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Head First

Design Patterns

Building Extensible
& Maintainable
Object-Oriented
Software

Eric Freeman &
Elisabeth Robson

with Kathy Sierra & Bert Bates



A Brain-Friendly Guide

Head First Design Patterns

Joachim Goll



Head First Design Patterns:

Head First Design Patterns Eric Freeman, Elisabeth Robson, Elisabeth Freeman, Kathy Sierra, Bert Bates, 2004-10-25 You're not alone. At any given moment somewhere in the world someone struggles with the same software design problems you have. You know you don't want to reinvent the wheel or worse a flat tire so you look to Design Patterns: the lessons learned by those who've faced the same problems. With Design Patterns you get to take advantage of the best practices and experience of others so that you can spend your time on something else. Something more challenging. Something more complex. Something more fun. You want to learn about the patterns that matter: why to use them, when to use them, how to use them, and when NOT to use them. But you don't just want to see how patterns look in a book; you want to know how they look in the wild, in their native environment, in other words, in real world applications. You also want to learn how patterns are used in the Java API and how to exploit Java's built-in pattern support in your own code. You want to learn the real OO design principles and why everything your boss told you about inheritance might be wrong and what to do instead. You want to learn how those principles will help the next time you're up a creek without a design pattern. Most importantly, you want to learn the secret language of Design Patterns so that you can hold your own with your co-worker and impress cocktail party guests when he casually mentions his stunningly clever use of Command, Facade, Proxy, and Factory in between sips of a martini. You'll easily counter with your deep understanding of why Singleton isn't as simple as it sounds, how the Factory is so often misunderstood, or on the real relationship between Decorator, Facade, and Adapter. With Head First Design Patterns you'll avoid the embarrassment of thinking Decorator is something from the Trading Spaces show. Best of all, in a way that won't put you to sleep. We think your time is too important and too short to spend it struggling with academic texts. If you've read a Head First book, you know what to expect: a visually rich format designed for the way your brain works. Using the latest research in neurobiology, cognitive science, and learning theory, Head First Design Patterns will load patterns into your brain in a way that sticks. In a way that lets you put them to work immediately. In a way that makes you better at solving software design problems and better at speaking the language of patterns with others on your team.

Head First Design Patterns
Eric Freeman, Elisabeth Robson, 2020-11-24 What will you learn from this book? You know you don't want to reinvent the wheel, so you look to Design Patterns: the lessons learned by those who've faced the same software design problems. With Design Patterns you get to take advantage of the best practices and experience of others so you can spend your time on something more challenging. Something more fun. This book shows you the patterns that matter, when to use them, and why, how to apply them to your own designs, and the object-oriented design principles on which they're based. Join hundreds of thousands of developers who've improved their object-oriented design skills through Head First Design Patterns. What's so special about this book? If you've read a Head First book, you know what to expect: a visually rich format designed for the way your brain works. With Head First Design Patterns 2E you'll learn design principles and patterns in a way that won't put you

to sleep so you can get out there to solve software design problems and speak the language of patterns with others on your team

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Head First C# Andrew Stellman, Jennifer Greene, 2010-05-18 This book covers C# .NET 4.0 and Visual Studio 2010 and teaches everything from inheritance to serialization book cover

Head First Design Patterns Eric Freeman, Elisabeth Robson, 2020 You know you don't want to reinvent the wheel so you look to design patterns the lessons learned by those who've faced the same software design problems With design patterns you get to take advantage of the best practices and experience of others so that you can spend your time on something more challenging Something more fun This book shows you the patterns that matter when to use them and why how to apply them to your own designs and the object oriented design principles on which the patterns are based Most importantly you want to learn design patterns in a way that won't put you to sleep If you've read a Head First book you know what to expect a visually rich format designed for the way your brain works Newly updated and expanded Head First Design Patterns 2E will load patterns into your brain in a way that sticks In a way that makes you better at solving software design problems and better at speaking the language of patterns with others on your team Join the hundreds of thousands of developers who have already improved their object oriented design skills through Head First Design Patterns

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Java Enterprise in a Nutshell

Jim Farley, William Crawford, 2006 With the recent release of Java 2 Enterprise Edition 1.4 developers are being called on to add even greater more complex levels of interconnectivity to their applications To do this Java developers need a clear understanding of how to apply the new APIs and the capabilities and pitfalls in the program which they can discover in this edition

Head First Programming Paul Barry, David Griffiths, 2009-11-23 Head First Programming introduces the core concepts of writing computer programs providing readers with the basic tools to better understand what software can and cannot do

