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Design Patterns: A Brain  
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# Head First Design Patterns: A Brain Friendly Guide

"Head First Object Oriented Analysis and Design is a refreshing look at subject of OOAD. What sets this book apart is its focus on learning. The authors have made the content of OOAD accessible, usable for the practitioner." Ivar Jacobson, Ivar Jacobson Consulting "I just finished reading HF OOA&D and I loved it! The thing I liked most about this book was its focus on why we do OOA&D-to write great software!" Kyle Brown, Distinguished Engineer, IBM

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"Hidden behind the funny pictures and crazy fonts is a serious, intelligent, extremely well-crafted presentation of OO Analysis and Design. As I read the book, I felt like I was looking over the shoulder of an expert designer who was explaining to me what issues were important at each step, and why." Edward Sciore, Associate Professor, Computer Science Department, Boston College Tired of reading Object Oriented Analysis and Design books that only makes sense after you're an expert? You've heard OOA&D can help you write great software every time-software that makes your boss happy, your customers

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satisfied and gives you more time to do what makes you happy. But how? Head First Object-Oriented Analysis & Design shows you how to analyze, design, and write serious object-oriented software: software that's easy to reuse, maintain, and extend; software that doesn't hurt your head; software that lets you add new features without breaking the old ones. Inside you will learn how to: Use OO principles like encapsulation and delegation to build applications that are flexible Apply the Open-Closed Principle (OCP) and the Single Responsibility Principle (SRP) to promote reuse of your code

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Leverage the power of design patterns to solve your problems more efficiently Use UML, use cases, and diagrams to ensure that all stakeholders are communicating clearly to help you deliver the right software that meets everyone's needs. By exploiting how your brain works, Head First Object-Oriented Analysis & Design compresses the time it takes to learn and retain complex information. Expect to have fun, expect to learn, expect to be writing great software consistently by the time you're finished reading this! What will you learn from this book? It's no secret the world around you is becoming more

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connected, more configurable, more programmable, more computational. You can remain a passive participant, or you can learn to code. With Head First Learn to Code you'll learn how to think computationally and how to write code to make your computer, mobile device, or anything with a CPU do things for you. Using the Python programming language, you'll learn step by step the core concepts of programming as well as many fundamental topics from computer science, such as data structures, storage, abstraction, recursion, and modularity. Why does this book look so different? Based on the

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latest research in cognitive science and learning theory, Head First Learn to Code uses a visually rich format to engage your mind, rather than a text-heavy approach that puts you to sleep. Why waste your time struggling with new concepts? This multi-sensory learning experience is designed for the way your brain really works. 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

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patterns with others on your team.

Ever wished you could learn Python from a book? Head First Python is a complete learning experience for Python that helps you learn the language through a unique method that goes beyond syntax and how-to manuals, helping you understand how to be a great Python programmer. You'll quickly learn the language's fundamentals, then move onto persistence, exception handling, web development, SQLite, data wrangling, and Google App Engine. You'll also learn how to write mobile apps for Android, all thanks to the power that Python

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gives you. We think your time is too valuable to waste struggling with new.

Head First Design Patterns  
Poster

Head First HTML5 Programming  
A learner's companion to Ruby on Rails

Head First Data Analysis  
Elements of Reusable Object-Oriented Software

Provides design patterns to help with software development using the Java programming language.

What will you learn from this book? If you have an idea for a killer Android app, this fully revised and updated edition will get you up and running in a jiffy. You'll go beyond syntax and how-to manuals and learn how to think like a great Android developer. This hands-



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on book teaches you everything from designing user interfaces to building multi-screen apps that persist data in a database. It covers the latest features of Android Jetpack, including Jetpack Compose. It's like having an experienced Android developer sitting right next to you! If you have some Kotlin know-how, you're ready to get started. Why does this book look so different? Based on the latest research in cognitive science and learning theory, Head First Android Development uses a visually rich format to engage your mind rather than a text-heavy approach that puts you to sleep. Why waste your time struggling with new concepts? This multisensory learning experience is designed for the way your brain really works.

Presents a collection of reusable

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design artifacts, called generic components, together with the techniques that make them possible. The author describes techniques for policy-based design, partial template specialization, typelists, and local classes, then goes on to implement generic components for smart pointers, object factories, functor objects, the Visitor design pattern, and multimethod engines. c. Book News Inc.

