

# Cocoa Design Patterns Developers Library

*As iOS apps become increasingly complex and business-critical, iOS developers must ensure consistently superior code quality. This means adopting best practices for creating and testing iOS apps. Test-Driven Development (TDD) is one of the most powerful of these best practices. Test-Driven iOS Development is the first book 100% focused on helping you successfully implement TDD and unit testing in an iOS environment. Long-time iOS/Mac developer Graham Lee helps you rapidly integrate TDD into your existing processes using Apple's Xcode 4 and the OCUit unit testing framework. He guides you through constructing an entire Objective-C iOS app in a test-driven manner, from initial specification to functional product. Lee also introduces powerful patterns for applying TDD in iOS development, and previews powerful automated testing capabilities that will soon arrive on the iOS platform. Coverage includes Understanding the purpose, benefits, and costs of unit testing in iOS environments Mastering the principles of TDD, and applying them in areas from app design to refactoring Writing usable, readable, and repeatable iOS unit tests Using OCUit to set up your Xcode project for TDD Using domain analysis to identify the classes and interactions your app needs, and designing it accordingly Considering third-party tools for iOS unit testing Building networking code in a test-driven manner Automating testing of view controller code that interacts with users Designing to*

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*interfaces, not implementations* Testing concurrent code that typically runs in the background Applying TDD to existing apps Preparing for Behavior Driven Development (BDD) The only iOS-specific guide to TDD and unit testing, Test-Driven iOS Development covers both essential concepts and practical implementation. Winner of the 2014 Jolt Award for "Best Book" "Whether you are an experienced programmer or are starting your career, Python in Practice is full of valuable advice and example to help you improve your craft by thinking about problems from different perspectives, introducing tools, and detailing techniques to create more effective solutions." --Doug Hellmann, Senior Developer, DreamHost If you're an experienced Python programmer, Python in Practice will help you improve the quality, reliability, speed, maintainability, and usability of all your Python programs. Mark Summerfield focuses on four key themes: design patterns for coding elegance, faster processing through concurrency and compiled Python (Cython), high-level networking, and graphics. He identifies well-proven design patterns that are useful in Python, illuminates them with expert-quality code, and explains why some object-oriented design patterns are irrelevant to Python. He also explodes several counterproductive myths about Python programming--showing, for example, how Python can take full advantage of multicore hardware. All examples, including three complete case studies, have been tested with Python 3.3 (and, where possible, Python 3.2 and 3.1) and crafted to maintain compatibility with future Python 3.x versions. All code has been tested on Linux, and

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*most code has also been tested on OS X and Windows. All code may be downloaded at [www.qtrac.eu/pipbook.html](http://www.qtrac.eu/pipbook.html). Coverage includes Leveraging Python's most effective creational, structural, and behavioral design patterns Supporting concurrency with Python's multiprocessing, threading, and concurrent.futures modules Avoiding concurrency problems using thread-safe queues and futures rather than fragile locks Simplifying networking with high-level modules, including xmlrpclib and RPyC Accelerating Python code with Cython, C-based Python modules, profiling, and other techniques Creating modern-looking GUI applications with Tkinter Leveraging today's powerful graphics hardware via the OpenGL API using pygame and PyOpenGL 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.*

*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*

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*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*

*Developing for the Mac and iOS App Stores*

*Creating Applications for the 21st Century*

*Essential App Engine*

*Understanding the Advanced Features of the IOS SDK*

*Programming the iPhone User Experience*

*Programming in Objective-C*

*Learning Quartz Composer*

Revised edition of first part of: Android wireless application development / Shane Conder, Lauren Darcey. c2010.

Master C++ "The Qt Way" with Modern Design Patterns and Efficient Reuse This fully updated, classroom-tested book teaches C++ "The Qt Way," emphasizing design patterns and efficient reuse. Readers will master both the C++ language and Qt libraries, as they learn to develop maintainable software with well-defined code layers and simple, reusable classes and functions. Every chapter of this edition has been improved with new content, better organization, or both. Readers will find extensively revised coverage of QObjects, Reflection, Widgets, Main Windows, Models and Views, Databases,

