

Erik M. Buck  
Donald A. Yacktman



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

# Cocoa Design Patterns

**Developer's Library**



# Cocoa Design Patterns

**Graham Lee**



## Cocoa Design Patterns:

Cocoa Design Patterns für Mac und iPhone Erik M. Buck, Donald A. Yacktman, 2010 Mit diesem Buch lernt der Leser zahlreiche Patterns kennen die ihm die Programmierung mit dem Mac oder dem iPhone wesentlich vereinfachen werden Anstatt ein Problem von Grund auf neu zu lösen kann er auf Bausteine und bewährte Strategien zurückgreifen so dass sich die Entwicklungszeit dadurch wesentlich verkürzen wird In diesem Buch findet der Leser die wichtigsten Patterns für den Programmieralltag

**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 will 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 will 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* Buck, 2009

**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 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 will 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 will 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 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 **Objective-C 2.0** Sebastian Meyer,Torben Wickers,2011

**Microsoft Silverlight 4** Uwe Rozanski,2010 [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 [1000 iOS & Swift Most Important Interview Questions and Answers](#) Vamsee Puligadda, Get that job you aspire for Want to switch to that high paying job Or are you already been preparing hard to give interview the next weekend Do you know how many people get rejected in interviews by preparing only concepts but not focusing on actually which questions will be asked in the interview Don t be that person this time This is the most comprehensive iOS Swift interview questions book that you can ever find out It contains 1000 most frequently asked and important iOS Swift interview questions and answers Wide range of questions which cover not only basics in iOS Swift but

also most advanced and complex questions which will help freshers experienced professionals senior developers testers to crack their interviews

*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

Sams Teach Yourself Xcode 4 in 24 Hours John Ray,William Ray,2012 A practical guide to using Xcode 4 3 development environment for OS X and iOS devices with step by step instructions for the most common development tasks and end of chapter quizzes

**iPhone App Development: The Missing Manual** Craig Hockenberry,2010-05-03 Anyone with programming experience can learn how to write an iPhone app But if you want to build a great app there s a lot more to it than simple coding you also need to know how design and market your creation This easy to follow guide walks you through the entire process from sketching out your idea to promoting the finished product Get to know the tools for developing your iPhone app Design a great app before you start coding Build a complex app with Xcode and Interface Builder Decide how to brand your app then beta test that brand in the real world Learn the inside scoop on how to get your app into the App Store Promote your product track sales and build a strong customer following

**Instant Opencv for IOS** Alexander Shishkov Kirill Korniyakov,2013-01-01 Filled with practical step by step instructions and clear explanations for the most important and useful tasks This book uses a very practical approach with each recipe and their associated sample projects or examples focusing on a particular aspect of the technology This book is intended for OpenCV developers who are interested in porting their applications to the iOS platform Basic experience with OpenCV computer vision Objective C and other iOS tools is encouraged

*Learning Swift* Jonathon Manning,Paris Buttfield-Addison,Tim Nugent,2018-03-27 Get valuable hands on experience with Swift the open source programming language developed by Apple With this practical guide skilled programmers with little or no knowledge of Apple development will learn how to code with the latest version of Swift by developing a working iOS app from start to finish You ll begin with Swift programming basics including guidelines for making your code Swifty and learn how to work with Xcode and its built in Interface Builder Then you ll dive step by step into building and customizing a basic app for taking editing and deleting selfies You ll also tune and test the app for performance and manage the app s presence in the App Store Divided into four parts this book includes Swift 4 basics Learn Swift s basic building blocks and the features of object oriented development Building the Selfiegram app Build model objects and the UI for your selfie app and add location support user settings and notifications Polishing Selfiegram Create a theme and support for sharing and add custom views image overlays and localization Beyond app development Debug and performance test with Xcode automate chores with Fastlane and user test the app with TestFlight

Entwickeln mit dem iPhone SDK Bill Dudney,Chris Adamson,2010-03-31 Das iPhone ist sicher eine der attraktivsten mobilen Plattformen f r die man derzeit programmieren kann Und dieses hochgelobte Buch ist eine der erfolgreichsten Einf hrungen ins Thema in den USA Endlich gibt es diesen Bestseller nun auch als deutsche Ausgabe in bew hrter O Reilly bersetzungsqualit t Entwickeln mit dem iPhone SDK vermittelt Ihnen die

grundlegenden Konzepte und zeigt Ihnen ganz praktisch und konkret wie Sie zu Ihrer eigenen coolen Software für iPhone und iPod touch kommen. Die beiden erfahrenen Autoren zeigen dabei nicht mit ihrem Insiderwissen und warnen vor typischen Fallstricken, damit Sie auch wirklich alles aus dieser Plattform holen können. Mehr als 50 Beispielprogramme machen Entwickeln mit dem iPhone SDK zu einem wertvollen Begleiter bei Ihrer App-Programmierung, der weit über die einschlägige Entwicklerdokumentation hinausgeht.

