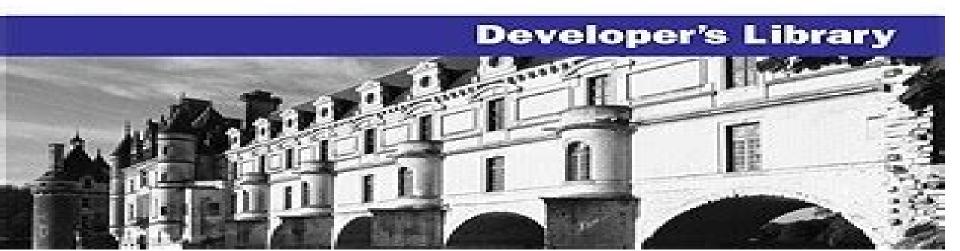Erik M. Buck
Donald A. Yacktman

Foreword by Aaron Hillegass,
author of *Cocoa Programming for Mac OS X*

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Design Patterns

Developer's Library

Cocoa Design Patterns

Rachel S Tattersall

Cocoa Design Patterns:

   Cocoa Design Patterns Erik Buck,Donald Yacktman,2009-09-01 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 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
   Cocoa Design Patterns Erik M. Buck,Erik M.,2009   **Cocoa Design Patterns** Erik M. Buck,1900 This is the eBook version of the printed book If the print book includes a CD ROM this content is not included within the eBook version 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 Cocoa is indeed huge once you understand the object   **Hands-On Design Patterns with Swift** Florent Vilmart,Giordano Scalzo,Sergio De Simone,2018-12-24 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 FeaturesWrite 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 boostChoose patterns such as MVP MVC and MVVM depending on the application being builtBook 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 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 learnWork efficiently with Foundation and Swift Standard libraryUnderstand the most critical GoF patterns and use them efficientlyUse Swift 4 2 and its unique capabilities and limitations to implement and improve GoF patternsImprove your application architecture and optimize for maintainability and performanceWrite efficient and clean concurrent programs using futures and promises or reactive programming techniquesUse Swift Package Manager to refactor your program into reusable componentsLeverage testing and other techniques for writing robust codeWho 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   *IOS 5 Programming Pushing the Limits* Rob Napier,Mugunth Kumar,2011-12-20 Provides information on using iOS 5 to create applications for the iPhone iPad and iPod Touch   *Learning IPad Programming* Kirby Turner,Tom Harrington,2013 A guide to iPad programming provides instructions on building PhotoWheel a photo management and sharing application using Apple s newest iOS   **Learning iPhone Programming** Alasdair Allan,2010-03-09 Get the hands on experience you need to program for the iPhone and iPod Touch With this easy to follow guide you ll build several sample applications by learning how to use Xcode tools the Objective C programming language and the core frameworks Before you know it you ll not only have the skills to develop your own apps you ll know how to sail through the process of submitting apps to the iTunes App Store Whether you re a developer new to Mac programming or an experienced Mac developer ready to tackle the iPhone and iPod Touch Learning iPhone Programming will give you a head start on building market ready iPhone apps Start using Xcode right away and learn how to work with Interface Builder Take advantage of model view controller MVC architecture with Objective C Build a data entry interface and learn how to parse and store the data you receive Solve typical problems while building a variety of challenging sample apps Understand the demands and details of App Store and ad hoc distribution Use iPhone s accelerometer proximity sensor GPS digital compass and camera Integrate your app with iPhone s preference pane media playback and more   Xcode 5 Start to Finish Fritz Anderson,2014 Most books about Apple development focus on coding for the iOS and Mac APIs and only incidentally cover Apple s Xcode development tools But Xcode offers developers many powerful opportunities to become more productive and write more reliable efficient code With Xcode 5 Apple s development toolset is more powerful than ever What s more Xcode 5 is required for developers who want to create apps that take full advantage of the new iOS 7 or Mac OS X Mavericks operating systems

