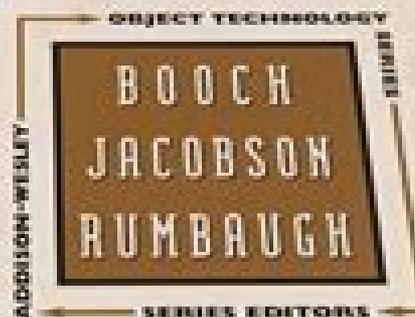# REFACTORING

IMPROVING THE DESIGN OF EXISTING CODE

MARTIN FOWLER

With contributions by **Kent Beck, John Brant, William Opdyke,** and **Don Roberts**

Foreword by **Erich Gamma**
Object Technology International, Inc.

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Refactoring Improving The Design Of Existing Code Martin Fowler

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Refactoring Improving The Design Of Existing Code Martin Fowler:

   Refactoring Martin Fowler,2018-11-20 Martin Fowler s guide to reworking bad code into well structured code Refactoring improves the design of existing code and enhances software maintainability as well as making existing code easier to understand Original Agile Manifesto signer and software development thought leader Martin Fowler provides a catalog of refactorings that explains why you should refactor how to recognize code that needs refactoring and how to actually do it successfully no matter what language you use Refactoring principles understand the process and general principles of refactoring Code smells recognize bad smells in code that signal opportunities to refactor Application improvement quickly apply useful refactorings to make a program easier to comprehend and change Building tests writing good tests increases a programmer s effectiveness Moving features an important part of refactoring is moving elements between contexts Data structures a collection of refactorings to organize data an important role in programs Conditional Logic use refactorings to make conditional sections easier to understand APIs modules and their functions are the building blocks of our software and APIs are the joints that we use to plug them together Inheritance it is both very useful and easy to misuse and it s often hard to see the misuse until it s in the rear view mirror refactorings can fix the misuse Examples are written in JavaScript but you shouldn t find it difficult to adapt the refactorings to whatever language you are currently using as they look mostly the same in different languages Whenever you read Refactoring it s time to read it again And if you haven t read it yet please do before writing another line of code David Heinemeier Hansson Creator of Ruby on Rails Founder CTO at Basecamp Any fool can write code that a computer can understand Good programmers write code that humans can understand M Fowler 1999   **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   **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   Developing Applications with Visual Basic and UML Paul R. Reed,2000 Reed s guide includes detailed coverage of architecting VB enterprise applications and features working examples and step by step instructions for planning and development of an order entry system detailing do s and don t s for analysis design and construction CD ROM contains several templates for applying UML as well as complete Rational Rose models for the sample applications   The Guru's Guide to Transact-SQL Ken Henderson,2000-02-23 Since its introduction over a decade ago the Microsoft SQL Server query language Transact SQL has become increasingly popular and more powerful The current version sports such advanced features as OLE Automation support cross platform querying facilities and full text search management This book is the consummate guide to Microsoft Transact SQL From data type nuances to complex statistical computations to the bevy of undocumented features in the language The Guru s Guide to Transact SQL imparts the knowledge you need to become a virtuoso of the language as quickly as possible In this book you will find the information explanations and advice you need to master Transact SQL and develop the best possible Transact SQL code Some 600 code examples not only illustrate important concepts and best practices but also provide working Transact SQL code that can be incorporated into your own real world DBMS applications Your journey begins with an introduction explaining language fundamentals such as database and table creation inserting and updating data queries joins data presentation and managing transactions Moving on to more advanced topics the journey continues with in depth coverage of Transact SQL performance tuning using tools such as Query Analyzer and Performance Monitor Nuances of the various T SQL data types Complex statistical calculations such as medians modes and sliding aggregates Run sequence and series identification and interrogation Advanced Data Definition Language DDL and Data Management Language DML techniques Stored procedure and trigger best practices and coding methods Transaction management Optimal cursor use and caveats to look out for Full text search Hierarchies and arrays Administrative Transact SQL OLE Automation More than 100 undocumented commands and language features including numerous unpublished DBCC command verbs trace flags stored procedures and functions Comprehensive written in

