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Programming in Objective-C 2.0
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Busi Phone Programming Learning Cocoa with Objective-C
Xcode 4 IOS Development iOS 14 Programming Fundamentals with Swift
Cocoa Programming for OS X Hello Swift! Building Cocoa Applications
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Cocoa and Objective-C: Up and Running Learning iOS 8 Game Development Using Swift
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Programming iOS 4 Learning Core Audio Learning Cocoa with Objective-C
NSHipster Learn Cocoa Touch for iOS Swift Pocket Reference Swift Development with Cocoa
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Swift For Dummies Cocoa Programming for Mac OS X Mastering macOS Programming
Beginner's Guide to IOS 12 App Development Using Swift 4 Learning Swift

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IOS and MacOS Performance Tuning

This is a step-by-step guide to developing applications for Apple's Mac OS X. It describes how to build object-oriented apps using Cocoa.

Programming in Objective-C 2.0

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

Swift Programming

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Take your macOS Sierra to the next level using the latest tools, designs, and best coding practices while developing with Swift 3.0 About This Book Learn to harness the power of macOS with the elegance of the Swift programming language Become highly competent in building apps on the macOS platform Get the most in-depth guide with a hands-on approach on the latest version of macOS Who This Book Is For This book is for developers who have some experience with macOS and want to take their skills to next level by unlocking the full potential of latest version of macOS with Swift 3 to build impressive applications. Basic knowledge of Swift will be beneficial but is not required. What You Will Learn Combine beautiful design with robust code for the very best user experience Bring the best coding practices to the new macOS Sierra See what's new in Swift 3.0 and how best to leverage the Swift language Master Apple's tools, including Xcode, Interface Builder, and Instruments Use Unix and other common command-line tools to increase productivity Explore the essential Cocoa frameworks, including networking, animation, audio, and video In Detail macOS continues to lead the way in desktop operating systems, with its tight integration across the Apple ecosystem of platforms and devices. With this book, you will get an in-depth knowledge of working on macOS, enabling you to unleash the full potential of the latest version using Swift 3 to build applications. This book will help you broaden your horizons by taking your programming skills to next level. The initial chapters will show you all about the environment that surrounds a developer at the start of a project. It introduces you to the new features that Swift 3 and Xcode 8 offers and also covers

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the common design patterns that you need to know for planning anything more than trivial projects. You will then learn the advanced Swift programming concepts, including memory management, generics, protocol orientated and functional programming and with this knowledge you will be able to tackle the next several chapters that deal with Apple's own Cocoa frameworks. It also covers AppKit, Foundation, and Core Data in detail which is a part of the Cocoa umbrella framework. The rest of the book will cover the challenges posed by asynchronous programming, error handling, debugging, and many other areas that are an indispensable part of producing software in a professional environment. By the end of this book, you will be well acquainted with Swift, Cocoa, and AppKit, as well as a plethora of other essential tools, and you will be ready to tackle much more complex and advanced software projects. Style and approach This comprehensive guide takes a hands-on practical approach incorporating a visually-rich format rather than a text heavy format. The focus is on teaching the core concepts through a series of small projects and standalone examples so you gain expertise with various aspects of macOS application development.

Introduction to Swift Programming-By GoLearningBus

Dive into the world of developing for all of Apple platforms with SwiftUI, Apple's new framework that makes writing applications faster and easier with fewer lines of code. This book teaches the basics of SwiftUI to help you write amazing native

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applications using XCode. For developers already familiar with ReactNative, this book reviews the declarative, state-based DSL that manages the UI and updates it automatically will feel just like what they're used to. You'll see how SwiftUI reduces the number of lines of code required to achieve the same effects by over 60% and provides a much better experience. Like the announcement of Swift in 2014, SwiftUI is expected to fundamentally change the way developing programmers approach coding iPhone and iPad applications. This book examines how SwiftUI lowers the entry barrier for developers to write amazing cross-platform applications for iOS and iPadOS as well as WatchOS, Mac OS, and TVOS. What You'll Learn Write code in the new SwiftUI syntax Combine views to arrange them for an application Add gestures and controls to an application Who This Book Is For Anyone who wants to learn to develop apps for the Mac, iPhone, iPad, and Apple Watch using the Swift programming language. No previous programming experience is necessary.

