

# The Core Application

Every iPhone application is built using the UIKit framework and therefore has essentially the same core architecture. UIKit provides the key objects needed to run the application and to coordinate the handling of user input and the display of content on the screen. Where applications deviate from one another is in how they configure these default objects and also where they incorporate custom objects to augment their application's user interface and behavior.

Although customizations to your application's user interface and basic behavior occur down within your application's custom code, there are many customizations that you must make at the highest levels of the application. Because these application-level customizations affect the way your application interacts with the system and other applications installed on a device, it is important to understand when you need to act and when the default behavior is sufficient. This chapter provides an overview of the core application architecture and the high-level customization points to help you make determinations about when to customize and when to use the default behavior.

**Important:** The UIKit classes are generally not thread safe. All work related to your application's user interface should be performed on your application's main thread.

## Core Application Architecture

From the time your application is launched by the user, to the time it exits, the UIKit framework manages the majority of the application's key infrastructure. An iPhone application receives events continuously from the system and must respond to those events. Receiving the events is the job of the UIApplication object but responding to the events is the responsibility of your custom code. In order to understand where you need to respond to events, though, it helps to understand a little about the overall life cycle and event cycles of an iPhone application. The following sections describe these cycles and also provide a summary of some of the key design patterns used throughout the development of iPhone applications.

### The Application Life Cycle

The application life cycle constitutes the sequence of events that occurs between the launch and termination of your application. In iPhone OS, the user launches your application by tapping its icon on the Home screen. Shortly after the tap occurs, the system displays some transitional graphics and proceeds to launch your application by calling its main function. From this point on, the bulk of the initialization work is handed over to UIKit, which loads the application's user interface and readies its event loop. During the event loop, UIKit coordinates the delivery of events to your custom objects and responds to commands issued by your application. When the user performs an action that would cause your application to quit, UIKit notifies your application and begins the termination process.

Figure 1-1 depicts the simplified life cycle of an iPhone application. This diagram shows the sequence of events that occur from the time the application starts up to the time it quits. At initialization and termination, UIKit sends specific messages to the application delegate object to let it know what is happening. During the event loop, UIKit dispatches events to your application's custom event handlers. Handling initialization and termination events is discussed later in "Initialization and Termination," and the event handling process is introduced in "The Event-Handling Cycle" and covered in more detail in later chapters.

Figure 1-1 Application life cycle

# Iphone Application Programming Guide

**Rachel S Tattersall**



## **iPhone Application Programming Guide:**

*iPhone® Application Development For Dummies®* Neal Goldstein, 2010-09-14 Start building iPhone apps today with this friendly guide Whether you re a beginner programmer who wants to build your first app or a professional developer looking to leverage the marketing power of the iPhone SDK this book walks you through the basics for building a variety of applications Plus you ll get invaluable advice on navigating the App Store so you can make money off of your original creations This new edition covers all the latest information you need to know to get started developing apps immediately Walks you through the fundamentals of developing a variety of applications for the iPhone Covers the latest updates for the iPad universal code and the new iPhone SDK Delves into getting your apps in the App Store and selling them Shows you how to use Apple s developer tools Addresses the universal code feature that allows you to develop apps and port them from the iPhone to the iPad and back No matter your level of experience or expertise *iPhone Application Development For Dummies* 3rd Edition enables you to leverage the power of the open iPhone SDK so you can start developing apps today Note Apple s iOS SDK tools are only accessible on Intel powered Mac and MacBook devices

**iPad Application Development For Dummies** Neal Goldstein, Tony Bove, 2010-04-13 Turn your iPad ideas into amazing apps with this exciting new guide Whether you re app development amateur or programming professional you ll discover how to get in on the App Store development gold rush and start developing for the iPad with this fun and easy guide The iPad offers developers of all levels more opportunities than ever before to be a part of the app development game and this book is your ticket to joining in the fun You ll learn the basics of getting started downloading the SDK using context based design and filling your toolbox Then you ll move on to using Objective C and Xcode to program robust and vibrant apps and games specifically for the mobile platform Offers a plain English guide whether you re a novice or a seasoned developer who is interested in developing iPad applications Covers working with the multitouch interface and in split screen mode Provides useful advice on what applications thrive in the App Store and which have the most potential to turn a profit Includes a companion Web site with source code Packed with helpful advice on the ins and outs of developing great apps for mobile devices *iPad Application Development For Dummies* gets you started creating cool new apps right away Note Apple s iOS SDK tools are only accessible on Intel powered Mac and MacBook devices

