Ios Programming Swift Practical Create

Swift Programming in easy steps Darryl Bartlett 2019-05-07 Swift is very easy to learn and it's more readable than most programming languages. It allows you to build applications for iPhone, iPad, Apple Watch, Apple TV and Mac. Swift Programming in easy steps teaches you how to build iOS apps from scratch using Swift 4. Learn: · Xcode: the free software to write apps in Swift. · Swift Playgrounds: the experimenting environment that lets you write code and see results instantly. · Firebase: Google's mobile platform that lets you add functionality to your app. · SpriteKit: that gives you everything you'll need to build 2D games. · ARKit: that allows you to create Augmented Reality experiences for your app users. You don't need any prior programming knowledge. This book will walk you through the process of user interface design and coding, all the way to publishing your apps to the App Store! For anyone seeking to discover the easiest way to create apps for Apple devices. Covers iOS 12 and Swift 4 Table of Contents Introduction to iOS Development Swift Playgrounds User Interaction Camera & Photo Library Location & Table Views Firebase: Login & Database Game Development Advanced Swift Submitting your Apps

Beginning IOS 14 & Swift App Development Greg Lim 2020-10-27 In this book, we take you on a fun, hands-on and pragmatic journey to learning iOS 14 application development using Swift. You'll start building your first iOS app within minutes. Every section is written in a bite-sized manner and straight to the point as I don't want to waste your time (and most certainly mine) on the content you don't need. In the end, you will have the skills to create an app and submit it to the app store. In the course of this book, we will cover: Chapter 1 & 2 - Working with Xcode and Swift to build a BMI calculator app. Chapter 3 - Build a Quotes app using Table View Chapter 4 - Create a To Do List app (create, read, update and delete to-do items) Chapter 5 - Implement data persistency to our To Do List app using Core Data Chapter 6 - Improve our To Do List app by adding images and swipe deletion Chapter 7 - Build a cryptocurrency price tracker app which retrieves prices via an API Chapter 8 - Build a image detection app using machine learning Chapter 9 - Create an Augmented Reality app with ARKit Chapter 10 - Publish our app on to the App store Chapter 11 - SwiftUI Chapter 12 - Widgets Chapter 13 - App Clips Chapter 14 - Dark Mode Chapter 15 - Porting your iOS App to the Mac with Project Catalyst Chapter 16 - In-App Purchases The goal of this book is to teach you iOS development in a manageable way without overwhelming you. We focus only on the essentials and cover the material in a hands-on practice manner for you to code along. About the Reader No previous knowledge on iOS development required, but you should have basic programming knowledge. About the Author Greg Lim is a technologist and author of several programming books. Greg has many years in teaching programming in tertiary institutions and he places special emphasis on learning by doing.

Practical Artificial Intelligence with Swift Mars Geldard 2019-09-03 Create and implement AI-based features in your Swift apps for iOS, macOS, tvOS, and watchOS. With this practical book, programmers and developers of all kinds will find a one-stop shop for AI and machine learning with Swift. Taking a task-based approach, you'll learn how to build features that use powerful AI features to identify images, make predictions, generate content, recommend things, and more. AI is increasingly essential for every developer—and you don't need to be a data scientist or mathematician to take advantage of it in your apps. Explore Swift-based AI and ML techniques for building applications. Learn where and how AI-driven features make sense. Inspect tools such as Apple's Python-powered Turi Create and Google's Swift for TensorFlow to train and build models. I: Fundamentals and Tools—Learn AI basics, our task-based approach, and discover how to build or find a dataset. II: Task Based AI—Build vision, audio, text, motion, and augmentation-related features; learn how to convert preexisting models. III: Beyond—Discover the theory behind task-based practice, explore AI and ML methods, and learn how you can build it all from scratch... if you want to

SwiftUI by Tutorials (Fourth Edition) raywenderlich Tutorial Team 2021-11-11 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.

Swift Fundamentals Mark Lassoff 2014-09-05 Have you been wanting to develop Apps for iOS but don't have the prerequisite language skills? Have you tried other iOS books and the code just went over your head? Do you feel like you need a little more coding experience before tackling mobile? Do you want to get a head start on iOS8 development? There is no mobile platform that has proved more dominant-- or more lucrative than iOS! If you're planning on creating native iOS apps, you must know Swift. Swift is an easy-to-learn and powerful language that is used to create iOS8 and OSX apps in the very near future. Companies are scrambling to hire Swift developers and those with aspirations to create iOS apps are learning it as fast as they can. Author Mark Lassoff is a master-instructor with years of teaching experience. You'll master the Swift programming language as you complete the multiple lab exercises that are both interesting and engaging. Dozens and dozens of code examples are available for you to load up and study. Over 150,000 people have learned programming from Mark Lassoff-- this book is one of his best. If you want to learn Swift and become an iOS8 developer, this is your book.

Learn Swift by Building Applications Emil Atanasov 2018-05-25 Start building your very own mobile apps with this comprehensive introduction to Swift and object-oriented programming Key Features A complete beginner's guide to Swift programming language Understand core Swift programming concepts and techniques for creating popular iOS apps Start your journey toward building mobile app development with this practical guide Book Description Swift Language is now more powerful than ever; it has introduced new ways to solve old problems and has gone on to become one of the fastest growing popular languages. It is now a de-facto choice for iOS developers and it powers most of the newly released and popular apps. This practical guide will help you to begin your journey with Swift programming through learning how to build iOS apps. You will learn all about basic variables, if clauses, functions, loops, and other core concepts; then structures, classes, and inheritance will be discussed. Next, you'll dive into developing a weather app that consumes data from the internet and presents information to the user. The final project is more complex, involving creating an Instagram like app that integrates different external libraries. The app also uses CocoaPods as its package dependency manager, to give you a cutting-edge tool to add to your skillset. By the end of the book, you will have learned how to model real-world apps in Swift. What you will learn Become a pro at iOS development by creating simple-to-complex iOS mobile applications Master Playgrounds, a unique and intuitive approach to teaching Xcode Tackle the basics, including variables, if clauses, functions, loops and structures, classes, and inheritance Model real-world objects in Swift and have an in-depth understanding of the data structures used, along with OOP concepts and protocols Use CocoaPods, an open source Swift package manager to ease your everyday developer

requirements Develop a wide range of apps, from a simple weather app to an Instagram-like social app Get ahead in the industry by learning how to use third-party libraries efficiently in your apps Who this book is for This book is for beginners who are new to Swift or may have some preliminary knowledge of Objective-C. If you are interested in learning and mastering Swift in Apple's ecosystem, namely mobile development, then this book is for you.

