Extreme Programming Explained Embrace Change The Xp Series Kent Beck

A guide to XP leads the developer, project manager, and team leader through the software development planning process, offering real world examples and tips for reacting to changing environments quickly and efficiently. Stephens and Rosenberg examine XP in the context of existing methodologies and processes such as RUP, ICONIX, Spiral, RAD, DSDM, etc – and show how XP goals can be achieved using these existing processes. We're losing tens of billions of dollars a year on broken software, and great new ideas such as agile development and Scrum don't always pay off. But there's hope. The nine software development practices in Beyond Legacy Code are designed to solve the problems facing our industry. Discover why these practices work, not just how they work, and dramatically increase the quality and maintainability of any software project. These nine practices could save the software industry. Beyond Legacy Code is filled with practical, hands-on advice and a common-sense exploration of why technical practices such as refactoring and test-first development are critical to building maintainable software. Discover how to avoid the pitfalls teams encounter when adopting these practices, and how to dramatically reduce the risk associated with building software--realizing significant savings in both the short and long term. With a deeper understanding of the

principles behind the practices, you'll build software that's easier and less costly to maintain and extend. By adopting these nine key technical practices, you'll learn to say what, why, and for whom before how; build in small batches; integrate continuously; collaborate; create CLEAN code; write the test first; specify behaviors with tests; implement the design last; and refactor legacy code. Software developers will find hands-on, pragmatic advice for writing higher quality, more maintainable, and bug-free code. Managers, customers, and product owners will gain deeper insight into vital processes. By moving beyond the old-fashioned procedural thinking of the Industrial Revolution, and working together to embrace standards and practices that will advance software development, we can turn the legacy code crisis into a true Information Revolution.

This classic book is the definitive real-world style guide for better Smalltalk programming. This author presents a set of patterns that organize all the informal experience successful Smalltalk programmers have learned the hard way. When programmers understand these patterns, they can write much more effective code. The concept of Smalltalk patterns is introduced, and the book explains why they work. Next, the book introduces proven patterns for working with methods, messages, state, collections, classes and formatting. Finally, the book walks through a development example utilizing patterns. For programmers, project managers, teachers and students -- both new and experienced. This book presents a set of patterns that organize all the informal experience of successful Smalltalk programmers. This

book will help you understand these patterns, and empower you to write more effective code.

The Definitive Refactoring Guide, Fully Revamped for Ruby With refactoring, programmers can transform even the most chaotic software into well-designed systems that are far easier to evolve and maintain. What's more, they can do it one step at a time, through a series of simple, proven steps. Now, there's an authoritative and extensively updated version of Martin Fowler's classic refactoring book that utilizes Ruby examples and idioms throughout-not code adapted from Java or any other environment. The authors introduce a detailed catalog of more than 70 proven Ruby refactorings, with specific guidance on when to apply each of them, step-by-step instructions for using them, and example code illustrating how they work. Many of the authors' refactorings use powerful Ruby-specific features, and all code samples are available for download. Leveraging Fowler's original concepts, the authors show how to perform refactoring in a controlled, efficient, incremental manner, so you methodically improve your code's structure without introducing new bugs. Whatever your role in writing or maintaining Ruby code, this book will be an indispensable resource. This book will help you * Understand the core principles of refactoring and the reasons for doing it * Recognize "bad smells" in your Ruby code * Rework bad designs into well-designed code, one step at a time * Build tests to make sure your refactorings work properly * Understand the challenges of refactoring and how they can be overcome * Compose methods to package code properly * Move features

between objects to place responsibilities where they fit best * Organize data to make it easier to work with * Simplify conditional expressions and make more effective use of polymorphism * Create interfaces that are easier to understand and use * Generalize more effectively * Perform larger refactorings that transform entire software systems and may take months or years * Successfully refactor Ruby on Rails code

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.