**iPhone SDK Programming: A Beginner's Guide** James Brannan, 2009-08-03 Essential Skills Made Easy Now you can create your own iPhone and iPod touch applications in no time *iPhone SDK Programming A Beginner s Guide* shows you how to use Cocoa Touch the Objective C programming language and the Xcode development tools This hands on guide features several self contained projects with the corresponding Xcode available for download and modification By the end of the book you ll be able to build test and debug custom iPhone and iPod touch applications with ease Designed for Easy Learning Key Skills Concepts Chapter opening lists of specific skills covered in the chapter Ask the Expert Q A sections filled with bonus information and helpful tips Try This Hands on exercises that

show you how to apply your skills Notes Extra information related to the topic being covered Tips Helpful reminders or alternate ways of doing things Cautions Errors and pitfalls to avoid Annotated Syntax Example code with commentary that describes the programming techniques being illustrated

**Sams Teach Yourself iOS 8 Application Development in 24 Hours** John Ray, 2015 In just 24 sessions of one hour each learn how to build powerful applications for today's hottest handheld devices the iPhone and iPad Using this book's straightforward step by step approach you'll master every skill and technology you need from setting up your iOS development environment to building great user interfaces sensing motion to writing multitasking applications Each lesson builds on what you've already learned giving you a rock solid foundation for real world success Step by step instructions carefully walk you through the most common iOS development tasks Quizzes and Exercises help you test your knowledge By the Way notes present interesting information related to the discussion Did You Know tips show you easier ways to perform tasks Watch Out cautions alert you to possible problems and give you advice on how to avoid them John Ray is currently serving as the Director of the Office of Research Information Systems at the Ohio State University His many books include Using TCP/IP Special Edition Maximum Mac OS X Security Mac OS X Unleashed Teach Yourself Dreamweaver MX in 21 Days and Sams Teach Yourself iOS 7 Application Development in 24 Hours Printed in full color figures and code appear as they do in Xcode Covers iOS 8 and up Learn to navigate the Xcode 6.x development environment Prepare your system and iDevice for efficient development Get started quickly with Apple's new language Swift Test code using the new iOS Playground Understand the Model View Controller MVC development pattern Visually design and code interfaces using Xcode Storyboards Segues Exits Image Slicing and the iOS Object Library Use Auto Layout and Size Classes to adapt to different screen sizes and orientations Build advanced UIs with Tables Split Views Navigation Controllers and more Read and write preferences and data and create System Settings plug-ins Use the iOS media playback and recording capabilities Take photos and manipulate graphics with Core Image Sense motion orientation and location with the accelerometer gyroscope and GPS Integrate online services using Twitter Facebook Email Web Views and Apple Maps Create universal applications that run on both the iPhone and iPad Write background aware multitasking applications Trace debug and monitor your applications as they run

**iOS 12 Programming for Beginners** Craig Clayton, 2018-12-24 Begin your iOS 12 app development journey with this practical guide Key Features Kick start your iOS programming career and have fun building iOS apps of your choice Get to grips with Xcode 10 and Swift 4.2 the building blocks of iOS development Discover the latest features of iOS 12 SiriKit notifications and much more Book Description Want to build iOS 12 applications from scratch with the latest Swift 4.2 language and Xcode 10 by your side Forget sifting through tutorials and blog posts this book is a direct route to iOS development taking you through the basics and showing you how to put principles into practice Take advantage of this developer friendly guide and start building applications that may just take the App Store by storm If you're already an experienced programmer you can jump right in and learn the latest iOS 12 features

