

## Adaptive Code Via C Agile Coding With Pearsoncmg

Write code that can adapt to changes. By applying this book's principles, you can create code that accommodates new requirements and unforeseen scenarios without significant rewrites. Gary McLean Hall describes Agile best practices, principles, and patterns for designing and writing code that can evolve more quickly and easily, with fewer errors, because it doesn't impede change. Now revised, updated, and expanded, *Adaptive Code, Second Edition* adds indispensable practical insights on Kanban, dependency inversion, and creating reusable abstractions. Drawing on over a decade of Agile consulting and development experience, McLean Hall has updated his best-seller with deeper coverage of unit testing, refactoring, pure dependency injection, and more. Master powerful new ways to:

- Write code that enables and complements Scrum, Kanban, or any other Agile framework
- Develop code that can survive major changes in requirements
- Plan for adaptability by using dependencies, layering, interfaces, and design patterns
- Perform unit testing and refactoring in tandem, gaining more value from both
- Use the "golden master" technique to make legacy code adaptive
- Build SOLID code with single-responsibility, open/closed, and Liskov substitution principles
- Create smaller interfaces to support more-diverse client and architectural needs
- Leverage dependency injection best practices to improve code adaptability
- Apply dependency inversion with the Stairway pattern, and avoid related anti-patterns

About You This book is for programmers of all skill levels seeking more-practical insight into design patterns, SOLID principles, unit testing, refactoring, and related topics. Most readers will have programmed in C#, Java, C++, or similar object-oriented languages, and will be familiar with core procedural programming techniques.

Printed in full color. Faced with a software project of epic proportions? Tired of over-committing and under-delivering? Enter the dojo of the agile samurai, where agile expert Jonathan Rasmusson shows you how to kick-start, execute, and deliver your agile projects. Combining cutting-edge tools with classic agile practices, *The Agile Samurai* gives you everything you need to deliver something of value every week and make rolling your software into production a non-event. Get ready to kick some software project butt. By learning the ways of the agile samurai you will discover: how to create plans and schedules your customer and your team can believe in what characteristics make a good agile team and how to form your own how to gather requirements in a fraction of the time using agile user stories what to do when you discover your schedule is wrong, and how to look like a pro correcting it how to execute fiercely by leveraging the power of agile software engineering practices By the end of this book you will know everything you need to set up, execute, and successfully deliver agile projects, and have fun along the way. If you're a project lead, this book gives you the tools to set up and lead your agile project from start to finish. If you are an analyst, programmer, tester, usability designer, or project manager, this book gives you the insight and foundation necessary to become a valuable agile team member. *The Agile Samurai* slices away the fluff and theory that make other books less-than-agile. It's packed with best practices, war stories, plenty of humor and hands-on tutorial exercises that will get you doing the right things, the right way. This book will make a difference.

Are you ready for a whole new way to manage your projects? If so, you need to read this book! Are you a project manager who is frustrated by the rigidity of traditional project management methods? Do you feel it stifles the creativity of your team? Have you seen projects fail because of an inability to respond appropriately to changing internal or external circumstances? If so, you're going to be very happy to learn about the superpower that is known as the Agile Methodology for Project Management. This book will help you gain a deeper understanding of the Agile principles of management. Why Should I Use Agile? Using the Agile method will greatly increase project efficiency and team collaboration, and that will improve your deliverables, your team's creativity, and your customer's satisfaction. Agile does this by providing for the following: Continuous feedback Creative problem solving in every sprint Flexibility in responding to changes Adaptive, highly creative teams Increased team efficiency as you value individuals and interactions over processes and tools Customer collaboration that dramatically increases satisfaction Why should I buy this book? To put it simply, it explains in easy to understand language how to apply the Agile methodology to every phase of any project. Specifically, here's what you'll learn: The Agile process How to plan for success How Agile will improve your communications How the Agile method differs from other methods and why it is better The Agile lifecycle The Scrum Framework The Kanban Framework How to build an adaptive team How to implement collaborative management principles Why this book from among the 100s of others? This book is different in a number of significant ways. Whereas other books just skim the surface when explaining this method, this book offers specific tools and easy-to-follow instructions as well as in-depth information on the following topics: Explanations of the Agile method and the paradigm shift in project management The benefits of Agile over other methods The Agile process The tools that will allow you to manage any kind of project The major Agile frameworks both Scrum and Kanban Adaptive team building and collaborative project management How to avoid the main pitfalls of using this method Quite simply, this book offers a comprehensive guide to this highly successful method of project management. It gives you everything you need to know to manage any kind of project! So, if you're tired of having to push your team for success, if you feel constrained by your current management methodology, and/or if you just want to see more projects succeed with improved customer satisfaction, you need to take a look at this method. If you follow the principles in this book, you will see your project success rate improve and your customer satisfaction soar! So, what are you waiting for? There's no better time than the present, and there's no easier way to learn about it than by reading this book! Get started reading today by clicking on the BUY NOW button!