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Multi-Threaded Programming, and Reflection. This edition introduces the powerful new Qt Creator IDE; presents new multimedia APIs; and offers extended coverage of Qt Designer and C++ Integration. It has been restructured to help readers start writing software immediately and write robust, effective software sooner. The authors introduce several new design patterns, add many quiz questions and labs, and present more efficient solutions relying on new Qt features and best practices. They also provide an up-to-date C++ reference section and a complete application case study. Master C++ keywords, literals, identifiers, declarations, types, and type conversions. Understand classes and objects, organize them, and describe their interrelationships. Learn consistent programming style and naming rules. Use lists, functions, and other essential techniques. Define inheritance relationships to share code and promote reuse. Learn how code libraries are designed, built, and reused. Work with QObject, the base class underlying much of Qt. Build graphical user interfaces with Qt widgets. Use templates to write generic functions and classes. Master advanced reflective programming techniques. Use the Model-View framework to cleanly separate data and GUI classes. Validate input using regular expressions and other techniques. Parse XML data with SAX, DOM, and QDomStreamReader. Master today's most valuable creational and structural design patterns. Create, use, monitor, and debug processes and threads. Access databases with Qt's SQL classes. Manage memory reliably and efficiently. Understand how to effectively manage QThreads and use QtConcurrent algorithms. [Click here to obtain supplementary materials for this book.](#)

Next time some kid shows up at my door asking for a code review, this is the book that I am going to throw at him. Aaron Hillegass, founder of Big Nerd Ranch, Inc., and author of Cocoa Programming for Mac OS X Unlocking the Secrets of Cocoa and Its Object-Oriented Frameworks Mac and iPhone developers are often overwhelmed by the breadth and sophistication of the Cocoa frameworks. Although

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Cocoa is indeed huge, once you understand the object-oriented patterns it uses, you'll find it remarkably elegant, consistent, and simple. Cocoa Design Patterns begins with the mother of all patterns: the Model-View-Controller (MVC) pattern, which is central to all Mac and iPhone development. Encouraged, and in some cases enforced by Apple's tools, it's important to have a firm grasp of MVC right from the start. The book's midsection is a catalog of the essential design patterns you'll encounter in Cocoa, including Fundamental patterns, such as enumerators, accessors, and two-stage creation Patterns that empower, such as singleton, delegates, and the responder chain Patterns that hide complexity, including bundles, class clusters, proxies and forwarding, and controllers And that's not all of them! Cocoa Design Patterns painstakingly isolates 28 design patterns, accompanied with real-world examples and sample code you can apply to your applications today. The book wraps up with coverage of Core Data models, AppKit views, and a chapter on Bindings and Controllers. Cocoa Design Patterns clearly defines the problems each pattern solves with a foundation in Objective-C and the Cocoa frameworks and can be used by any Mac or iPhone developer.

Apple's iPhone and iPod Touch not only feature the world's most powerful mobile operating system, they also usher in a new standard of human-computer interaction through gestural interfaces and multi-touch navigation. This book provides you with a hands-on, example-driven tour of UIKit, Apple's user interface toolkit, and includes common design patterns to help you create new iPhone and iPod Touch user experiences. Using Apple's Cocoa Touch framework, you'll learn how to build applications that respond in unique ways when users tap, slide, swipe, tilt, shake, or pinch the screen. Programming the iPhone User Experience is a perfect companion to Apple's Human Interface Guidelines, and provides the practical information you need to develop innovative applications for the iPhone and iPod Touch, whether you're a CTO, developer, or UI/UX designer. Understand the basics of the Cocoa Touch

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framework for building iPhone and iPod Touch applications Learn theory and best practices for using Cocoa Touch to develop applications with engaging and effective user interfaces Apply your knowledge of Objective-C to the iPhone/iPod Touch framework Customize standard UIKit views according to Apple's Human Interface Guidelines and usability principles Learn patterns for handling user experience concerns outside of the interface, such as network- and location-awareness

Swift for Beginners

Pyth 3 Stan Libr Exam \_2

Programming with Quartz

Cocoa Programming

Learning Core Audio

Test-Driven iOS Development

Ruby and Cocoa on OS X

A guide to Go describes how the programming language is structured and provides examples of code that demonstrate every stage of Go development, from creating a simple program to debugging and distributing code.

Features hands-on sample projects and exercises designed to help programmers create iOS applications.

This book constitutes the refereed proceedings of the 8th International Conference on Ubiquitous Intelligence and Computing, UIC 2010, held in Banff, Canada, September 2011. The 44 papers presented together with two keynote speeches were carefully reviewed and selected from numerous submissions. The papers address all current issues in smart systems and services, smart objects and environments, cloud and services computing,

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security, privacy and trustworthy, P2P, WSN and ad hoc networks, and ubiquitous intelligent algorithms and applications.