IOS 11 Swift Programming Cookbook Vandad Nahavandipoor 2018 iOS 11, Swift 4, and Xcode 9 provide many new APIs for iOS developers. With this cookbook, you'll learn more than 170 proven solutions for tackling the latest features in iOS 11 and watchOS 4, including new ways to use Swift and Xcode to make your day-to-day app development life easier. This collection of code-rich recipes also gets you up to speed on continuous delivery and continuous integration systems. Ideal for intermediate and advanced iOS developers looking to work with the newest version of iOS, these recipes include reusable code on GitHub, so you can put them to work in your project right away. Among the topics covered in this book: New features in Swift 4 and Xcode 9 Tools for continuous delivery and continuous integration Snapshot testing and test automation Creating document-based applications Updated Map view and Core Location features iOS 11's Security and Password Autofill Data storage with Apple's Core Data Creating lively user interfaces with UI Dynamics Building iMessage applications and sticker packages Integrating Siri into your apps with Siri Kit Creating fascinating apps for Apple Watch

IOS Development with Swift Craig Grummit 2017-12 "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.

IOS Apprentice Matthijs Hollemans 2014-12-01 Learn iPhone and iPad Programming via Tutorials! If you're new to iOS and Swift, or to programming in general, learning how to write an app can seem incredibly overwhelming. That's why you need a book that: Shows you how to write an app step-by-step Has tons of illustrations and screenshots to make everything clear Is written in a fun and easygoing manner! In this book, you will learn how to make your own iPhone and iPad apps, through a series of four epic-length hands-on tutorials. These hands-on tutorials describe in full detail how to build a new app from scratch. Four tutorials, four apps. Each new app will be a little more advanced than the one before, and together they cover everything you need to know to make your own apps. By the end of the series you'll be experienced enough to turn your ideas into real apps that you can sell on the App Store. Tutorial 1: Bull's Eye. In the first tutorial in the book, you'll start off by building a simple but fun game to learn the basics of iPhone programming. In the process, you'll get familiar with Xcode, Interface Builder, and Swift in an easygoing manner. Tutorial 2: Checklists. In the second tutorial in the series, you'll create your own to-do list app. In the process, you'll learn about the fundamental design patterns that all iOS apps use and about table views, navigation controllers and delegates. Now you're making apps for real! Tutorial 3: MyLocations. In the third tutorial, you'll develop a location-aware app that lets you keep a list of spots that you find interesting. In the process, you'll learn about Core Location, Core Data, Map Kit, and much more! Tutorial 4: StoreSearch. Mobile apps often need to talk to web services and that's what you'll do in this final tutorial of the book. You'll make a stylish app for iPhone and iPad that lets you search for products on the iTunes store using HTTP requests and JSON. It is my sincere belief that this series can turn you from a complete newbie into an accomplished iOS developer, but you do have to put in the time and effort. By writing this book I've done my part, now it's up to you...

Swift Apprentice (Seventh Edition) Eli Ganim 2021-10-26 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 ApprenticePlayground 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!

Mastering iOS 14 Programming Mario Eguiluz Alebicto 2021-03-19 Become a professional iOS developer with the most in-depth and advanced guide to Swift 5.3, Xcode 12.4, ARKit 4, Core ML, and iOS 14's new features Key FeaturesExplore the world of iOS app development through practical examplesUnderstand core iOS programming concepts such as Core Data, networking, and the Combine frameworkExtend your iOS apps by adding augmented reality and machine learning capabilities, widgets, App Clips, Dark Mode, and animationsBook Description Mastering iOS 14 development isn't a straightforward task, but this book can help you do just that. With the help of Swift 5.3, you'll not only learn how to program for iOS 14 but also be able to write efficient, readable, and maintainable Swift code that reflects industry best practices. This updated fourth edition of the iOS 14 book will help you to build apps and get to grips with real-world app development flow. You'll find detailed background information and practical examples that will help you get hands-on with using iOS 14's new features. The book also contains examples that highlight the language changes in Swift 5.3. As you advance through the chapters, you'll see how to apply Dark Mode to your app, understand lists and tables, and use animations effectively. You'll then create your code using generics, protocols, and extensions and focus on using Core Data, before progressing to perform network calls and update your storage and UI with the help of sample projects. Toward the end, you'll make your apps smarter using machine learning, streamline the flow of your code with the Combine framework, and amaze users by using Vision framework and ARKit 4.0 features. By the end of this iOS development book, you'll be able to build apps that harness advanced techniques and make the best use of iOS 14's features. What you will learnBuild a professional iOS application using Xcode 12.4 and Swift 5.3Create impressive new widgets for your apps with iOS 14Extend the audience of your app by creating an App ClipImprove the flow of your code with the Combine frameworkEnhance your app by using Core LocationIntegrate Core Data to persist information in your appTrain and use machine learning models with Core MLCreate engaging augmented reality experiences with ARKit 4 and the Vision frameworkWho this book is for This book is for developers with some experience in iOS programming who want to enhance their application development skills by unlocking the full potential of the latest iOS version with Swift.