A guide for data managers and analyzers shares guidelines for identifying patterns, predicting future outcomes, and presenting findings to others; drawing on current research in cognitive science and learning theory while covering such additional topics as assessing data quality, handling ambiguous information, and organizing data within market groups. Original.

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A New Perspective on Object-Oriented  
Design

Building Web Apps with JavaScript

A Learner's Guide to Big Numbers,  
Statistics, and Good Decisions

Effective Java

A JavaScript and jQuery Developer's  
Guide

*"One of the great things about the book is the way the authors explain concepts very simply using analogies rather than programming examples—this has been very inspiring for a product I'm working on: an audio-only introduction to OOP and software development." –Bruce Eckel "...I would expect that readers with a basic understanding of object-oriented programming and design*

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*would find this book useful, before approaching design patterns completely. Design Patterns Explained complements the existing design patterns texts and may perform a very useful role, fitting between introductory texts such as UML Distilled and the more advanced patterns books."*

*–James Noble Leverage the quality and productivity benefits of patterns—without the complexity! Design Patterns Explained, Second Edition is the field's simplest, clearest, most practical introduction to patterns. Using dozens of updated Java examples, it shows programmers and architects exactly how to use patterns to*

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*design, develop, and deliver software far more effectively. You'll start with a complete overview of the fundamental principles of patterns, and the role of object-oriented analysis and design in contemporary software development. Then, using easy-to-understand sample code, Alan Shalloway and James Trott illuminate dozens of today's most useful patterns: their underlying concepts, advantages, tradeoffs, implementation techniques, and pitfalls to avoid. Many patterns are accompanied by UML diagrams. Building on their best-selling First Edition, Shalloway and Trott have thoroughly updated this book to*

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*reflect new software design trends, patterns, and implementation techniques. Reflecting extensive reader feedback, they have deepened and clarified coverage throughout, and reorganized content for even greater ease of understanding. New and revamped coverage in this edition includes Better ways to start "thinking in patterns" How design patterns can facilitate agile development using eXtreme Programming and other methods How to use commonality and variability analysis to design application architectures The key role of testing into a patterns-driven development process How to use factories to instantiate and*

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*manage objects more effectively*

*The Object-Pool Pattern—a new pattern not identified by the "Gang of Four" New study/practice questions at the end of every chapter Gentle yet thorough, this book assumes no patterns experience whatsoever. It's the ideal "first book" on patterns, and a perfect complement to Gamma's classic Design Patterns. If you're a programmer or architect who wants the clearest possible understanding of design patterns—or if you've struggled to make them work for you—read this book.*

*Ready to transport your web applications into the Web 2.0 era? Head First Rails takes your*

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*programming -- and productivity -- to the max. You'll learn everything from the fundamentals of Rails scaffolding to building customized interactive web apps using Rails' rich set of tools and the MVC framework. By the time you're finished, you'll have learned more than just another web framework. You'll master database interactions, integration with Ajax and XML, rich content, and even dynamic graphing of your data -- all in a fraction of the time it takes to build the same apps with Java, PHP, ASP.NET, or Perl. You'll even get comfortable and familiar with Ruby, the language that underpins Rails. But you'll do it in the context*



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*of web programming, and not through boring exercises such as "Hello, World!" Your time is way too valuable to waste struggling with new concepts. Using the latest research in cognitive science and learning theory to craft a multi-sensory learning experience, Head First Rails uses a visually rich format designed to take advantage of the way your brain really works. Learning a complex new language is no easy task especially when it s an object-oriented computer programming language like Java. You might think the problem is your brain. It seems to have a mind of its own, a mind that doesn't always want to take in the dry,*

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*technical stuff you're forced to study. The fact is your brain craves novelty. It's constantly searching, scanning, waiting for something unusual to happen. After all, that's the way it was built to help you stay alive. It takes all the routine, ordinary, dull stuff and filters it to the background so it won't interfere with your brain's real work--recording things that matter. How does your brain know what matters? It's like the creators of the Head First approach say, suppose you're out for a hike and a tiger jumps in front of you, what happens in your brain? Neurons fire. Emotions crank up. Chemicals surge. That's how your brain*