A valuable programming reference provides a complete introduction to the Go programming language, covering all of Go's clean and easy to understand syntax and its built-in arrays, maps, slices and Unicode strings. Original.

A Hands-On Guide to Structuring Data for iOS and OS X

Sams Teach Yourself Xcode 4 in 24 Hours

A Hands-on Guide to Creating Motion Graphics with Quartz Composer

Programming IOS 6

Pro Design Patterns in Swift

Android Essentials

**Many formal approaches for pattern specification are emerging as a means to cope with the inherent shortcomings of informal description. Design Pattern Formalization Techniques presents multiple mathematical, formal approaches for pattern specification, emphasizing on software development processes for engineering disciplines. Design Pattern Formalization Techniques focuses on formalizing the solution element of patterns, providing tangible benefits to pattern users, researchers, scholars, academicians, practitioners and students working in**



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the field of design patterns and software reuse. Design Pattern Formalization Techniques explains details on several specification languages, allowing readers to choose the most suitable formal technique to solve their specific inquiries. Describes the Core Audio framework, covering such topics as recording, playback, format conversion, MIDI connectivity, and audio units.

From learning about the most sought-after design patterns to a comprehensive coverage of architectural patterns and code testing, this book is all you need to write clean, reusable code. Key Features Write clean, reusable and maintainable code, and make the most of the latest Swift version. Analyze case studies of some of the popular open source projects and give your workflow a huge boost. Choose patterns such as MVP, MVC, and MVVM depending on the application being built. Book Description Swift keeps gaining traction not only amongst Apple developers but also as a server-side language. This book demonstrates how to apply design patterns and best practices in real-life situations, whether that's for new or already existing projects. You'll begin with a quick refresher on Swift, the compiler, the

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standard library, and the foundation, followed by the Cocoa design patterns - the ones at the core of many cocoa libraries - to follow up with the creational, structural, and behavioral patterns as defined by the GoF. You'll get acquainted with application architecture, as well as the most popular architectural design patterns, such as MVC and MVVM, and learn to use them in the context of Swift. In addition, you'll walk through dependency injection and functional reactive programming. Special emphasis will be given to techniques to handle concurrency, including callbacks, futures and promises, and reactive programming. These techniques will help you adopt a test-driven approach to your workflow in order to use Swift Package Manager and integrate the framework into the original code base, along with Unit and UI testing. By the end of the book, you'll be able to build applications that are scalable, faster, and easier to maintain. What you will learn

- Work efficiently with Foundation and Swift Standard library
- Understand the most critical GoF patterns and use them efficiently
- Use Swift 4.2 and its unique capabilities (and limitations) to implement and improve GoF patterns
- Improve your

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application architecture and optimize for maintainability and performance Write efficient and clean concurrent programs using futures and promises, or reactive programming techniques Use Swift Package Manager to refactor your program into reusable components Leverage testing and other techniques for writing robust code Who this book is for This book is for intermediate developers who want to apply design patterns with Swift to structure and scale their applications. You are expected to have basic knowledge of iOS and Swift.

Written by members of the development team at Apple, *Programming with Quartz* is the first book to describe the sophisticated graphics system of Mac OS X. By using the methods described in this book, developers will be able to fully exploit the state-of-the-art graphics capabilities of Mac OS X in their applications, whether for Cocoa or Carbon development. This book also serves as an introduction to 2D graphics concepts, including how images are drawn and how color is rendered. It includes guidance for working with PDF documents, drawing bitmap graphics, using Quartz built-in color management, and drawing text. *Programming with Quartz* is a rich resource for new and experienced Mac OS X

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developers, Cocoa and Carbon programmers, UNIX developers who are migrating to Mac OS X, and anyone interested in powerful 2D graphics systems. This is the definitive guide to the revolutionary graphics system of Mac OS X that uses the Portable Document Format (PDF) as the basis of its imaging model. It contains the latest on programming with Quartz for Mac OS X version 10.4. Carefully crafted and extensive code examples show how to accomplish most of the drawing tasks possible with Quartz.