Advanced Swift Chris Eidhof 2016-03-18 Advanced Swift takes you through Swift's features, from low-level programming to high-level abstractions. In this book, we'll write about advanced concepts in Swift programming. If you have read the Swift Programming Guide, and want to explore more, this book is for you. Swift is a great language for systems programming, but also lends itself for very high-level programming. We'll explore both high-level topics (for example, programming with generics and protocols), as well as low-level topics (for example, wrapping a C library and string internals).

Swift Game Programming for Absolute Beginners Arjan Egges 2015-08-03 "Concepts of game programming are explained well, and no prior knowledge of Swift language programming is required. ... The images and audio provided are professional and clean." William Fahle, Computing Review, May 31, 2016 Swift Game Programming for Absolute Beginners teaches Apple's Swift language in the context of four, fun and colorful games. Learn the Swift 2.0 language, and learn to create game apps for iOS at the same time – a double win! The four games you'll develop while reading this book are: Painter Tut's Tomb Penguin Pairs Tick Tick These four games are casual, arcade-style games representing the aim-and-shoot, casual, puzzle, and platform styles of game play. Professionally developed game assets form part of the book download. You'll get professionally drawn sprites and imagery that'll have you proud to show your learning to friends and family. The approach in Swift Game Programming for Absolute Beginners follows the structure of a game rather than the syntax of a language. You'll learn to create game worlds, manage

game objects and game states, define levels for players to pass through, implement animations based upon realistic physics, and much more. Along the way you'll learn the language, but always in the context of fun and games. Swift is Apple's new programming language introduced in 2014 to replace Objective-C as the main programming language for iOS devices and Mac OS X. Swift is a must learn language for anyone targeting Apple devices, and Swift Game Programming for Absolute Beginners provides the most fun you'll ever have in stepping over the threshold toward eventual mastery of the language.

Swift High Performance Kostiantyn Koval 2015-11-06 Leverage Swift and enhance your code to take your applications to the next level About This Book Build solid, high performance applications in Swift Increase your efficiency by getting to grips with concurrency and parallel programming Use Swift to design performance-oriented solutions Who This Book Is For This book is aimed at experienced Swift developers wanting to optimize their programs on Apple platforms to optimize application performance. What You Will Learn Build solid, stable, and reliable applications using Swift Use REPL and Pl to manage and configure relational databases Explore Swift's features including its static type system, value objects, and functional programming Design reusable code for high performance in Swift Use to Xcode LLBD and REPL to debug commands Avoid sharing resources by using concurrency and parallel programming Understand the lazy loading pattern, lazy sequences, and lazy evolution. In Detail Swift is one of the most popular and powerful programming languages for building iOS and Mac OS applications, and continues to evolve with new features and capabilities. Swift is considered a replacement to Objective-C and has performance advantages over Objective-C and Python. Swift adopts safe programming patterns and adds modern features to make programming easier, more flexible, and more fun. Develop Swift and discover best practices that allow you to build solid applications and optimize their performance. First, a few of performance characteristics of Swift will be explained. You will implement new tools available in Swift, including Playgrounds and REPL. These will improve your code efficiency, enable you to analyse Swift code, and enhance performance. Next, the importance of building solid applications using multithreading concurrency and multi-core device architecture is covered, before moving on to best practices and techniques that you should utilize when building high performance applications, such as concurrency and lazy-loading. Finally, you will explore the underlying structure of Swift further, and learn how to disassemble and compile Swift code. Style and approach This is a comprehensive guide to enhancing Swift programming techniques and methodology to enable faster application development.

RxSwift (Fourth Edition) raywenderlich Tutorial Team 2020-08-11 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'l be well on your way to coming up with your own Rx patterns and solutions!

Data Structures & Algorithms in Swift (Fourth Edition) raywenderlich Tutorial Team 2021-09-15 Learn Data Structures & Algorithms in Swift!Data structures and algorithms form the basis of computer programming and are the starting point for anyone looking to become a software engineer. Choosing the proper data structure and algorithm involves understanding the many details and trade-offs of using them, which can be time-consuming to learn - and confusing.This is where this book, Data Structures & Algorithms in Swift, comes to the rescue! In this book, you'll learn the nuts and bolts of how fundamental data structures and algorithms work by using easy-to-follow tutorials loaded with illustrations; you'll also learn by working in Swift playground code.Who This Book Is ForThis book is for developers who know the basics of Swift syntax and want a better theoretical understanding of what data structures and algorithms are to build more complex programs or ace a whiteboard interview.Topics Covered in Data Structures & Algorithms in Swift*Basic data structures and algorithms, including stacks, queues and linked lists. *How protocols can be used to generalize algorithms. *How to leverage the algorithms of the Swift standard library with your own data structures. *Trees, tries and graphs. *Building algorithms on top of other primitives. *A complete spectrum of sorting algorithms from simple to advanced. *How to think about algorithmic complexity. *Finding shortest paths, traversals, subgraphs and much more.After reading this book, you'll have a solid foundation on data structures and algorithms and be ready to solve more complex problems in your apps elegantly.