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*iOS 6 Programming Pushing the Limits* Rob Napier, Mugunth Kumar, 2012-11-20 Learn to build extraordinary apps for iPhone iPad and iPod touch iOS is the hottest development platform around and iOS 6 adds a new and deeper dimension to explore This guide offers serious information for serious programmers who know the basics and are ready to dive into the advanced features of iOS You ll learn to create killer apps for the iPad iPhone and iPod touch including how to maximize performance and make more money from your apps with in app purchases Topics covered include security multitasking running on multiple platforms blocks and functional programming advanced text layout and much more App development for iPhones and iPads is a lucrative and exciting venture books on this topic are steady bestsellers This advanced guide helps experienced developers take full advantage of the latest platform upgrade iOS 6 Provides in depth background on maximizing your apps with Apple s iPhone SDK 6 0 including the major new APIs and building applications for the new iPad Covers keeping control of multitasking increasing income with in app purchases key value observing with Cocoa running on multiple platforms advanced text layout building a Core foundation and more iOS 6 Programming Pushing the Limits gives experienced mobile developers a wealth of knowledge for creating outstanding iPhone and iPad apps on the latest platform

**Beginning iOS 4 Application Development** Wei-Meng Lee, 2010-09-14 The ideal starting point for creating apps using iOS 4 Written by an experienced Apple developer and trainer this full color reference serves as an ideal jumping point for creating applications for Apple s iOS 4 that runs on the iPhone iPod Touch and iPad In addition to in depth coverage of the iOS SDK the book walks you through the various core aspects of iPhone and iPad development You ll learn how to take advantage of the tools provided by XCode and you ll benefit from a solid introduction to Objective C which allows you to have a smooth transition to iPhone development from another platform Offers a solid foundation for creating applications for Apple s iOS 4 Covers all the

new features of iOS 4 and provides a new applications template for developing iPad and iPhone apps Addresses the new PopoverView for iPad apps Shows how to develop background applications which is one of the new features in iOS 4

Beginning iOS 4 Application Development is your ultimate resource for creating applications for Apple's iOS 4 iOS 8 Application Development in 24 Hours, Sams Teach Yourself John Ray, 2015-03-06 In just 24 sessions of one hour each learn how to build powerful applications for today's hottest handheld devices the iPhone and iPad Using this book's straightforward step by step approach you'll master every skill and technology you need from setting up your iOS development environment to building great user interfaces sensing motion to writing multitasking applications Each lesson builds on what you've already learned giving you a rock solid foundation for real world success Step by step instructions carefully walk you through the most common iOS development tasks Quizzes and Exercises help you test your knowledge By the Way notes present interesting information related to the discussion Did You Know tips show you easier ways to perform tasks Watch Out cautions alert you to possible problems and give you advice on how to avoid them John Ray is currently serving as the Director of the Office of Research Information Systems at the Ohio State University His many books include Using TCP/IP Special Edition Maximum Mac OS X Security Mac OS X Unleashed Teach Yourself Dreamweaver MX in 21 Days and Sams Teach Yourself iOS 7 Application Development in 24 Hours Printed in full color figures and code appear as they do in Xcode Covers iOS 8 and up Learn to navigate the Xcode 6.x development environment Prepare your system and iDevice for efficient development Get started quickly with Apple's new language Swift Test code using the new iOS Playground Understand the Model View Controller MVC development pattern Visually design and code interfaces using Xcode Storyboards Segues Exits Image Slicing and the iOS Object Library Use Auto Layout and Size Classes to adapt to different screen sizes and orientations Build advanced UIs with Tables Split Views Navigation Controllers and more Read and write preferences and data and create System Settings plug-ins Use the iOS media playback and recording capabilities Take photos and manipulate graphics with Core Image Sense motion orientation and location with the accelerometer gyroscope and GPS Integrate online services using Twitter Facebook Email Web Views and Apple Maps Create universal applications that run on both the iPhone and iPad Write background aware multitasking applications Trace debug and monitor your applications as they run