This is the definitive guide for managers and students to agile and iterativedevelopment methods: what they are, how they work, how to implement them, andwhy they should.

EDGE: The Agile Operating Model That Will Help You Successfully Execute Your Digital Transformation "[The authors']

passion for technology allows them to recognize that for most enterprises in the 21st century, technology is THE business. This is what really separates the EDGE approach. It is a comprehensive operating model with technology at its core.” —From the Foreword by Heidi Musser, Executive Vice President and Principal Consultant, Leading Agile; retired, Vice President and CIO, USAA Maximum innovation happens at the edge of chaos: the messy, risky, and uncertain threshold between randomness and structure. Operating there is uncomfortable but it’s where organizations “invent the future.” EDGE is a set of fast, iterative, adaptive, lightweight, and value-driven tools to achieve digital transformation, and EDGE: Value-Driven Digital Transformation is your guide to using this operating model for innovation. Jim Highsmith is one of the world’s leading agile pioneers and a coauthor of the Agile Manifesto. He, Linda Luu, and David Robinson know from their vast in-the-trenches experience that sustainable digital transformation requires far more than adopting isolated agile practices or conventional portfolio management. This hard, indispensable work involves changing culture and mindset, and going beyond transforming the IT department. EDGE embraces an adaptive mindset in the face of market uncertainty, a visible, value-centered portfolio approach that encourages continual value linkages from vision to detailed initiatives, incremental funding that shifts as strategies evolve, collaborative decision-making, and better risk mitigation. This guide shows leaders how to use the breakthrough EDGE approach to go beyond incremental improvement in a world of exponential opportunities. Build an organization that adapts fast enough to thrive Clear away unnecessary governance processes, obsolete “command and control” leadership approaches, and slow budgeting/planning cycles Improve collaboration when major, fast-paced responses are necessary Continually optimize investment allocation and monitoring based on your vision and goals Register your product for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

In Team Topologies DevOps consultants Matthew Skelton and Manuel Pais share secrets of successful team patterns and interactions to help readers choose and evolve the right team patterns for their organization, making sure to keep the software healthy and optimize value streams. Team Topologies will help readers discover:

- Team patterns used by successful organizations.
- Common team patterns to avoid with modern software systems.
- When and why to use different team patterns
- How to evolve teams effectively.
- How to split software and align to teams.

Partial Contents1: Software Ascents- Components of Adaptive Software Development2: Thriving at the Edge of Chaos-The Adaptive Development Model3: The Project Mission- Identify the Mission- Create Mission Artifacts- Share Mission Values- Focus on Results4: Planning Adaptive Development Cycles- Adaptive Planning Techniques- The Evolving World of Components5: Great Groups and the Ability to Collaborate- Using Complexity Concepts to Improve Collaboration-Joint Application Development6: Learning: Models, Techniques, and Cycle Review Practices- Software Inspections- Project Postmortems7: Why Even Good Managers Cause Projects to Fail- Disruptive Technologies- No Silver Bullet8: Adaptive Management- The Progression from Process to Pattern9: Workstate Life Cycle Management- Managing Workflow in an Adaptive Environment10: Structural Collaboration- Eight Guidelines for Applying Rigor to Project Work11: Managing Project Time Cycles- Plan the Project12: Dawdling, McLuhan, and Thin Air- Organizational Growth- Surviving in Thin AirBibliographyIndex

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.