Test-Driven iOS Development with Swift Dr. Dominik Hauser 2016-02-22 Create fully-featured and highly functional iOS apps by writing tests first About This Book Learn test-driven principles to help you build apps with fewer bugs and better designs Become more efficient while working with Swift to move on to your next project faster! Learn how to incorporate all of the principles of test-driven development (TDD) in to your daily programming workflow Who This Book Is For If debugging iOS apps is a nerve-racking task for you and you are looking for a fix, this book is for you. What You Will Learn Implement TDD in swift application development/span Get to know the fundamentals, life cycle, and benefits of TDD/span Explore the tools and frameworks to effectively use TDD/span Develop models and controllers driven by tests/span Construct the network layer using stubs/span Use functional tests to ensure the app works as planned/span Automate and streamline the building, analysing, testing, and archiving of your iOS apps In Detail Test-driven development (TDD) is a proven way to find software bugs early. Writing tests before your code improves the structure and maintainability of your app. Test-driven iOS Development with Swift will help you understand the process of TDD and how it impacts your applications written in Swift. Through practical, real-world examples, you'll start seeing how to implement TDD in context. We will begin with an overview of your TDD workflow and then deep-dive into unit testing concepts and code cycles. We will showcase the workings of functional tests, which will help you improve the user interface. Finally, you will learn about automating deployments and continuous integration to run an environment. Style and approach This is an easy-to-follow example-driven tutorial, packed with lots of tips and tricks that explore TDD bit-by-bit in the process of making an iOS application.

Learn SwiftUI Chris Barker 2020-04-03 Get to grips with Apple's new SwiftUI framework for creating robust UIs for iOS and iPadOS using Swift programming Key FeaturesUse SwiftUI for building dynamic apps for Apple devices from scratchUnderstand declarative syntax in cross-platform development and how states work within SwiftUILearn to develop watchOS apps by reusing SwiftUI codeBook Description SwiftUI is the new and powerful interface toolkit that lets you design and build iOS, iPadOS, and macOS apps using declarative syntax. It is a powerful way to develop the UI elements of applications, which would normally be tightly coupled to application logic. Learn SwiftUI will get you up to speed with the framework and cross-device UI development in no time. Complete with detailed explanations and practical examples, this easy-to-follow guide will teach you the fundamentals of the SwiftUI toolkit. You'll learn how to build a powerful iOS and iPadOS application that can be reused for deployment on watchOS. As you progress, you'll delve into UI and unit testing in iOS apps, along with learning how to test your SwiftUI code for multiple devices. The book will also show you how to integrate SwiftUI features such as data binding and network requests into your current application logic. By the end of this book, you will have learned how to build a cross-device application using the SwiftUI framework and Swift programming. What you will learnExplore the fundamentals of SwiftUI and compare it with existing UI frameworksWrite SwiftUI syntax and understand what should and shouldn't be included in SwiftUI's layerAdd text and images to a SwiftUI view and decorate them using SwiftUI's modifiersCreate basic forms, and use camera and photo library functions to add images to themUnderstand the core concepts of Maps in iOS apps and add a MapView in SwiftUIDesign extensions within your existing apps to run them on watchOSHandle networking calls in SwiftUI to retrieve data from external sourcesWho this book is for This SwiftUI book helps any mobile app

developer looking to understand the fundamentals of the new SwiftUI framework along with the benefits of cross-device development. A solid understanding of iOS and macOS app development, along with some knowledge of the Swift programming language, will be beneficial. Basic programming knowledge is essential to grasp the concepts covered in the book effectively.

IOS 10 Programming Fundamentals with Swift Matt Neuburg 2016-09-26 Move into iOS development by getting a firm grasp of its fundamentals, including the Xcode IDE, the Cocoa Touch framework, and Swift 3- the latest version of Apple's acclaimed programming language. With this thoroughly updated guide, you'll learn Swift's object-oriented concepts, understand how to use Apple's development tools, and discover how Cocoa provides the underlying functionality iOS apps need to have. Once you master the fundamentals, you'll be ready to tackle the details of iOS app development with author Matt Neuburg's companion guide, Programming iOS 10 .

SwiftUI Essentials - iOS 14 Edition Neil Smyth 2020-12-07 The goal of this book is to teach the skills necessary to build iOS 14 applications using SwiftUI, Xcode 12 and the Swift 5.3 programming language. Beginning with the basics, this book provides an outline of the steps necessary to set up an iOS development environment together with an introduction to the use of Swift Playgrounds to learn and experiment with Swift. The book also includes in-depth chapters introducing the Swift 5.3 programming language including data types, control flow, functions, object-oriented programming, property wrappers and error handling. An introduction to the key concepts of SwiftUI and project architecture is followed by a guided tour of Xcode in SwiftUI development mode. The book also covers the creation of custom SwiftUI views and explains how these views are combined to create user interface layouts including the use of stacks, frames and forms. Other topics covered include data handling using state properties in addition to observable, state and environment objects, as are key user interface design concepts such as modifiers, lists, tabbed views, context menus, user interface navigation, and outline groups. The book also includes chapters covering graphics drawing, user interface animation, view transitions and gesture handling, WidgetKit, document-based apps and SiriKit integration. Chapters are also provided explaining how to integrate SwiftUI views into existing UIKit-based projects and explains the integration of UIKit code into SwiftUI. Finally, the book explains how to package up a completed app and upload it to the App Store for publication. Along the way, the topics covered in the book are put into practice through detailed tutorials, the source code for which is also available for download. The aim of this book, therefore, is to teach you the skills necessary to build your own apps for iOS 14 using SwiftUI. Assuming you are ready to download the iOS 14 SDK and Xcode 12 and have an Apple Mac system you are ready to get started.