Corporate and commercial software-development teams all want solutions for one important problem—how to get their high-pressure development schedules under control. In RAPID DEVELOPMENT, author Steve McConnell addresses that concern head-on with overall strategies, specific best practices, and valuable tips that help shrink and control development schedules and keep projects moving. Inside, you'll find: A rapid-development strategy that can be applied to any project and the best practices to make that strategy work Candid discussions of great and not-so-great rapid-development practices—estimation, prototyping, forced overtime, motivation, teamwork, rapid-development languages, risk management, and many others A list of classic mistakes to avoid for rapid-development projects, including creeping requirements, shortchanged quality, and silver-bullet syndrome Case studies that vividly illustrate what can go wrong, what can go right, and how to tell which

direction your project is going RAPID DEVELOPMENT is the real-world guide to more efficient applications development.

Accountability. Transparency. Responsibility. These are not words that are often applied to software development. In this completely revised introduction to Extreme Programming (XP), Kent Beck describes how to improve your software development by integrating these highly desirable concepts into your daily development process. The first edition of Extreme Programming Explained is a classic. It won awards for its then-radical ideas for improving small-team development, such as having developers write automated tests for their own code and having the whole team plan weekly. Much has changed in five years. This completely rewritten second edition expands the scope of XP to teams of any size by suggesting a program of continuous improvement based on: Five core values consistent with excellence in software development Eleven principles for putting those values into action Thirteen primary and eleven corollary practices to help you push development past its current business and technical limitations Whether you have a small team that is already closely aligned with your customers or a large team in a gigantic or multinational organization, you will find in these pages a wealth of ideas to challenge, inspire, and encourage you and your team members to substantially improve your software development. You will discover how to: Involve the whole team–XP style Increase technical collaboration through pair programming and continuous integration Reduce defects through developer testing Align business and

technical decisions through weekly and quarterly planning Improve teamwork by setting up an informative, shared workspace You will also find many other concrete ideas for improvement, all based on a philosophy that emphasizes simultaneously increasing the humanity and effectiveness of software development. Every team can improve. Every team can begin improving today. Improvement is possible–beyond what we can currently imagine. Extreme Programming Explained, Second Edition, offers ideas to fuel your improvement for years to come.

The 15th International Workshop on Conceptual Structures ICCS 2007 brings together numerous discussions between international groups of researchers from the field of Information and Communications Technology (ICT). At ICCS 2007 some of the world's best minds in information technology, arts, humanities and social science met to explore novel ways that ICT can augment human intelligence. The workshops include, Rough sets and data mining, and ubiquitous and collaborative computing.

The first edition of "Extreme Programming Explained" is a classic. It won awards for its then-radical ideas for improving small-team development, such as having developers write automated tests for their own code and having the whole team plan weekly. Much has changed in five years. This completely rewritten second edition expands the scope of XP to teams of any size by suggesting a program of continuous improvement based on: five core values consistent with excellence in software development; eleven principles for putting those values into action; and, thirteen primary and eleven corollary practices to help you push development past its current business and technical limitations. Whether you have a small team that is already closely aligned with your

customers or a large team in a gigantic or multinational organization, you will find in these pages a wealth of ideas to challenge, inspire, and encourage you and your team members to substantially improve your software development.

Beck wants to encourage readers to re-examine their preconceptions of how software development ought to occur. He does just that in this overview of Extreme Programming, a controversial approach to software development which challenges the notion that the cost of changing a piece of software must rise dramatically over the course of time. For most software developers, coding is the fun part. The hard bits are dealing with clients, peers, and managers and staying productive, achieving financial security, keeping yourself in shape, and finding true love. This book is here to help. Soft Skills: The Software Developer's Life Manual is a guide to a well-rounded, satisfying life as a technology professional. In it, developer and life coach John Sonmez offers advice to developers on important subjects like career and productivity, personal finance and investing, and even fitness and relationships. Arranged as a collection of 71 short chapters, this fun listen invites you to dip in wherever you like. A "Taking Action" section at the end of each chapter tells you how to get quick results. Soft Skills will help make you a better programmer, a more valuable employee, and a happier, healthier person.