Learning iPad Programming

Swift Development with Cocoa

A JavaScript and jQuery Developer's Guide

A Step-by-step Guide

Cocoa Programming for Mac OS X

Learning iCloud Data Management

Python in Practice

*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.*

*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*

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*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.*

*Provides information on Cocoa design patterns along with data models, AppKit views, bindings, and controllers.*

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

*Master Swift best practices to build modular applications for mobile, desktop, and server platforms*

*Developing and Designing Cocoa Touch Applications*

*A Hands-on Guide to Audio Programming for Mac and IOS*

*Create Better Programs Using Concurrency, Libraries, and Patterns*

*Professional Cocoa Application Security*

*Developing Extraordinary Mobile Apps for Apple iPhone, iPad, and iPod Touch  
Ubiquitous Intelligence and Computing*

*A pre-release edition enables developers to tap the author's unedited content while offering access to significant updates and the final ebook version, in a guide that explains how to develop application for Mac OS X with MacRuby and provides coverage of Interface Builder, the Cocoa libraries and more. Original.*

*Create Amazing Real-Time Motion Graphics with Quartz Composer! Apple's Quartz Composer makes it amazingly easy to create real-time graphics of all kinds: for screensavers, animations, kiosk art, film effects, Dashboard Widgets, graphically-rich apps, and more. But few content creators use QC, because they've had practically no useful help-until now. In this book/DVD bundle, two renowned VJs who've pushed this tool to the limit show you how to do it, too! You needn't be a technical expert: Graham Robinson and Surya Buchwald introduce each concept through a hands-on project, with videos demonstrating every step. They start extremely simple, offering beautiful visual feedback and encouraging you to freely explore. The video and text work together to help you build mastery fast, as you create everything from data-driven effects to compelling live performance visuals! Coverage includes Mastering Quartz Composer's powerful interface Grabbing live inputs from music or cameras for unique interaction and improvisation Outputting video files for everything from smartphone screens to HD video edits Using built-in image filters to add visual effects Creating organic motion with LFOs, interpolation, and trackballs Fixing problems and figuring out what you did wrong Making rain, fire, and other cool stuff with particles Integrating MIDI musical instruments and other audio resources Mastering lighting and timelines Building richer environments with replication, iteration, and 3D modeling Pushing the boundaries with secret*

*patches, CoreImage filters, and GLSL If you're a motion graphics designer, filmmaker, VJ, artist, interactive programmer, Cocoa developer, or any other type of "Maker," this book will guide you from acolyte to wizard in no time... and it just might be the most fun instructional you'll ever read!*

*0321636945 / 9780321636942 Learning Quartz Composer: A Hands-On Guide to Creating Motion Graphics with Quartz Composer Package consists of: 013308776X / 9780133087765 Learning Quartz Composer: A Hands-On Guide to Creating Motion Graphics with Quartz Composer 0321857577 / 9780321857576 Learning Quartz Composer, DVD: A Hands-On Guide to Creating Motion Graphics with Quartz Composer 0321857585 / 9780321857583 Learning Quartz Composer, Book Component: A Hands-On Guide to Creating Motion Graphics with Quartz Composer*

*With Learning JavaScript Design Patterns, you'll learn how to write beautiful, structured, and maintainable JavaScript by applying classical and modern design patterns to the language. If you want to keep your code efficient, more manageable, and up-to-date with the latest best practices, this book is for you. Explore many popular design patterns, including Modules, Observers, Facades, and Mediators. Learn how modern architectural patterns—such as MVC, MVP, and MVVM—are useful from the perspective of a modern web application developer. This book also walks experienced JavaScript developers through modern module formats, how to namespace code effectively, and other essential topics. Learn the structure of design patterns and how they are written Understand different pattern categories, including creational, structural, and behavioral Walk through more than 20 classical and modern design patterns in JavaScript Use several options for writing modular code—including the Module pattern, Asynchronous Module Definition (AMD), and CommonJS Discover design patterns implemented in the jQuery library Learn popular design patterns for writing maintainable jQuery plug-ins "This book should be in every JavaScript developer's hands. It's the*

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*go-to book on JavaScript patterns that will be read and referenced many times in the future."*—*Andrée Hansson, Lead Front-End Developer, presis!*

*Presents an introduction to Objective-C, covering such topics as classes and objects, data types, program looping, inheritance, polymorphism, variables, memory management, and archiving.*

*Develop and Design*

*8th International Conference, UIC 2011, Banff, Canada, September 2-4, 2011, Proceedings*

*Design Pattern Formalization Techniques*

*Xcode 5 Start to Finish*

*Building High-Performance Java Apps with Google App Engine*

*iOS and OS X Development*

*The Python 3 Standard Library by Example*

Using research in neurobiology, cognitive science and learning theory, this text loads patterns into your brain in a way that lets you put them to work immediately, makes you better at solving software design problems, and improves your ability to speak the language of patterns with others on your team.