iOS 14 Programming for Beginners Ahmad Sahar 2020-11-27 Publisher's note: This edition from 2020 is outdated and does not make use of the most recent iOS and swift features. A new sixth edition, updated for iOS 15 and including new advanced topics, such as Mac Catalyst, SwiftUI, Swift Concurrency, and SharePlay, has now been published Key FeaturesExplore the latest features of Xcode 12 and the Swift 5.3 programming language in this updated fifth editionKick-start your iOS programming career and have fun building your own iOS appsDiscover the new features of iOS 14 such as Mac Catalyst, SwiftUI, widgets and App ClipsBook Description If you're looking to work and experiment with powerful iOS 14 features such as widgets and App Clips to create your own apps, this iOS programming guide is for you. The book offers a comprehensive introduction for experienced programmers who are new to iOS, taking you through the entire process of learning the Swift language, writing your own apps, and publishing them on the App Store. Fully updated to cover the new iOS 14 features, along with Xcode 12 and Swift 5.3, this fifth edition of iOS 14 Programming for Beginners starts with an introduction to the Swift programming language and shows you how to accomplish common programming tasks with it. You'll then start building the user interface (UI) of a complete real-world app using the storyboards feature in the latest version of Xcode and implement the code for views, view controllers, data managers, and other aspects of mobile apps. The book will also help you apply iOS 14 features to existing apps and introduce you to SwiftUI, a new way to build apps for all Apple devices. Finally, you'll set up testers for your app and understand what you need to do to publish your app on the App Store. By the end of this book, you'll not only be well versed in writing and publishing applications, but you'll also be able to apply your iOS development skills to enhance existing apps. What you will learnGet to grips with the fundamentals of Xcode 12 and Swift 5.3, the building blocks

of iOS developmentUnderstand how to prototype an app using storyboardsDiscover the Model-View-Controller design pattern and how to implement the desired functionality within an appImplement the latest iOS features, such as widgets and App ClipsConvert an existing iPad app into an Apple Silicon Mac appDesign, deploy, and test your iOS applications with design patterns and best practicesWho this book is for This book is for anyone who has programming experience but is new to Swift and iOS app development. Experienced programmers looking to explore the latest iOS 14 features will also find this book useful.

IOS App Distribution & Best Practices (First Edition) Pietro Rea 2021-04-21 Sharing Apple Apps With Your Team, Testers & the World You'll learn how to sign up for Apple Developer Program, generate the various certificates needed, configure your app and submit an app to the App Store for approval, both manually and through automated processes through automated pipelines. You'll learn how to use Apple TestFlight to add internal and external testers and receive feedback and crash reports. iOS App Distribution starts with explaining hurdles everyone faces, such as code signing, provisioning profiles, and how to do manual releases. It'll then go into more advanced topics, including distribution through TestFlight, build customization, automation, and continuous integration. Who This Book Is For This book is for beginner to experienced developers who want to know the best and most common workflow to release an app to the App store, as well as limiting frustration by troubleshooting and debugging common issues and problems associated with distributing apps. Topics Covered in iOS App Distribution & Best Practices App Store quick start: Your quickest way from no account to the App Store. Provisioning, code signing & entitlements: In-depth explanation of what they are, why you need them, and how they work. Distribution channels & TestFlight: Learn different ways of distributing your app, within an enterprise, with internal or external testers. App Store Connect: Learn about the Apple review process, what are the guidelines, what can go wrong and how to dispute them. Build customizations: Learn the ins and outs of configuring Xcode and build configurations. Build automation: Automate builds, build servers, and learn about tools such as fastlane. Continuous integration: Build your own CI pipeline to code, build, test, release, and repeat! After reading this book, you'll take your app build process and distribution to the next level, automate most of its tedious processes, and have an easier time debugging obscure app submission problem

Coding iPhone Apps for Kids Gloria Winquist 2017-05-15 Apple's Swift is a powerful, beginner-friendly programming language that anyone can use to make cool apps for the iPhone or iPad. In Coding iPhone Apps for Kids, you'll learn how to use Swift to write programs, even if you've never programmed before. You'll work in the Xcode playground, an interactive environment where you can play with your code and see the results of your work immediately! You'll learn the fundamentals of programming too, like how to store data in arrays, use conditional statements to make decisions, and create functions to organize your code—all with the help of clear and patient explanations. Once you master the basics, you'll build a birthday tracker app so that you won't forget anyone's birthday and a platform game called Schoolhouse Skateboarder with animation, jumps, and more! As you begin your programming adventure, you'll learn how to: –Build programs to save you time, like one that invites all of your friends to a party with just the click of a button! –Program a number-guessing game with loops to make the computer keep guessing until it gets the right answer –Make a real, playable game with graphics and sound effects using SpriteKit –Challenge players by speeding up your game and adding a high-score systemWhy should serious adults have all the fun? Coding iPhone Apps for Kids is your ticket to the exciting world of computer programming. Covers Swift 3.x and Xcode 8.x. Requires OS X 10.11 or higher.

Learning Swift Paris Buttfield-Addison 2016-05-02 Get hands-on experience with Apple's Swift programming language by building real working apps. With this practical guide, skilled programmers with little or no knowledge of Apple development will learn how to code with Swift 2 by developing three complete, tightly linked versions of the Notes application for the OS X, iOS, and watchOS platforms. In the process, you'll learn Swift's fundamentals, including its syntax and features, along with the basics of the Cocoa, CocoaTouch, and WatchKit frameworks. This book teaches you how to use common design patterns for Swift, how to structure an application for Apple's platforms, and how to submit working apps to the App Store. Divided into four distinct parts, this book includes: Swift 2 basics: Learn Swift's features for object-oriented development, as well as various developer tools OS X app development: Set up your app, work with its documents, and build out its features iOS app development: Use multimedia, contacts, location,

notifications, and iCloud files to build a fully featured iOS Notes app Advanced app extensions: Support Apple Watch and learn how to debug, monitor, and test all three of your Swift apps

