

Object Design

Roles, Responsibilities, and Collaborations



Rebecca Wirfs-Brock and Alan McKean
Forewords by Ivar Jacobson and John Vlissides

Object Design Roles Responsibilities And Collaborations

Rebecca Wirfs Brock



Craig Larman

Object Design Roles Responsibilities And Collaborations Rebecca Wirfs Brock

Object Design Rebecca Wirfs-Brock, Alan McKean, 2003 Object technology pioneer Wirfs Brock teams with expert McKean to present a thoroughly updated modern and proven method for the design of software The book is packed with practical design techniques that enable the practitioner to get the job done

Designing Object-oriented Software

Rebecca Wirfs-Brock, Brian Wilkerson, Lauren Wiener, 1990 Software Software Engineering

Implementing

Domain-driven Design Vaughn Vernon, 2013 Vaughn Vernon presents concrete and realistic domain driven design DDD techniques through examples from familiar domains such as a Scrum based project management application that integrates with a collaboration suite and security provider Each principle is backed up by realistic Java examples and all content is tied together by a single case study of a company charged with delivering a set of advanced software systems with DDD

Writing Effective Use Cases Alistair Cockburn, 2001 This guide will help readers learn how to employ the significant power of use cases to their software development efforts It provides a practical methodology presenting key use case concepts

Elemental Design Patterns Jason McC. Smith, 2012-03-23 2012 Jolt Award Finalist Even experienced software professionals find it difficult to apply patterns in ways that deliver substantial value to their organizations In *Elemental Design Patterns* Jason McC Smith addresses this problem head on helping developers harness the true power of patterns map them to real software implementations more cleanly and directly and achieve far better results Part tutorial part example rich cookbook this resource will help developers designers architects and analysts successfully use patterns with a wide variety of languages environments and problem domains Every bit as important it will give them a deeper appreciation for the work they've chosen to pursue Smith presents the crucial missing link that patterns practitioners have needed a foundational collection of simple core patterns that are broken down to their core elements If you work in software you may already be using some of these elemental design patterns every day Presenting them in a comprehensive methodology for the first time Smith names them describes them explains their importance helps you compare and choose among them and offers a framework for using them together He also introduces an innovative Pattern Instance Notation diagramming system that makes it easier to work with patterns at many levels of granularity regardless of your goals or role If you're new to patterns this example rich approach will help you master them piece by piece logically and intuitively If you're an experienced patterns practitioner Smith follows the Gang of Four format you're already familiar with explains how his elemental patterns can be composed into conventional design patterns and introduces highly productive new ways to apply ideas you've already encountered No matter what your level of experience this infinitely practical book will help you transform abstract patterns

into high value solutions Applying UML and Patterns: An Introduction to Object Oriented Analysis and Design and Iterative Development: 3rd Edition Craig Larman,2012 *Use Case Driven Object Modeling with UML Theory and Practice* Don Rosenberg, Matt Stephens,2008-06-28 Diagramming and process are important topics in today's software development world as the UML diagramming language has come to be almost universally accepted Yet process is necessary by themselves diagrams are of little use Use Case Driven Object Modeling with UML Theory and Practice combines the notation of UML with a lightweight but effective process the ICONIX process for designing and developing software systems ICONIX has developed a growing following over the years Sitting between the free for all of Extreme Programming and overly rigid processes such as RUP ICONIX offers just enough structure to be successful **PHP in Action** Marcus Baker, Chris Shiflett, Dagfinn Reiersol,2007-06-30 To keep programming productive and enjoyable state of the art practices and principles are essential Object oriented programming and design help manage complexity by keeping components cleanly separated Unit testing helps prevent endless exhausting debugging sessions Refactoring keeps code supple and readable PHP offers all this and more PHP in Action shows you how to apply PHP techniques and principles to all the most common challenges of web programming including Web presentation and templates User interaction including the Model View Controller architecture Input validation and form handling Database connection and querying and abstraction Object persistence Purchase of the print book comes with an offer of a free PDF ePub and Kindle eBook from Manning Also available is all code from the book *PHP Architect's Guide to PHP Design Patterns* Jason E. Sweat,2005 Design patterns are comprehensive well tested solutions to common problems that developers everywhere encounter each day Although designed for solving general programming issues some of them have been successfully adapted to the specific needs of Web development php architect's Guide to PHP Design Patterns is the first comprehensive guide to the application of design patterns to the PHP development language Designed to satisfy the need of enterprise strength development you will find this book an excellent way to learn about design patterns and an irreplaceable reference for your day to day programming With coverage of more than 16 different types of patterns including Model View Controller Iterator MockObject Register Proxy ActiveRecord DataMapper and many many others this book is the ideal resource for your enterprise development with PHP 4 and PHP 5 Includes over 16 design patterns Each pattern is discussed in detail with practical code applications Covers both PHP 4 and PHP 5 Provides a thorough test driven approach to design patterns Code is available online **Object Thinking** David West,2004 Object Thinking blends historical perspective experience and visionary insight exploring how developers can work less like the computers they program and more like problem solvers **Model-Based Development** H.S. Lahman,2011-06-14 A Proven Development Methodology That Delivers On the Promise of Model Based Approaches Software continues to become more and more complex while software consumers expectations for performance reliability functionality and speed to market are also growing exponentially H S Lahman shows how to address all these challenges by integrating proven object oriented