HTML mit CSS & XHTML von Kopf bis Fuß Elisabeth Freeman, Eric Freeman, 2006 Wer sein erstes von Kopf bis Fuß Buch in den Händen hält denkt wohl erst einmal an einen Witz Einen O'Reilly Witz aus der Programmierer Ecke Das Layout ist durchzogen von handgekritzelten Notizen und sieht irgendwie eher aus wie ein Storyboard für Gute Zeiten schlechte Zeiten als ein Computerbuch Dazu sind die Texte irgendwie anders Gar nicht fachlich sondern irgendwie unkonventionell Wer sich nun aber abschrecken lässt und lieber auf die herkömmliche rein ordentliche Text Listen Beispiel Variante zurückschreift wird einen bestimmten sehr erstaunlichen Effekt verpassen Computerbücher müssen nicht schwierig und langweilig sein nur weil sie ein schwieriges und mitunter langweiliges Thema behandeln HTML mit CSS und XHTML von Kopf bis Fuß funktioniert Sehr gut sogar Locker flockig lustig durchzogen mit Gedanken und Anregungen zum Denken Ratseln und unkonventionellen Beispielen ist das eher Unterhaltung als graue Theorie Als Leser rutscht man anstatt zu stolpern quasi durch den Inhalt und fällt sich dennoch immer im Mittelpunkt und ernst genommen Am Ende hat man gelernt was es zu lernen gibt HTML XHTML CSS sind keine Fremdwörter mehr sondern Handwerkszeug das selbstständig und effektiv für eine Aufgabe eingesetzt werden kann

Computerspiele programmieren Klaus Breuer, 2012-12-04 Wie kann man ein Spiel programmieren Welche programmtechnischen Hintergründe sind dazu nötig Dieses Buch bietet eine Zusammenstellung vieler nützlicher Anregungen zu den Grundlagen und Ideen der Künstlichen Intelligenz in Computerspielen und einen unmittelbaren Einstieg in die Programmierpraxis Nach der Lektüre dieses Buches kann der Leser direkt mit der Programmierung seines ersten Spiels starten Auf besonders einfache und humorvolle Art stellt der Autor komplizierte und oft buchfüllende Themen wie Finite State Machine Fuzzy Logic Neuronale Netze und Schwarmintelligenz vor ohne den Leser dabei an eine bestimmte Programmiersprache zu binden Für jedes Kapitel gibt es eine Reihe von hilfreichen Links auf weiterführende Inhalte im Internet

Java von Kopf bis Fuß Kathy Sierra, Bert Bates, 2006 Java von Kopf bis Fuß ist eine umfassende Erlebnistour durch die Objektorientierte Programmierung und Java Ganz nach modernen Lernprinzipien entworfen führt Sie dieses Buch von den Grundlagen der Sprache zu fortgeschrittenen Themen wie Threads Netzwerk Sockets und verteilter Programmierung Und das Beste ist Sie werden dabei lernen wie ein echter objektorientierter Entwickler zu denken Auf Ihrem Weg dorthin werden Sie nicht nur lesen Sie knacken Rätsel spielen lösen Krimis und kommen mit Java auf eine Weise zusammen die Sie sich nicht hätten trauen lassen Aber natürlich werden Sie

Head First Rails David Griffiths, 2009 With the bestselling Head First approach web application developers quickly learn how to build database centric applications

using the Rails framework ASP.NET MVC Framework Unleashed Stephen Walther, 2009-07-14 In this book world renowned ASP NET expert and member of the Microsoft ASP NET team Stephen Walther shows experienced developers how to use Microsoft's new ASP NET MVC Framework to build web applications that are more powerful flexible testable manageable scalable and extensible Writing for professional programmers Walther explains the crucial concepts that make the Model View Controller MVC development paradigm work so well and shows exactly how to apply them with the ASP NET MVC Framework From controllers and actions to views and models Walther demonstrates how to apply each ASP NET MVC Framework feature in real world projects In Part II you'll walk step by step through building a full fledged ASP NET MVC blog application that implements capabilities ranging from data access to validation Through this case study you'll learn how to build ASP NET MVC applications using test driven development processes that enable rapid feedback greater productivity and better quality Throughout Walther presents extensive code examples reflecting his unsurpassed experience as an ASP NET instructor a leading commercial developer and now as a member of Microsoft's ASP NET development team Understand how to Build enterprise scale web applications far more rapidly and effectively Develop web applications that are easier to maintain and extend over time Gain unprecedented control over the appearance of your website or application Expose intuitive URLs that are friendlier to search engines and users alike Create ASP NET MVC models that contain all your application's business validation and data access logic Make the most of HTML helpers model binders action filters routing and authentication Efficiently deploy your ASP NET MVC applications Use the lightweight JQuery JavaScript library to easily find and manipulate HTML elements Create ASP NET MVC applications using unit test and mock object framework Head First Ajax Rebecca M. Riordan, 2008-08-26 Ajax is no longer an experimental approach to website development but the key to building browser based applications that form the cornerstone of Web 2.0 Head First Ajax gives you an up to date perspective that lets you see exactly what you can do and has been done with Ajax With it you get a highly practical in depth and mature view of what is now a mature development approach Using the unique and highly effective visual format that has turned Head First titles into runaway bestsellers this book offers a big picture overview to introduce Ajax and then explores the use of individual Ajax components including the JavaScript event model DOM XML JSON and more as it progresses You'll find plenty of sample applications that illustrate the concepts along with exercises quizzes and other interactive features to help you retain what you've learned Head First Ajax covers The JavaScript event model Making Ajax requests with XMLHttpRequest objects The asynchronous application model The Document Object Model DOM Manipulating the DOM in JavaScript Controlling the browser with the Browser Object Model XHTML Forms POST Requests XML Syntax and the XML DOM tree XML Requests Responses JSON an alternative to XML Ajax architecture patterns The Prototype Library The book also discusses the server side implications of building Ajax applications and uses a black box approach to server side components Head First Ajax is the ideal guide for experienced web developers comfortable with scripting particularly those

who have completed the exercises in Head First JavaScript and for experienced programmers in Java PHP and C who want to learn client side programming