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*knows. And that's how your brain will learn Java. Head First Java combines puzzles, strong visuals, mysteries, and soul-searching interviews with famous Java objects to engage you in many different ways. It's fast, it's fun, and it's effective. And, despite its playful appearance, Head First Java is serious stuff: a complete introduction to object-oriented programming and Java. You'll learn everything from the fundamentals to advanced topics, including threads, network sockets, and distributed programming with RMI. And the new, second edition focuses on Java 5.0, the latest version of the Java language and*

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*development platform. Because Java 5.0 is a major update to the platform, with deep, code-level changes, even more careful study and implementation is required. So learning the Head First way is more important than ever. If you've read a Head First book, you know what to expect--a visually rich format designed for the way your brain works. If you haven't, you're in for a treat. You'll see why people say it's unlike any other Java book you've ever read. By exploiting how your brain works, Head First Java compresses the time it takes to learn and retain--complex information. Its unique approach not only shows you what you need*

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*to know about Java syntax, it teaches you to think like a Java programmer. If you want to be bored, buy some other book. But if you want to understand Java, this book's for you.*

*So you're ready to make the leap from writing HTML and CSS web pages to creating dynamic web applications. You want to take your web skills to the next level. And you're finally ready to add "programmer" to the resume. It sounds like you're ready to learn the Web's hottest programming language: JavaScript. Head First JavaScript is your ticket to going beyond copying and pasting the code from someone else's web site,*

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*and writing your own interactive web pages. With Head First JavaScript, you learn: The basics of programming, from variables to types to looping How the web browser runs your code, and how you can talk to the browser with your code Why you'll never have to worry about casting, overloading, or polymorphism when you're writing JavaScript code How to use the Document Object Model to change your web pages without making your users click buttons If you've ever read a Head First book, you know what to expect -- a visually rich format designed for the way your brain works. Head First JavaScript is no exception. It*

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*starts where HTML and CSS leave off, and takes you through your first program into more complex programming concepts -- like working directly with the web browser's object model and writing code that works on all modern browsers. Don't be intimidated if you've never written a line of code before! In typical Head First style, Head First JavaScript doesn't skip steps, and we're not interested in having you cut and paste code. You'll learn JavaScript, understand it, and have a blast along the way. So get ready... dynamic and exciting web pages are just pages away.*

***Head First Object-Oriented***

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## ***Analysis and Design***

## ***Head First Design Patterns***

## ***A Learner's Guide to Creating Standards-Based Web Pages***

## ***Head First C#***

## ***Adaptive Code***

*A rigorous and practical framework for modeling business systems Pares object modeling down to its core concepts, making it easier than ever. Twelve object collaboration patterns that address virtually any business scenario Powerful techniques-not fancy notation! Streamlined Object Modeling presents the first rigorous, practical framework for object*



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*modeling complex business domains, rules, and systems. Three world-renowned leaders in object development have pared object modeling down to the core concepts for all business domains, business rules, and business services. Starting from the first principles of "object think," the authors offer a fully integrated approach to building, validating, and critiquing object models. Coverage includes: Proven principles and techniques for successfully modeling the structure and operations of any business domain. Guidelines for finding and associating objects, assembling object models,*

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and distributing system behavior among objects. Rigorous methods for discovering, organizing, and implementing business rules around objects. Twelve all-encompassing "collaboration patterns"-what they represent, how they relate, and how to apply them. Five kinds of business rules, three types of services, and six categories of properties completely specify object-oriented business requirements From start to finish, the book makes extensive use of examples drawn from real commercial applications. To illustrate how streamlined object modeling flows from analysis

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to code, it also presents a complete case study derived from a real-world application, and implemented in two leading object-oriented languages—Java, and the Squeak implementation of Smalltalk.