understandable terms and full of practical information and examples The Guru s Guide to Transact SQL is an indispensable reference for anyone working with this database development language The accompanying CD ROM includes the complete set of code examples found in the book as well as a SQL programming environment that will speed the development of your own top notch Transact SQL code   **Refactoring** Martin Fowler,2009   Extreme Programming and Agile Methods - XP/Agile Universe 2002 Don Wells,Lauris Williams,2003-08-02 The second XP Universe and rst Agile Universe brought together many p ple interested in building software in a new way Held in Chicago August 4 7 2002 it attracted software experts educators and developers Unlike most c ferences the venue was very dynamic Many activities were not even well de ned in advance All discussions were encouraged to be spontaneous Even so there were some written words available and you are holding all of them now We have collected as much material as possible together into this small volume It is just the tip of the iceberg of course A reminder to us of what we learned the people we met and the ideas we expressed The conference papers including research and experience papers are rep duced in these proceedings Forty one 41 papers were submitted Each subm ted paper received three reviews by program committee members The program committee consisted of 40 members Papers submitted by program committee members were refereed separately This ensured that reviewers could provide an honest feedback not seen by the paper submitters In many cases the program committee shepherded authors to signi cantly improve their initial submission prior to completing the version contained in these proceedings In the end the program committee chose 25 papers for publication 60% acceptance   Developing Applications Using Outlook 2000, CDO, Exchange, and Visual Basic Raffaele Piemonte,Scott Jamison,2000 This is the must have book for programming with Outlook and CDO This book provides the details tips and cautions that can save you time and frustration when building collaborative applications So if you like the best in your technical library get this book Deborah Kurata InStep Technologies Inc Written for IT developers who build collaborative and workflow applications this book provides a comprehensive reference to working with Microsoft s powerful collaborative development environment including Outlook 2000 Exchange Server Visual Basic and the Collaboration Data Objects CDO Library It demonstrates ways in which these technologies can be tied together into effective business solutions from small scale groupware to large scale enterprise wide systems Developing Applications using Outlook 2000 CDO Exchange and Visual Basic offers an overview of the Microsoft collaborative landscape and then examines each element of that environment in detail Numerous examples showcase the applications made possible with these technologies and demonstrate VBScript coding techniques You will find in depth information on such important topics as properties methods and events available in Outlook 97 98 and 2000 the Outlook 2000 object model working with Outlook 2000 mail calendar task and address book capabilities VBA and COM add ins using Outlook Forms and VBScript Outlook web access the Forms 2 0 to HTML converter tool the CDO rendering object model Exchange agents and routing objects In addition this book shows how a number of outside technologies can extend the capabilities of the Outlook Exchange

development environment including Active Directory ADSI services SQL Server and ActiveX Data Objects ADO The examples include approving purchase order reports using Exchange maintaining a corporate directory using Outlook and SQL Server and building an eCommerce application with Exchange and SQL Server A comprehensive supporting Web site including sample code and Visual Basic project files can be found at http www MMAnet com OutlookExchange 0201615754B04062001

   Simple Object-Oriented Design Mauricio Aniche,2024-06-04 Write object oriented code that s manageable maintainable and future proof Keeping your object oriented designs simple demands a creative approach and that s exactly what you ll find in Simple Object Oriented Design This book is full of patterns and principles for reducing complexity each one proven in author Mauricio Aniche s 20 year career in software development You ll learn how to tackle code s natural growth in complexity and adopt a good enough approach that means it s easy to refactor when requirements change You ll discover insightful principles for Making code readable and documented Improving consistency and encapsulation Managing dependencies Designing abstractions Handling infrastructure Effective modularization Learn what constitutes both good and bad object oriented software design discover how to make better trade offs in design decisions and when to embrace complexity over simpler data structures With this book as your vital reference you ll be ready to write code that will last the test of time without slowing feature delivery to a crawl About the technology Even a simple object oriented application can quickly become complex as it evolves Each new class method or feature means more state and abstractions to manage which in turn increases complexity maintenance and time spent detangling legacy code It takes effort and skill to keep your codebase simple This book shows you how About the book Simple Object Oriented Design Create clean maintainable applications presents practical design principles you can use to keep an object oriented codebase simple as it grows and changes Written as a collection of practical techniques you can apply in any OO language it offers tips for concise code managing dependencies and modules and designing flexible abstractions Illuminating figures real world examples and insightful exercises make each principle stick What s inside Writing simple understandable classes Flexible abstractions to extend your designs Reducing the impact of coupling About the reader Readers should be familiar with an object oriented language like Java C or Python About the author Maur cio Aniche is a software engineer with 20 years of experience He s also an Assistant Professor in Software Engineering at Delft University of Technology and the author of Effective Software Testing Table of Contents 1 It s all about managing complexity 2 Making code small 3 Keeping objects consistent 4 Managing dependencies 5 Designing good abstractions 6 Handling external dependencies and infrastructure 7 Achieving modularization 8 Being pragmatic   **The Robert C. Martin Clean Code Collection (Collection)** Robert C. Martin,2011-11-10 The Robert C Martin Clean Code Collection consists of two bestselling eBooks Clean Code A Handbook of Agile Software Craftmanship The Clean Coder A Code of Conduct for Professional Programmers In Clean Code legendary software expert Robert C Martin has teamed up with his colleagues from Object Mentor to distill their best agile practice of