iPhone Programming

The iPhone is one of the hottest mobile devices on the planet. Whether you are just starting out with iOS Development or already have some knowledge in this area, you will benefit from what this book covers. Using this book's straightforward, step-by-step approach, you will go from Xcode 4 apprentice to Xcode 4 Jedi master in no time. Xcode 4 iOS Development Beginner's Guide will help you learn to build

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simple, yet powerful applications for the iPhone from the ground up. You will master the Xcode 4 tools and skills needed to create applications that are simple yet, like Yoda, punch far above their weight. You will start by learning about the Xcode 4 Development Tools, Xcode IDE, iOS Simulator, Objective-C 2, and Organizer. Then you will jump straight in and create applications using Xcode and Interface Builder. You finish up by learning how to build, package, and distribute your application to the Apple App Store. This book will teach you how to go about building simple applications from scratch, you will master how to download and install the Xcode 4 Development Tools, get to know the development environment and how to build great user interfaces (using Interface Builder), learn about the different iOS frameworks, learn how to implement video and audio playback, learn how to sense motion using the Accelerometer and Gyroscope, and how to improve the reliability and performance of your applications. After reading Xcode 4 iOS Development Beginner's Guide, you will be able to write your own applications for the iPhone with supreme efficiency. There are a lot of examples and images provided to get you up to speed quickly. Using this book's easy to follow step-by-step approach you will harness Xcode 4's firepower to create some stunning applications for your iPhone What you will learn from this book : Install and configure a set of frameworks to make your life easier for developing iPhone applications Download and install the Xcode 4 Development Tools Get started with Apple's Objective-C and Cocoa Touch Understand the Model-View-Controller (MVC) development paradigm Implement application input and views Build rotatable and

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resizable user interfaces Read and write data using the Core-Data framework Use the iPhone's media playback to play sounds and videos Create map and location-based services Sense motion using the Accelerometer and Gyroscope Manage source code with the Version Editor Use instruments to make your applications run smoothly Build, package and distribute your applications through the App Store Approach This step-by-step book guides you through the process of creating awesome iOS apps using Xcode 4. As a beginner's guide, it focuses on getting you through all the major learning points in a smooth, logical order while showing you how to avoid some common pitfalls. Who this book is written for If you want to learn how to build iOS applications that compete with the rest and make your mark within the iOS industry, this book is for you. You should have some basic programming experience with Objective-C, and a good understanding of OOP, as well as some knowledge of database design. No knowledge of Xcode 4 is required.

Learning Cocoa with Objective-C

* * * * * GoLearningBus: A quality product from WAG Mobile Inc !!! * * * * * Focus of GoLearningBus is to make education enjoyable, entertaining, and exciting for everyone. GoLearningBus brings you, simpleNeasy, on-the-go learning eBook for "Introduction to Swift Programming". The eBook provides: 1. Snack sized chapters for easy learning. 2. Simple and easy quizzes for self-assessment. 3. Code Samples for practice. Designed for both students and adults. This eBook provides a quick

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summary of essential concepts in Swift Programming by following snack sized chapters: Introduction to Swift, Swift Tools, Let's Write Some Code in Swift, Swift Basics, Swift Variables and Data Types, Operators, Controlling Program Flow, Functions, Classes and Structures, Properties and Methods, Inheritance, Enumeration, Memory Management, Using Swift with Cocoa and Objective C. About GoLearningBus eBooks: 1) A companion eBook for on-the-go, bite-sized learning. 2) Over Three million paying customers from 175+ countries. Why GoLearningBus eBooks: 1) Beautifully simple, Amazingly easy, Massive selection of eBooks. 2) Effective, Engaging and Entertaining eBooks. 3) An incredible value for money. Lifetime of free updates! GoLearningBus Vision : simpleNeasy eBooks for a lifetime of on-the-go learning GoLearningBus Mission : A simpleNeasy GoLearningBus eBook in every hand. Visit us : www.GoLearningBus.com Please write to us at Team@WAGmob.com. We would love to improve this eBook.