Peter Seibel interviews 15 of the most interesting computer programmers alive today in Coders at Work, offering a companion volume to Apress's highly acclaimed best-seller Founders at Work by Jessica Livingston. As the words "at work" suggest, Peter Seibel focuses on how his interviewees tackle the day-to-day work of programming, while revealing much more, like how they became great programmers, how they recognize programming talent in others, and what kinds

of problems they find most interesting. Hundreds of people have suggested names of programmers to interview on the Coders at Work web site: www.codersatwork.com. The complete list was 284 names. Having digested everyone's feedback, we selected 15 folks who've been kind enough to agree to be interviewed: Frances Allen: Pioneer in optimizing compilers, first woman to win the Turing Award (2006) and first female IBM fellow Joe Armstrong: Inventor of Erlang Joshua Bloch: Author of the Java collections framework, now at Google Bernie Cosell: One of the main software guys behind the original ARPANET IMPs and a master debugger Douglas Crockford: JSON founder, JavaScript architect at Yahoo! L. Peter Deutsch: Author of Ghostscript, implementer of Smalltalk-80 at Xerox PARC and Lisp 1.5 on PDP-1 Brendan Eich: Inventor of JavaScript, CTO of the Mozilla Corporation Brad Fitzpatrick: Writer of LiveJournal, OpenID, memcached, and Perlbal Dan Ingalls: Smalltalk implementor and designer Simon Peyton Jones: Coinventor of Haskell and lead designer of Glasgow Haskell Compiler Donald Knuth: Author of The Art of Computer Programming and creator of TeX Peter Norvig: Director of Research at Google and author of the standard text on AI Guy Steele: Coinventor of Scheme and part of the Common Lisp Gang of Five, currently working on Fortress Ken Thompson: Inventor of UNIX Jamie Zawinski: Author of XEmacs and early Netscape/Mozilla hacker

The co-author of Microsoft Secrets links issues related to strategy and organization to those of managing technology, arguing that companies must chose a business model that will capitalize on good times and survive more difficult periods, and presenting the success stories of such companies as IBM, Toshiba, and Motorola. 25,000 first printing.

Provides information on eXtreme programming, or XP, a

software development methodology.

Extreme Programming is the most exciting revolution to hit the software engineering industry in the last decade. But what exactly is XP? And how do you XP? Simply put, XP is about playing to win. If you are serious about becoming an agile organization, decreasing your time to market, keeping your development team happy, and improving the overall quality of your software, then XP is for you. Extreme Programming in Practice provides a candid, refreshing, insiders view of how an XP project works. The artifacts presented in this book are real, the user stories are real, and the anecdotes are real. The book represents all-access, uncensored XP. The authors have chosen example over explanation, so that you can personalize the tenets of XP and put them into practice on your next development project. The book is supported with sample code and test examples. You can learn how to emphasize planning in your project; deliver multiple iterations of your project (each with increasing business value); gather customer feedback as you build; and test the integrity of your code without halting your development efforts. The authors also provide a handy summary of more than a dozen lessons learned i

You need to get value from your software project. You need it "free, now, and perfect." We can't get you there, but we can help you get to "cheaper, sooner, and better." This book leads you from the desire for value down to the specific activities that help good Agile projects deliver better software sooner, and at a lower cost. Using simple sketches and a few words, the author invites you to follow his path of learning and understanding from a half century of software development and from his

engagement with Agile methods from their very beginning. The book describes software development, starting from our natural desire to get something of value. Each topic is described with a picture and a few paragraphs. You're invited to think about each topic; to take it in. You'll think about how each step into the process leads to the next. You'll begin to see why Agile methods ask for what they do, and you'll learn why a shallow implementation of Agile can lead to only limited improvement. This is not a detailed map, nor a step-by-step set of instructions for building the perfect project. There is no map or instructions that will do that for you. You need to build your own project, making it a bit more perfect every day. To do that effectively, you need to build up an understanding of the whole process. This book points out the milestones on your journey of understanding the nature of software development done well. It takes you to a location, describes it briefly, and leaves you to explore and fill in your own understanding. What You Need: You'll need your Standard Issue Brain, a bit of curiosity, and a desire to build your own understanding rather than have someone else's detailed ideas poured into your head.