This book focuses squarely on Xcode 5 helping both iOS and OS X programmers gain a deep understanding of this remarkable toolset so they can use it to become far more effective developers   *Xcode 6 Start to Finish* Fritz F. Anderson,2015-05-08 Use Xcode 6 to Craft Outstanding iOS and OS X Apps Xcode 6 Start to Finish will help you use Apple s Xcode 6 tools to improve productivity write great code and leverage the newest iOS 8 and OS X Yosemite features including Apple s new Swift programming language Drawing on more than thirty years of experience developing for Apple platforms and helping others do so Fritz Anderson presents a complete best practice workflow that reflects Xcode s latest innovations Through three full sample projects you ll learn to integrate testing source control and other key skills into a high efficiency process that works And all sample code has been completely written in Swift with figures and descriptions that reflect Xcode s radically new interface This is the only Xcode 6 book focused on deep mastery of the tools you ll be living with every day Anderson reveals better ways to storyboard instrument build and compile code and helps you apply new features ranging from Interface Builder Live Rendering to View Debugging and XCTest Performance Testing By the time you re finished you ll have all the Xcode 6 skills you need in order to develop truly exceptional software Coverage includes Working with iOS side dynamic frameworks and iOS OS X extension modules Streamlining Model View and Controller development with Swift Rewriting Objective C functions in Swift Efficiently managing layouts and view hierarchies with size classes Inspecting and fixing interface issues with the new View Debugger Displaying and configuring custom views within Interface Builder via Live Rendering Benchmarking performance within the Xcode 6 unit test framework Leveraging Xcode 6 automated tools to simplify localization Creating new extensions to inject services and UI into other applications Mastering new Swift debugging techniques Register your book at informit com register for access to this title s downloadable code   **Learn Objective-C for Java Developers** James Bucanek,2009-11-18 Learn Objective C for Java Developers will guide experienced Java developers into the world of Objective C It will show them how to take their existing language knowledge and design patterns and transfer that experience to Objective C and the Cocoa runtime library This is the express train to productivity for every Java developer who has dreamed of developing for Mac OS X or iPhone but felt that Objective C was too intimidating So hop on and enjoy the ride Provides a translation service that turns Java problem solving skills into Objective C solutions Allows Java developers to leverage their existing experience and quickly launch themselves into a new domain Takes the risk out of learning Objective C   Xcode 4 Unleashed Fritz F. Anderson,2012-05-07 In Xcode 4 Unleashed renowned Mac iOS developer Fritz Anderson shows how to use Apple s powerful new Xcode 4 integrated development environment to develop outstanding software with the least effort possible Anderson demonstrates Xcode 4 by walking through the construction of three full applications a command line tool an iOS app and a Mac OS X application These case study projects offer practical insights and realistic best practices for efficiently utilizing Xcode 4 in day to day development Next he drills down to offer an even deeper understanding of Xcode 4 s most powerful capabilities Through practical examples he shows experienced Apple

developers how to move to Xcode 4 s browser model from older document based approaches You ll also find thorough up to the minute coverage of key tasks ranging from builds and profiling to documentation He concludes with a chapter length roundup of tips traps and features for maximizing your productivity with Xcode 4 whether you re writing iOS apps or Mac applications working solo or as part of a large development team Detailed information on how to Get started fast with Xcode 4 project workflow Master Xcode 4 s new features and development paradigms Construct modern iOS and Mac user interfaces with Interface Builder Implement Model View Controller designs in iOS apps Use Storyboard to specify an iOS app s entire structure in one file Leverage Xcode s first class unit testing and measurement tools Master the essentials of iOS provisioning Use Mac OS X bindings to simplify the link between data and screen Quickly localize Mac and iOS software for new languages and markets Package and share subprograms that can be integrated into any OS X application Use the Xcode Build System to move from source files to executable products Fully understand and optimize performance and resource usage Register your copy today at informit com register to download a free 90 page guide to 4 4 4 5 feature changes <u>iOS 6 Programming Pushing the Limits</u> 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 <u>The IOS Game Programming Collection (Collection)</u> Michael Daley,Rod Strougo,Ray Wenderlich,2011-12-30 The iOS Game Programming Collection consists of two bestselling eBooks Learning iOS Game Programming A Hands On Guide to Building Your First iPhone Game Learning Cocos2D A Hands on Guide to Building iOS Games with Cocos2D Box2D and Chipmunk Since the launch of the App Store games have been the hottest category of apps for the iPhone iPod touch and iPad That means your best chance of tapping into the iPhone iPad Gold Rush is to put out a killer game that everyone wants to play and talk about While many people think games are hard to build they actually can be quite easy and this collection is your perfect beginner s guide Learning iOS Game Programming walks you through every step as you build a 2D tile map