**iOS SDK Programming A Beginners Guide** James A. Brannan, Blake Ward, 2011-01-31 Essential Skills Made Easy Develop test and debug iPhone iPad and iPod touch applications with help from this practical resource iOS SDK Programming A Beginner's Guide shows you how to use Objective C and Apple's new Xcode 4 development environment with an integrated easy to use Interface Builder You'll learn which UIView subclasses to use when laying out an iOS app and master all of the iOS user interface controls Setting application preferences and storing application data are also covered The book explains how to integrate multimedia into your apps and develop universal apps that run on the iPhone iPod touch and iPad You'll learn how to take advantage of the iPad's larger display and the new features of iOS 4.2 By the end of this

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**IOS 8 for Programmers** Paul J. Deitel, Harvey M. Deitel, Abbey Deitel, 2015. This tutorial employs the Deitels' proven app-driven approach to teaching mobile programming. Each chapter is built around a single unique app. The chapter begins with a detailed walk-through of what the app does, then dives into the underlying code. By the end of the chapter, the reader has not only learned key iOS programming principles but has actually built a working iOS app.

**The Complete Idiot's Guide to iPad and iPhone App Development** Troy Brant, 2010-09-07. Take a bite out of Apple's iPhone™ success. The Complete Idiot's Guide to Developing iPhone™ Apps is the perfect introduction for aspiring iPhone™ app creators, offering a step-by-step approach exploring all of the tools and key aspects of programming using the iPhone™ software development kit, including getting the finished product distributed through the App Store. Apple also reports more than one billion downloads of their more than 25,000 available applications, and both the number of applications and the appetite for them keeps growing. Of the more than 50,000 companies and individuals who have registered as program developers, 60 percent have never before developed an Apple platform.

**Learning iOS Development** Maurice Sharp, Rod Strougo, Erica Sadun, 2014. This book offers the perfect hands-on introduction to iOS development, covering everything your students need to know about Objective-C, Xcode, and modern iOS user interface development. With sample projects and end-of-chapter exercises, this book is ideal for classroom instruction. The authors get started fast with Objective-C, covering basic syntax, memory management, Foundation, classes, development paradigms, blocks, threads, and more. Next, they show how to use Xcode and related tools to build projects, instrument, and efficiently debug code and deploy apps. In the next part, they turn to interfaces, covering design, content, construction, view controllers, views, animations, touch, table views, and even a taste of Core Data.

**iPhone and iPad App 24-Hour Trainer** Abhishek Mishra, Gene Backlin, 2012-05. Part 978KPART26941. DVD ID MD05365A. Disc surface.

**iOS 6 Application Development For Dummies** Neal Goldstein, Dave Wilson, 2013-01-10. Create incredible apps for the iPhone and iPad using the latest features of iOS 6. You could be the one who creates the next super app, one that is universal, works for both the iPhone and iPad, and is a top seller. It's a great goal, and the road starts here with this energizing guide. Whether you're a budding programming hobbyist or a serious developer looking to hit it big, the information in this book is what you need. Learn how to join Apple's developer program, understand key differences between iPad and iPhone apps, download the latest SDK, create great user experiences, and build your very own app from the ground up. You'll gain the valuable hands-on experience you need to take your development skills to the next level by walking through the development process, step by step, and creating two applications. Shows programming