Best practices for managing projects in agile environments—now updated with new techniques for larger projects Today, the pace of project management moves faster. Project management needs to become more flexible and far more responsive to customers. Using Agile Project Management (APM), project managers can achieve all these goals without compromising value, quality, or business discipline. In Agile Project Management, Second Edition, renowned agile pioneer Jim Highsmith thoroughly updates his classic guide to APM, extending and refining it to support even the largest projects and organizations. Writing for project leaders, managers, and executives at all levels, Highsmith integrates the best project management, product management, and software development practices into an overall framework designed to support unprecedented speed and mobility. The many topics added in this new edition include incorporating agile values, scaling agile projects, release planning, portfolio governance, and enhancing organizational agility. Project and business leaders will especially appreciate Highsmith’s new coverage of promoting agility through performance measurements based on value, quality, and constraints. This edition’s coverage includes: Understanding the agile revolution’s impact on product development Recognizing when agile methods will work in project management, and when they won’t Setting realistic business objectives for Agile Project Management Promoting agile values and principles across the organization Utilizing a proven Agile Enterprise Framework that encompasses governance, project and iteration management, and technical practices Optimizing all five stages of the agile project: Envision, Speculate, Explore, Adapt, and Close Organizational and product-related processes for scaling agile to the largest projects and teams Agile project governance solutions for executives and management The “Agile Triangle”: measuring performance in ways that encourage agility instead of discouraging it The changing role of the agile project leader

This open access book constitutes the proceedings of the 20th International Conference on Agile Software Development, XP 2019, held in Montreal, QC, Canada, in May 2019. XP is the premier agile software development conference combining research and practice. It is a hybrid forum where agile researchers, academics, practitioners, thought leaders, coaches, and trainers get together to present and discuss their most recent innovations, research results, experiences, concerns, challenges, and trends. Following this history, for both researchers and seasoned practitioners XP 2019 provided an informal environment to network, share, and discover trends in Agile for the next 20 years. The 15 full papers presented in this volume were carefully reviewed and selected from 45 submissions. They were organized in topical sections named: agile adoption, agile practices; large-scale agile; agility beyond IT, and the future of agile.

Flex your project management muscle Agile project management is a fast and flexible approach to managing all projects, not just software development. By learning the principles and techniques in this book, you'll be able to create a product roadmap, schedule projects, and prepare for product launches with the ease of Agile software developers. You'll discover how to manage scope, time, and cost, as well as team dynamics, quality, and risk of every project. As mobile and web technologies continue to evolve rapidly, there is added pressure to develop and implement software projects in weeks instead of months—and Agile Project Management For Dummies can help you do just that. Providing a simple, step-by-step guide to Agile project management approaches, tools, and techniques, it shows product and project managers how to complete and implement projects more quickly than ever. Complete projects in weeks instead of months Reduce risk and leverage core benefits for projects Turn Agile theory into practice for all industries Effectively create an Agile environment Get ready to grasp and apply Agile principles for faster, more accurate development.

This book is a practical guide for new agile practitioners and contains everything a new project manager needs to know to get up to speed with agile practices quickly and sort out the hype and dogma of pseudo-agile practices. The author lays out the general guidelines for running an agile project with the assumption that the project team may be working in a traditional environment (using the waterfall model, or something similar). Agile Development in the Real World conveys valuable insights to multiple audiences: For new-to-agile project managers, this book provides a distinctive approach that Alan Cline has used with great success, while showing the decision points and perspectives as the agile project moves forward from one step to the next. This allows new agile project managers or agile coaches to choose between the benefits of agile and the benefits of other methods. For the agile technical team member, this book contains templates and sample project artifacts to assist in learning agile techniques and to be used as exemplars for the new practitioner's own project. For the Project Management Office (PMO), the first three chapters focus on portfolio management. They explain, for the agilists' benefit, how projects are selected and approved, and why projects have an inherent "shelf-life" that results in hard deadlines that may seem arbitrary to traditional technical teams. What You Will Learn: How and why the evolution of project management, from PM-1 (prescriptive) to PM-2 (adaptive) affects modern 21st century project management. How sociology (stakeholder management), psychology (team dynamics), and anthropology (organizational culture) affect the way software is developed today, and why it is far more effective A clear delineation of what must be accomplished by all the roles (PM, BA, APM, Developer, and Tester), why those roles are needed, and what they must do Step-by-step guide for a successful project based on studies and the author's own experiences. Specific techniques for each role on the development team, both in the pre-iteration and iteration cycles, of product development. The appendices contain templates that the team could use or modify to tailor their own agile processes specific to the team, project, and organization.

