Growing Object-Oriented Software, Guided by Tests

Steve Freeman

Nat Pryce

Growing Object Oriented Software Guided By Tests

Todd Sedano,Paul Ralph

Growing Object Oriented Software Guided By Tests:

   Growing Object-Oriented Software, Guided by Tests Steve Freeman,Nat Pryce,2009-10-12 Test Driven Development TDD is now an established technique for delivering better software faster TDD is based on a simple idea Write tests for your code before you write the code itself However this simple idea takes skill and judgment to do well Now there s a practical guide to TDD that takes you beyond the basic concepts Drawing on a decade of experience building real world systems two TDD pioneers show how to let tests guide your development and grow software that is coherent reliable and maintainable Steve Freeman and Nat Pryce describe the processes they use the design principles they strive to achieve and some of the tools that help them get the job done Through an extended worked example you ll learn how TDD works at multiple levels using tests to drive the features and the object oriented structure of the code and using Mock Objects to discover and then describe relationships between objects Along the way the book systematically addresses challenges that development teams encounter with TDD from integrating TDD into your processes to testing your most difficult features Coverage includes Implementing TDD effectively getting started and maintaining your momentum throughout the project Creating cleaner more expressive more sustainable code Using tests to stay relentlessly focused on sustaining quality Understanding how TDD Mock Objects and Object Oriented Design come together in the context of a real software development project Using Mock Objects to guide object oriented designs Succeeding where TDD is difficult managing complex test data and testing persistence and concurrency   **Growing Object-Oriented Software, Guided by Tests** Steve,Nat Pryce,2009

   Growing Object-Oriented Software, Guided by Tests ,2009   **Growing Object-oriented Software** Steve Freeman,Nat Pryce,2009   Complete Guide to Test Automation Arnon Axelrod,2018-09-22 Rely on this robust and thorough guide to build and maintain successful test automation As the software industry shifts from traditional waterfall paradigms into more agile ones test automation becomes a highly important tool that allows your development teams to deliver software at an ever increasing pace without compromising quality Even though it may seem trivial to automate the repetitive tester s work using test automation efficiently and properly is not trivial Many test automation endeavors end up in the graveyard of software projects There are many things that affect the value of test automation and also its costs This book aims to cover all of these aspects in great detail so you can make decisions to create the best test automation solution that will not only help your test automation project to succeed but also allow the entire software project to thrive One of the most important details that affects the success of the test automation ishow easy it is to maintain the automated tests Complete Guide to Test Automation provides a detailed hands on guide for writing highly maintainable test code What You ll Learn Know the real value to be expected from test automation Discover the key traits that will make your test automation project succeed Be aware of the different considerations to take into account when planning automated tests vs manual tests Determine who should implement the tests and the implications of this decision Architect the test project and fit it to the architecture of the

tested application Design and implement highly reliable automated tests Begin gaining value from test automation earlier Integrate test automation into the business processes of the development team Leverage test automation to improve your organization s performance and quality even without formal authority Understand how different types of automated tests will fit into your testing strategy including unit testing load and performance testing visual testing and more Who This Book Is For Those involved with software development such as test automation leads QA managers test automation developers and development managers Some parts of the book assume hands on experience in writing code in an object oriented language mainly C or Java although most of the content is also relevant for nonprogrammers **Modern Programming: Object Oriented Programming and Best Practices** Graham Lee,2019-06-28 Discover the untapped features of object oriented programming and use it with other software tools to code fast efficient applications Key FeaturesExplore the complexities of object oriented programming OOP Discover what OOP can do for youLearn to use the key tools and software engineering practices to support your own programming needsBook Description Your experience and knowledge always influence the approach you take and the tools you use to write your programs With a sound understanding of how to approach your goal and what software paradigms to use you can create high performing applications quickly and efficiently In this two part book you ll discover the untapped features of object oriented programming and use it with other software tools to code fast and efficient applications The first part of the book begins with a discussion on how OOP is used today and moves on to analyze the ideas and problems that OOP doesn t address It continues by deconstructing the complexity of OOP showing you its fundamentally simple core You ll see that by using the distinctive elements of OOP you can learn to build your applications more easily The next part of this book talks about acquiring the skills to become a better programmer You ll get an overview of how various tools such as version control and build management help make your life easier This book also discusses the pros and cons of other programming paradigms such as aspect oriented programming and functional programming and helps to select the correct approach for your projects It ends by talking about the philosophy behind designing software and what it means to be a good developer By the end of this two part book you will have learned that OOP is not always complex and you will know how you can evolve into a better programmer by learning about ethics teamwork and documentation What you will learnUntangle the complexity of object oriented programming by breaking it down to its essential building blocksRealize the full potential of OOP to design efficient maintainable programsUtilize coding best practices including TDD pair programming and code reviews to improve your workUse tools such as source control and IDEs to work more efficientlyLearn how to most productively work with other developersBuild your own software development philosophyWho this book is for This book is ideal for programmers who want to understand the philosophy behind creating software and what it means to be good at designing software Programmers who want to deconstruct the OOP paradigm and see how it can be reconstructed in a clear straightforward way will also find this book useful To understand the ideas expressed in this book you must be an