cleaning code on the fly into a book that will instill within you the values of a software craftsman and make you a better programmer but only if you work at it You will be challenged to think about what s right about that code and what s wrong with it More important you will be challenged to reassess your professional values and your commitment to your craft In The Clean Coder Martin introduces the disciplines techniques tools and practices of true software craftsmanship This book is packed with practical advice about everything from estimating and coding to refactoring and testing It covers much more than technique It is about attitude Martin shows how to approach software development with honor self respect and pride work well and work clean communicate and estimate faithfully face difficult decisions with clarity and honesty and understand that deep knowledge comes with a responsibility to act Readers of this collection will come away understanding How to tell the difference between good and bad code How to write good code and how to transform bad code into good code How to create good names good functions good objects and good classes How to format code for maximum readability How to implement complete error handling without obscuring code logic How to unit test and practice test driven development What it means to behave as a true software craftsman How to deal with conflict tight schedules and unreasonable managers How to get into the flow of coding and get past writer s block How to handle unrelenting pressure and avoid burnout How to combine enduring attitudes with new development paradigms How to manage your time and avoid blind alleys marshes bogs and swamps How to foster environments where programmers and teams can thrive When to say No and how to say it When to say Yes and what yes really means   *Journal of Object-oriented Programming* ,2001   UML Bible Tom Pender,2003-09-26 UML is an industry standard specification for modelling visualizing and documenting software projects This title covers all aspects of the UML including the use of the UML diagramming notation the object constraint language OCL and profiles   **Product Focused Software Process Improvement** ,2001   *Systematic Definition, Implementation and Evaluation of Service-oriented Software Architectures* Reena T. Mathew,2004   *Advanced C# Programming* Paul Kimmel,2002-09-04 This advanced resource is ideal for experienced programmers seeking practical solutions to real problems Discover valuable coding techniques and best practices while learning to master Microsoft s newest cross platform programming language This definitive guide will show you how to expertly apply and integrate C into your business applications Create user controls special effects text dynamic user interfaces custom attributes plus you ll also find reliable security and authentication methods   **ACM SIGPLAN Notices** ,2006-07   **Mastering Enterprise JavaBeans** Ed Roman,Scott Ambler,Tyler Jewell,2001-12-28 Enterprise JavaBeans EJB has proven to be wildly successful and is fast becoming the dominant technology for building server side applications including most Web applications In this much anticipated new edition bestselling author Ed Roman teams up with noted software development experts Scott Ambler and Tyler Jewell to once again deliver the definitive guide to all things EJB Geared toward Web site developers enterprise application developers and developers of software components for resale this book has been updated to cover the latest

features of version 2 0 including container services transactions design strategies complex persistence clustering project management and choosing an EJB server as well as to add new more advanced programming tips and techniques

Knowledge-based Software Engineering Tatjana Welzer,Shuichiro Yamamoto,Ivan Rozman,2002 Annotation The book captures the latest developments in the areas of knowledge engineering and software engineering Particular emphasis is placed upon applying knowledge based methods to software engineering problems The Conference from which the papers are coming originated in order to provide a forum in which the latest developments in the field of knowledge based software engineering could be discussed Although initially targeting scientists from Japan the CIS countries and countries in Central and Eastern Europe the authors come from many countries throughout the world JCKBSE 2002 continues with this tradition and is anticipating even wider international participation Furthermore the scope of the conference as indicated by its topics has been updated to reflect the recent development in all the three covered areas i e knowledge engineering software engineering and knowledge based software engineering Innocent Code Sverre H. Huseby,2004 This concise and practical book shows where code vulnerabilities lie and how best to fix them without delving into the specifics of the architecture programming or scripting language or application of individual systems It also provides illustrative examples with real code

OOIS 2001 Xingxu Wang,Shushma Patel,Ronald Johnston,2001-07-23 This volume contains the papers presented at the 7th International Conference on Object Oriented Information Systems OOIS 2001 The conference was hosted by the University of Calgary Calgary Canada on 27 29 August 2001 The theme of OOIS1 was Object Oriented and Web Based Frameworks for Information Systems The papers published in this volume highlight the contributions of leading researchers and practitioners in the field of Object Technology and Information Systems The topics covered include OO foundations OO modeling and analysis OOIS processes XML based IS OO based reuse OO frameworks OO and web testing Use case for requirement analysis OO CASE tools OO virtual environments and real time systems IT process assessment and improvement Industrial experience and case studies Web based IS Component based OOIS Software engineering metrics and analysis Production line and requirements engineering GRIDs the next generation technologies for the Internet E Business Enterprise Frameworks and Perspectives on future development

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the opening lines of st louis blues by w c handy kenneth g johnston first cited handy s song as the probable source like the
wailing woman in the song he says nancy hates to see de evening sun go down for
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web in the kitchen for nancy one night we waked up hearing the sound it was not singing and it was not crying coming up the
dark stairs there was a light in mother s room and we heard father going down the hall down the back stairs and caddy and i
went into the hall the floor was cold
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deal since he was a child the town has been modernized with paved streets telephone poles and a city laundry even the negro
women now have cars which they use when they are doing the laundry for the white
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going to die it also refers to the fact that the woman is going to make her getaway if she still feels afraid in the morning
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web i hate to see that evening sun go downi hate to see that evening sun go downcause my baby he s gone left this
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and locusts and elms to make room for iron poles bearing clusters of bloated and ghostly

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