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Swift 2 Design Patterns

Build robust and scalable iOS and Mac OS X game applications

Julien Lange

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Swift 2 Design Patterns Julien Lange, 2015-10-28 Build robust and scalable iOS and Mac OS X game applications About This Book Learn to use and implement the 23 Gang of Four design patterns using Swift 2 Design and architect your code for Swift application development Understand the role generic UML design and participants in the class diagram of the pattern by implementing them in a step by step approach Who This Book Is For This book is intended for competent Swift developers who want to apply enduring design patterns with Swift to structure and scale their application code What You Will Learn Choose the appropriate pattern depending on the problem to be solved Understand the generic class diagram of each of the 23 GoF patterns and how each object participates in the pattern Use Swift to implement these patterns even though the language doesn't provide all of the object oriented programming concepts such as abstract class interface and so on Architect your software to avoid the overuse of memory time spent on calculations or high network traffic Find the best way to organize your code to make it more secure from the outside world Prepare your code to make it more flexible when the consumer changes or the third party component hidden code changes Structure your code to change the algorithm to apply at runtime Deliver Flyweight responsibility to your objects In Detail Swift is a multi paradigm language It has expressive features familiar to those used to work with modern functional languages while also keeping the object oriented features of Objective C It remains compatible with Apple's legacy codes and frameworks A design pattern systematically names motivates and explains a general design that addresses a recurring design problem in object oriented systems It describes the problem the solution when to apply the solution and its consequences It also gives implementation hints and examples Knowledge about design patterns is also one of the best ways to make you different compared to other low level developers This book shows you how to use Swift 2 to learn about 23 Gang of Four GoF design patterns and is organized into three categories The book will present you the five creational patterns followed by the seven structural patterns and finishing with the 11 behavioral patterns as defined by the GoF Each chapter will introduce the pattern by defining its role which common problems the pattern should be used for its generic UML representation how each objects presented in the class diagram participate in the pattern and what the role of each of these objects is The book then presents you with a concrete case as an illustration that will be used to implement the pattern using Swift Style and approach A step by step tutorial completed with screenshots and code highlights wherever necessary Each chapter discusses one or more patterns with its definitions and a simple to follow illustration case using a playground or XCTText project to implement it with Swift

Design Patterns in Swift 5 Karoly Nyisztor, 2021-07-27 Software developers need to solve various problems Many times these problems are the same or similar to the ones they've already encountered in other projects Wouldn't it be great to apply the solution you've found instead of reinventing the wheel over and over again That's precisely the reason why software design patterns exist A design pattern is a standardized way to address a recurring problem Relying on a proven strategy will not only save you time

but you can rest assured that it's indeed the right choice Design patterns are the result of a long evolution process It all started with a book published in 1994 yes it's that old called Design Patterns Elements of Reusable Object Oriented Software That's a quite tedious title so we usually refer to it as the book by the gang of four The gang consists of four renowned software engineers Erich Gamma Ralph Johnson Richard Helm and John Vlissides They identified the most significant common issues that occurred in multiple projects and developed best practices to solve them The best part these solutions are programming language agnostic You can use the design patterns with any object oriented programming language Many modern programming languages and frameworks have integrated the GoF patterns You don't have to write additional code to support say the Iterator or the Observer Swift is no exception it provides many advanced language features and constructs such as type extensions lazy initialization and predefined protocols that let us adopt and integrate the design patterns into our projects easily This book covers all these topics and teaches best practices you can apply in your upcoming projects We'll talk about the benefits of understanding and applying the design patterns the value they provide and also about their limitations Then we delve into the creational design patterns the Singleton the Prototype the Factory Method the Builder and the Abstract Factory design pattern We're going to take a closer look at the structural design patterns We discuss the Adapter the Decorator the Faade the Flyweight and the Proxy pattern In the final part of this book we discuss the behavioral design patterns the Chain of Responsibility the Iterator the Observer and we finish with the State design pattern For each design pattern we discuss the following When to use the specific design pattern How can it be implemented using Swift 5 What are the challenges and pitfalls of using the given pattern Throughout the book I provide coding examples that can be applied in real world situations Károly Nyisztor is a veteran software engineer and instructor He has worked with large companies such as Apple Siemens and SAP Károly has designed and built several enterprise frameworks and he holds twelve patents related to inventions in the field of mobile computing After 18 years he left the corporate world to start his own business Since 2016 he's fully committed to teaching As an instructor he aims to share his 20 years of software development expertise Károly teaches Software Architecture Object Oriented Programming and Design Swift and iOS Programming and other programming related topics You can find Károly Nyisztor's courses and books on all major platforms including Amazon Lynda LinkedIn Learning Pluralsight Udemy and iTunes [Pro Design Patterns in Swift](#) Adam Freeman, 2015-01-17 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 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