Xcode 4 IOS Development

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

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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

iOS 14 Programming Fundamentals with Swift

Harness the power of the latest edition with this in-depth and comprehensive guide to the Swift language Key Features Fifth edition of this bestselling book, improved and updated to cover the latest version of the Swift 5 programming language Get to grips with popular and modern design techniques to write easy-to-manage Swift code Learn how to use core Swift features such as concurrency, generics, and copy-on-write in your code Book Description Over the years, the Mastering Swift book has established itself amongst developers as a popular choice as an in-depth and practical guide to the Swift programming language. The latest edition is fully updated and revised to cover the new version: Swift 5. Inside this book, you'll find the key features of Swift 5 easily explained with complete sets of examples. From

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the basics of the language to popular features such as concurrency, generics, and memory management, this definitive guide will help you develop your expertise and mastery of the Swift language. Mastering Swift 5, Fifth Edition will give you an in-depth knowledge of some of the most sophisticated elements in Swift development, including protocol extensions, error handling, and closures. It will guide you on how to use and apply them in your own projects. Later, you'll see how to leverage the power of protocol-oriented programming to write flexible and easier-to-manage code. You will also see how to add the copy-on-write feature to your custom value types and how to avoid memory management issues caused by strong reference cycles. What you will learn

- Understand core Swift components, including operators, collections, control flows, and functions
- Learn how and when to use classes, structures, and enumerations
- Understand how to use protocol-oriented design with extensions to write easier-to-manage code
- Use design patterns with Swift, to solve commonly occurring design problems
- Implement copy-on-write for you custom value types to improve performance
- Add concurrency to your applications using Grand Central Dispatch and Operation Queues
- Implement generics to write flexible and reusable code

Who this book is for This book is for developers who want to delve into the newest version of Swift. If you are a developer and learn best by looking at and working with code, then this book is for you. A basic understanding of Apple's tools would be beneficial but not mandatory. All examples should work on the Linux platform as well.

Cocoa Programming for OS X

Learning Cocoa with Objective-C is the "must-have" book for people who want to develop applications for Mac OS X, and is the only book approved and reviewed by Apple engineers. Based on the Jaguar release of Mac OS X 10.2, this edition of Learning Cocoa includes examples that use the Address Book and Universal Access APIs. Also included is a handy quick reference card, charting Cocoa's Foundation and AppKit frameworks, along with an Appendix that includes a listing of resources essential to any Cocoa developer--beginning or advanced. Completely revised and updated, this 2nd edition begins with some simple examples to familiarize you with the basic elements of Cocoa programming as well Apple's Developer Tools, including Project Builder and Interface Builder. After introducing you to Project Builder and Interface Builder, it brings you quickly up to speed on the concepts of object-oriented programming with Objective-C, the language of choice for building Cocoa applications. From there, each chapter presents a different sample program for you to build, with easy to follow, step-by-step instructions to teach you the fundamentals of Cocoa programming. The techniques you will learn in each chapter lay the foundation for more advanced techniques and concepts presented in later chapters. You'll learn how to: Effectively use Apple's suite of Developer Tools, including Project Builder and Interface Builder Build single- and multiple-window document-based applications Manipulate text data using Cocoa's text handling capabilities Draw with Cocoa Add scripting functionality to your

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applications Localize your application for multiple language support Polish off your application by adding an icon for use in the Dock, provide Help, and package your program for distribution Each chapter ends with a series of Examples, challenging you to test your newly-learned skills by tweaking the application you've just built, or to go back to an earlier example and add to it some new functionality. Solutions are provided in the Appendix, but you're encouraged to learn by trying. Extensive programming experience is not required to complete the examples in the book, though experience with the C programming language will be helpful. If you are familiar with an object-oriented programming language such as Java or Smalltalk, you will rapidly come up to speed with the Objective-C language. Otherwise, basic object-oriented and language concepts are covered where needed.

Hello Swift!

Learn reactive programming in Swift with RxSwift! The popularity of reactive programming continues to grow on an ever-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. Who This Book Is For

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This book 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 the UI of your apps using RxCocoa, which provides an integration of both UIKit and Cocoa.
- Intermediate Topics Level up your RxSwift knowledge with chapters on reactive networking, multi-threading, and error handling.
- Advanced Topics Round out your RxSwift education by learning about MVVM app architecture, scene-based navigation, and exposing data via services. 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!