Lessons from Agile's First Decade...Leadership for Agile's Next Decade The agile software movement has now been around for a full decade. As coauthor of the original Agile Manifesto, Jim Highsmith has been at its heart since the beginning. He's spent the past decade helping hundreds of organizations transition to agile/lean. When it comes to agile, he's seen it all—in a variety of industries, worldwide. Now, in Adaptive Leadership, he has compiled, updated, and extended his best writings about agile and lean methods for a management audience. Highsmith doesn't just reveal what's working and what isn't; he offers a powerful new vision for extending agility across the enterprise. Drawing on what's been learned in application development, this guide shows how to use adaptive leadership techniques to transform the way you deliver complete solutions, whatever form they take. You'll learn how enterprise agility can enable the ambitious organizational missions that matter most; how leaders can deliver a continuous stream of value; how to think disruptively about opportunities, and how to respond quickly by creating more adaptive, innovative organizations. Coverage includes Discovering and executing new business opportunities far more quickly Delivering complete business solutions earlier, and iterating them more often Organizing for innovation, and systematically managing opportunity flow Clarifying the degree of strategic, portfolio, and operational agility you need, and focusing on your highest-value transformations Creating cultures that actually can adapt and learn Reinvigorating the roots of agile value and values Understanding IT's changing value proposition, and retraining your people accordingly Integrating economics, products, and social responsibility Choosing metrics that guide agility, not counterproductive traditional metrics Understanding the financial implications of technical debt Optimizing business value by doing less—and guiding the process with "NOT to do" lists Speculating intelligently when you can't plan away uncertainty Customizing management to each project's needs (because not all projects should be equally agile)

"...a well written and content rich book. From a teacher's perspective, using this book in an advanced project management seminar challenges students to understand the application of these concepts." —Alexander Walton, PMP, IT consultant to the University of California at Berkeley Widely acclaimed as one of the top agile books in its first edition, Project Management the Agile Way has now been updated and redesigned by popular demand. This second edition is in a modular format to facilitate training and advanced course instruction, and provides new coverage of agile, such as hybrid agile methods, the latest public sector practices, and a chapter dedicated to transitioning to agile. It discusses the

“grand bargain” between project management and business; the shift in dominance from plans to product and from input to output; and introduces new concepts such as return on benefit. Experienced practitioners and students that want to learn how to make agile work effectively in the enterprise should read this book. Individuals preparing for the PMI Agile Certified Practitioner (PMI-ACP)® examination, and training providers developing courses, will find this second edition quite helpful.

Lack of Agility is the kiss of death. Position your company to succeed in world of change. To edge out the competition in today’s disruptive environment, you need to ensure that your company is agile—that it can respond to change instantly and effectively. Because fast and furious change is the only thing you can count on in business today. Network expert Michael Arena helped enable GM’s legendary turnaround. In these pages, he explains how you can transform your own company through the concept of adaptive space. Based on hundreds of interviews and the author’s own groundbreaking study of dozens of organizations spanning a variety of industries, Adaptive Space shows how to position your company for today—and for the future—by enabling creativity, innovation, and novel ideas to flow freely among teams, across departments, and throughout the company. Using GM as the main case study—along with the stories of other highly adaptive organizations, like Apple, Amazon, Disney, and Gore—Arena provides a model you can follow to reinvent your company. It’s about inspiring employees to explore new ideas, empowering the most creative people and teams to spread their ideas across the organization, and operationalizing the entrepreneurial spirit so adaptability is set in stone. Hesitation is a killer in today’s business landscape. With Adaptive Space, you have everything you need to confront disruption with smart, confident actions and seize the valuable opportunities that come with change.

The latest knowledge on mineral ore genesis and the exploration of ore deposits Global demand for metals has risen considerably over the past decade. Geologists are developing new approaches for studying ore deposits and discovering new sources. Ore Deposits: Origin, Exploration, and Exploitation is a compilation of diverse case studies on new prospects in ore deposit geology including atypical examples of mineral deposits and new methods for ore exploration. Volume highlights include: Presentation of the latest research on a range of ore deposit types Application of ore deposits to multiple areas of geology and geophysical exploration Emphasis on diverse methods and tools for the study of ore deposits Useful case studies for geologists in both academia and industry Ore Deposits: Origin, Exploration, and Exploitation is a valuable resource for economic geologists, mineralogists, petrologists, geochemists, mining engineers, research professionals, and advanced students in relevant areas of academic study.

