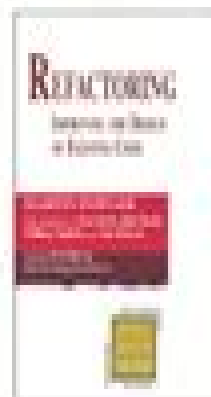




# REFACTORING WORKBOOK

WILLIAM C. WAKE



- Understand the subtle art of recognizing problem areas in code
- Select and apply the most important refactoring techniques
- Improve existing code—quickly, safely, and effectively

# Refactoring Workbook

**Alexei Vorontsov, James W. Newkirk**



## **Refactoring Workbook:**

Refactoring Workbook William C. Wake, 2004 this book teaches them how to optimize it Workbook approach facilitates the learning process Helps you identify where problems in a software application exist or are likely to exist Refactoring in Large Software Projects Martin Lippert, Stephen Roock, 2006-05-01 Large Refactorings looks at methods of establish design improvements as an important and independent activity during development of software and will help to ensure that software continues to adapt improve and remain easy to read and modify without altering its observable behaviour It provides real world experience from real refactored projects and shows how to refactor software to ensure that it is efficient fresh and adaptable *Refactoring in Ruby* William C. Wake, Kevin Rutherford, 2009-10-15 The First Hands On Practical All Ruby Refactoring Workbook Refactoring the art of improving the design of existing code has taken the world by storm So has Ruby Now for the first time there s a refactoring workbook designed from the ground up for the dynamic Ruby language Refactoring in Ruby gives you all the realistic hands on practice you need to refactor Ruby code quickly and effectively You ll discover how to recognize code smells which signal opportunities for improvement and then perfect your program s design one small safe step at a time The book shows you when and how to refactor with both legacy code and during new test driven development and walks you through real world refactoring in detail The workbook concludes with several applications designed to help practice refactoring in realistic domains plus a handy code review checklist you ll refer to again and again Along the way you ll learn powerful lessons about designing higher quality Ruby software lessons that will enable you to experience the joy of writing consistently great code Refactoring in Ruby will help you Recognize why poor code design occurs so you can prevent it from occurring in your own code Master better design techniques that lead to more efficient reliable and maintainable software Fix code that s too long large or difficult to follow Ferret out duplication and express each idea once and only once Recognize missing or inadequately formed classes Simplify overly complex relationships between classes and their subclasses Achieve the right balance of responsibilities among objects Make your code easier to test and change Cope with incomplete library modules and fix runaway dependencies Learn the next steps to take after you refactor

**Refactoring** Martin Fowler, Kent Beck, John Brant, William Opdyke, Don Roberts, 2012-03-09 As the application of object technology particularly the Java programming language has become commonplace a new problem has emerged to confront the software development community Significant numbers of poorly designed programs have been created by less experienced developers resulting in applications that are inefficient and hard to maintain and extend Increasingly software system professionals are discovering just how difficult it is to work with these inherited non optimal applications For several years expert level object programmers have employed a growing collection of techniques to improve the structural integrity and performance of such existing software programs 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

**Product-Focused Software Process Improvement** Frank Bomarius, Markku Oivo, Päivi Jaring, Pekka Abrahamsson, 2009-06-18 On behalf of the PROFES Organizing Committee we are proud to present the proceedings of the 10 International Conference on Product Focused Software Process Improvement PROFES 2009 held in Oulu Finland Since the first conference in 1999 the conference has established its place in the software engineering community as a respected conference that brings together participants from academia and industry The roots of PROFES are in professional software process improvement motivated by product and service quality needs The conference addresses both the solutions found in practice as well as relevant research results from academia To ensure that PROFES retains its high quality and focus on the most relevant research issues the conference has actively maintained close collaboration with industry and subsequently widened its scope to the research areas of collaborative and agile software development A special focus for 2009 was placed on software business to bridge research and practice in the economics of software engineering This enabled us to cover software development in a more comprehensive manner and tackle one of the most important current challenges identified by the software industry and software research community namely the shift of focus from products to services The current global economic downturn emphasizes the need for new methods and solutions for fast and business oriented development of products and services in a globally distributed environment