Building Cocoa Applications

Get a solid grounding in all the fundamentals of Cocoa Touch, and avoid problems during iPhone and iPad app development. With Programming iOS 4, you'll dig into Cocoa and learn how to work effectively with Objective-C and Xcode. This book

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covers iOS 4 in a rigorous, orderly fashion—ideal whether you're approaching iOS for the first time or need a reference to bolster existing skills. Learn Objective-C language details and object-oriented programming concepts Understand the anatomy of an Xcode project and all the stages of its lifecycle Grasp key Cocoa concepts such as relationships between classes, receiving events, and model-view-controller architecture Know how views are managed, drawn, composited, and animated Delve into Cocoa frameworks for sound, video, sensors, maps, and more Touch on advanced topics such as threading and networking Obtain a thorough grounding for exploring advanced iOS features on your own

Learning Swift

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

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Programming iOS 13

To be an NSHipster is to care deeply about the craft of writing code. In cultivating a deep understanding and appreciation of Objective-C, its frameworks and ecosystem, one is able to create apps that delight and inspire users. Combining articles from NSHipster.com with new essays, this book is the essential guide for modern iOS and Mac OS X developers.

Swift OS X Programming for Absolute Beginners

Cocoa and Objective-C: Up and Running

Swift is the future of Apple programming - the heir apparent to Objective-C, and that's good news! Designed from the ground up to be a simpler programming language, it's now easier than ever to get started creating apps for iPhone or iPad, or applications for Mac OS X! Trust Dummies to get you off to a strong start with Swift, whether you are an existing Objective-C programmer looking to port your code to Swift or even if you've never programmed for Apple in the past. Find out how to set up Xcode for a new Swift applications, use operators, objects, and data types; control program flow with conditional statement; and create new functions,

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statements, and declarations. Learn useful patterns in an object-oriented environment and take advantage of frameworks to speed your coding along. Find out how Swift does away with pointer variables and how to reference and dereference variables instead. Existing programmers will find out how to quickly port existing objective-c applications into Swift and get into the swing of the new language very swiftly. In the book, you'll find coverage of:

- Moving existing Objective-C code to Swift
- Operators
- Collections and objects
- Data types
- Controlling data flow
- Creating and using functions
- Expressions
- Statements
- Patterns, generic parameters, and arguments
- Initializing and deinitializing data
- Closures
- Classes
- Methods
- Memory management with automatic reference counting
- Casting and nesting types
- Using extensions and protocols

Learning iOS 8 Game Development Using Swift

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, text, popovers, split views, web views, and controls. Dive into frameworks for sound, video, maps, and sensors. Access user

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libraries: music, photos, contacts, and calendar Explore files, networking, and threads Stay up-to-date on iOS 13 innovations, such as: Symbol images Light and dark mode Sheet presentation Diffable data sources and compositional layout Context menus and previews Window scene delegates and multiple windows on iPad Want to brush up on the basics? Pick up iOS 13 Programming Fundamentals with Swift to learn about Swift, Xcode, and Cocoa. Together with Programming iOS 13, you'll gain a solid, rigorous, and practical understanding of iOS 13 development.

RxSwift

Covering the bulk of what you need to know to develop full-featured applications for OS X, this edition is updated for OS X Yosemite (10.10), Xcode 6, and Swift. Written in an engaging tutorial style and class-tested for clarity and accuracy, it is an invaluable resource for any Mac programmer. The authors introduce the two most commonly used Mac developer tools: Xcode and Instruments. They also cover the Swift language, basic application architecture, and the major design patterns of Cocoa. Examples are illustrated with exemplary code, written in the idioms of the Cocoa community, to show you how Mac programs should be written. After reading this book, you will know enough to understand and utilize Apple's online documentation for your own unique needs. And you will know enough to write your own stylish code. This edition was written for Xcode 6.3 and Swift 1.2. At WWDC 2015, Apple announced Xcode 7 and Swift 2, both of which introduce significant

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updates that (along with some changes to Cocoa for OS X 10.11) affect some of the exercises in this book. We have prepared a companion guide listing the changes needed to use Xcode 7 to work through the exercises in the book; it is available at <https://github.com/bignerdranch/cocoa-programming-for-osx-5e/blob/master/Swift2.md>.