The rules and practices for Scrum—a simple process for managing complex projects—are few, straightforward, and easy to learn. But Scrum’s simplicity itself—its lack of prescription—can be disarming, and new practitioners often find themselves reverting to old project management habits and tools and yielding lesser results. In this illuminating series of case studies, Scrum co-creator and evangelist Ken Schwaber identifies the real-world lessons—the successes and failures—culled from his years of experience coaching companies in agile project management. Through them, you’ll understand how to use Scrum to solve complex problems and drive better results—delivering more valuable software faster. Gain the foundation in Scrum theory—and practice—you need to: Rein in even the most complex, unwieldy projects Effectively manage unknown or changing product requirements Simplify the chain of command with self-managing development teams Receive clearer specifications—and feedback—from customers Greatly reduce project planning time and required tools Build—and release—products in 30-day cycles so clients get deliverables earlier Avoid missteps by regularly inspecting, reporting on, and fine-tuning projects Support multiple teams working on a large-scale project from many geographic locations Maximize return on investment!

Streamline project workflow with expert agile implementation The Project Management Profession is beginning to go through rapid and profound transformation due to the widespread adoption of agile methodologies. Those changes are likely to dramatically change the role of project managers in many environments as we have known them and raise the bar for the entire project management profession; however, we are in the early stages of that transformation and there is a lot of confusion about the impact it has on project managers: There are many stereotypes and misconceptions that exist about both Agile and traditional plan-driven project management, Agile and traditional project management principles and practices are treated as separate and independent domains of knowledge with little or no integration between the two and sometimes seen as in conflict with each other Agile and "Waterfall" are thought of as two binary, mutually-exclusive choices and companies sometimes try to force-fit their business and projects to one of those extremes when the right solution is to fit the approach to the project It’s no wonder that many Project Managers might be confused by all of this! This book will help project managers unravel a lot of the confusion that exists; develop a totally new perspective to see Agile and traditional plan-driven project management principles and practices in a new light as complementary to each other rather than competitive; and learn to develop an adaptive approach to blend those principles and practices together in the right proportions to fit any situation. There are many books on Agile and many books on traditional project management but what’s very unique about this book is that it takes an objective approach to help you understand the strengths and weaknesses of both of those areas to see how they can work synergistically to improve project outcomes in any project. The book includes discussion topics, real world case studies, and sample enterprise-level agile frameworks that facilitate hands-on learning as well as an in-depth discussion of the principles behind both Agile and traditional plan-driven project management practices to provide a more thorough level of understanding.

Your process may be agile, but are you building agility directly into the code base? This book teaches .NET programmers how to give code the flexibility to adapt to changing requirements and customer demands by applying cutting-edge techniques, including SOLID principles, design patterns, and other industry best practices. Understand why composition is preferable to inheritance and how flexible the interface really can be Gain deep knowledge of key design patterns and anti-patterns, when to apply them, and how to give their code agility Bridge the gap between the theory behind SOLID

principles, design patterns, and industry best practices by pragmatically solving real-world problems Get code samples written in upcoming version of Microsoft Visual C# Topics include: Agile with Scrum process; dependencies and layering; the interface; patterns and anti-patterns; introduction to SOLID principles, including open/closed and dependency interjection; and using application templates

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.

Your Hands-On, "In-the-Trenches" Guide to Successfully Leading Agile Projects Agile methods promise to infuse development with unprecedented flexibility, speed, and value and these promises are attracting IT organizations worldwide. However, agile methods often fail to clearly define the manager's role, and many managers have been reluctant to buy in. Now, expert project manager Sanjiv Augustine introduces agility "from the manager's point of view, offering a proven management framework that addresses everything from team building to project control. Augustine bridges the disconnect between the assumptions and techniques of traditional and agile management, demonstrating why agility is better aligned with today's project realities, and how to simplify your transition. Using a detailed case study, he shows how agile methods can scale to succeed in even the largest projects: Defining a high-value role for the manager in agile project environments Refocusing on "outcomes--not rigid plans, processes, or controls Structuring and building adaptive, self-organizing "organic teams" Forming a guiding vision that aligns your team behind a common purpose Empowering your team with the information it needs to succeed Managing the flow of customer value from one creative stage to the next Leveraging your team members strengths as "whole persons" Implementing full-life-cycle agility: from planning and coding to maintenance and knowledge transfer Customizing agile methods to your unique environment Becoming an "adaptive leader" who can inspire and energize agile teams Whether you're a technical or business manager, "Managing Agile Projects" gives you all the tools you need to implement agility in "your environment and reap its full benefits. "Managing Agile Projects is part of the Robert C. Martin series. (c) Copyright Pearson Education. All rights reserved.