Fluent Python Luciano Ramalho, 2022-03-31 Don't waste time bending Python to fit patterns you've learned in other languages Python's simplicity lets you become productive quickly but often this means you aren't using everything the language has to offer With the updated edition of this hands on guide you'll learn how to write effective modern Python 3 code by leveraging its best ideas Discover and apply idiomatic Python 3 features beyond your past experience Author Luciano Ramalho guides you through Python's core language features and libraries and teaches you how to make your code shorter faster and more readable Complete with major updates throughout this new edition features five parts that work as five short books within the book Data structures Sequences dicts sets Unicode and data classes Functions as objects First class functions related design patterns and type hints in function declarations Object oriented idioms Composition inheritance mixins interfaces operator overloading protocols and more static types Control flow Context managers generators coroutines async await and thread process pools Metaprogramming Properties attribute descriptors class decorators and new class metaprogramming hooks that replace or simplify metaclasses

Head First Servlets and JSP Bryan Basham, Kathy Sierra, Bert Bates, 2008-03-25 This book gets readers up to speed on the technology necessary to write servlets and JSPs what makes the Container tick how to use the new JSP Expression Language EL how to write deployment descriptors and even how to use some server side design patterns

Methoden und Architekturen der Softwaretechnik Joachim Goll, 2012-02-08 Software ist ein unverzichtbarer Anteil zahlreicher heutiger Systeme Ihre Erstellung beinhaltet im Idealfall einen standardisierten methodischen Entwicklungsprozess der für alle am Projekt Beteiligten verständlich ist und quasi die Sprache des Projekts darstellt Das Hauptziel dieses Buches ist die methodische stabile und standardisierte Konstruktion von Software Systemen Behandelt werden hier insbesondere die einzelnen Schritte der Entwicklung nämlich das Erstellen von Requirements funktionsorientierte datenorientierte und objektorientierte Konzepte für die Systemanalyse und den Systementwurf sowie das Testen von Systemen Entwurfs und Architekturmuster sowie aspektorientierte Ansätze runden das Spektrum dieses Buches ab

□□□□□□□□, 2005 Naked presenter Garr Reynolds, 2011 Garr Reynolds

Der Weg zum Java-Profi Michael Inden, 2020-12-04 Standardwerk in 5 Neuauflage Das Standardwerk für die professionelle Javaentwicklung Fundierter Überblick über Profithemen die man sonst nicht findet Alles was man braucht um im Coding Job mithalten zu können Dieses Buch bietet eine umfassende Einführung in die professionelle Java Entwicklung und vermittelt Ihnen das notwendige Wissen um stabile und erweiterbare Softwaresysteme auf Java SE Basis zu bauen Praxisnahe Beispiele helfen dabei das Gelernte rasch umzusetzen Neben der Praxis wird viel Wert auf das Verständnis zugrunde liegender Konzepte gelegt Dabei kommen dem Autor Michael Inden seine umfangreichen Schulungs und Entwicklererfahrungen zugute und Ihnen als Leser damit ebenso Diese Neuauflage wurde durchgehend bearbeitet und aktualisiert und berücksichtigt die Java Versionen 9 bis 15 Ansonsten wurde der bewährte Themenmix der Voraufgaben

beibehalten Grundlagen Analyse und Design Professionelle Arbeitsumgebung Objektorientiertes Design Lambdas Java Grundlagen Bausteine stabiler Java Applikationen Collections Framework Stream API Datumsverarbeitung seit JDK 8 Applikationsbausteine Multithreading Grundlagen Modern Concurrency Fortgeschrittene Java Themen Basiswissen Internationalisierung Fallstricke und Lösungen Bad Smells Refactorings Entwurfsmuster Qualitätssicherung Programmierstil und Coding Conventions Unit Tests Codereviews Optimierungen Darüber hinaus thematisiert je ein Kapitel die Neuerungen in Java 12 bis 15 sowie die Modularisierung mit Project Jigsaw Ergänzt wird das Ganze durch einen Anhang mit einer Überblick über Grundlagen zur Java Virtual Machine Es ist wirklich ein gelungenes Buch für Java Programmierer die ihre Kenntnisse vertiefen und professionalisieren wollen und wissen de Vom motivierten Einsteiger bis zum Java Profi ein in Breite und Tiefe überzeugendes Werk empfehle ich jedem der sich ernsthaft mit professioneller Java Entwicklung auseinandersetzen möchte

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