Mastering Swift 5

Provides step-by-step instructions for learning Cocoa, discussing such topics as Objective-C, controls, helper objects, archiving, Nib files and NSWindowController, and creating interface builder palettes.

Learn Swift by Building Applications

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

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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 5 for Absolute Beginners

Ready to build apps for iPhone, iPad, and Mac now that Swift has landed? If you're an experienced programmer who's never touched Apple developer tools, this hands-on book shows you how to use the Swift language to make incredible iOS and OS X apps, using Cocoa and Cocoa Touch. Learn how to use Swift in a wide range of real-world situations, with Cocoa features such as Event Kit and Core Animation. You'll pick up Swift language features and syntax along the way, and understand why using Swift (instead of Objective-C) makes iOS and Mac app development easier, faster, and safer. You'll also work with several exercises to help you practice as you learn. Learn the OS X and iOS application lifecycle Use storyboards to design adaptive interfaces Explore graphics systems, including the built-in 2D and 3D game frameworks Display video and audio with AVFoundation Store data locally with the file system, or on the network with iCloud Display lists or collections of data with table views and collection views Build apps that let users create, edit, and work with documents Use MapKit, Core Location, and Core Motion to interact with the world

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Swift for Beginners

In iOS and macOS(TM) Performance Tuning, Marcel Weiher drills down to the code level to help you systematically optimize CPU, memory, I/O, graphics, and program responsiveness in any Objective-C, Cocoa, or CocoaTouch program. This up-to-date guide focuses entirely on performance optimization for macOS and iOS. Drawing on more than 25 years of experience optimizing Apple device software, Weiher identifies concrete performance problems that can be discovered empirically via measurement. Then, based on a deep understanding of fundamental principles, he presents specific techniques for solving them. Weiher presents insights you won't find anywhere else, most of them applying to both macOS and iOS development. Throughout, he reveals common pitfalls and misconceptions about Apple device performance, explains the realities, and helps you reflect those realities in code that performs beautifully. Understand optimization principles, measurement, tools, pitfalls, and techniques Recognize when to carefully optimize, and when it isn't worth your time Balance performance and encapsulation to create efficient object representations, communication, data access, and computation Avoid mistakes that slow down Objective-C programs and hinder later optimization Fix leaks and other problems with memory and resource management Address I/O issues associated with drives, networking, serialization, and SQLite Code graphics and UIs that don't overwhelm limited iOS device resources Learn what all developers need to know about Swift performance This book's source code can be downloaded at

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github.com/mpw/iOS-macOS-performance. Register your product at informit.com/register for convenient access to downloads, updates, and corrections as they become available. Normal 0 false false false EN-US X-NONE X-NONE

Cocoa and Objective-C Cookbook

Apple Watch is the sort of science-fiction gadget that people used to dream about as kids. What kinds of apps do you envision for this new device? If you're comfortable using OS X, Xcode, and iOS—and familiar with Swift—this concise book shows you the basics of building your own apps for this wrist-mounted computer with Apple's WatchKit framework. You'll learn what an Apple Watch is, what it isn't, and how and why people might interact with apps you build for it. This practical guide also examines the type of apps most suitable for this device, and shows you how to be a good citizen in the iOS/Watch ecosystem. Learn the Watch app lifecycle, and understand how these apps interact with the user's iPhone Build a Watch app and its iOS counterpart by adding controls, working with multiple screens, and sharing data Design a simple glance, the non-interactive Watch component that provides quick-look information Add functionality to the notification system, including actionable items, and display them on the Watch face Design and build complications, Watch-face gadgets that can display quick snapshots of information, including future events with Time Travel

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SwiftUI for Absolute Beginners

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

- Swift 4 basics: Learn Swift's basic building blocks and the features of object-oriented development
- Building the Selfiegram app: Build model objects and the UI for your selfie app and add location support, user settings, and notifications
- Polishing Selfiegram: Create a theme and support for sharing and add custom views, image overlays, and localization
- Beyond app development: Debug and performance test with Xcode, automate chores with Fastlane, and user-test the app with TestFlight