This book contains the refereed proceedings of the 16th International Conference on Agile Software Development, XP 2015, held in Helsinki, Finland, in May 2015. While agile development has already become mainstream in industry, this field is still constantly evolving and continues to spur an enormous interest both in industry and academia. The XP conference series has always played, and continues to play, an important role in connecting the academic and practitioner communities, providing a forum for both formal and informal sharing and development of ideas, experiences, and opinions. The theme of XP 2015 "Delivering Value: Moving from Cyclic to Continuous Value Delivery" reflects the modern trend towards organizations that are simultaneously very efficient and flexible in software development and delivery. The 15 full and 7 short papers accepted for XP 2015 were selected from 44 submissions. All of the submitted papers went through a rigorous peer-review process. Additionally, 11 experience reports were selected from 45 proposals, and in each case the authors were shepherded by an experienced researcher.

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.

Discover how to implement and operate in an Agile manner at every level of your enterprise and at every point from idea to delivery. Learn how Agile-mature organizations adapt nimbly to microchanges in market conditions. Learn cutting-edge practices and concepts as you extend your implementation of Agile through the entire enterprise to meet customer needs. Veteran Agile coach Mario Moreira argues that two critical conditions must be conscientiously cultivated at a company before it can expect to reap in full measure the business benefits of mature Agile. First, individuals at every level must be committed to the mindset and the implementation of practices rigorously focused on delivering value to the customer. Second, all employees must be empowered to take ownership. This holistic transformation wrenches the status quo and provokes a strong focus where customers and employees matter. What You'll Learn Establish an idea pipeline to quickly and productively evolve customer value through all levels of the enterprise Incorporate a discovery mindset—experimental, incremental, design, and divergent thinking—and fast feedback loops to increase the odds that what you build aligns more closely to what customer wants Leverage Lean Canvas, personas, story mapping, value stream mapping, Cost of Delay, servant leadership, self-organization, and more to deliver optimum value to customers Use continuous agile budgeting and idea pipelines at the senior levels of the enterprise to enable you to adapt to the speed of the market Reinvent human resources, portfolio management, finance, and many areas of management toward new roles in the enablement of customer value Map a top-to-bottom and end-to-end holistic view of your Agile galaxy to gauge where you are today and where you'd like to go in your Agile future Be truly Agile throughout your enterprise, focused on customer value and employees above all else Who This Book Is For Executives and senior management; sponsors of Agile within a company; ScrumMasters and Agile coaches, champions, and consultants; project management and quality assurance officers (PMOs and AMOs); portfolio managers; product managers and product owners; marketing and business managers; functional, middle, and resource managers; engineering heads and managers; cross-functional engineering/scrum teams; and entrepreneurs and venture capitalists

We make inaccessible and unusable websites and apps all the time, but it's not for lack of skill or talent. It's just a case of doing things the wrong way. We try to build the best experiences we can, but we only make them for ourselves and for people like us. This book looks at common interface patterns from the perspective of an inclusive designer—someone trained in building experiences that cater to the huge diversity of abilities, preferences and circumstances out there. There's no such thing as an 'average' user, but there is such a thing as an average developer. This book will take you from average to expert in the area that matters the most: making things more readable and more usable to more people.

Adaptive Code via C# Agile coding with design patterns and SOLID principles Microsoft Press

This open access book constitutes the research workshops, doctoral symposium and panel summaries presented at the 20th International Conference on Agile Software Development, XP 2019, held in Montreal, QC, Canada, in May 2019. XP is the premier agile software development conference combining research and practice. It is a hybrid forum where agile researchers, academics, practitioners, thought leaders, coaches, and trainers get together to present and discuss their most recent innovations, research results, experiences, concerns, challenges, and trends. Following this history, for both researchers and seasoned practitioners XP 2019 provided an informal environment to network, share, and discover trends in Agile for the next 20 years. Research papers and talks submissions were invited for the three XP 2019 research workshops, namely, agile transformation, autonomous teams, and large scale agile. This book includes 15 related papers. In addition, a summary for each of the four panels at XP 2019 is included. The panels were on security and privacy; the impact of the agile manifesto on culture, education, and software practices; business agility – agile's next frontier; and Agile – the next 20 years.