**Agile Technical Practices Distilled** Pedro M. Santos, Marco Consolaro, Alessandro Di Gioia, 2019-06-28 Delve deep into the various technical practices principles and values of Agile Key Features Discover the essence of Agile software development and the key principles of software design Explore the fundamental practices of Agile working including test driven development TDD refactoring pair programming and continuous integration Learn and apply the four elements of simple design Book Description The number of popular technical practices has grown exponentially in the last few years Learning the common

fundamental software development practices can help you become a better programmer This book uses the term Agile as a wide umbrella and covers Agile principles and practices as well as most methodologies associated with it You ll begin by discovering how driver navigator chess clock and other techniques used in the pair programming approach introduce discipline while writing code You ll then learn to safely change the design of your code using refactoring While learning these techniques you ll also explore various best practices to write efficient tests The concluding chapters of the book delve deep into the SOLID principles the five design principles that you can use to make your software more understandable flexible and maintainable By the end of the book you will have discovered new ideas for improving your software design skills the relationship within your team and the way your business works What you will learn Learn the red green refactor cycle of classic TDD and practice the best habits such as the rule of 3 triangulation object calisthenics and more Refactor using parallel change and improve legacy code with characterization tests approval tests and Golden Master Use code smells as feedback to improve your design Learn the double cycle of ATDD and the outside in mindset using mocks and stubs correctly in your tests Understand how Coupling Cohesion Connascence SOLID principles and code smells are all related Improve the understanding of your business domain using BDD and other principles for doing the right thing not only the thing right Who this book is for This book is designed for software developers looking to improve their technical practices Software coaches may also find it helpful as a teaching reference manual This is not a beginner s book on how to program You must be comfortable with at least one programming language and must be able to write unit tests using any unit testing framework

*Succeeding with Agile* Mike Cohn, 2010 Proven 100% Practical Guidance for Making Scrum and Agile Work in Any Organization This is the definitive realistic actionable guide to starting fast with Scrum and agile and then succeeding over the long haul Leading agile consultant and practitioner Mike Cohn presents detailed recommendations powerful tips and real world case studies drawn from his unparalleled experience helping hundreds of software organizations make Scrum and agile work *Succeeding with Agile* is for pragmatic software professionals who want real answers to the most difficult challenges they face in implementing Scrum Cohn covers every facet of the transition getting started helping individuals transition to new roles structuring teams scaling up working with a distributed team and finally implementing effective metrics and continuous improvement Throughout Cohn presents Things to Try Now sections based on his most successful advice Complementary Objection sections reproduce typical conversations with those resisting change and offer practical guidance for addressing their concerns Coverage includes Practical ways to get started immediately and get good fast Overcoming individual resistance to the changes Scrum requires Staffing Scrum projects and building effective teams Establishing improvement communities of people who are passionate about driving change Choosing which agile technical practices to use or experiment with Leading self organizing teams Making the most of Scrum sprints planning and quality techniques Scaling Scrum to distributed multiteam projects Using Scrum on projects with complex sequential processes or

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Design Patterns in Java Steven Metsker, William C. Wake, 2006-04-18 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 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 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 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>

**Refactoring** Martin Fowler, Kent Beck, 1999 Refactoring is gaining momentum amongst the object oriented programming community It can transform the internal dynamics of applications and has the capacity to transform bad code into good code This book offers an introduction to refactoring

Visual Studio Team System James W. Newkirk, Will W. Stott, 2007-05-17 Visual Studio Team System VSTS gives Microsoft development teams a powerful integrated toolset for Agile development Visual Studio Team System Better Software Development for Agile Teams is a comprehensive start to finish guide to making the most of VSTS in real world Agile environments Using a book length case study the authors show how to use VSTS to improve every aspect of software development step by step from project planning through design and from coding through testing and deployment Agile consultant Will Stott and Microsoft development lead James Newkirk carefully integrate theory and practice offering hands on exercises practical insights into core Extreme Programming XP techniques and much more Coverage includes Using VSTS to support the transition to Agile values and techniques Forming Agile teams and building effective process frameworks Leveraging Team Foundation Version Control to help teams manage change and