In 1994, Design Patterns changed the landscape of object-oriented development by introducing classic solutions to recurring design problems. In 1999, Refactoring revolutionized design by introducing an

effective process for improving code. With the highly anticipated Refactoring to Patterns , Joshua Kerievsky has changed our approach to design by forever uniting patterns with the evolutionary process of refactoring. This book introduces the theory and practice of pattern-directed refactorings: sequences of low-level refactorings that allow designers to safely move designs to, towards, or away from pattern implementations. Using code from real-world projects, Kerievsky documents the thinking and steps underlying over two dozen pattern-based design transformations. Along the way he offers insights into pattern differences and how to implement patterns in the simplest possible ways. Coverage includes: A catalog of twenty-seven pattern-directed refactorings, featuring real-world code examples Descriptions of twelve design smells that indicate the need for this book's refactorings General information and new insights about patterns and refactoring Detailed implementation mechanics: how low-level refactorings are combined to implement high-level patterns Multiple ways to implement the same pattern–and when to use each Practical ways to get started even if you have little experience with patterns or refactoring Refactoring to Patterns reflects three years of refinement and the insights of more than sixty software engineering thought leaders in the global patterns, refactoring, and agile development communities. Whether

you're focused on legacy or "greenfield" development, this book will make you a better software designer by helping you learn how to make important design changes safely and effectively. Building on their breakthrough bestsellers Lean Software Development and Implementing Lean Software Development, Mary and Tom Poppendieck's latest book shows software leaders and team members exactly how to drive high-value change throughout a software organization—and make it stick. They go far beyond generic implementation guidelines, demonstrating exactly how to make lean work in real projects, environments, and companies. The Poppendiecks organize this book around the crucial concept of frames, the unspoken mental constructs that shape our perspectives and control our behavior in ways we rarely notice. For software leaders and team members, some frames lead to long-term failure, while others offer a strong foundation for success. Drawing on decades of experience, the authors present twenty-four frames that offer a coherent, complete framework for leading lean software development. You'll discover powerful new ways to act as competency leader, product champion, improvement mentor, front-line leader, and even visionary. Systems thinking: focusing on customers, bringing predictability to demand, and revamping policies that cause inefficiency Technical excellence:

implementing low-dependency architectures, TDD, and evolutionary development processes, and promoting deeper developer expertise Reliable delivery: managing your biggest risks more effectively, and optimizing both workflow and schedules Relentless improvement: seeing problems, solving problems, sharing the knowledge Great people: finding and growing professionals with purpose, passion, persistence, and pride Aligned leaders: getting your entire leadership team on the same page From the world's number one experts in Lean software development, Leading Lean Software Development will be indispensable to everyone who wants to transform the promise of lean into reality—in enterprise IT and software companies alike. This book constitutes the refereed proceedings of the 7th International Conference on Extreme Programming and Agile Processes in Software Engineering, XP 2006, held in Oulu, Finland, June 2006. The book presents 16 revised full papers together with 6 experience papers, 12 poster papers and panel summaries, organized in topical sections on foundation and rationale for agile methods, effects of pair programming, quality in agile software development, and more. Lean Software Development: An Agile Toolkit Adapting agile practices to your development organization Uncovering and eradicating waste throughout the software development lifecycle

Practical techniques for every development manager, project manager, and technical leader Lean software development: applying agile principles to your organization In Lean Software Development, Mary and Tom Poppendieck identify seven fundamental "lean" principles, adapt them for the world of software development, and show how they can serve as the foundation for agile development approaches that work. Along the way, they introduce 22 "thinking tools" that can help you customize the right agile practices for any environment. Better, cheaper, faster software development. You can have all three–if you adopt the same lean principles that have already revolutionized manufacturing, logistics and product development. Iterating towards excellence: software development as an exercise in discovery Managing uncertainty: "decide as late as possible" by building change into the system. Compressing the value stream: rapid development, feedback, and improvement Empowering teams and individuals without compromising coordination Software with integrity: promoting coherence, usability, fitness, maintainability, and adaptability How to "see the whole"–even when your developers are scattered across multiple locations and contractors Simply put, Lean Software Development helps you refocus development on value, flow, and people–so you can achieve breakthrough quality, savings, speed, and business alignment.