Swift Programming

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Audio can affect the human brain in the most powerful and profound ways. Using Apple's Core Audio, you can leverage all that power in your own Mac and iOS software, implementing features ranging from audio capture to real-time effects, MP3 playback to virtual instruments, web radio to VoIP support. The most sophisticated audio programming system ever created, Core Audio is not simple. In *Learning Core Audio*, top Mac programming author Chris Adamson and legendary Core Audio expert Kevin Avila fully explain this challenging framework, enabling experienced Mac or iOS programmers to make the most of it. In plain language, Adamson and Avila explain what Core Audio can do, how it works, and how it builds on the natural phenomena of sound and the human language of audio. Next, using crystal-clear code examples, they guide you through recording, playback, format conversion, Audio Units, 3D audio MIDI connectivity, and overcoming unique challenges of Core Audio programming for iOS. Coverage includes: mastering Core Audio's surprising style and conventions; recording and playback with Audio Queue; synthesizing audio; perform effects on audio streams; capturing from the mic; mixing multiple streams; managing file streams; converting formats; creating 3D positional audio; using Core MIDI on the Mac; leveraging your Cocoa and Objective-C expertise in Core Audio's C-based environment, and much more. When you've mastered the "black arts" of Core Audio, you can do some serious magic. This book will transform you from an acolyte into a true Core Audio wizard.

Swift Development for the Apple Watch

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THE #1 BESTSELLING BOOK ON OBJECTIVE-C 2.0 Programming in Objective-C 2.0 provides the new programmer a complete, step-by-step introduction to Objective-C, the primary language used to develop applications for the iPhone, iPad, and Mac OS X platforms. The book does not assume previous experience with either C or object-oriented programming languages, and it includes many detailed, practical examples of how to put Objective-C to use in your everyday iPhone/iPad or Mac OS X programming tasks. A powerful yet simple object-oriented programming language that's based on the C programming language, Objective-C is widely available not only on OS X and the iPhone/iPad platform but across many operating systems that support the gcc compiler, including Linux, Unix, and Windows systems. The second edition of this book thoroughly covers the latest version of the language, Objective-C 2.0. And it shows not only how to take advantage of the Foundation framework's rich built-in library of classes but also how to use the iPhone SDK to develop programs designed for the iPhone/iPad platform.

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Programming iOS 4

Build solid applications for Mac OS X, iPhone, and iPod Touch, regardless of whether you have basic programming skills or years of programming experience. With this book, you'll learn how to use Apple's Cocoa framework and the Objective-C language through step-by-step tutorials, hands-on exercises, clear examples, and sound advice from a Cocoa expert. Cocoa and Objective-C: Up and Running offers just enough theory to ground you, then shows you how to use Apple's rapid development tools -- Xcode and Interface Builder -- to develop Cocoa applications, manage user interaction, create great UIs, and more. You'll quickly gain the experience you need to develop sophisticated Apple software, whether you're somewhat new to programming or just new to this platform. Get a quick hands-on tour of basic programming skills with the C language Learn how to use Interface Builder to quickly design and prototype your application's user interface Start using Objective-C by creating objects and learning memory management Learn about the Model-View-Controller (MVC) method of sharing data between objects Understand the Foundation value classes, Cocoa's robust API for storing common

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data types Become familiar with Apple's graphics frameworks, and learn how to make custom views with AppKit

Learning Core Audio

Learning Cocoa with Objective-C

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

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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.

NSHipster

Swift OS X Programming for Absolute Beginners is your step-by-step guide to learning how to code using Swift, Apple's hottest new programming language. This book will not only teach complete programming novices how to write OS X programs, but it can also help experienced programmers moving to the Macintosh for the first time. You will learn to understand the principles of programming, how to use Swift and Xcode, and how to combine your knowledge into writing OS X programs. If you've always wanted to learn coding but felt stymied by the limitation of simplistic programming languages or intimidated by professional but complicated programming languages, then you'll want to learn Swift. Swift is your gateway to both Macintosh and iOS app development while being powerful and easy to learn at the same time, and Swift OS X Programming for Absolute Beginners is the perfect place to start - add it to your library today.

Learn Cocoa Touch for iOS

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This book is for novices as well as proficient game developers who want to learn more about game development using Swift. If you are from a 2D game development background and would like to learn the basics of 3D game development, this book is for you. Additionally, if you want to learn the basics of graphics programming and shaders, this book will be a good starting point.

