools. Image Classification: Learn how to apply machine learning models to predict objects in an image. Convolutional Networks: Learn advanced machine learning techniques for predicting objects in an image with Convolutional Neural Networks (CNNs). Sequence Classification: Learn how you can use recurrent neural networks (RNNs) to classify motion from an iPhone's motion sensor. Text-to-text Transform: Learn how to use machine learning to convert bodies of text between two languages. By the end of this book, you'll have a firm understanding of what machine

learning is, what it can and cannot do, and how you can use machine learning in your next app!

Learning Cocos2DA Hands-On Guide to Building iOS Games with Cocos2D, Box2D, and Chipmunk Addison-Wesley Professional

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. Build the Next Great iOS Game with Cocos2D! Cocos2D is the powerhouse framework behind some of the most popular games in the App Store. If you've played Tiny Wings, Angry Birds, Mega Jump, Trainyard, or even Super Turbo Action Pig, then you've played a game that uses Cocos2D or Box2D physics. The beauty of Cocos2D is its simplicity. It's easy to become overwhelmed when you start developing an iOS game, especially if you look at things like OpenGL ES, OpenAL, and other lower level APIs. Writing a game for the iPhone and iPad does not have to be that difficult, and Cocos2D makes game development fun and easy. Learning Cocos2D walks you through the process of building Space Viking (which is free on the App Store), a 2D scrolling game that leverages Cocos2D, Box2D, and Chipmunk. As you build Space Viking, you'll learn everything you need to know about Cocos2D so you can create the next killer iOS game. Download the free version of Space Viking from the App Store today! Help Ole find his way home while learning how to build the game. As you build Space Viking, you'll learn how to Install and configure Cocos2D so it works with Xcode 4

Build a complete 2D action adventure game with Cocos2D Add animations and movement to your games Build your game's main menu screen for accessing levels Use Cocos2D's Scheduler to make sure the right events happen at the right times Use tile maps to build scrolling game levels from reusable images Add audio and sound effects with CocosDenshion—Cocos2D's sound engine Add gravity, realistic collisions, and even ragdoll effects with Box2D and Chipmunk physics engines Add amazing effects to your games with particle systems Leverage Game Center in your game for achievements and leader boards Squeeze the most performance from your games along with tips and tricks Unity, the world's leading real-time engine, is used to create half of the world's games. This book will teach programming newcomers the C# language in a fun and accessible way through game development. No prior programming or game development experience is required, only a curious mind.

Create compelling 2D games with Learn cocos2d Game Development with iOS 5. This book shows you how to use the powerful cocos2d game engine to develop games for iPhone and iPad with tilemaps, virtual joypads, Game Center, and more. It teaches you: The process and best practices of mobile game development, including sprite batching, texture atlases, parallax scrolling, touch and accelerometer input. How to enhance your games using the Box2D and Chipmunk physics engines and other cocos2d-related tools and libraries. How to add UIKit views to cocos2d and how to add cocos2d to UIKit apps. The ins and outs of the Kobold2D development environment for cocos2d and its preconfigured libraries, including cocos3d and Lua. Best of all, Learn cocos2d Game Development with iOS 5 will have you making games right from the very start. It guides you step-by-step through the creation of sample games. These fun examples are modeled after popular App Store games and teach you key concepts of the cocos2d game engine and relevant tools like TexturePacker (texture atlas), PhysicsEditor (physics collision shapes), Particle Designer (particle effects), Glyph Designer (bitmap fonts), and others. This book offers a rock-solid introduction to creating games made entirely with cocos2d and little or no iOS 5 SDK and OpenGL code. It also details alternative implementations, identifies the best free and commercial tools for cocos2d game development, features coverage of the author's improved cocos2d game engine (Kobold2D), and even helps you enhance your game's marketability on the App Store.

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