Agile Estimating and Planning is the definitive, practical guide to estimating and planning agile projects. In this book, Agile Alliance cofounder Mike Cohn discusses the philosophy of agile estimating and planning and shows you exactly how to get the job done, with real-world examples and case studies. Concepts are clearly illustrated and readers are guided, step by step, toward how to answer the following questions: What will we build? How big will it be? When must it be done? How much can I really complete by then? You will first learn what makes a good plan-and then what makes it agile. Using the techniques in Agile Estimating and Planning , you can stay agile from start to finish, saving time, conserving resources, and accomplishing more. Highlights include: Why conventional prescriptive planning fails and why agile planning works How to estimate feature size using story points and ideal days–and when to use each How and when to re-estimate How to prioritize features using both financial and nonfinancial approaches How to split large features into smaller, more manageable ones How to plan iterations and predict your team's initial rate of progress How to schedule projects that have unusually high uncertainty or schedule-related risk How to estimate projects that will be worked on by multiple teams Agile Estimating and Planning supports any agile, semiagile, or iterative process, including Scrum, XP, Feature-Driven Development,

Crystal, Adaptive Software Development, DSDM, Unified Process, and many more. It will be an indispensable resource for every development manager, team leader, and team member. Extreme Programming has come a long way since its ?rst use in the C3 project almost 10 years ago. Agile methods have found their way into the mainstream, and at the end of last year we saw the second edition of Kent Beck's book on Extreme Programming, containing a major refactoring of XP. This year, the 6th International Conference on Extreme Programming and Agile Processes in Software Engineering took place June 18–23 in She?eld. As in the yearsbefore, XP 2005provideda unique forum for industry and academic professionals to discuss their needs and ideas on Extreme Programming and - ile methodologies. These proceedings re?ect the activities during the conference which ranged from presentation of research papers, invited talks, posters and demonstrations, panels and activity sessions, to tutorials and workshops. - cluded are also papers from the Ph.D. and Master's Symposium which provided a forum for young researchers to present their results and to get feedback.

Asvariedastheactivities werethe topicsofthe conferencewhichcoveredthe presentationofnewandi mprovedpractices,empiricalstudies,experiencereports and case studies, and last but not least the social

aspects of agile methods. The papers and the activities went through a rigorous reviewing process. Each paper was reviewed by at least three Program Committee members and wasdiscussedcarefullyamo ngtheProgramCommittee.Of62paperssubmitted, only 22 were accepted as full papers.

Learn what you need to succeed as a developer beyond the code. The lessons in this book will supercharge your career by sharing lessons and mistakes from real developers. Wouldn't it be nice to learn from others' career mistakes? "Soft" skills are crucial to success, but are haphazardly picked up on the job or, worse, never learned. Understanding these competencies and how to improve them will make you a more effective team member and a more attractive hire. This book will teach you the key skills you need, including how to ask questions, how and when to use common tools, and how to interact with other team members. Each will be presented in context and from multiple perspectives so you'll be able to integrate them and apply them to your own career quickly. What You'll Learn Know when the best code is no code Understand what to do in the first month of your job See the surprising number of developers who can't program Avoid the pitfalls of working alone Who This Book Is For Anyone who is curious about software development as a career choice. You have zero to five years of software development experience and want to learn non-