Programming IOS 14 Matt Neuburg 2021 If you're grounded in the basics of Swift, Xcode, and the Cocoa framework, this book provides a structured explanation of all essential real-world iOS app components. Through deep exploration and copious code examples, you'll learn how to create views, manipulate view controllers, and add features from iOS frameworks. Create, arrange, draw, layer, and animate views that respond to touch Use view controllers to manage multiple screens of interface Master interface classes for scroll views, table views, collection views, text, popovers, split views, web views, and controls Dive into frameworks for sound, video, maps, and sensors Access user libraries: music, photos, contacts, and calendar Explore additional topics, including files, networking, and threads Stay up-to-date on iOS 14 innovations, such as: Control action closures and menus Table view cell configuration objects Collection view lists and outlines New split view controller architecture Pointer customization on iPad New photo picker and limited photos authorization Reduced accuracy location Color picker, new page control behavior, revised date pickers, and more! Want to brush up on the basics? Pick up iOS 14 Programming Fundamentals with Swift to learn about Swift, Xcode, and Cocoa. Together with Programming iOS 14 , you'll gain a solid, rigorous, and practical understanding of iOS 14 development.

iPhone Programming Aaron Hillegass 2010-04-13 Based on Big Nerd Ranch's popular iPhone Bootcamp class, iPhone Programming: The Big Nerd Ranch Guide leads you through the essential tools and techniques for developing applications for the iPhone, iPad, and iPod Touch. In each chapter, you will learn programming concepts and apply them immediately as you build an application or enhance one from a previous chapter. These applications have been carefully designed and tested to teach the associated concepts and to provide practice working with the standard development tools Xcode, Interface Builder, and Instruments. The guide's learn-while-doing approach delivers the practical knowledge and experience you need to design and build real-world applications. Here are some of the topics covered: Dynamic interfaces with animation Using the camera and photo library User location and mapping services Accessing accelerometer data Handling multi-touch gestures Navigation and tabbed applications Tables and creating custom rows Multiple ways of storing and loading data: archiving, Core Data, SQLite Communicating with web services ALocalization/Internationalization "After many 'false starts' with other iPhone development books, these clear and concise tutorials made the concepts gel for me. This book is a definite must have for any budding iPhone developer." –Peter Watling, New Zealand, Developer of BubbleWrap

Swift Programming Matthew Mathias 2016-11-23 This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Through the authors' carefully constructed explanations and examples, you will develop an understanding of Swift grammar and the elements of effective Swift style. This book is written for Swift 3.0 and will also show you how to navigate Xcode 8 and get the most out of Apple's documentation. Throughout the book, the authors share their insights into Swift to ensure that you understand the hows and whys of Swift and can put that understanding to use in different contexts. After working through the book, you will have the knowledge and confidence to develop your own solutions to a wide range of programming challenges using Swift.

Swift for Beginners Boisy G. Pitre 2015 NOTE: This edition is now out of date, and does not conform with the current version of Swift. Please check out the newer edition instead, which is ISBN 9780134289779. LEARNING A NEW PROGRAMMING LANGUAGE can be daunting. With Swift, Apple has lowered the barrier of entry for developing iOS and OS X apps by giving developers an innovative new programming language for Cocoa and Cocoa Touch. If you are new to Swift, this book is for you. If you have never used C, C++, or Objective-C, this book is definitely for you. With this handson guide, you'll quickly be writing Swift code, using Playgrounds to instantly see the results of your work. Author Boisy G. Pitre gives you a solid grounding in key Swift language concepts-including variables, constants, types, arrays, and dictionaries-before he shows you how to use Swift's innovative Xcode integrated development environment to create apps for iOS and OS X. THIS BOOK INCLUDES: Detailed instruction, ample illustrations, and clear examples Real-world guidance and advice Best practices from an experienced Mac and iOS developer

Emphasis on how to use Xcode, Playgrounds, and the REPL COMPANION WEBSITE: www.peachpit.com/swiftbeginners includes additional resources.

Learning Cocoa Apple Computer, Inc 2001 Cocoa is one of the principal application environments for Mac OS X; its advanced object-oriented APIs allow users to develop in both Java and Objective-C. This revolutionary new way of developing sophisticated applications for the Macintosh is both powerful and easy. Written by insiders at Apple Computer, this book provides information that can't be found anywhere else--giving users a potential leg up in the Mac OS X application development market.

Professional Swift Michael Dippery 2015-06-02 Transition from Objective-C to the cleaner, more functional Swift quickly and easily Professional Swift shows you how to create Mac and iPhone applications using Apple's new programming language. This code-intensive, practical guide walks you through Swift best practices as you learn the language, build an application, and refine it using advanced concepts and techniques. Organized for easy navigation, this book can be read end-to-end for a self-paced tutorial, or used as an on-demand desk reference as unfamiliar situations arise. The first section of the book guides you through the basics of Swift programming, with clear instruction on everything from writing code to storing data, and Section II adds advanced data types, advanced debugging, extending classes, and more. You'll learn everything you need to know to make the transition from Objective-C to Swift smooth and painless, so you can begin building faster, more secure apps than ever before. Get acquainted with the Swift language and syntax Write, deploy, and debug Swift programs Store data and interface with web services Master advanced usage, and bridge Swift and Objective-C Professional Swift is your guide to the future of OS X and iOS development.

Swift iOS Programming for Kids Steffen D. Sommer 2017-03-22 Unleash your child's developer potential through fun projects and help them learn how to create iOS apps in Swift About This Book Children can express their creativity while learning through interactive Swift Playgrounds Empower children to think critically about problems Learning programming basics can help children gain confidence in problem solving Help children put their imagination into action building their first iOS app Who This Book Is For Children who are curious about the technology we use in our daily lives and want to know how it works can use this book to learn about programming and building their first iOS app. No prior programming experience is necessary. What You Will Learn Basic programming and coding fundamentals Write code using the fun and interactive Swift Playgrounds app Make animations, including creating your own starry night Utilise functions by making pizza in code Create an interactive toy bin Learn how to use control flow statements to further enhance your toy bin Build a simple movie night app working with tableviews and arrays In Detail This book starts at the beginning by introducing programming through easy to use examples with the Swift Playgrounds app. Kids are regularly encouraged to explore and play with new concepts to support knowledge acquisition and retention – these newly learned skills can then be used to express their own unique ideas. Children will be shown how to create their first iOS application and build their very own movie night application. Style and approach This is a project-based guide with an engaging tone that uses a visually rich format. It explains the concepts in clear language and uses lots of pictures, cartoons, and examples. There is a set of practical exercises to be completed.