share their code effectively Implementing incremental builds and integration with Team Foundation Build Making the most of VSTS tools for Test Driven Development and refactoring Bringing agility into software modeling and using patterns to model solutions more effectively Using the FIT integrated testing framework to make sure customers are getting what they need Estimating prioritizing and planning Agile projects *UML Distilled* Martin Fowler, 2018-08-30 More than 300 000 developers have benefited from past editions of UML Distilled This third edition is the best resource for quick no nonsense insights into understanding and using UML 2 0 and prior versions of the UML Some readers will want to quickly get up to speed with the UML 2 0 and learn the essentials of the UML Others will use this book as a handy quick reference to the most common parts of the UML The author delivers on both of these promises in a short concise and focused presentation This book describes all the major UML diagram types what they re used for and the basic notation involved in creating and deciphering them These diagrams include class sequence object package deployment use case state machine activity communication composite structure component interaction overview and timing diagrams The examples are clear and the explanations cut to the fundamental design logic Includes a quick reference to the most useful parts of the UML notation and a useful summary of diagram types that were added to the UML 2 0 If you are like most developers you don t have time to keep up with all the new innovations in software engineering This new edition of Fowler s classic work gets you acquainted with some of the best thinking about efficient object oriented software design using the UML in a convenient format that will be essential to anyone who designs software professionally **Object-Oriented Design Knowledge: Principles, Heuristics and Best Practices** Garz s, Javier, Piattini, Mario, 2006-07-31 The software engineering community has advanced greatly in recent years and we currently have numerous defined items of knowledge such as standards methodologies methods metrics techniques languages patterns knowledge related to processes concepts etc The main objective of this book is to give a unified and global vision about Micro Architectural Design Knowledge analyzing the main techniques experiences and methods Provided by publisher *Test-Driven Development in Microsoft .NET* Alexei Vorontsov, James W. Newkirk, 2004-03-17 With the clarity and precision intrinsic to the Test Driven Development TDD process itself experts James Newkirk and Alexei Vorontsov demonstrate how to implement TDD principles and practices to drive lean efficient coding and better design The best way to understand TDD is to see it in action and Newkirk and Vorontsov walk step by step through TDD and refactoring in an n tier NET connected solution And as members of the development team for NUnit a leading unit testing framework for Microsoft NET the authors can offer matchless insights on testing in this environment ultimately making their expertise your own Test first and drive ambiguity out of the development process Document your code with tests rather than paper Use test lists to generate explicit requirements and completion criteria Refactor and improve the design of existing code Alternate programmer tests with customer tests Change how you build UI code a thin layer on top of rigorously tested code Use tests to make small incremental changes and minimize the debugging process Deliver software

that is verifiable, reliable, and robust

*Doing Hard Time* Bruce Powel Douglass, 1999 *Doing Hard Time* is written to facilitate the daunting process of developing real time systems. It presents an embedded systems programming methodology that has been proven successful in practice. The process outlined in this book allows application developers to apply practical techniques garnered from the mainstream areas of object oriented software development to meet the demanding qualifications of real time programming. Bruce Douglass offers ideas that are up to date with the latest concepts and trends in programming. By using the industry standard Unified Modeling Language (UML) as well as the best practices from object technology, he guides you through the intricacies and specifics of real time systems development. Important topics such as schedulability, behavioral patterns, and real time frameworks are demystified, empowering you to become a more effective real time programmer.