technical skills that can help your career. It is also suitable for teachers and mentors who want to provide guidance to their students and/or mentees. "This remarkable book combines practical advice, ready-to-use techniques, anda deep understanding of why this is the right way to develop software. I haveseen software teams transformed by the ideas in this book." --Mike Cohn, author of Agile Estimating and Planning "As a lean practitioner myself, I have loved and used their first book for years.When this second book came out, I was delighted that it was even better. If youare interested in how lean principles can be useful for software developmentorganizations, this is the book you are looking for. The Poppendiecks offer abeautiful blend of history, theory, and practice." --Alan Shalloway, coauthor of Design Patterns Explained "I've enjoyed reading the book very much. I feel it might even be better than thefirst lean book by Tom and Mary, while that one was already exceptionallygood! Mary especially has a lot of knowledge related to lean techniques inproduct development and manufacturing. It's rare that these techniques areactually translated to software. This is something no other book does well(except their first book)." --Bas Vodde "The new book by Mary and Tom Poppendieck provides a well-written andcomprehensive introduction to lean principles and selected practices for softwaremanagers and engineers. It illustrates the application of the values andpractices with well-suited success stories. I enjoyed reading it." --Roman Pichler "In Implementing Lean Software Development, the Poppendiecks explore moredeeply the themes they

introduced in Lean Software Development. They beginwith a compelling history of lean thinking, then move to key areas such asvalue, waste, and people. Each chapter includes exercises to help you apply keypoints. If you want a better understanding of how lean ideas can work withsoftware, this book is for you." --Bill Wake, independent consultant In 2003, Mary and Tom Poppendieck's Lean Software Development introduced breakthrough development techniques that leverage Lean principles to deliver unprecedented agility and value. Now their widely anticipated sequel and companion guide shows exactly how to implement Lean software development, hands-on. This new book draws on the Poppendiecks' unparalleled experience helping development organizations optimize the entire software value stream. You'll discover the right questions to ask, the key issues to focus on, and techniques proven to work. The authors present case studies from leading-edge software organizations, and offer practical exercises for jumpstarting your own Lean initiatives. Managing to extend, nourish, and leverage agile practices Building true development teams, not just groups Driving quality through rapid feedback and detailed discipline Making decisions Just-in-Time, but no later Delivering fast: How PatientKeeper delivers 45 rock-solid releases per year Making tradeoffs that really satisfy customers Implementing Lean Software Development is indispensable to anyone who wants more effective development processes--managers, project leaders, senior developers, and architects in enterprise IT and software companies alike.

Few books in computing have had as profound an influence on software management as Peopleware . The unique insight of this longtime best seller is that the major issues of software development are human, not technical. They're not easy issues; but solve them, and you'll maximize your chances of success. "Peopleware has long been one of my two favorite books on software engineering. Its underlying strength is its base of immense real experience, much of it quantified. Many, many varied projects have been reflected on and distilled; but what we are given is not just lifeless distillate, but vivid examples from which we share the authors' inductions. Their premise is right: most software project problems are sociological, not technological. The insights on team jelling and work environment have changed my thinking and teaching. The third edition adds strength to strength." — Frederick P. Brooks, Jr., Kenan Professor of Computer Science, University of North Carolina at Chapel Hill, Author of The Mythical Man-Month and The Design of Design "Peopleware is the one book that everyone who runs a software team needs to read and reread once a year. In the quarter century since the first edition appeared, it has become more important, not less, to think about the social and human issues in software develop¿ment. This is the only way we're going to make more humane, productive workplaces. Buy it, read it, and keep a stock on hand in the office supply closet." —Joel Spolsky, Co-founder, Stack Overflow "When a book about a field as volatile as software design and use extends to a third edition, you can be sure that the authors write of deep

principle, of the fundamental causes for what we readers experience, and not of the surface that everyone recognizes. And to bring people, actual human beings, into the mix! How excellent. How rare. The authors have made this third edition, with its additions, entirely terrific." —Lee Devin and Rob Austin, Co-authors of The Soul of Design and Artful Making For this third edition, the authors have added six new chapters and updated the text throughout, bringing it in line with today's development environments and challenges. For example, the book now discusses pathologies of leadership that hadn't previously been judged to be pathological; an evolving culture of meetings; hybrid teams made up of people from seemingly incompatible generations; and a growing awareness that some of our most common tools are more like anchors than propellers. Anyone who needs to manage a software project or software organization will find invaluable advice throughout the book.