With the award-winning book *Agile Software Development: Principles, Patterns, and Practices*, Robert C. Martin helped bring Agile principles to tens of thousands of Java and C++ programmers. Now .NET programmers have a definitive guide to agile methods with this completely updated volume from Robert C. Martin and Micah Martin, *Agile Principles, Patterns, and Practices in C#*. This book presents a series of case studies illustrating the fundamentals of Agile development and Agile design, and moves quickly from UML models to real C# code. The introductory chapters lay out the basics of the agile movement, while the later chapters show proven techniques in action. The book includes many source code examples that are also available for download from the authors' Web site. Readers will come away from this book understanding Agile principles, and the fourteen practices of Extreme Programming Spiking, splitting, velocity, and planning iterations and releases Test-driven development, test-first design, and acceptance testing Refactoring with unit testing Pair programming Agile design and design smells The five types of UML diagrams and how to use them effectively Object-oriented package design and design patterns How to put all of it together for a real-world project Whether you are a C# programmer or a Visual Basic or Java programmer learning C#, a software development manager, or a business analyst, *Agile Principles, Patterns, and Practices in C#* is the first book you should read to understand agile software and how it applies to programming in the .NET Framework.

By applying the principles in *Adaptive Code, Second Edition*, you can create code that adapts to new requirements and unforeseen scenarios without significant rework. Gary McLean Hall describes agile best practices, principles, and patterns for designing and writing code that can evolve more quickly and easily, with fewer errors, because it doesn't impede change. This concise, undogmatic book bridges theory and practice, demonstrating its principles and patterns with working C# code examples. Hall helps you: Organize and manage architectural dependencies Leverage best practice patterns -- and avoid anti-patterns Apply SOLID principles: single-responsibility, open/closed, Liskov substitution Manage interface versatility Perform unit testing and refactoring in tandem See how delegation and abstraction impact code adaptability Learn better ways to implement dependency interjection And much more Expanded and updated, this Second Edition adds new coverage of Kanban for BAU, Domain-Driven Design, Hexagonal Architecture, Test-Driven Development, and Test-First methodology. Hall also deepens and updates his

discussions of unit testing, refactoring, and Pure Dependency Injection.

Carefully researched over ten years and eagerly anticipated by the agile community, *Crystal Clear: A Human-Powered Methodology for Small Teams* is a lucid and practical introduction to running a successful agile project in your organization. Each chapter illuminates a different important aspect of orchestrating agile projects. Highlights include Attention to the essential human and communication aspects of successful projects Case studies, examples, principles, strategies, techniques, and guiding properties Samples of work products from real-world projects instead of blank templates and toy problems Top strategies used by software teams that excel in delivering quality code in a timely fashion Detailed introduction to emerging best-practice techniques, such as Blitz Planning, Project 360°, and the essential Reflection Workshop Question-and-answer with the author about how he arrived at these recommendations, including where they fit with CMMI, ISO, RUP, XP, and other methodologies A detailed case study, including an ISO auditor's analysis of the project Perhaps the most important contribution this book offers is the Seven Properties of Successful Projects. The author has studied successful agile projects and identified common traits they share. These properties lead your project to success; conversely, their absence endangers your project.

This book explores the application of agile and lean techniques, originally from the field of software development and manufacturing, to various aspects of education. It covers a broad range of topics, including applying agile teaching and learning techniques in the classroom, incorporating lean thinking in educational workflows, and using team-based approaches to student-centred activities based on agile principles and processes. Demonstrating how agile and lean ideas can concretely be applied to education, the book offers practical guidance on how to apply these ideas in the classroom or lecture hall, as well as new concepts that could spark further research and development.

In the new world of work, agility is a business imperative. From small tech start-ups or large traditional companies, organizations need to be fast, flexible and digitally empowered to succeed. However, too many companies are stuck with siloed, compliance-driven HR processes that work in opposition to the business rather than supporting it. This results in the view that HR is slow and out of touch. However, *Agile HR* shows that this doesn't need to be the case. It is a practical guide written specifically for people professionals on how the HR function can develop agile processes and practices that save time, boost performance and support overall business goals. Covering every aspect of the HR function from people processes, ways of working and HR services to organization design, operating models and HR teams, *Agile HR* is an essential guide for all HR practitioners wanting to make their HR practices agile and drive business performance but don't know where to start. As well as guidance on how to deal with resistance, manage a backlog and deal with constraints, there is also invaluable guidance on how HR can prioritize effectively and assess which activities to pursue, which to develop, which to rework and which to abandon in order to achieve continuous business improvement. Supported by case studies from organizations who have seen the benefits of an agile approach to HR including Sky Betting & Gaming and MUJI, this is critical reading for all HR professionals in organizations of any size needing to adopt fast, flexible and evolving agile approaches to effectively compete in the new world of work.