Looking to study up for the new J2EE 1.5 Sun Certified Web Component Developer (SCWCD) exam? This book will get you way up to speed on the technology you'll know it so well, in fact, that you can pass the brand new J2EE 1.5 exam. If that's what you want to do, that is. Maybe you don't care about the exam, but need to use servlets and JSPs in your next project. You're

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working on a deadline. You're over the legal limit for caffeine. You can't waste your time with a book that makes sense only AFTER you're an expert (or worse, one that puts you to sleep). Learn how to write servlets and JSPs, what makes a web container tick (and what ticks it off), how to use JSP's Expression Language (EL for short), and how to write deployment descriptors for your web applications. Master the `c:out` tag, and get a handle on exactly what's changed since the older J2EE 1.4 exam. You don't just pass the new J2EE 1.5 SCWCD exam, you'll understand this stuff and

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put it to work immediately. *Head First Servlets and JSP* doesn't just give you a bunch of facts to memorize; it drives knowledge straight into your brain. You'll interact with servlets and JSPs in ways that help you learn quickly and deeply. And when you're through with the book, you can take a brand-new mock exam, created specifically to simulate the real test-taking experience. 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

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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. Head First Design Patterns Poster is a companion to Head First Design Patterns. It summarizes visually, 16 of the most common design patterns including Adapter, Command, Composite Decorator, Observer, Proxy, State, Singleton, Strategy, and more. Each pattern includes a handy page reference to both Head First Design Patterns and the "Gang of Four" text, the

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canonical description of the pattern, and a visual guide designed (and inspired by the examples in Head First Design Patterns) to jog your memory of the objects, classes, and their relationships. In addition, the poster includes the "best of" the Head First "Guide to Better Living with Patterns," including how to read a patterns catalog, the power of a shared vocabulary and annihilating evil with anti-patterns. Visually appealing and truly useful, Head First Design Patterns Poster contains what you need to know at a glance. Head First Design Patterns and this companion poster

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are a great combination that will load patterns into your brain in a way that sticks. What will you learn from this book? Go makes it easy to build software that's simple, reliable, and efficient. And this book makes it easy for programmers like you to get started. Google designed Go for high-performance networking and multiprocessing, but—like Python and JavaScript—the language is easy to read and use. With this practical hands-on guide, you'll learn how to write Go code using clear examples that demonstrate the language in action. Best of all, you'll



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understand the conventions and techniques that employers want entry-level Godevelopers to know. Why does this book look so different? Based on the latest research in cognitive science and learning theory, HeadFirst Go uses a visually rich format to engage your mind rather than a textheavy approach that puts you to sleep. Why waste your time struggling with new concepts? This multisensory learning experience is designed for the way your brain really works.

Head First Servlets and JSP

Head First JavaScript

Programming

Head First Web Design

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*Patterns, Rules, and Implementation*

*Head First Mobile Web*

There's a pattern here, and here's how to use it! Find out how the 23 leading design patterns can save you time and trouble Ever feel as if you've solved this programming problem before? You -- or someone -- probably did, and that's why there's a design pattern to help this time around. This book shows you how (and when) to use the famous patterns developed by the "Gang of Four," plus some new ones, all designed to make your programming life easier.

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Discover how to:

- \* Simplify the programming process with design patterns
- \* Make the most of the Decorator, Factory, and Adapter patterns
- \* Identify which pattern applies
- \* Reduce the amount of code needed for a task
- \* Create your own patterns

Provides information on analyzing, designing, and writing object-oriented software.

Design Patterns in Java™ gives you the hands-on practice and deep insight you need to fully leverage the significant power of design patterns in any Java software project. The perfect complement to the classic Design Patterns, this learn-by-

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doing workbook applies the latest Java features and best practices to all of the original 23 patterns identified in that groundbreaking text. Drawing on their extensive experience as Java instructors and programmers, Steve Metsker and Bill Wake illuminate each pattern with real Java programs, clear UML diagrams, and compelling exercises. You'll move quickly from theory to application—learning how to improve new code and refactor existing code for simplicity, manageability, and performance. Coverage includes Using Adapter to provide consistent

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interfaces to clients Using  
Facade to simplify the use of  
reusable toolkits Understanding  
the role of Bridge in Java  
database connectivity The  
Observer pattern, Model-View-  
Controller, and GUI behavior  
Java Remote Method Invocation  
(RMI) and the Proxy pattern  
Streamlining designs using the  
Chain of Responsibility pattern  
Using patterns to go beyond  
Java's built-in constructor  
features Implementing Undo  
capabilities with Memento Using  
the State pattern to manage  
state more cleanly and simply  
Optimizing existing codebases  
with extension patterns Providing

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thread-safe iteration with the Iterator pattern Using Visitor to define new operations without changing hierarchy classes If you're a Java programmer wanting to save time while writing better code, this book's techniques, tips, and clear explanations and examples will help you harness the power of patterns to improve every program you write, design, or maintain. All source code is available for download at <http://www.oozinoz.com>. A catalog of solutions to commonly occurring design problems, presenting 23 patterns that allow designers to create

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flexible and reusable designs for object-oriented software.

