



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.



Refactoring Improving The Design Of Existing Code

MATRIN. FOWLER



Refactoring Improving The Design Of Existing Code:

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

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 IMPROVING THE DESIGN OF EXISTING CODE. MARTIN. FOWLER,1999

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 first Agile Universe brought together many people interested in building software in a new way Held in Chicago August 4-7 2002 it attracted software experts educators and developers Unlike most conferences the venue was very dynamic Many activities were not even well defined 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 reproduced in these proceedings Forty one 41 papers were submitted Each submitted 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 significantly 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 **Innovations in Computer Science and Engineering** H. S. Saini,Rishi Sayal,A. Govardhan,Rajkumar Buyya,2018-05-25 The book is a collection of high quality peer reviewed research papers presented at the Fifth International Conference on Innovations in Computer Science and Engineering ICICSE 2017 held at Guru Nanak Institutions Hyderabad India during 18-19 August 2017 The book discusses a wide variety of industrial engineering and scientific applications of the engineering techniques Researchers from academic and industry present their original work and exchange ideas information techniques and applications in the field of Communication Computing and Data Science and Analytics The Guru's Guide to SQL Server Stored Procedures, XML, and HTML Ken Henderson,2002 CD ROM contains Source code from text **Object-oriented Reengineering Patterns** Serge Demeyer,Stéphane Ducasse,Oscar

Nierstrasz,2008 Object Oriented Reengineering Patterns collects and distills successful techniques in planning a reengineering project reverse engineering problem detection migration strategies and software redesign This book is made available under the Creative Commons Attribution ShareAlike 3 0 license You can either download the PDF for free or you can buy a softcover copy from lulu com Additional material is available from the book s web page at <http://scg.unibe.ch/oorp>

Agile Software Development in the Large Jutta Eckstein,2013 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

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