experienced programmer who wants to evolve their practice   Continuous Deployment Valentina Servile,2024-07-25 Methods of delivering software are constantly evolving in order to increase speed to market without sacrificing reliability and stability Mastering development end to end from version control to production and building production ready code is now more important than ever Continuous deployment takes it one step further This method for delivering software automates the final step to production and enables faster feedback and safer releases Based on years of work with medium to large organizations at Thoughtworks author Valentina Servile explains how to perform safe and reliable deployments with no manual gate to production You ll learn a framework to perform incremental safe releases during everyday development work structured exclusively around the challenges of continuous deployment in nontrivial distributed systems Complete with interviews and case studies from fellow industry professionals Close the feedback loop and leverage the production environment to manage your end to end development lifecycle efficiently This book helps you Take observability performance test automation and security into account when splitting work into increments Create a daily development plan that takes immediate deployments to production into account Deploy work in progress to production incrementally without causing regressions Use patterns to refactor live functionality and alter persistence layers Test and release features in production using different feature toggle configurations   **Building Microservices** Sam Newman,2021-07-24 Distributed systems have become more fine grained as organizations shift from code heavy monolithic applications to smaller self contained microservices But developing these systems brings its own set of problems With lots of examples and practical advice this expanded second edition takes a holistic view of the topics system architects and administrators must consider when building managing and evolving microservices architectures Author Sam Newman provides you with a firm grounding in the concepts while diving into the latest solutions for modeling integrating testing deploying and monitoring your own autonomous services Through real world examples you ll learn how organizations worldwide are getting the most out of these architectures Microservices technologies are moving quickly This book brings you up to speed Get new information on user interfaces container orchestration and serverless Use microservices to align system design with your organization s goals Explore options for integrating a service with the rest of your system Take an incremental approach when splitting monolithic codebases Deploy individual microservices through continuous integration Examine the complexities of testing and monitoring distributed services Manage security with expanded content around user to service and service to service models Understand the challenges of scaling microservices architectures   *Agile Technical Practices Distilled* Pedro M. Santos,Marco Consolaro,Alessandro Di Gioia,2019-06-28 Delve deep into the various technical practices principles and values of Agile Key FeaturesDiscover the essence of Agile software development and the key principles of software designExplore the fundamental practices of Agile working including test driven development TDD refactoring pair programming and continuous integrationLearn and apply the four elements of simple designBook Description The number of popular technical