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. Master the Powerful Python 3 Standard Library through Real Code Examples "The genius of Doug's approach is that with 15 minutes per week, any motivated



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programmer can learn the Python Standard Library. Doug's guided tour will help you flip the switch to fully power-up Python's batteries." –Raymond Hettinger, Distinguished Python Core Developer The Python 3 Standard Library contains hundreds of modules for interacting with the operating system, interpreter, and Internet—all extensively tested and ready to jump-start application development. Now, Python expert Doug Hellmann introduces every major area of the Python 3.x library through concise source code and output examples. Hellmann's examples fully demonstrate each feature and are designed for easy learning and reuse. You'll find practical code for working with text, data structures, algorithms, dates/times, math, the file system, persistence, data exchange, compression, archiving, crypto, processes/threads, networking, Internet capabilities, email, developer and language tools, the runtime, packages, and more. Each section fully covers one module, with links to additional resources, making this book an ideal tutorial and reference. The Python 3 Standard Library by Example introduces Python 3.x's new libraries, significant functionality changes, and new layout and naming conventions. Hellmann also provides

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expert porting guidance for moving code from 2.x Python standard library modules to their Python 3.x equivalents. Manipulate text with string, textwrap, re (regular expressions), and difflib Use data structures: enum, collections, array, heapq, queue, struct, copy, and more Implement algorithms elegantly and concisely with functools, itertools, and contextlib Handle dates/times and advanced mathematical tasks Archive and data compression Understand data exchange and persistence, including json, dbm, and sqlite Sign and verify messages cryptographically Manage concurrent operations with processes and threads Test, debug, compile, profile, language, import, and package tools Control interaction at runtime with interpreters or the environment

“A great read for iOS developers who want to learn if iCloud is right for their app and dive right in with lots of practical code examples.” —Jon Bell, UXLaunchpad.com

Get Hands-On Mastery of iCloud Data Management for iOS 7 and OS X Mavericks As apps rapidly move into business and the cloud, iOS and OS X developers need new data management techniques. In Learning iCloud Data Management, renowned Apple database expert Jesse Feiler shows you how to use Apple’s latest APIs and technologies

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to structure and synchronize all forms of data. Feiler helps you understand the issues, implement efficient solutions, and deliver highly usable apps that seamlessly synchronize during the “Round Trip” between iOS and OS X and back again. This guide walks you through integrating several key Apple data management technologies, including the Address Book and Calendar APIs. Feiler shows you how to structure data so it’s easy to build great Cocoa and Cocoa Touch user interfaces and to quickly incorporate reliable iCloud syncing. Step by step, you’ll discover how to blend Apple’s standard application data structures with your own user data to create a feature-rich and fully syncable environment. Coverage includes Understanding iCloud from the developer’s and user’s point of view Accessing synchronized user calendars and contacts Integrating Reminders into your apps Playing by iCloud’s user privacy rules Applying consistent iOS Settings and OS X Preferences across user devices Managing persistent storage with Core Data Using Xcode Project Workspaces for shared development Adding data to app bundles and resources Integrating iCloud infrastructure, file wrappers, documents, and data Completing the “Round Trip” between both iOS

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and OS X

“Not many books have a single project that lives and evolves through the entire narrative. The reason not many books do this is because it is difficult to do well. Important toolkit features get shoehorned in weird places because the author didn’t do enough up-front design time. This book, though, takes you from design, to a prototype, to the Real Deal. And then it goes further.” —Mark Dalrymple, cofounder of CocoaHeads, the international Mac and iPhone programmer community; author of *Advanced Mac OS X Programming: The Big Nerd Ranch Guide Learning iPad Programming, Second Edition*, will help you master all facets of iPad programming with Apple’s newest tools. Its in-depth, hands-on coverage fully addresses the entire development process, from installing the iOS SDK through coding, debugging, submitting apps for Apple’s review, and deployment. Extensively updated for Apple’s newest iOS features and Xcode 4.x updates, this book teaches iPad programming through a series of exercises centered on building PhotoWheel, a powerful personal photo library app. As you build PhotoWheel, you’ll gain experience and real-world insights that will help you succeed with any iPad