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**Complete iOS 12 Development Guide** Craig Clayton, Donny Wals, 2019-03-20 Learn to create professional grade iOS applications for the App Store using the latest iOS 12 features and other helpful tools Key Features Explore the distinctive design principles that define the iOS user experience Train and use machine learning models with Core ML 2 and Create ML Delve into advanced animations with UIViewPropertyAnimator and UIKitDynamics Book Description With Apple users spending more money in the App Store there are plenty of development opportunities for professional iOS developers This Learning Path is a direct route to iOS development which will take you through the basics and help you put principles into practice For experienced programmers this book will help you gain insights into the latest iOS 12 features This book is also useful for beginners who want to gain expertise in iOS development You ll start with an introduction to iOS development Xcode and Swift To give your app the edge you ll get up to speed with advanced iOS topics such as gestures and animations Next you will understand the latest Swift 4.2 and iOS 12 developments by incorporating new features such as the latest in notifications custom UI notifications maps and recent additions in SiriKit With these tools you ll be able to write efficient readable and maintainable Swift code that maintains industry best practices By the end of the book you will have the confidence to build iOS 12 applications that harness advanced techniques and make the best use of the latest features This Learning Path includes content from the following Packt products iOS 12 Programming for Beginners Third Edition by Craig Clayton Mastering iOS 12 Programming Third Edition by Donny Wals What you will learn Build a responsive user interface UI and add privacy to your custom rich notifications Set up SiriKit to add voice for Siri shortcuts Integrate iMessage Siri and more in your app through app extensions Use TestFlight to collect feedback before releasing your apps on the App Store Use Auto Layout to create complex layouts that look visually appealing on any device Enhance your app by building your own profiling tools Create engaging augmented reality experiences with ARKit 2 Who this book is for If you are completely new to Swift iOS or programming and want to become an expert in developing iOS applications this Learning Path is for you You ll also find this Learning Path useful if you re an experienced programmer looking to explore the latest iOS 12 features **iOS 15 Application Development for Beginners** Arpit Kulsreshtha, 2021-12-31 Learn iOS App development with advanced Apple technology and developer centric tools KEY FEATURES Loaded with core developer tools including SwiftUI Xcode and CoreML Covers app architecture design patterns and mobile hardware use in app development Numerous examples covering database GPS image recognition and ML DESCRIPTION This book is a step by step hands on guide for Apple developers to build iOS apps using Swift programming with minimal effort This book will help develop the knowledge and skills necessary

to program Apple applications independently This book introduces you to Swift SwiftUI MapKit Xcode and Core ML and guides you through the process of creating a strong marketable iOS application The book begins with the fundamentals of Swift which will serve as the foundation for future app development This book will help readers to develop user interfaces for iOS applications using SwiftUI and Interface Builder as well as the code for views view controllers and data managers The book teaches how to use Core Data and SQLite to store databases It will help you work with Apple technologies and frameworks including Core Location and MapKit for GPS tracking Camera and Photo Library for image storage Core ML for machine learning and implementations of artificial intelligence solutions By the end of this book you will have developed a solid foundation for writing Swift apps utilizing best practices in architecture and publishing them to the app store The book successfully introduces you to the entire iOS application development journey in a manageable manner and instills an understanding of Apple apps

**WHAT YOU WILL LEARN** Develop practical skills in Swift programming Xcode and SwiftUI Learn to work around the database file handling and networking while building apps Utilize the capabilities of mobile hardware to include sound images and videos Bring machine learning capabilities using the Core ML framework Integrate features such as App Gestures and Core Location into iOS applications Utilize mobile design patterns and maintain a clean coding style

**WHO THIS BOOK IS FOR** This book is ideal for beginners in programming students and professionals interested in learning how to program in iOS use various developer tools and create Apple apps Working knowledge of any programming language is an advantage but not required

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**iPhone Application Development All-In-One For Dummies** Neal Goldstein,Tony Bove,2010-03-30 One stop shopping for every aspect of iPhone development Whether you re a beginning programmer who wants to build an application for your iPhone or you re a professional developer looking to leverage the marketing power of the open iPhone SDK this helpful guide has your needs covered iPhone enthusiast and developer Neal Goldstein shows you the ins and outs of developing applications for the iPhone and iPod Touch and explains how to get your apps into the AppStore and market and sell them You ll learn the basics of getting started download the SDK context based design and fill your toolbox Clear easy to understand steps walk you through programming with Objective C or Cocoa and show you how to develop games and graphics Plus you ll discover how to design specifically for mobile apps Aimed at both novice and seasoned developers who are interested in developing iPhone and iPod Touch applications Shows you how to get started download the SDK and fill your toolbox Walks you through developing games and graphics Explains how to gets your apps into the AppStore and sell them Getting started developing

