



Referred to as "refactoring," these practices have remained in the domain of experts because no attempt has been made to transcribe the lore into a form that all developers could use. . .until now. In *Refactoring: Improving the Design of Existing Code*, renowned object technology mentor Martin Fowler breaks new ground, demystifying these master practices and demonstrating how software practitioners can realize the significant benefits of this new process. With proper training a skilled system designer can take a bad design and rework it into well-designed, robust code. In this book, Martin Fowler shows you where opportunities for refactoring typically can be found, and how to go about reworking a bad design into a good one. Each refactoring step is simple--seemingly too simple to be worth doing. Refactoring may involve moving a field from one class to another, or pulling some code out of a method to turn it into its own method, or even pushing some code up or down a hierarchy. While these individual steps may seem elementary, the cumulative effect of such small changes can radically improve the design. Refactoring is a proven way to prevent software decay. In addition to discussing the various techniques of refactoring, the author provides a detailed catalog of more than seventy proven refactorings with helpful pointers that teach you when to apply them; step-by-step instructions for applying each refactoring; and an example illustrating how the refactoring works. The illustrative examples are written in Java, but the ideas are applicable to any object-oriented programming language.

The book includes high-quality research papers presented at the International Conference on Innovative Computing and Communication (ICICC 2018), which was held at the Guru Nanak Institute of Management (GNIM), Delhi, India on 5–6 May 2018. Introducing the innovative works of scientists, professors, research scholars, students and industrial experts in the field of computing and communication, the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real-time applications.

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This is the digital version of the printed book (Copyright © 2004). *Who Says Large Teams Can't Handle Agile Software Development?* Agile or "lightweight" processes have revolutionized the software development industry. They're faster and more efficient than traditional software development processes. They enable developers to embrace requirement changes during the project deliver working software in frequent iterations focus on the human factor in software development Unfortunately, most agile processes are designed for small or mid-sized software development projects—bad news for large teams that have to deal with rapid changes to requirements. That means all large teams! With *Agile Software Development in the Large*, Jutta Eckstein—a leading speaker and consultant in the agile community—shows how to scale agile processes to teams of up to 200. The same techniques are also relevant to teams of as few as 10 developers, especially within large organizations. Topics include the agile value system as used in large teams the impact of a switch to agile processes the agile coordination of several sub-teams the way project size and team size influence the underlying architecture Stop getting frustrated with inflexible processes that cripple your large projects! Use this book to harness the efficiency and adaptability of agile software development. Stop getting frustrated with inflexible processes that cripple your large projects! Use this book to harness the efficiency and adaptability of agile software development.

*Proven Patterns and Techniques for Succeeding with Agile in Your Organization* Agile methods promise to help you create software that delivers far more business value—and do it faster, at lower cost, and with less pain. However, many organizations struggle with implementation and leveraging these methods to their full benefit. In this book, Amr Elssamadis identifies the powerful lessons that have been learned about successfully moving to agile and distills them into 30 proven agile adoption patterns. Elssamadis walks you through the process of defining your optimal agile adoption strategy with case studies and hands-on exercises that illuminate the key points. He systematically examines the most common obstacles to agile implementation, identifying proven solutions. You'll learn where to start, how to choose the best agile practices for your business and technical environment, and how to adopt agility incrementally, building on steadily growing success.

Many businesses and organizations depend on older high-value PHP software that risks abandonment because it is impossible to maintain. The reasons for this may be that the software is not well designed; there is only one developer (the one who created the system) who can develop it because he didn't use common design patterns and documentation; or the code is procedural, not object-oriented. With this book, you'll learn to identify problem code and refactor it to create more effective applications using test-driven design.

Like any other software system, Web sites gradually accumulate "cruft" over time. They slow down. Links break. Security and compatibility problems mysteriously appear. New features don't integrate seamlessly. Things just don't work as well. In an ideal world, you'd rebuild from scratch. But you can't: there's no time or money for that. Fortunately, there's a solution: You can refactor your Web code using easy, proven techniques, tools, and recipes adapted from the world of software development. In *Refactoring HTML*, Elliotte Rusty Harold explains how to use refactoring to improve virtually any Web site or application. Writing for programmers and non-programmers alike, Harold shows how to refactor for better reliability, performance, usability, security, accessibility, compatibility, and even search engine placement. Step by step, he shows how to migrate obsolete code to today's stable Web standards, including XHTML, CSS, and REST—and eliminate chronic problems like presentation-based markup, stateful applications, and "tag soup." The book's extensive catalog of detailed refactorings and practical "recipes for success" are organized to help you find specific solutions fast, and get maximum benefit for minimum effort. Using this book, you can quickly improve site performance now—and make your site far easier to enhance, maintain, and scale for years to come. Topics covered include • Recognizing the "smells" of Web code that should be refactored • Transforming old HTML into well-formed, valid XHTML, one step at a time • Modernizing existing layouts with CSS • Updating old Web applications: replacing POST with GET, replacing old contact forms, and refactoring JavaScript • Systematically refactoring content and links • Restructuring sites without changing the URLs your users rely upon This book will be an indispensable resource for Web designers, developers, project managers, and anyone who maintains or updates existing sites. It will be especially helpful to Web professionals who learned HTML years ago, and want to refresh their knowledge with today's standards-compliant best practices. This book will be an indispensable resource for Web designers, developers, project managers, and anyone who maintains or updates existing sites. It will be especially helpful to Web professionals who learned HTML years ago, and want to refresh their knowledge with today's standards-compliant best