**Practices for Scaling Lean & Agile Development** Craig Larman, Bas Vodde, 2010-01-26 Lean and Agile Development for Large Scale Products: Key Practices for Sustainable Competitive Success. Increasingly large product development organizations are turning to lean thinking, agile principles, and practices, and large scale Scrum to sustainably and quickly deliver value and innovation. Drawing on their long experience leading and guiding lean and agile adoptions for large multisite and offshore product development, internationally recognized consultant and best selling author Craig Larman and former leader of the agile transformation at Nokia Networks, Bas Vodde share the key action tools needed for success. Coverage includes Frameworks for large scale Scrum for multihundred person product groups, Testing and building quality in Product management, and the end of the contract game between business and R D. Envisioning a large release and planning for multiteam development. Low quality legacy code: why it is created and how to stop it. Continuous integration in a large multisite context. Agile architecting. Multisite or offshore development. Contracts and outsourced development. In a competitive environment that demands ever faster cycle times and greater innovation, the practices inspired by lean thinking and agile principles are ever more relevant. Practices for Scaling Lean Agile Development will help people realize a lean enterprise and deliver on the significant benefits of agility. In addition to the action tools in this text, see the companion book *Scaling Lean Agile Development: Thinking and Organizational Tools for Large Scale Scrum* for complementary foundation tools.

*Transactions on Aspect-Oriented Software Development I* Awais Rashid, 2006-03-06 This journal is devoted to aspect oriented software development (AOSD) techniques in the context of all phases of the software life cycle from requirements and design to implementation, maintenance, and evolution. The focus of the journal is on approaches for systematic identification, modularization, representation, and composition of crosscutting concerns, evaluation of such approaches, and their impact on improving quality attributes of software systems.

**User Stories Applied** Mike Cohn, 2004 Offers a requirements process that saves time, eliminates rework, and leads directly to better software. A great way to build software that meets users' needs is to begin with user stories: simple, clear, brief descriptions of functionality that will be valuable to real users. The author provides you with a front to back blueprint for writing these user stories and weaving them into your development lifecycle.



You'll learn what makes a great user story and what makes a bad one. You'll discover practical ways to gather user stories even when you can't speak with your users. Then, once you've compiled your user stories, the author shows how to organize them, prioritize them, and use them for planning, management, and testing. Back cover

**Software Design Methodology**  
Hong Zhu, 2005-03-22. Software Design Methodology explores the theory of software architecture with particular emphasis on general design principles rather than specific methods. This book provides in-depth coverage of large-scale software systems and the handling of their design problems. It will help students gain an understanding of the general theory of design methodology and especially in analysing and evaluating software architectural designs through the use of case studies and examples whilst broadening their knowledge of large-scale software systems. This book shows how important factors such as globalisation, modelling, coding, testing, and maintenance need to be addressed when creating a modern information system. Each chapter contains expected learning outcomes, a summary of key points, and exercise questions to test knowledge and skills. Topics range from the basic concepts of design to software design quality, design strategies and processes, and software architectural styles. Theory and practice are reinforced with many worked examples and exercises, plus case studies on extraction of keyword vector from text, design space for user interface architecture, and document editor. Software Design Methodology is intended for IT industry professionals as well as software engineering and computer science undergraduates and graduates on MSc conversion courses. In-depth coverage of large-scale software systems and the handling of their design problems. Many worked examples, exercises, and case studies to reinforce theory and practice. Gain an understanding of the general theory of design methodology.

*Visual Modeling with Rational Rose 2002 and UML* Terry Quatrani, 2003. Thoroughly updated and fully compliant with Rational Rose 2002, the latest release of the industry's most popular software modeling tool, this edition contains simplified, useful case studies and helps the reader understand the core concepts of modeling and how to use UML effectively.

*Software Development for Small Teams* Gary Pollice, 2004. I highly recommend this book for anyone who's ever tried to implement RUP on a small project. Pollice and company have demystified and effectively scaled the process while ensuring that its essence hasn't been compromised. A must-have for any RUPster's library.

Chris Soskin, Process Engineering Consultant, Toyota Motor Sales. Do you want to improve the process on your next project? Perhaps you'd like to combine the best practices from the Rational Unified Process (RUP) and from agile methodologies such as Extreme Programming. If so, buy this book. *Software Development for Small Teams* describes an entire software development project from the initial customer contact through delivery of the software. Through a case study, it describes how one small distributed team designed and applied a successful process. But this is not a perfect case study. The story includes what worked and what didn't, and describes how the team might change its process for the next project. The authors encourage you to assess their results and to use the lessons learned on your next project. Key topics covered include achieving a balance between people, process, and tools; recognizing that software developo

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