JUnit, created by Kent Beck and Erich Gamma, is an open source framework for test-driven development in any Java-based code. JUnit automates unit testing and reduces the effort required to frequently test code while developing it. While there are lots of bits of documentation all over the place, there isn't a go-to-manual that serves as a quick reference for JUnit. This Pocket Guide meets the need, bringing together all the bits of hard to remember information, syntax, and rules for working with JUnit, as well as delivering the insight and sage advice that can only come from a technology's creator. Any programmer who has written, or is writing,

Java Code will find this book valuable. Specifically it will appeal to programmers and developers of any level that use JUnit to do their unit testing in test-driven development under agile methodologies such as Extreme Programming (XP) [another Beck creation]. Extreme Programming ExplainedEmbrace ChangeAddison-Wesley Professional

Testing is a cornerstone of XP, as tests are written for every piece of code before it is programmed. This workbook helps testers learn XP, and XP devotees learn testing. This new book defines how an XP tester can optimally contribute to a project, including what testers should do, when they should do it, and how they should do it.

Software Expert Kent Beck Presents a Catalog of Patterns Infinitely Useful for Everyday Programming Great code doesn't just function: it clearly and consistently communicates your intentions, allowing other programmers to understand your code, rely on it, and modify it with confidence. But great code doesn't just happen. It is the outcome of hundreds of small but critical decisions programmers make every single day. Now, legendary software innovator Kent Beck—known worldwide for creating Extreme Programming and pioneering software patterns and test-driven development—focuses on these critical decisions, unearthing powerful "implementation patterns" for writing programs that are simpler, clearer, better organized, and more cost effective. Beck collects 77 patterns for handling everyday programming tasks and writing more readable code. This new collection of

patterns addresses many aspects of development, including class, state, behavior, method, collections, frameworks, and more. He uses diagrams, stories, examples, and essays to engage the reader as he illuminates the patterns. You'll find proven solutions for handling everything from naming variables to checking exceptions.

Algorithms play an important role in both the science and practice of computing. To optimally use algorithms, a deeper understanding of their logic and mathematics is essential. Beyond traditional computing, the ability to apply these algorithms to solve real-world problems is a necessary skill, and this is what this book focuses on. Extreme Programming (XP) is a significant departure from traditional software development methods, one that is ushering in a change for both developers and business people. It is an agile methodology, which enables highly productive teams to produce quality software from rapidly changing or unclear requirements. XP is disciplined software craftsmanship, elevating best practices in software analysis, design, testing, implementation, and project management to a new level. "Extreme Programming Applied" helps you begin using the principles behind this revolutionary concept. Even as the popularity of XP grows, many programmers and developers are still seeking practical advice on getting started. They find themselves in search of an XP roadmap, one that points to paths around the obstacles. "Extreme Programming Applied" is just that roadmap, a pragmatic guide to getting started with Extreme Programming. It helps programmers and project

managers take their first steps toward applying the XP discipline. This book is not a tutorial, however. It uses real-world experience to educate readers about how to apply XP in their organizations. The authors offer guidelines for implementing XP, illustrating key points with valuable stories from successful XP pioneers. 0201616408B09172001

Extreme Programming Installed explains the core principles of Extreme Programming and details each step in the XP development cycle. This book conveys the essence of the XP approach--techniques for implementation, obstacles likely to be encountered, and experience-based advice for successful execution.

For those considering Extreme Programming, this book provides no-nonsense advice on agile planning, development, delivery, and management taken from the authors' many years of experience. While plenty of books address the what and why of agile development, very few offer the information users can apply directly.