practices has grown exponentially in the last few years Learning the common fundamental software development practices can help you become a better programmer This book uses the term Agile as a wide umbrella and covers Agile principles and practices as well as most methodologies associated with it You ll begin by discovering how driver navigator chess clock and other techniques used in the pair programming approach introduce discipline while writing code You ll then learn to safely change the design of your code using refactoring While learning these techniques you ll also explore various best practices to write efficient tests The concluding chapters of the book delve deep into the SOLID principles the five design principles that you can use to make your software more understandable flexible and maintainable By the end of the book you will have discovered new ideas for improving your software design skills the relationship within your team and the way your business works What you will learnLearn the red green refactor cycle of classic TDD and practice the best habits such as the rule of 3 triangulation object calisthenics and moreRefactor using parallel change and improve legacy code with characterization tests approval tests and Golden MasterUse code smells as feedback to improve your designLearn the double cycle of ATDD and the outside in mindset using mocks and stubs correctly in your testsUnderstand how Coupling Cohesion Connascence SOLID principles and code smells are all relatedImprove the understanding of your business domain using BDD and other principles for doing the right thing not only the thing rightWho this book is for This book is designed for software developers looking to improve their technical practices Software coaches may also find it helpful as a teaching reference manual This is not a beginner s book on how to program You must be comfortable with at least one programming language and must be able to write unit tests using any unit testing framework **Code That Fits in Your Head** Mark Seemann,2021-11-02 How to Reduce Code Complexity and Develop Software More Sustainably Mark Seemann is well known for explaining complex concepts clearly and thoroughly In this book he condenses his wide ranging software development experience into a set of practical pragmatic techniques for writing sustainable and human friendly code This book will be a must read for every programmer Scott Wlaschin author of Domain Modeling Made Functional Code That Fits in Your Head offers indispensable practical advice for writing code at a sustainable pace and controlling the complexity that causes projects to spin out of control Reflecting decades of experience helping software teams succeed Mark Seemann guides you from zero no code to deployed features and shows how to maintain a good cruising speed as you add functionality address cross cutting concerns troubleshoot and optimize You ll find valuable ideas practices and processes for key issues ranging from checklists to teamwork encapsulation to decomposition API design to unit testing Seemann illuminates his insights with code examples drawn from a complete sample project Written in C they re designed to be clear and useful to anyone who uses any object oriented language including Java C and Python To facilitate deeper exploration all code and extensive commit messages are available for download Choose mindsets and processes that work and escape bad metaphors that don t Use checklists to liberate yourself improving outcomes with the skills you already have Get past analysis paralysis by creating and deploying a

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experiments and produce market leading software   *Software Quality Assurance* Ivan Mistrik,Richard M Soley,Nour Ali,John Grundy,Bedir Tekinerdogan,2015-10-12 Software Quality Assurance in Large Scale and Complex Software intensive Systems presents novel and high quality research related approaches that relate the quality of software architecture to system requirements system architecture and enterprise architecture or software testing Modern software has become complex and adaptable due to the emergence of globalization and new software technologies devices and networks These changes challenge both traditional software quality assurance techniques and software engineers to ensure software quality when building today and tomorrow s adaptive context sensitive and highly diverse applications This edited volume presents state of the art techniques methodologies tools best practices and guidelines for software quality assurance and offers guidance for future software engineering research and practice Each contributed chapter considers the practical application of the topic through case studies experiments empirical validation or systematic comparisons with other approaches already in practice Topics of interest include but are not limited to quality attributes of system software architectures aligning enterprise system and software architecture from the point of view of total quality design decisions and their influence on the quality of system software architecture methods and processes for evaluating architecture quality quality assessment of legacy systems and third party applications lessons learned and empirical validation of theories and frameworks on architectural quality empirical validation and testing for assessing architecture quality Focused on quality assurance at all levels of software design and development Covers domain specific software quality assurance issues e g for cloud mobile security context sensitive mash up and autonomic systems Explains likely trade offs from design decisions in the context of complex software system engineering and quality assurance Includes practical case studies of software quality assurance for complex adaptive and context critical systems   *Simple Object-Oriented Design* Mauricio Aniche,2024-06-04 Write object oriented code that s manageable maintainable and future proof Keeping your object oriented designs simple demands a creative approach and that s exactly what you ll find in Simple Object Oriented Design This book is full of patterns and principles for reducing complexity each one proven in author Mauricio Aniche s 20 year career in software development You ll learn how to tackle code s natural growth in complexity and adopt a good enough approach that means it s easy to refactor when requirements change You ll discover insightful principles for Making code readable and documented Improving consistency and encapsulation Managing dependencies Designing abstractions Handling infrastructure Effective modularization Learn what constitutes both good and bad object oriented software design discover how to make better trade offs in design decisions and when to embrace complexity over simpler data structures With this book as your vital reference you ll be ready to write code that will last the test of time without slowing feature delivery to a crawl About the technology Even a simple object oriented application can quickly become complex as it evolves Each new class method or feature means more state and abstractions to manage which in turn increases complexity maintenance and time spent detangling legacy