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development project. Leading iOS developers Kirby Turner and Tom Harrington introduce the essentials of iOS development, focusing on features that are specific to iPad. You'll find expert coverage of key topics many iOS development books ignore, from app design to Core Data. You'll also learn to make the most of crucial iOS and Xcode features, such as Storyboarding and Automatic Reference Counting (ARC), and extend your app with web services and the latest iCloud syncing techniques. Learn how to Build a fully functional app that uses Core Data and iCloud syncing Use Storyboarding to quickly prototype a functional UI and then extend it with code Create powerful visual effects with Core Animation and Core Image Support AirPrint printing and AirPlay slideshows Build collection views and custom views, and use custom segues to perform custom view transitions Download the free version of PhotoWheel from the App Store today! Import, manage, and share your photos as you learn how to build this powerful app.

The Go Programming Language Phrasebook  
Learning Cocoa with Objective-C  
Cocoa Design Patterns

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Programming in Objective-C 2.0

Learning JavaScript Design Patterns

Introduction to Design Patterns in C++ with Qt

iOS Components and Frameworks

*Take Your Next Leap Forward as an iOS App Developer! Covers iOS 7 and Xcode 5 iOS Components and Frameworks will help you leverage iOS's powerful components and frameworks to build apps with outstanding performance, reliability, interactivity, media support, and customization. Pioneering iOS developers Kyle Richter and Joe Keeley illuminate the sophisticated intermediate-to-advanced level techniques you're now ready for. You'll find example-rich coverage of topics ranging from social support to security, Core Data, TextKit, iCloud support, UIKit Dynamics, MapKit, and Passbook. There's also a complete section on advanced performance and security, including the effective use of Grand Central Dispatch and Keychain. Each chapter contains a complete sample project that walks you through integrating its technology into a typical iOS app. You'll*

*discover how multiple iOS features can be combined into exceptionally powerful apps and walk through a complete case study project: a fully functional game with complete Game Center integration. Coverage includes: New physics-based animation effects provided by UIKit Dynamics Making the most of Core Location, MapKit, and Geofencing Leveraging Game Center features such as Leader Boards and Achievements Giving users access to their address and media libraries from within your app Using lightweight JSON to move data among servers, apps, and websites Syncing apps via iCloud using UIDocument and key-value store syncing Securing user data with Keychain Informing users of important app-related events via Notifications Storing and retrieving persistent data locally with Core Data Using advanced Objective-C features to write more manageable, concise apps Improving responsiveness through concurrency with Grand Central Dispatch Advanced text handling and display with TextKit Smoothly handling complex and continuous gestures Effective debugging techniques with*

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*Xcode 5 and Instruments Building passes for Passbook and PassKit If you're a serious iOS developer who wants to build cutting-edge apps, iOS Components and Frameworks delivers the practical skills, reusable code, and expert insights you're looking for.*

*Cocoa Design Patterns Addison-Wesley Professional Provides information on using iOS 6 to create applications for the iPhone, iPad, and iPod Touch.*

*The Swift programming language has transformed the world of iOS development and started a new age of modern development. Pro Design Patterns in Swift shows you how to harness the power and flexibility of Swift to apply the most important and enduring design patterns to your applications, taking your development projects to master level. This book will teach you those design patterns that have always been present at some level in your code, but may not have been recognized, acknowledged, or fully utilized. Implementation of specific pattern approaches will prove their value to any Swift developer. Best-selling*



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*author Adam Freeman explains how to get the most from design patterns. He starts with the nuts-and-bolts and shows you everything through to advanced features, going in-depth to give you the knowledge you need. Pro Design Patterns in Swift brings design patterns to life and shows you how to bring structure and scale to your Swift code with a practical, no-nonsense approach.*

*Programming in Go*

*Building Cocoa Applications*

*Introduction to Android Application Development*

*Hands-On Design Patterns with Swift*

*2D and PDF Graphics in Mac OS X*

*A Hands-on Guide to the Fundamentals of IOS Programming*

*MacRuby: The Definitive Guide*

**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 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](http://www.peachpit.com/swiftbeginners) includes additional resources.**