Swift Pocket Reference

Annotation Much of Cocoa is implemented in Objective-C, an object-oriented language that is designed to run at high speed. In order to build powerful Cocoa applications you need more than the basics. This cookbook will provide you with the recipes needed to add Core Animation, gestures, Key Value Coding, and QuickTime to your applications. The Cocoa and Objective-C Cookbook moves developers beyond the basics of developing with Apple's Cocoa framework. It will help you grasp advanced topics needed to build polished Cocoa applications on Mac OS X. The cookbook provides a comprehensive overview of Cocoa's more popular UI components found in all Mac OS X applications. It has recipes for building custom views, adding support for gestures and working with keyboard and mouse events. There are recipes for using singleton, delegation, and factory design patterns in your own application's architecture. Alongside essential recipes for working with databases and debugging you will also find fun recipes covering animation and multimedia. The Cocoa and Objective-C Cookbook will quickly bring

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you up to speed with advanced technologies used to build complex applications for Mac OS X. What you will learn from this book : Use Core Animation to swap and flip views Handle the pinch, swipe, and rotate gestures in your custom views Safely store and retrieve passwords using the Keychain Access API Understand the CA Layers to add smooth animations to your application's user interface Add audio and QuickTime movies into your application Incorporate MySQL and SQLite into your application to store and retrieve data Use advanced debugging techniques and tools Build the foundation of your application using basic UI components such as the table view, outline view, and web view Approach Written in a cookbook style, this book offers solutions using a recipe-based approach. Each recipe contains step-by-step instructions followed by an analysis of what was done in each task and other useful information. The cookbook approach means you can dive into whatever recipes you want in no particular order. Who this book is written for This book is perfect for the Mac OS X Cocoa developer who is ready to move beyond the basics and dive into more advanced Cocoa topics. The cookbook format lets you jump right into the examples without the lengthy explanations you often find in other books. Basic familiarity with Cocoa and Objective-C development is required.

Swift Development with Cocoa

Data science has taken the world by storm. Every field of study and area of

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business has been affected as people increasingly realize the value of the incredible quantities of data being generated. But to extract value from those data, one needs to be tra

iOS 11 App Development Essentials

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

R Programming for Data Science

Bakshi provides an approachable, well-illustrated, step-by-step guide that teaches young readers how to program using the Swift language while they develop iOS apps. The author presents readers with a how-to guide to creating their first simple app, written from a kid's perspective.

Objective-C Programming

Get quick answers for developing and debugging applications with Swift, Apple's multi-paradigm programming language. Updated to cover the latest features in Swift 2.0, this pocket reference is the perfect on-the-job tool for learning Swift's modern language features, including type safety, generics, type inference, closures, tuples, automatic memory management, and support for Unicode. Designed to work with Cocoa and Cocoa Touch, Swift can be used in tandem with Objective-C, and either language can call APIs implemented in the other. Swift is still evolving, but Apple clearly sees it as the future language of choice for iOS and OS X software development. Topics include: Supported data types, such as strings, arrays, array slices, sets, and dictionaries Program flow: loops, conditional execution, and error handling Classes, structures, enumerations, and functions Protocols, extensions, and generics Memory management Closures: similar to

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blocks in Objective-C and lambdas in C# Optionals: values that can explicitly have no value Operators, operator overloading, and custom operators Access control: restricting access to types, methods, and properties Ranges, intervals, and strides A full list of built-in global functions and their parameter requirements

Swift For Dummies

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

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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.