Agile is broken. Most Agile transformations struggle. According to an Allied Market Research study, "3% of respondents stated the failure of agile implementation in their organizations." The problems with Agile start at the top of most organizations with executive leadership not getting what agile is or even knowing the difference between success and failure in agile. Agile transformation is a journey, and most of that journey consists of people learning and trying new approaches in their own work. An agile organization can make use of coaches and training to improve their chances of success. But even then, failure remains because many Agile ideas are oversimplifications or interpreted in an extreme way, and many elements essential for success are missing. Coupled with other ideas that have been dogmatically forced

on teams, such as "agile team rooms", and "an overall inertia and resistance to change in the Agile community," the Agile movement is ripe for change since its birth twenty years ago. "Agile 2" represents the work of fifteen experienced Agile experts, distilled into Agile 2: The Next Iteration of Agile by seven members of the team. Agile 2 values these pairs of attributes when properly balanced: thoughtfulness and prescription; outcomes and outputs, individuals and teams; business and technical understanding; individual empowerment and good leadership; adaptability and planning. With a new set of Agile principles to take Agile forward over the next 20 years, Agile 2 is applicable beyond software and hardware to all parts of an agile organization including "Agile HR", "Agile Finance", and so on. Like the original "Agile", "Agile 2", is just a set of ideas - powerful ideas. To undertake any endeavor, a single set of ideas is not enough. But a single set of ideas can be a powerful guide. Ever since Extreme Programming burst on to the application development scene in 1998, it has been a lightning rod for controversy. In "Questioning Extreme Programming, " author McBreen puts this agile approach to application development under the microscope, and closely examines both sides of this heated debate.

Software development is being revolutionized. The heavy-weight processes of the 1980s and 1990s are being replaced by light-weight, so called agile processes. Agile processes move the focus of software development back to what really matters: running software. This is only made possible by accepting that software developmentisacreativejobdoneby,with,andforindividualhumanbeings.For this reason, agile software development encourages interaction, communication, and fun. This was the focus of the Fifth International Conference on Extreme P- grammingandAgilePr ocessesinSoftwareEngineeringwhichtookplacebetween June

6 and June 10, 2004 at the conference center in Garmisch-Partenkirchen at the foot of the Bavarian Alps near Munich, Germany. In this way the conference provided a unique forum for industry and academic professionals to discuss their needs and ideas for incorporating Extreme Programming and Agile Metho- logies into their professional life under consideration of the human factor. We celebrated this year's conference by re?ecting on what we had achieved in the last half decade and we also focused on the challenges we will face in the near future.

"Agile Software Development is a highly stimulating and rich book. The author has a deep background and gives us a tour de force of the emerging agile methods." —Tom Gilb The agile model of software development has taken the world by storm. Now, in Agile Software Development, Second Edition, one of agile's leading pioneers updates his Jolt Productivity award-winning book to reflect all that's been learned about agile development since its original introduction. Alistair Cockburn begins by updating his powerful model of software development as a "cooperative game of invention and communication." Among the new ideas he introduces: harnessing competition without damaging collaboration; learning lessons from lean manufacturing; and balancing strategies for communication. Cockburn also explains how the cooperative game is played in business and on engineering projects, not just software development Next, he systematically illuminates the agile model, shows how it has evolved, and answers the questions developers and project managers ask most often, including · Where does agile development fit in our organization? · How do we blend agile ideas with other ideas? · How do we extend agile ideas more broadly? Cockburn takes on crucial misconceptions that cause agile projects to fail. For example, you'll learn why encoding project management strategies into fixed processes

can lead to ineffective strategy decisions and costly mistakes. You'll also find a thoughtful discussion of the controversial relationship between agile methods and user experience design. Cockburn turns to the practical challenges of constructing agile methodologies for your own teams. You'll learn how to tune and continuously reinvent your methodologies, and how to manage incomplete communication. This edition contains important new contributions on these and other topics: · Agile and CMMI · Introducing agile from the top down · Revisiting "custom contracts" · Creating change with "stickers" In addition, Cockburn updates his discussion of the Crystal methodologies, which utilize his "cooperative game" as their central metaphor. If you're new to agile development, this book will help you succeed the first time out. If you've used agile methods before, Cockburn's techniques will make you even more effective.

Users can dramatically improve the design, performance, and manageability of object-oriented code without altering its interfaces or behavior. "Refactoring" shows users exactly how to spot the best opportunities for refactoring and exactly how to do it, step by step.

Write clean code that works with the help of this groundbreaking software method. Example-driven teaching is the basis of Beck's step-by-step instruction that will have readers using TDD to further their projects.

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