Describes the circumstances in which each pattern is applicable, and discusses the consequences and trade-offs of using the pattern within a larger design.

Patterns are compiled from real systems, and include code for implementation in object-oriented programming languages like C++ and Smalltalk. Includes a bibliography. Annotation

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Modern C++ Design

A Learner's Guide to Coding and Computational Thinking

Design Patterns Explained

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Head First Rails

Head First Ruby

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



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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

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JavaScript developer 's hands. It ' s the go-to book on JavaScript patterns that will be read and referenced many times in the future."—Andr é e Hansson, Lead Front-End Developer, presis!

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

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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.

Are you looking for a deeper

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understanding of the Java™ programming language so that you can write code that is clearer, more correct, more robust, and more reusable? Look no further! Effective Java™, Second Edition, brings together seventy-eight indispensable programmer 's rules of thumb: working, best-practice solutions for the programming challenges you encounter every day. This highly anticipated new edition of the classic, Jolt Award-winning work has been thoroughly updated to cover Java SE 5 and Java SE 6 features introduced since the first edition. Bloch explores new design patterns and language idioms, showing you how to make the most of features ranging from generics

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to enums, annotations to autoboxing. Each chapter in the book consists of several “ items ” presented in the form of a short, standalone essay that provides specific advice, insight into Java platform subtleties, and outstanding code examples. The comprehensive descriptions and explanations for each item illuminate what to do, what not to do, and why. Highlights include: New coverage of generics, enums, annotations, autoboxing, the for-each loop, varargs, concurrency utilities, and much more Updated techniques and best practices on classic topics, including objects, classes, libraries, methods, and serialization How to avoid the traps and pitfalls of

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commonly misunderstood subtleties of the language Focus on the language and its most fundamental libraries: `java.lang`, `java.util`, and, to a lesser extent, `java.util.concurrent` and `java.io` Simply put, Effective Java™, Second Edition, presents the most practical, authoritative guidelines available for writing efficient, well-designed programs.

The biggest challenge facing many game programmers is completing their game. Most game projects fizzle out, overwhelmed by the complexity of their own code. Game Programming Patterns tackles that exact problem. Based on years of experience in shipped AAA titles, this book collects proven patterns to

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untangle and optimize your game, organized as independent recipes so you can pick just the patterns you need. You will learn how to write a robust game loop, how to organize your entities using components, and take advantage of the CPU's cache to improve your performance. You'll dive deep into how scripting engines encode behavior, how quadrees and other spatial partitions optimize your engine, and how other classic design patterns can be used in games.

Streamlined Object Modeling

Design Patterns in Java

A Brain-Friendly Guide

Head First HTML and CSS

A Philosophy of Software Design

What will you learn from this

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book? Dive into C# and create apps, user interfaces, games, and more using this fun and highly visual introduction to C#, .NET Core, and Visual Studio. With this completely updated guide, which covers C# 8.0 and Visual Studio 2019, beginning programmers like you will build a fully functional game in the opening chapter. Then you'll learn how to use classes and object-oriented programming, create 3D games in Unity, and query data with LINQ. And you'll do it all by solving puzzles, doing hands-on exercises, and building real-world applications. By the time you're done, you'll be a solid C# programmer--and you'll



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have a great time along the way!

What's so special about this book? Based on the latest research in cognitive science and learning theory, Head First C# uses a visually rich format to engage your mind rather than a text-heavy approach that puts you to sleep. Why waste your time struggling with new concepts? This multisensory learning experience is designed for the way your brain really works.

What will you learn from this book? What's all the buzz about this Ruby language? Is it right for you? Well, ask yourself: are you tired of all those extra declarations, keywords, and

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compilation steps in your other language? Do you want to be a more productive programmer? Then you'll love Ruby. With this unique hands-on learning experience, you'll discover how Ruby takes care of all the details for you, so you can simply have fun and get more done with less code. Why does this book look so different? Based on the latest research in cognitive science and learning theory, Head First Ruby uses a visually rich format to engage your mind, rather than a text-heavy approach that puts you to sleep. Why waste your time struggling with new concepts? This multi-sensory learning experience is designed

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for the way your brain really works.