techniques with a powerful new methodology Model Based Development represents Lahman s half century of experience as a pioneering software innovator Building on Shlaer Mellor s work Lahman s unique approach fully delivers on the promise of models and is firmly grounded in the realities of contemporary development design and architecture The book introduces the methodology s core principles showing how it separates each of a project s concerns enabling practitioners to optimize each domain for its unique needs and characteristics Next it demonstrates how to perform more effective object oriented analysis emphasizing abstraction disciplined partitioning modeling invariants finite state machines and efficient communications among program units Coverage includes How we got here a historical perspective and pragmatic review of object principles Problem space versus computing space reflecting crucial distinctions between customer and computer environments in your designs Application partitioning why it matters and how do it well Building static models that describe basic application structure Modeling classes class responsibilities associations and both referential and knowledge integrity Creating dynamic models that describe behavior via finite state machines Successfully using abstract action languages AALs and action data flow diagrams ADFDs Throughout Lahman illuminates theoretical issues in practical terms explaining why things are done as they are without demanding rigorous math His focus is on creating implementation independent models that resolve functional requirements completely precisely and unambiguously Whether you re a developer team leader architect or designer Lahman s techniques will help you build software that s more robust easier to maintain supports larger scale reuse and whose specification is rigorous enough to enable full scale automatic code generation

ECOOP '93 -

Object-Oriented Programming Oscar M. Nierstrasz,2003-05-16 It is now more than twenty five years since object oriented programming was invented actually more than thirty years since work on Simula started but by all accounts it would appear as if object oriented technology has only been discovered in the past ten years When the first European Conference on Object Oriented Programming was held in Paris in 1987 I think it was generally assumed that Object Oriented Programming like Structured Programming would quickly enter the vernacular and that a conference on the subject would rapidly become superfluous On the contrary the range and impact of object oriented approaches and methods continues to expand and spite the inevitable oversell and hype object oriented technology has reached a level of scientific maturity that few could have foreseen ten years ago Object oriented technology also cuts across scientific cultural boundaries like perhaps no other field of computer science as object oriented concepts can be applied to virtually all the other areas and affect virtually all aspects of the software life cycle So in retrospect emphasizing just Programming in the name of the conference was perhaps somewhat short sighted but at least the acronym is pronounceable and easy to remember This year s ECOOP attracted 146 submissions from around the world making the selection process even tougher than usual The selected papers range in topic from programming language and database issues to analysis and design and reuse and from experience reports to theoretical contributions

Microsoft .NET - Architecting Applications for the Enterprise Dino Esposito,Andrea Saltarello,2014-08-28 A

software architect s digest of core practices pragmatically applied Designing effective architecture is your best strategy for managing project complexity and improving your results But the principles and practices of software architecting what the authors call the science of hard decisions have been evolving for cloud mobile and other shifts Now fully revised and updated this book shares the knowledge and real world perspectives that enable you to design for success and deliver more successful solutions In this fully updated Second Edition you will Learn how only a deep understanding of domain can lead to appropriate architecture Examine domain driven design in both theory and implementation Shift your approach to code first model later including multilayer architecture Capture the benefits of prioritizing software maintainability See how readability testability and extensibility lead to code quality Take a user experience UX first approach rather than designing for data Review patterns for organizing business logic Use event sourcing and CQRS together to model complex business domains more effectively Delve inside the persistence layer including patterns and implementation