Cocoa Programming for Mac OS X

Get up to speed on Cocoa and Objective-C, and start developing applications on the iOS and OS X platforms. If you don't have experience with Apple's developer tools, no problem! From object-oriented programming to storing app data in iCloud, the fourth edition of this book covers everything you need to build apps for the

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iPhone, iPad, and Mac. You'll learn how to work with the Xcode IDE, Objective-C's Foundation library, and other developer tools such as Event Kit framework and Core Animation. Along the way, you'll build example projects, including a simple Objective-C application, a custom view, a simple video player application, and an app that displays calendar events for the user. Learn the application lifecycle on OS X and iOS Work with the user-interface system in Cocoa and Cocoa Touch Use AV Foundation to display video and audio Build apps that let users create, edit, and work with documents Store data locally with the file system, or on the network with iCloud Display lists or collections of data with table views and collection views Interact with the outside world with Core Location and Core Motion Use blocks and operation queues for multiprocessing

Mastering macOS Programming

The Cocoa Touch frameworks and APIs are powerful tools for creating native iOS apps, and they're free with Xcode, Apple's development environment. If you've already gotten your feet wet with Objective-C, and you're ready to learn more about iOS development, then Learn Cocoa Touch for iOS is the book for you. You'll learn on the job - building cool apps as you read through the book that will teach you what you need to know to use Cocoa Touch and prepare you for creating your own apps. Learn Cocoa Touch for iOS shows you how to use frameworks like MapKit, Twitter, and MediaPlayer. You'll also learn about hardware APIs so you can

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get the most out of your accelerometer, camera, and more. You'll even learn about more advanced features like Grand Central Dispatch. A home inventory management system A live-updating Twitter client A photo browser with an animated slideshow If you're ready for the next step toward becoming a Cocoa Touch master, this is the book for you. What you'll learn Get up and running with Xcode and Apple's other development tools Discover the Objective-C language and when to use the underlying C language Use the Model-View-Controller (MVC) paradigm to create well-designed apps Implement network services in your apps Animate screen components with UIKit animations Get awesome performance with multithreaded code Who this book is for Novice or intermediate programmers who want to create engaging iOS applications and get in-depth coverage of Cocoa Touch. Table of Contents Getting Started: Xcode and Hello World Objective-C in a Nutshell Memory Management and ARC Model-View-Controller Programming: Well-Designed Code The Delegation Pattern Managing On-Screen Content with View Controllers Providing Lists of Content with Table Views Nib Loading In-Depth Parent and Child View Controllers Handling User Touches Saving Content in Your App Moving Data Around Core Data Integrating Networking and Web Services Writing Modern Code with Blocks Managing What Happens When Timers Run Loops Grand Central Dispatch User Interface Design Custom UIView Subclasses Creating Dynamic User Interfaces with CoreGraphics Animation with UIKit and CoreAnimation Hardware APIs: Accelerometer, Camera, etc. Media in Your App: Playing Audio and Video Localization and Internationalization: Maximizing Your

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App's Reach

Beginner's Guide to IOS 12 App Development Using Swift 4

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

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Learning Swift

This book covers iOS 12 app design fundamentals using the latest Swift 4.2 programming language, Xcode 10 and iOS 12 SDK. The author assumes you have no experience in app development. The book starts with the installation of the required programming environment and setting up the simulators. Then, the simplest "Hello World" app is developed step by step. In the next chapter, basics of the Swift 4.2 programming language are given with practical examples. Screenshots and code snippets are clearly given in the book to guide the reader. After the Swift lecture, 7 real world apps are developed again by step by step instructions. Each code line is explained. As the reader follows the development of the example apps, he/she will learn designing user interfaces, connecting interface objects to code, developing efficient Swift code and testing the app in simulators and real devices. Sample apps developed in this book are as follows: 1. Disco lights app: Learn the basics of app development and use buttons in your code. 2. Body mass index (BMI) calculator app: Using input boxes, performing calculations and displaying the results on the screen. 3. Simple die roller app: Using random number generator functions, including image sets in your project, displaying images on the screen and changing the displayed image using Swift code. 4. Exercise calorie calculator app: Using global variables, creating tabbed apps and utilizing segmented controls. 5. Show my location app: Adding a map object to your app, setting required permissions, accessing GPS device and showing real

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time location on the map. 6. SOS sender app: Adding SMS functionality, setting required permissions and sending real time location using SMS. 7. Bounce the ball game: Basics of SpriteKit that is used to develop 2D iOS games, adding objects to the game, sensing screen touches, moving game objects according to touches, combining all these and more to develop a complete ball bouncing game. This book includes 214 figures and 101 code snippets that are used to explain app development concepts clearly. Full resolution colour figures and complete project files can be viewed and downloaded from the the book's website: www.yamaclis.com/ios12.

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