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

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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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Tired of reading HTML books that only make sense after you're an expert? Then it's about time you picked up Head First HTML and really learned HTML. You want to learn HTML so you can finally create those web pages you've always wanted, so you can communicate more effectively with friends, family, fans, and fanatic customers. You also want to do it right so you can actually maintain and expand your web pages over time so they work in all browsers and mobile devices. Oh, and if you've never heard of CSS, that's okay--we won't tell anyone you're still partying like it's 1999--but if you're going to create web pages

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in the 21st century then you'll want to know and understand CSS. Learn the real secrets of creating web pages, and why everything your boss told you about HTML tables is probably wrong (and what to do instead). Most importantly, hold your own with your co-worker (and impress cocktail party guests) when he casually mentions how his HTML is now strict, and his CSS is in an external style sheet. With Head First HTML, you'll avoid the embarrassment of thinking web-safe colors still matter, and the foolishness of slipping a font tag into your pages. Best of all, you'll learn HTML and CSS in a way that

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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. Using the latest research in neurobiology, cognitive science, and learning theory, this book will load HTML and CSS into your brain in a way that sticks. So what are you waiting for? Leave those other dusty books behind and come join us in Webville. Your tour is about to begin.

Building Extensible and Maintainable Object-Oriented Software

Head First Design Patterns, 2nd Edition

Head First Java

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Agile coding with design  
patterns and SOLID principles  
Head First Go

**Provides information on  
successful software  
development, covering  
such topics as customer  
requirements, task  
estimates, principles of  
good design, dealing  
with source code, system  
testing, and handling  
bugs.**

**Whether you are building  
a personal blog or a  
corporate website, there  
is a lot more to web  
design than div's and  
CSS selectors, but what**



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do you really need to know? With this book, you'll learn the secrets of designing effective, user-friendly sites, from what will you learn from this book? If you have an idea for a killer Android app, this book will help you build your first working application in a jiffy. You'll learn hands-on how to structure your app, design interfaces, create a database, make your app work on various smartphones and tablets, and much more. It's like

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having an experienced Android developer sitting right next to you! All you need is some Java know-how to get started. Why does this book look so different? Based on the latest research in cognitive science and learning theory, Head First Android Development uses a visually rich format to engage your mind, rather than a text-heavy approach that puts you to sleep. Why waste your time struggling with new

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concepts? This multi-sensory learning experience is designed for the way your brain really works.

HTML has been on a wild ride. Sure, HTML started as a mere markup language, but more recently HTML's put on some major muscle. Now we've got a language tuned for building web applications with Web storage, 2D drawing, offline support, sockets and threads, and more. And to speak this language you've got to

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go beyond HTML5 markup and into the world of the DOM, events, and JavaScript APIs. Now you probably already know all about HTML markup (otherwise known as structure) and you know all about CSS style (presentation), but what you've been missing is JavaScript (behavior). If all you know about are structure and presentation, you can create some great looking pages, but they're still just pages. When you add

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behavior with  
JavaScript, you can  
create an interactive  
experience; even better,  
you can create full  
blown web applications.  
Head First HTML5  
Programming is your  
ultimate tour guide to  
creating web  
applications with HTML5  
and JavaScript, and we  
give you everything you  
need to know to build  
them, including: how to  
add interactivity to  
your pages, how to  
communicate with the  
world of Web services,

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and how to use the great new APIs being developed for HTML5. Here are just some of the things you'll learn in Head First HTML5 Programming: Learn how to make your pages truly interactive by using the power of the DOM. Finally understand how JavaScript works and take yourself from novice to well-informed in just a few chapters. Learn how JavaScript APIs fit into the HTML5 ecosystem, and how to use any API in your web

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artist with Canvas,  
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plugging a video into  
your pages, and create  
custom video  
experiences. Learn the  
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*What will you learn from this  
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*teaches you everything from*