Water is the basis of all life. Preservation of aquatic ecosystems and protection of water resources thus are among the most important goals of a sustainable development. The quality of water is mainly determined by its constituents, the entirety of the substances dissolved or suspended in water. To assess the water quality on a sound basis requires in-depth knowledge about the occurrence, behavior and fate of these constituents. That explains the importance of hydrochemistry (also referred to as water chemistry or aquatic chemistry) as a scientific discipline that deals with water constituents and their reactions within the natural water cycle and within the cycle of water use. This textbook introduces the elementary basics of hydrochemistry with special focus on reaction equilibria in aquatic systems and their mathematical description. It is designed as an introductory textbook for students of all environment-related courses who are beginning their hydrochemical education. Only minor knowledge in General Chemistry is required to understand the text. The book is also suitable for continuing education. Topics discussed in this textbook include: structure and properties of water, concentration measures and activities, colligative properties, basics of chemical equilibria, gas-water partitioning, acid/base reactions, precipitation/dissolution, calco-carbonic equilibrium, redox reactions, complex formation, and sorption. The text is supplemented by numerous figures and tables. More than 50 examples within the text as well as more than 60 problems to be solved by the reader support the acquiring of knowledge. Complete and detailed solutions to all problems are given in a separate chapter.

This concise book is an effective source for understanding Agile Scrum development; why we use it and how it works. It will explain how work gets done in manageable iterations (sprints) and the team meetings that keep work on track (ceremonies). Also, since risk is a constant threat to any team-based project, managing risk in an Agile Scrum environment is specifically discussed. This book is for: • New Agile Scrum team members. • Team leaders - this book describes the foundation of Agile Scrum, which can save time getting team members on the same page. • Trainer/Educator of Agile Scrum - this book clearly defines Agile Scrum in a structured way so that students can learn how to effectively serve on an Agile team to improve their marketability. If you need to know Agile Scrum, this book will show you how to own it.

This comprehensive, pragmatic tutorial on Agile Development and eXtreme programming, written by one of the founding fathers of Agile Development: Teaches software developers and project managers how to get projects done on time, and on budget using the power of Agile Development; Uses real-world case studies to show how to plan, test, refactor, and pair program using eXtreme programming; Contains a wealth of reusable C++ and Java code; Focuses on solving customer oriented systems problems using UML and Design Patterns.

Introduces a realistic approach to leading, managing, and growing your Agile team or organization. Written for current managers and developers moving into management, Appelo shares insights that are grounded in modern complex systems theory, reflecting the intense complexity of modern software development. Recognizes that today's organizations are living, networked systems; that you can't simply let them run themselves; and that management is primarily about people and relationships. Deepens your understanding of how organizations and Agile teams work, and gives you tools to solve your own problems. Identifies the most valuable elements of Agile management, and helps you improve each of them.

Agile coding with design patterns and SOLID principles As every developer knows, requirements are subject to change. But when you build adaptability into your code, you can respond to change more easily and avoid disruptive rework. Focusing on Agile programming, this book describes the best practices, principles, and patterns that enable you to create flexible, adaptive code--and deliver better business value. Expert guidance to bridge the gap between theory and practice Get grounded in Scrum: artifacts, roles, metrics, phases Organize and manage architectural dependencies Review best practices for patterns and anti-patterns Master SOLID principles: single-responsibility,

open/closed, Liskov substitution Manage the versatility of interfaces for adaptive code Perform unit testing and refactoring in tandem See how delegation and abstraction impact code adaptability Learn best ways to implement dependency interjection Apply what you learn to a pragmatic, agile coding project Get code samples at: <http://github.com/garymclean/AdaptiveCode>

With this ebook, the ALM Rangers share their best practices in managing solution requirements and shipping solutions in an agile environment, an environment where transparency, simplicity, and trust prevail. The ebook is for Agile development teams and their Scrum Masters who want to explore and learn from the authors' "dogfooding" experiences and their continuous adaptation of software requirements management. Product Owners and other stakeholders will also find value in this ebook by learning how they can support their Agile development teams and by gaining an understanding of the constraints of open-source community projects.

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 Practice Guide – First Edition has been developed as a resource to understand, evaluate, and use agile and hybrid agile approaches. This practice guide provides guidance on when, where, and how to apply agile approaches and provides practical tools for practitioners and organizations wanting to increase agility. This practice guide is aligned with other PMI standards, including A Guide to the Project Management Body of Knowledge (PMBOK® Guide) – Sixth Edition, and was developed as the result of collaboration between the Project Management Institute and the Agile Alliance.

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