Business Object Design and Implementation Jeffrey V. Sutherland, Dilip Patel, Cory Casanave, Joaquin Miller, Glenn Hollowell, 2012-12-06 Over the past 10 years object technology has gained widespread acceptance within the software industry Within a wider context however it has made little impact on the core applications which support businesses in carrying out their tasks This volume contains a collection of papers establishing the need for Business Objects with particular reference to work undertaken by the Object Management Group OMG The emphasis is on defining an agenda for establishing Business Object standards and architectures for developing software technology to support Business Objects applications and managing object oriented development projects The wide variety of papers presented and their authors expertise make this book a significant contribution to the development of Business Objects and their management

The Unified Modeling Language User Guide Grady Booch, 2017-07-12 For nearly ten years the Unified Modeling Language UML has been the industry standard for visualizing specifying constructing and documenting the artifacts of a software intensive system As the de facto standard modeling language the UML facilitates communication and reduces confusion among project stakeholders The recent standardization of UML 2.0 has further extended the language s scope and viability Its inherent expressiveness allows users to model everything from enterprise information systems and distributed Web based applications to real time embedded systems In this eagerly anticipated revision of the best selling and definitive guide to the use of the UML the creators of the language provide a tutorial to its core aspects in a two color format designed to facilitate learning Starting with an overview of the UML the book explains the language gradually by introducing a few concepts and notations in each chapter It also illustrates the application of the UML to complex modeling problems across a variety of application domains The in depth coverage and example driven approach that made the first edition of The Unified Modeling Language User Guide an indispensable resource remain unchanged However content has been thoroughly updated to reflect changes to notation and usage required by UML 2.0 Highlights include A new chapter on components and internal structure including significant new

capabilities for building encapsulated designs New details and updated coverage of provided and required interfaces collaborations and UML profiles Additions and changes to discussions of sequence diagrams activity diagrams and more Coverage of many other changes introduced by the UML 2.0 specification With this essential guide you will quickly get up to speed on the latest features of the industry standard modeling language and be able to apply them to your next software project

Software Development and Professional Practice John Dooley, 2011-10-13 Software Development and Professional Practice reveals how to design and code great software What factors do you take into account What makes a good design What methods and processes are out there for designing software Is designing small programs different than designing large ones How can you tell a good design from a bad one You'll learn the principles of good software design and how to turn those principles back into great code Software Development and Professional Practice is also about code construction how to write great programs and make them work What you say You've already written eight gazillion programs Of course I know how to write code Well in this book you'll re-examine what you already do and you'll investigate ways to improve Using the Java language you'll look deeply into coding standards debugging unit testing modularity and other characteristics of good programs You'll also talk about reading code How do you read code What makes a program readable Can good readable code replace documentation How much documentation do you really need This book introduces you to software engineering the application of engineering principles to the development of software What are these engineering principles First all engineering efforts follow a defined process So you'll be spending a bit of time talking about how you run a software development project and the different phases of a project Secondly all engineering work has a basis in the application of science and mathematics to real world problems And so does software development You'll therefore take the time to examine how to design and implement programs that solve specific problems Finally this book is also about human computer interaction and user interface design issues A poor user interface can ruin any desire to actually use a program in this book you'll figure out why and how to avoid those errors Software Development and Professional Practice covers many of the topics described for the ACM Computing Curricula 2001 course C292c Software Development and Professional Practice It is designed to be both a textbook and a manual for the working professional

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

Introduction to Software Engineering Design Christopher John Fox, 2006 The focus of Introduction to Software Engineering Design is the processes principles and practices used to design software products KEY TOPICS The discipline of design generic design processes and managing design are introduced in Part I Part II covers software product design use case modeling and user interface design Part III of the book is its core and covers engineering data analysis including conceptual modeling and both architectural and detailed engineering design MARKET This book is for anyone interested in learning software design

Software Architect Bootcamp Raphael C. Malveau, Thomas J. Mowbray, 2004 Fully revised and updated to reflect the latest trends in software architecture Allows you to execute heavyweight or lightweight approaches to architecture and identify the best architectural model for any project Added coverage of UML 2.0 and Model Driven Architecture [Ebook: Object-Oriented Systems Analysis and Design Using UML](#) BENNETT, 2010-04-16 Ebook Object Oriented Systems Analysis and Design Using UML

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