**In Essential App Engine, Adriaan de Jonge shows Java developers how to rapidly build complex, production-quality, performance-driven cloud applications with Google App Engine. Using a start-to-finish case study and extensive Java example code, De Jonge covers the entire lifecycle, from application design and data modeling through security, testing, and deployment. De Jonge introduces breakthrough techniques for creating applications that respond within two seconds, even on cold startup, and allow server responses in hundreds of milliseconds or less throughout the rest of the session. He also demonstrates how to avoid common mistakes that can dramatically reduce cloud application performance and scalability. He thoroughly covers state-of-the-art user interface development and shows how to make the most of Google App Engine's extensive**

**set of APIs. Coverage includes Setting up a development environment that makes it easy to continually address performance Understanding the anatomy of a Google App Engine application Making the right technical setup and design choices for each new application Efficiently modeling data for App Engine's NoSQL data storage Recognizing when to avoid OR-mapping and pass datastore entities directly to HTML templates Finding alternatives to frameworks and libraries that impair App Engine performance Using JavaScript and AJAX on the client side of your cloud applications Improving browser performance and reducing resource consumption via better use of HTML5 and CSS3 Taking advantage of key App Engine APIs: datastore, blobstore, mail, task scheduling, memory caching, URL retrieval, and messaging Securing cloud-based Web applications with Google Accounts, OpenID, and OAuth Improving your cloud development, quality assurance, and deployment processes Targeting, marketing, and selling cloud solutions, from planning to payment handling**

**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.**

**Table of Contents**

**1 Introduction**

**Part I: The Objective-C 2.0 Language**

**2 Programming in Objective-C**

**3 Classes, Objects, and Methods**

**4 Data Types and Expressions**

**5 Program Looping**

**6 Making Decisions**

**7 More on Classes**

**8 Inheritance**

**9 Polymorphism, Dynamic Typing, and Dynamic Binding**

**10 More on Variables and Data Types**

**11 Categories and Protocols**

**12 The Preprocessor**

**13 Underlying C Language Features**

**Part II: The Foundation Framework**

**14 Introduction to the Foundation Framework**

**15 Numbers, Strings, and Collections**

**16 Working with Files**

**17 Memory Management**

**18 Copying Objects**

**19 Archiving**

**Part III: Cocoa and the iPhone SDK**

**20 Introduction to Cocoa**

**21 Writing iPhone Applications**

**Part IV: Appendixes**

**A Glossary**

**B Objective-C 2.0 Language Summary**

**C Address Book Source Code**

**D Resources**

**Cocoa Programming is a comprehensive work that starts as a fast-paced introduction to the OS architecture and the Cocoa language for those programmers new to the environment. The more advanced sections of the book will show the reader how to create Cocoa applications using Objective-C, to modify the views, integrate multimedia, and**

access networks. The final sections of the book explain how to extend system applications and development tools in order to create your own frameworks.

**iOS 6 Programming Pushing the Limits**

**Advanced Application Development for Apple iPhone, iPad and iPod Touch**

**Head First Design Patterns**

**IOS 5 Programming Pushing the Limits**

**Learning IOS Development**

**A Hands-On Guide to Building iPad Apps**

***Provides information on using iOS 5 to create applications for the iPhone, iPad, and iPod Touch.***

***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 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 Use Xcode 5 to Write Great iOS and OS X Apps! Xcode 5 Start to Finish will help you use the tools in Apple's Xcode 5 to improve productivity, write great code, and leverage the newest iOS 7 and OS X Mavericks features. Drawing on thirty years of experience developing for Apple platforms and helping others do so, Fritz Anderson shows you a complete best-practice Xcode workflow. Through three full sample projects, you'll learn to integrate testing, source control, and other key skills into a high-efficiency process that works. Anderson shows you better ways to storyboard, instrument, build, and compile code, and helps you apply innovations ranging from Quick Look to Preview Assistant. By the time you're finished, you'll have the advanced Xcode skills to develop outstanding software. Coverage includes Setting breakpoints and tracing execution for active debugging Creating libraries by adding and building new targets Integrating Git or Subversion version control Creating iOS projects with MVC design Designing Core Data schemas for iOS apps Linking data models to views Designing UI views with Interface Builder***

***Using the improved Xcode 5 Autolayout editor Improving reliability with unit testing Simplifying iOS provisioning Leveraging refactoring and continual error checking Using OS X bindings, bundles, packages, frameworks, and property lists Localizing your apps Controlling how Xcode builds source code into executables Analyzing processor and memory usage with Instruments Integrating with Mavericks Server's sleek continuous integration system Register your book at [www.informit.com/register](http://www.informit.com/register) for access to this title's downloadable code.***