**Swift im Detail** Thomas Sillmann, 2015-03-05 SWIFT IM DETAIL Für alle, die in Apples neue Programmiersprache einsteigen wollen: iOS, OS X-Entwickler, App-Entwickler aller Couleur, Einsteiger ohne Programmierkenntnisse. Von den Basics bis zu fortgeschrittenen Techniken. Mit zahlreichen Vergleichen zu Objective-C-Code-Beispielen und zusätzliche Infos sind auf der Autorenwebsite abrufbar. Dieses Buch ist unentbehrlich für alle, die mit Swift ihre eigenen Apps programmieren wollen. Es eignet sich bestens sowohl für komplette Neueinsteiger als auch für erfahrene Programmierer. Fundiert und praxisnah zeigt es Ihnen von Grund auf, wie Sie alle Facetten und Eigenheiten der Sprache optimal verwenden können. Von der grundlegenden Erstellung von Variablen, Konstanten und Funktionen über die objektorientierte Programmierung mittels Klassen und Methoden bis hin zu Subscripts, Generics und Access Control vermittelt Ihnen Autor Thomas Sillmann sämtliche Sprachmerkmale und Besonderheiten von Swift. Zudem werden an jeweils passender Stelle Vergleiche zwischen Swift und Objective-C angestellt, so dass iOS/OS X-Entwickler schnell erkennen können, wie sie bestimmte Aufgaben mit Swift angehen und lösen. In einem Extra-Kapitel wird darüber hinaus gezeigt, wie Sie Objective-C und Swift-Code mischen und bestehende Projekte nach Swift migrieren können.

**AUS DEM INHALT:** Grundlagen, Variablen, Konstanten, Abfragen, Funktionen, Fundamental Types, Enumerations, Structures, Klassen, Properties, Methoden, Optionals, Initialisierung, Deinitialisierung, Speicherverwaltung, Extensions, Protocols, Generics, Access Control, Swift, Cocoa, Objective-C, Swift, Xcode.

Learning iOS Programming Alasdair Allan, 2013-03-12 Get a rapid introduction to iPhone, iPad and iPod touch programming. With this easy-to-follow guide, you'll learn how to develop your first marketable iOS application from opening Xcode to submitting your product to the App Store. Whether you're a developer new to Mac programming or an experienced Mac developer ready to tackle iOS, this is your book. You'll learn about Objective-C and the core frameworks hands-on by writing several sample iOS applications, giving you the basic skills for building your own applications independently. Packed with code samples, this book is refreshed and updated for iOS 6 and Xcode 4. Discover the advantages of building native iOS apps. Get started with Objective-C and the Cocoa Touch frameworks. Dive deep into the UITableView classes for building user interfaces. Handle data input, parse XML and JSON documents and store data on SQLite. Use iOS sensors including the accelerometer, magnetometer, camera and GPS. Build apps that use the Core Location and MapKit frameworks. Integrate Apple's iCloud service into your applications. Walk through the process of distributing your polished app to the App Store.

Entwicklung und Vermarktung von Handy-Apps: Einstieg in die Welt der mobilen Applikationen Harald Koppay, 2012 Dieses Buch behandelt Aspekte der Entwicklung und Vermarktung mobiler Applikationen. Es werden

zunächst grundlegende Fragestellungen zu den Charakteristika von mobilen Applikationen beantwortet. Dazu gehören Fragen wie: Was sind mobile Applikationen (Apps) überhaupt? Wie grenzen sie sich von anderen Applikationstypen ab? Was sind die mobilen Plattformen, auf denen Apps laufen, und so weiter. Weiterführend werden Fragen der Entwicklung mobiler Applikationen betrachtet, die im Ergebnis einen grundlegenden Überblick über Entwicklungs-Tools, Methoden und Sprachen vermitteln sollen. Dieser Überblick kann dem gebeten Programmierer bereits dazu verhelfen, eine eigene rudimentäre App für die verschiedenen mobilen Plattformen zu entwickeln. Ebenso werden Fragen der Vermarktung mobiler Applikationen beantwortet: Welches sind die Geschäftsmodelle für Apps? Welche Vertriebskanäle gibt es? Welche Umsätze werden im Markt der mobilen Applikationen erzielt? Mit welchen Erlösen kann ich als Entwickler rechnen? Der Fokus der Betrachtungen liegt auf den drei führenden Systemen: Google Android, Apple iOS und Microsoft Windows Phone, wobei das quelloffene Android-System eingehender behandelt wird. Ein wesentliches Ergebnis dieser Untersuchung ist ein detaillierter Vergleich der drei Plattformen unter schwerpunktmäßigen Gesichtspunkten der Anwendungs-Entwicklung.

**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.

**Test-Driven iOS Development** Graham Lee, 2012-04-12. 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 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



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### **Cocoa Design Patterns Introduction**

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