Mazes for Programmers Jamis Buck 2015 Part I. The basics : Your first random mazes : Preparing the grid ; The binary tree algorithm ; The sidewinder algorithm -- Automating and displaying your mazes : Introducing our basic grid ; Displaying a maze on a terminal ; Implementing the binary tree algorithm ; Rendering a maze as an image -- Finding solutions : Dijkstra's algorithm ; Implementing Dijkstra's ; Finding the shortest path ; Making challenging mazes ; Coloring your mazes -- Avoiding bias with random walks : Understanding biases ; The Aldous-Broder algorithm ; Implementing Aldous-Broder ; Wilson's algorithm ; Implementing Wilson's algorithm -- Adding constraints to random walks : The hunt-and-kill algorithm ; Implementing hunt-and-kill ; Counting dead ends ; The recursive backtracker algorithm ; Implementing the recursive backtracker -- Part II. New steps : Fitting mazes to shapes : Introducing masking ; Implementing a mask ; ASCII masks ; Image masks -- Going in circles : Understanding polar grids ; Drawing polar grids ; Adaptively subdividing the grid ; Implementing a polar grid -- Exploring other grids : Implementing a hex grid ; Displaying a hex grid ; Making hexagon (sigma) mazes ; Implementing a triangle grid ; Displaying a triangle grid ; Making triangle (delta) mazes -- Braiding and weaving your mazes : Braiding mazes ; Cost

versus distance ; Implementing a cost-aware Dikstra's algorithm ; Introducing weaves and insets ; Generating weave mazes -- Part III. More algorithms : Improving your weaving : Kruskal's algorithm ; Implementing randomized Kruskal's algorithm ; Better weaving with Kruskal ; Implementing better weaving -- Growing with Prim's : Introducing Prim's algorithm ; Simplified Prim's algorithm ; True Prim's algorithm ; The growing tree algorithm -- Combining, dividing : Eller's algorithm ; Implementing Eller's algorithm ; Recursive division ; Implementing recursive division -- Part IV. Extending mazes into hight dimensions : Understanding dimensions ; Introducing 3D mazes ; Adding a third dimension ; Displaying a 3D maze ; Representing four dimensions -- Bending and folding your mazes ; Cylinder mazes ; Möbius mazes ; Cube mazes ; Sphere mazes -- Summary of maze algorithms : Aldous-Broder ; Binary tree ; Eller's ; Growing tree ; Hunt-and-kill ; Kruskal's (randomized) ; Prim's (simplified) ; Prim's (true) ; Recursive backtracker ; Recursive division ; Sidewinder ; Wilson's -- Comparison of maze algorithms : Dead ends ; Longest path ; Twistiness ; Directness ; Intersections

Migrating to Swift from Flash and ActionScript Radoslava Leseva Adams 2016-10-17 Build on your knowledge of ActionScript to take the fast track developing iOS apps with Apple's latest language, Swift. Swift's syntax is easier to understand than Objective-C for people already familiar with ActionScript. At the same time it offers a number of new features and richer expressiveness than both ActionScript and Objective-C. Switching to a new platform usually involves migration on three levels: tools, workflow, and programming language. This book is structured as a guide that will help you on each level with step-by-step tutorials. Apart from the tutorials, it comes with recipes for some of the most popular mobile development topics: social network integration and messaging, taking advantage of device capabilities, networking and working with local and iCloud data, advertising in your app or game, and 2D and 3D graphics. The book also includes a final chapter that takes you through Apple's App Store submission process. Don't just build yourapps, sell them. What You Will Learn: Expand your development knowledge to native iOS programming with Swift Use the latest Xcode 7 IDE Migrate your existing ActionScript projects to Swift Create advanced UI, leverage the device hardware, integrate with social networks, take advantage of 2D and 3D graphics Diagnose your app quickly with Xcode's debugger and instruments Prepare and submit our iOS app in Apple's App Store Who This Book is For: Migrating to Swift from Flash and ActionScript is for Flash and Adobe AIR developers who want to move on to native iOS programming with the latest Apple Swift language. It's for the seasoned ActionScript programmer who is looking to add another language and platform to their tool belt quickly. Migrating to Swift from Flash and ActionScript is a good choice for developers who learn by doing and don't have time to read thick manuals and books for beginners in order to start programming in a new language.

How to Build a Billion Dollar App George Berkowski 2014-09-04 An accessible, step-by-step guide to building an app-based business—essential reading for anyone who has an idea for an app, but is unsure of where to start Apps have changed the way we communicate, shop, play, interact, and travel, and their phenomenal popularity has presented possibly the biggest business opportunity in history. InHow to Build a Billion Dollar App, serial tech entrepreneur George Berkowski—one of the minds behind the internationally successful taxi hailing app Hailo—gives you exclusive access to the secrets behind the success of the select group of apps that have achieved billion-dollar success. Berkowski draws exclusively on the inside stories of the billion-dollar app club members, including Instagram, Whatsapp, Snapchat, Candy Crush, Square, Viber, Clash of Clans, Angry Birds, Uber, and Flipboard to provide all the information you need to create your own spectacularly successful mobile business. He guides you through each step, from an idea scribbled on the back of an envelope, through to finding a cofounder, building a team, attracting (and keeping) millions of users, all the way through to juggling the pressures of being CEO of a billion-dollar company (and still staying ahead of the competition). If you've ever dreamed of quitting your nine to five job to launch your own company or you're a gifted developer, seasoned entrepreneur, or just intrigued by mobile technology, How to Build a Billion Dollar App will show you what itreally takes to create your own billion-dollar, mobile business.