game Sir Lamorak s Quest The Spell of Release which is free in the App Store You can download and play the game you re going to build while you learn about the code You learn the key characteristics of a successful iPhone game and important terminology and tools you will use Learning Cocos2D walks you through the process of building Space Viking which is free on the App Store a 2D scrolling game that leverages Cocos2D Box2D and Chipmunk As you build Space Viking you ll learn everything you need to know about Cocos2D so you can create the next killer iOS game This collection helps you Plan high level game design components and difficulty levels Use game loops to make sure the right events happen at the right time Render images create sprite sheets and build animations Use tile maps to build large game worlds from small reusable images Create fire explosions smoke sparks and other organic effects Deliver great sound via OpenAL and the iPhone s media player Provide game control via iPhone s touch and accelerometer features Craft an effective intuitive game interface Build game objects and entities and making them work properly Detect collisions and ensuring the right response to them Polish test debug and performance tune your game Install and configure Cocos2D so it works with Xcode 4 Build a complete 2D action adventure game with Cocos2D Build your game s main menu screen for accessing levels Use Cocos2D s Scheduler to make sure the right events happen at the right times Use tile maps to build scrolling game levels from reusable images Add audio and sound effects with CocosDenshion Cocos2D s sound engine Add gravity realistic collisions and ragdoll effects with Box2D and Chipmunk physics engines Add amazing effects to your games with particle systems Leverage Game Center in your game for achievements and leader boards Squeeze the most performance from your games   *Learning Objective-C 2.0* Robert Clair,2012-11-14 Get Started Fast with Objective C 2 0 Programming for OS X Mountain Lion iOS 5 1 and Beyond Fully updated for Xcode 4 4 Learning Objective C 2 0 Second Edition is today s most useful beginner s guide to Objective C 2 0 One step at a time it will help you master the newest version of Objective C 2 0 and start writing high quality programs for OS X 10 8 Mountain Lion iOS 5 1 and all of Apple s newest computers and devices Top OS X and iOS developer Robert Clair first reviews the essential object and C concepts that every Objective C 2 0 developer needs to know Next he introduces the basics of the Objective C 2 0 language itself walking through code examples one line at a time and explaining what s happening behind the scenes This revised edition thoroughly introduces Apple s new Automated Reference Counting ARC while also teaching conventional memory management techniques that remain indispensable Carefully building on what you ve already learned Clair progresses to increasingly sophisticated techniques in areas ranging from frameworks to security Every topic has been carefully chosen for its value in real world day to day programming and many topics are supported by hands on practice exercises Coverage includes Reviewing key C techniques and concepts from program structure and formats to variables and scope Understanding how objects and classes are applied in Objective C 2 0 Writing your first Objective C program with Xcode 4 4 Using messaging to efficiently perform tasks with objects Getting started with Apple s powerful frameworks and foundation classes Using Objective C control structures including Fast Enumeration and exception

handling Adding methods to classes without subclassing Using declared properties to save time and simplify your code Mastering ARC and conventional memory management and knowing when to use each Using Blocks to prepare for concurrency with Apple s Grand Central Dispatch Leveraging Xcode 4 4 improvements to enums and implementation