code It takes effort and skill to keep your codebase simple This book shows you how About the book Simple Object Oriented Design Create clean maintainable applications presents practical design principles you can use to keep an object oriented codebase simple as it grows and changes Written as a collection of practical techniques you can apply in any OO language it offers tips for concise code managing dependencies and modules and designing flexible abstractions Illuminating figures real world examples and insightful exercises make each principle stick What s inside Writing simple understandable classes Flexible abstractions to extend your designs Reducing the impact of coupling About the reader Readers should be familiar with an object oriented language like Java C or Python About the author Maur cio Aniche is a software engineer with 20 years of experience He s also an Assistant Professor in Software Engineering at Delft University of Technology and the author of Effective Software Testing Table of Contents 1 It s all about managing complexity 2 Making code small 3 Keeping objects consistent 4 Managing dependencies 5 Designing good abstractions 6 Handling external dependencies and infrastructure 7 Achieving modularization 8 Being pragmatic **Introduction to Software Engineering** Ronald J. Leach,2018-09-03 Practical Guidance on the Efficient Development of High Quality Software Introduction to Software Engineering Second Edition equips students with the fundamentals to prepare them for satisfying careers as software engineers regardless of future changes in the field even if the changes are unpredictable or disruptive in nature Retaining the same organization as its predecessor this second edition adds considerable material on open source and agile development models The text helps students understand software development techniques and processes at a reasonably sophisticated level Students acquire practical experience through team software projects Throughout much of the book a relatively large project is used to teach about the requirements design and coding of software In addition a continuing case study of an agile software development project offers a complete picture of how a successful agile project can work The book covers each major phase of the software development life cycle from developing software requirements to software maintenance It also discusses project management and explains how to read software engineering literature Three appendices describe software patents command line arguments and flowcharts _Sustainable Dual-Track Development_ Todd Sedano,Paul Ralph,2025-09-19 Every decade or so the software development community reinvents itself to address the dominant problems of the day Agile methods reacted against slow bureaucratic documentation driven development The next big shift reacts against unsustainable development practices This book advances dual track development as a unifying framework for the best way of designing great products user centered design the best way of delivering software efficiently agile methods and strategies for balancing present and future needs sustainable development This book does not just recommend practices It explains how to implement practices and the surprising science behind the practices in an approachable sometimes cheeky style You won t find a Dual track Master telling you that you must do it exactly this way otherwise you re a sellout Rather this book describes a set of sociotechnical tools and gives advice for adapting these tools to

your unique context Welcome to the future of software engineering that you actually want one that embraces clean code hyper productive programming belongingness empathy environmental sustainability economic feasibility pro social impact and organizational justice Todd Sedano PhD Carnegie Mellon University enjoys creating inclusive engineering environments empowering others to excel and coaching others by listening and reframing from a growth mindset He has more than 25 years of experience as a software engineer and engineering manager at leading organizations including NASA JPL Pivotal Labs VMware Enjoy Gusto and ID me Todd has published scholarly articles on software development waste agile teams product backlogs and dual track development His academic research became the foundation for this book His current hobbies include riding roller coasters improvisational theater and American Kenpo D Paul Ralph PhD British Columbia is an award winning scientist author consultant professor of Software Engineering and director of the Dalhousie Software Engineering Lab His cutting edge research at the intersection of software engineering human computer interaction and project management investigates how to improve the environmental social economic and technical sustainability of software development Paul s previous research has been published in over 100 peer review articles and has been used by leading technology companies including Adobe Amazon AT T Canon IBM Google HP Microsoft Netflix Oracle PayPal Samsung Salesforce VMware Yahoo and Walmart **Mockito Cookbook** Marcin Grzejszczak,2014-06-24 This is a focused guide with lots of practical recipes with presentations of business issues and presentation of the whole test of the system This book shows the use of Mockito s popular unit testing frameworks such as JUnit PowerMock TestNG and so on If you are a software developer with no testing experience especially with Mockito and you want to start using Mockito in the most efficient way then this book is for you This book assumes that you have a good knowledge level and understanding of Java based unit testing frameworks **Testing Software and Systems** Valentina Casola,Alessandra De Benedictis,Massimiliano Rak,2020-12-02 This book constitutes the refereed proceedings of the 32nd IFIP WG 6 1 International Conference on Testing Software and Systems ICTSS 2020 which was supposed to be held in Naples Italy in December 2020 but was held virtually due to the COVID 19 pandemic The 17 regular papers and 4 short papers presented were carefully reviewed and selected from 43 submissions ICTSS is a series of international conferences addressing the conceptual theoretic and practical problems of testing software systems including communication protocols services distributed platforms middleware embedded and cyber physical systems and security infrastructures The papers are organized in the topical sections named model based testing security testing testing methods and applications testing methods and automation and short contributions

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