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Objective-C for iPhone Developers, A Beginner's Guide James A. Brannan, 2010-06-05 Essential Skills Made Easy Create your own iPhone and Mac OS X applications with ease Objective C for iPhone Developers A Beginner s Guide shows you how to use the Objective C programming language Apple s Foundation framework the iPhone SDK and the Xcode development environment The first stop for aspiring iPhone developers this hands on guide teaches you how to create versatile innovative and marketable apps in no time Real world examples throughout the book correspond with downloadable Xcode projects and video tutorials so you can get started with your first app right away Designed for Easy Learning Key Skills Concepts Chapter opening lists of specific skills covered in the chapter Ask the Expert Q A sections filled with bonus information and helpful tips Try This Hands on exercises that show you how to apply your skills Notes Extra information related to the topic being covered Tips Helpful reminders or alternative ways of doing things Annotated Syntax Example code with commentary that describes the programming techniques being illustrated Ready to use code at [www.mhprofessional.com/computingdownload](http://www.mhprofessional.com/computingdownload) and [www.jamesabrannan.com](http://www.jamesabrannan.com)

Dive Into iOS6 Paul J. Deitel, Harvey Deitel, Abbey Deitel, 2012-10-01 The programmer s quick start guide to iOS app development using iOS SDK 6 Cocoa Touch Xcode 4 5 and the latest Objective C version and idioms Dive into iOS 6 programming with this brief introduction for new iOS developers This five chapter e book gets you started developing great iPhone and iPad apps quickly and publishing them on Apple s App Store It s ideal for people familiar with object oriented programming in Java C C or Objective C an Objective C background is not required The three programming chapters include a simple visual programming app and two code based apps presented using the Deitels signature app driven approach each technology is discussed in the context of a fully developed iOS app complete with syntax coloring code walkthroughs and sample outputs Topics covered in this e book include iOS App Development iOS 6 Xcode 4 5 Interface Builder Objective C Cocoa Touch iOS Simulator Storyboarding Segues Auto Layout Accessibility Internationalization Application Templates Universal Apps Social Framework iCloud Key Value Storage Automatic Reference Counting ARC Collections iOS Defaults System GUI Views View Controllers Outlets Actions Event Handling Fully Developed Apps Welcome Tip Calculator Favorite Twitter Searches App Business Issues iOS Developer Program App Store Submitting Apps iTunes Connect What Makes a Great App Monetization Pricing Free vs Fee In App Purchase Selling Virtual Goods Marketing iAd Network Advertising

**Ultimate iOS App Development Guide** Surabhi Chopada, 2024-08-31 TAGLINE Build Your Dream iOS Apps A Project Based Learning Approach KEY FEATURES Gain a thorough understanding of core iOS development concepts and techniques with a focus on practical application Build five end to end iOS applications including a to do list app a weather app a fitness tracker with HealthKit and an image recognition app with Core ML to apply your skills in real world scenarios Understand the complete process of testing debugging and deploying your apps to the App Store

preparing you for real world deployment

**DESCRIPTION** Ultimate iOS App Development Guide is your gateway to the dynamic world of iOS App development and guides you through the core concepts and techniques essential for iOS app creation Each chapter delves into crucial components of iOS development with clear explanations and practical examples to apply your knowledge in real world scenarios Structured into 10 chapters the book begins with fundamental concepts providing a solid foundation for beginners Each subsequent chapter builds on this foundation with practical projects blending theoretical iOS and Swift concepts with hands on implementation These carefully selected projects are designed to develop your application development skills whether you re a novice or looking to deepen your expertise This book serves as a robust resource supporting your growth as an iOS developer You ll create exciting projects that range from a simple to do list app to advanced projects like HealthKit and Core ML integration helping you grasp specific concepts thoroughly The book also covers the app distribution process to the App Store making it a comprehensive resource for both budding developers and seasoned professionals looking to broaden their expertise

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**WHO IS THIS BOOK FOR** This book is tailored for budding iOS developers seeking a solid foundation senior developers aiming to broaden their expertise or mobile app architects looking to deepen their skills in iOS app development This book bridges the gap between theoretical knowledge and practical application making it a valuable resource for those aspiring to excel in the iOS domain A basic understanding of programming concepts and familiarity with macOS would be a plus to understand this book better

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