   Objective-C Phrasebook David Chisnall,2011-01-25 Objective C Phrasebook gives you the code phrases you need to quickly and effectively complete your programming projects with Objective C on systems including iOS and Mac OS X Concise and Accessible Easy to carry and easy to use lets you ditch all those bulky books for one portable pocket guide Flexible and Functional Packed with more than 100 customizable code snippets so you can readily code elegant Objective C in just about any situation   **iPhone OS Development** Richard Wentk,2011-05-09 iPhone OS Development Your visual blueprint for developing apps for Apple s mobile devices provides essential tips tricks and techniques for developing for the iPad iPhone or iPod touch This book covers everything from the key features of the Objective C language to hands on tips for getting the most from the Apple SDK to inside information about programming the touch screen accelerometer GPS graphics sound and connectivity It includes all of the information a new developer needs to create her first application and references facts for more experienced developers who need distilled information about the most important iPad iPhone and iPod touch technologies Also included is a step by step guide to uploading products to the App Store and designing projects that maximize buyer interest and sales potential Note CD ROM DVD and other supplementary materials are not included as part of eBook file   **Learning iOS Game Programming** Michael Daley,2010-09-03 Since the launch of the App Store games have been the hottest category of apps for the iPhone iPod touch and iPad That means your best chance of tapping into the iPhone iPad Gold Rush is to put out a killer game that everyone wants to play and talk about While many people think games are hard to build they can actually be quite easy and Learning iOS Game Programming is your perfect beginner s guide Michael Daley walks you through every step as you build a killer 2D game for the iPhone In Learning iOS Game Programming you ll learn how to build a 2D tile map game Sir Lamorak s Quest The Spell of Release which is free in the App Store You can download and play the game you re going to build while you learn about the code and everything behind the scenes Daley identifies the key characteristics of a successful iPhone game and introduces the technologies terminology and tools you will use Then he carefully guides you through the whole development process from planning storylines and game play all the way through testing and tuning Download the free version of Sir Lamorak s Quest from the App Store today while you learn how to build the game in this book Coverage includes Planning high level game design components and difficulty levels Using game loops to make sure the right events happen at the right time Rendering images creating sprite sheets and building basic animations Using tile maps to build large game worlds from small reusable images Creating fire explosions smoke sparks and other organic effects Delivering great sound via OpenAL and the iPhone s media player Providing game control via iPhone s touch and accelerometer features Crafting an effective intuitive game interface Building game objects and

entities and making them work properly Detecting collisions and ensuring the right response to them Polishing testing debugging and performance tuning your game Learning iOS Game Programming focuses on the features concepts and techniques you ll use most often and helps you master them in a real world context This book is 100% useful and 100% practical there s never been an iPhone game development book like it **IOS 6 Programming Cookbook** Vandad Nahavandipoor,2013 Overcome the vexing issues you ll inevitably confront when creating apps for the iPhone iPad or iPod touch By making use of new and revised recipes in this updated cookbook you ll quickly learn the steps necessary to write complete iOS apps including ways to store and protect data enhance and animate graphics manage files and folders and take advantage of Passbook Thoroughly updated for iOS 6 SDK this cookbook shows you how to use hundreds of techniques to solve problems that developers of all levels commonly face Each recipe includes sample code you can use right away Use Pass Kit to deliver digitally signed passes such as loyalty cards Define the layout of UI elements with Cocoa Auto Layout Develop location aware apps Get working examples for implementing gesture recognizers Use new Objective C Runtime features Play audio and video files and access the iPod library Retrieve contacts and groups from the Address Book Determine camera availability and access the Photo Library Create multitasking aware apps Use Event Kit to manage calendars dates and events Apply the accelerometer and gyroscope Enhance your app with the iCloud service **Sams Teach Yourself iPad Application Development in 24 Hours** John Ray,2010-08-04 The clear easy to understand tutorial for developers who want to write software for today s hottest new device Apple s iPad Figures and code appear as they do in Xcode Covers iOS 3 2 and up In just 24 sessions of one hour or less learn how to build powerful applications for today s hottest tablet device the iPad Using this book s straightforward step by step approach you ll master every skill and technology you need from setting up your Xcode development environment to utilizing the full iPad screen real estate for touchable interfaces integrating maps and media to improving the reliability and performance of your software 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 iPad development tasks Quizzes and Exercises at the end of each chapter help you test your knowledge By the Way notes present interesting information related to the discussion Did You Know tips offer advice or show you easier ways to perform tasks Watch Out cautions alert you to possible problems and give you advice on how to avoid them Printed in full color Learn the features of the Xcode development suite Prepare your system and iPad for efficient development Get started fast with Apple s Objective C and Cocoa Touch Understand the Model View Controller MVC development paradigm Implement advanced application interfaces with interactive widgets and web connected interfaces Enhance the user experience with popovers and other iPad only UI features Build interfaces that adjust to the iPad s orientation Read and write data and navigate it with table views Implement media playback and recording capabilities Integrate your software with the iPad s email photos iPod and address book applications Create map and location based

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