*JavaScript language*

*fundamentals to advanced*

*topics, including objects,*

*functions, and the browser's*

*document object model. You*

*won't just be reading—you'll be*

*playing games, solving puzzles,*

*pondering mysteries, and*

*interacting with JavaScript in*

*ways you never imagined. And*



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***you'll write real code, lots of it, so you can start building your own web applications. Prepare to open your mind as you learn (and nail) key topics including:  
The inner details of JavaScript  
How JavaScript works with the browser  
The secrets of JavaScript types  
Using arrays  
The power of functions  
How to work with objects  
Making use of prototypes  
Understanding closures  
Writing and testing applications  
What's so special about this book? We think your time is too valuable to waste struggling with new concepts.  
Using the latest research in cognitive science and learning theory to craft a multi-sensory***

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***learning experience, Head First JavaScript Programming uses a visually rich format designed for the way your brain works, not a text-heavy approach that puts you to sleep. This book replaces Head First JavaScript, which is now out of print.***

***Write code that can adapt to changes. By applying this book's principles, you can create code that accommodates new requirements and unforeseen scenarios without significant rewrites. Gary McLean Hall describes Agile best practices, principles, and patterns for designing and writing code that can evolve more quickly and easily, with fewer errors,***

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***because it doesn't impede change. Now revised, updated, and expanded, Adaptive Code, Second Edition adds indispensable practical insights on Kanban, dependency inversion, and creating reusable abstractions. Drawing on over a decade of Agile consulting and development experience, McLean Hall has updated his best-seller with deeper coverage of unit testing, refactoring, pure dependency injection, and more. Master powerful new ways to:***

- Write code that enables and complements Scrum, Kanban, or any other Agile framework***
- Develop code that can survive major changes in requirements***

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***Plan for adaptability by using dependencies, layering, interfaces, and design patterns • Perform unit testing and refactoring in tandem, gaining more value from both • Use the “golden master” technique to make legacy code adaptive • Build SOLID code with single-responsibility, open/closed, and Liskov substitution principles • Create smaller interfaces to support more-diverse client and architectural needs • Leverage dependency injection best practices to improve code adaptability • Apply dependency inversion with the Stairway pattern, and avoid related anti-patterns About You This book is***

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***for programmers of all skill levels seeking more-practical insight into design patterns, SOLID principles, unit testing, refactoring, and related topics. Most readers will have programmed in C#, Java, C++, or similar object-oriented languages, and will be familiar with core procedural programming techniques. Learn key topics such as language basics, pointers and pointer arithmetic, dynamic memory management, multithreading, and network programming. Learn how to use the compiler, the make tool, and the archiver.***

***Summary Dependency Injection***

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***Principles, Practices, and Patterns teaches you to use DI to reduce hard-coded dependencies between application components. You'll start by learning what DI is and what types of applications will benefit from it. Then, you'll work through concrete scenarios using C# and the .NET framework to implement DI in your own projects. As you dive into the thoroughly-explained examples, you'll develop a foundation you can apply to any of the many DI libraries for .NET and .NET Core. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.***

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***About the Technology  
Dependency Injection (DI) is a  
great way to reduce tight  
coupling between software  
components. Instead of hard-  
coding dependencies, such as  
specifying a database driver, you  
make those connections through  
a third party. Central to  
application frameworks like  
ASP.NET Core, DI enables you to  
better manage changes and  
other complexity in your  
software. About the Book  
Dependency Injection Principles,  
Practices, and Patterns is a  
revised and expanded edition of  
the bestselling classic  
Dependency Injection in .NET. It  
teaches you DI from the ground***

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***up, featuring relevant examples, patterns, and anti-patterns for creating loosely coupled, well-structured applications. The well-annotated code and diagrams use C# examples to illustrate principles that work flawlessly with modern object-oriented languages and DI libraries. What's Inside Refactoring existing code into loosely coupled code DI techniques that work with statically typed OO languages Integration with common .NET frameworks Updated examples illustrating DI in .NET Core About the Reader For intermediate OO developers. About the Authors Mark Seemann is a programmer,***



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**software architect, and speaker who has been working with software since 1995, including six years with Microsoft. Steven van Deursen is a seasoned .NET developer and architect, and the author and maintainer of the Simple Injector DI library.**

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**Writing loosely coupled code**

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OOA&D***

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

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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

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Design Patterns.

Looks at how to create an effective mobile Web page, tackling both technical and strategic approaches to mobile web design and including the latest development techniques.

Dependency Injection Principles, Practices, and Patterns

Head First Software Development

Passing the Sun Certified Web Component Developer Exam

Head First JavaScript