App Architecture Chris Eidhof 2018-05-13 This book explains a range of application design patterns and their implementation techniques using a single example app, fully implemented in five design patterns. Instead of advocating for any particular pattern, we lay out the problems all architectures are trying to address: constructing the app's components, communicating between the view and the model, and handling non-model state. We show high-level solutions to these problems and break them down to the level of implementation for five different design patterns - two commonly used and three more experimental.The common architectures are Model-View-Controller and Model-View-ViewModel + Coordinator. In addition to explaining these patterns conceptually and on the implementation level, we discuss solutions to commonly encountered problems, like massive view controllers. On the experimental side we explain View-State-Driven Model-View-Controller, ModelAdapter-ViewBinder, and The Elm Architecture. By examining these experimental patterns, we extract valuable lessons that can be applied to other patterns and to existing code bases.

Learning Swift Jon Manning 2018 Annotation Get hands-on experience with Apple's Swift programming language by building real working apps. With this practical guide, skilled programmers with little or no knowledge of Apple development will learn how to code with Swift 3 by developing three complete, tightly linked versions of the Notes application for the OS X, iOS, and watchOS platforms.

Thinking in SwiftUI Florian Kugler 2020-03-16 SwiftUI is radically different from UIKit. So in this short book, we will help you build a mental model of how SwiftUI works. We explain the most important concepts in detail, and we follow them up with exercises to give you hands-on experience.SwiftUI is still a young framework, and as such, we don't believe it's appropriate to write a complete reference. Instead, this book focuses on transitioning your way of thinking from the object-oriented style of UIKit to the declarative style of SwiftUI.Thinking in SwiftUI is geared toward readers who are familiar with Swift and who have experience building apps in frameworks like UIKit.

Swift in Depth Tjeerd in 't Veen 2018-12-10 Summary Now updated for Swift 5! Swift is more than just a fun language to build iOS applications with. It features a host of powerful tools that, if effectively used, can help you create even better apps with clean, crystal-clear code and awesome features. Swift in Depth is designed to help you unlock these tools and quirks and get developing next-gen apps, web services, and more! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology It's fun to create your first toy iOS or Mac app in Swift. Writing secure, reliable, professional-grade software is a different animal altogether. The Swift language includes an amazing set of high-powered features, and it supports a wide range of programming styles and techniques. You just have to roll up your sleeves and learn Swift in depth. About the Book Swift in Depth guides you concept by concept through the skills you need to build professional software for Apple platforms, such as iOS and Mac; also on the server with Linux. By following the numerous concrete examples, enlightening explanations, and engaging exercises, you'll finally grok powerful techniques like generics, efficient error handling, protocol-oriented programming, and advanced Swift patterns. Author Tjeerd in 't Veen reveals the high-value, difficult-to-discover Swift techniques he's learned through his own hard-won experience. What's inside Covers Swift 5 Writing reusable code with generics Iterators, sequences, and collections Protocol-oriented programming Understanding map, flatMap, and compactMap Asynchronous error handling with ResultBest practices in Swift About the Reader Written for advanced-beginner and intermediate-level Swift programmers. About the Author Tjeerd in 't Veen is a senior software engineer and architect in the mobile division of a large international banking firm. Table of Contents Introducing Swift in depth Modeling data with enums Writing cleaner properties Making optionals second nature Demystifying initializers Effortless error handling Generics Putting the pro in protocol-oriented programming Iterators, sequences, and collections Understanding map, flatMap, and compactMap Asynchronous error handling with Result Protocol extensions Swift patterns Delivering quality Swift code Where to Swift from here

Build iOS Database Apps with Swift and SQLite Kevin Languedoc 2016-11-15 Discover the essential concepts and new iOS 10 SDK and Swift 3 programming language APIs to build iPhone and iPad database driven applications using the defacto standard for data storage for mobile apps, SQLite. You will learn about SQL operations, such as selecting, inserting, updating and deleting data using various data types like text, numerical types, images and even audio/video data. After working through this book, you will gain an expert view of developing iOS apps using SQlite as a data storage using Objective-C and Swift. With Build iOS Database Apps with Swift and SQLite you will also gain expert knowledge on how to create databases at runtime, including creating or modifying indexes, triggers, tables, columns, and views. The examples use

time-tested code from working applications. What You'll Learn: Create database and database applications using iOS and Swift Insert, select, edit, and delete records Extend SQLite Work with multi-database apps Use SQLite with Swift Backup online SQLite databases and more Who This Book Is For: Experienced Apple iOS, Swift programmers and developers.

Objective-C Programming Aaron Hillegass 2013-11-20 Want to write iOS apps or desktop Mac applications? This introduction to programming and the Objective-C language is your first step on the journey from someone who uses apps to someone who writes them. Based on Big Nerd Ranch's popular Objective-C Bootcamp, Objective-C Programming: The Big Nerd Ranch Guide covers C, Objective-C, and the common programming idioms that enable developers to make the most of Apple technologies. Compatible with Xcode 5, iOS 7, and OS X Mavericks (10.9), this guide features short chapters and an engaging style to keep you motivated and moving forward. At the same time, it encourages you to think critically as a programmer. Here are some of the topics covered: Using Xcode, Apple's documentation, and other tools Programming basics: variables, loops, functions, etc. Objects, classes, methods, and messages Pointers, addresses, and memory management with ARC Properties and Key-Value Coding (KVC) Class extensions Categories Classes from the Foundation framework Blocks Delegation, target-action, and notification design patterns Key-Value Observing (KVO) Runtime basics

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