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'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 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

Swift Design Patterns Mihir Das, 2024-07-23

DESCRIPTION Swift Apple's intuitive and feature rich programming language has revolutionized the landscape of app development Its clear syntax and powerful capabilities make it a go to choice for developers of all levels Swift Design Patterns brings an exciting set of design patterns that makes the process of app development simpler quicker and error free Understand implement and run the various design patterns such as architectural patterns creative patterns behavioral patterns and structural patterns The book teaches each of these patterns in detail explores its coding architecture principle components and layers and how they work together to build robust and efficient Swift applications While doing so it also

explores the most effective design tools Figma and Zeplin and how to use them effectively By the end of this book you will be equipped with the knowledge and skills to design and implement complex Swift applications using proven design patterns You will be able to write cleaner more efficient and reusable code making you a more proficient Swift developer

KEY FEATURES Comprehensive coverage of essential Swift design patterns Learn to apply design patterns effectively in Swift projects through real world examples and code snippets Learn proven techniques for writing clean efficient and maintainable Swift code **WHAT YOU WILL LEARN** Implement essential Swift design patterns in your projects Write clean maintainable code and design scalable apps using SOLID and architectural patterns Reactive programming with RxSwift and testing with XCTest Collaborate effectively with design teams using Zeplin and Figma Enhance app performance with optimized design solutions **WHO THIS BOOK IS FOR** Application developer Swift programmer iOS Application Engineer and all software programmers who know Swift and want to develop efficient and high performing applications with minimal time and high quality of codes

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Design Patterns by Tutorials (Third Edition): Learning Design Patterns in Swift Joshua Greene, Jay Strawn, Raywenderlich Tutorial

Team, 2019-11-26 Learn iOS Design Patterns Design patterns are reusable solutions to common development problems They aren't project specific so you can adapt and use them in countless apps By learning design patterns you'll become a better developer save time and work less **Design Patterns by Tutorials** is here to help This book is the easiest and fastest way to get hands on experience with the iOS design patterns you need to know Who This Book Is For Whether you're a beginner intermediate or advanced iOS developer this book is for you You can either read this book from cover to cover or skip around to just the patterns you want to learn **Topics Covered in Design Patterns by Tutorials** Getting Started You'll first learn about how design patterns work and how they can help you build better cleaner apps Fundamental Patterns You'll progress onto fundamental design patterns such as MVC Delegation and Strategy which you're likely to use on every iOS app Intermediate Patterns You'll then learn about intermediate design patterns such as MVVM Factory and Adapter which are less common than fundamental patterns but still very useful for most apps You'll finish off by learning about advanced design patterns including Flyweight Mediator and Command You likely won't use these on every app but they may be just what you need to solve a difficult problem One thing you can count on after reading this book you'll be well prepared to use design patterns in your own apps

Design Patterns by Tutorials Raywenderlich Com Team, Joshua Greene, Jay Strawn, 2018-07-17 Learn iOS Design Patterns Design patterns are reusable solutions to common development problems They aren't project specific so you can adapt and use them in countless apps By learning design patterns you'll become a better developer save time and

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Practical Design Patterns in Swift ,2019 Build more functional robust and future proof code using software design patterns Learn how to implement the most popular Gang of Four design patterns with Swift [App Architecture](#) Chris Eidhof,Matt Gallagher,Florian Kugler,2018-05-13 This book explains a range of application design patterns and their implementation techniques using a single example app fully implemented in five design patterns Instead of advocating for any particular pattern we lay out the problems all architectures are trying to address constructing the app s components communicating between the view and the model and handling non model state We show high level solutions to these problems and break them down to the level of implementation for five different design patterns two commonly used and three more experimental The common architectures are Model View Controller and Model View ViewModel Coordinator In addition to explaining these patterns conceptually and on the implementation level we discuss solutions to commonly encountered problems like massive view controllers On the experimental side we explain View State Driven Model View Controller ModelAdapter ViewBinder and The Elm Architecture By examining these experimental patterns we extract valuable lessons that can be applied to other patterns and to existing code bases

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