Explore It Elisabeth Hendrickson

Written in an engaging, easy-to-follow style, this practical guide will teach you to create test suites and automated acceptance Tests with the Robot Framework.If you are an automation engineer, QA engineer, developer or tester who is looking to get started with Robot Framework, as well as find a standardized testing solution, this book is ideal for you. No prior knowledge of Robot Framework or acceptance testing is required, although a basic knowledge of Python is required for few sections of the book.

Explore It!Reduce Risk and Increase Confidence with Exploratory TestingPragmatic Bookshelf

This book explains the steps necessary to write manual accessibility tests and convert them into automated selenium-based accessibility tests to run part of regression test packs. If you are searching a topic on Google or buying a product online, web accessibility is a basic need. If a web page is easier to access when using a mouse and complex to navigate with keyboard, this is extremely difficult for users with disabilities. Web Accessibility Testing is a most important testing practice for customers facing web applications. This book explains the steps necessary to write manual accessibility tests and convert them into automated selenium-based accessibility tests to run part of regression test

packs. WCAG and Section 508 guidelines are considered across the book while explaining the test design steps. Software testers with accessibility testing knowledge are in high demand at large organizations since the need to do manual and automated accessibility testing is growing rapidly. This book illustrates the types of accessibility testing with test cases and code examples.

The relationships between religion, spirituality, health, biomedical institutions, complementary, and alternative healing systems are widely discussed today. While many of these debates revolve around the biomedical legitimacy of religious modes of healing, the market for them continues to grow. The Routledge Handbook of Religion, Medicine, and Health is an outstanding reference source to the key topics, problems, and debates in this exciting subject and is the first collection of its kind. Comprising over thirty-five chapters by a team of international contributors, the Handbook is divided into five parts: Healing practices with religious roots and frames Religious actors in and around the medical field Organizing infrastructures of religion and medicine: pluralism and competition Boundary-making between religion and medicine Religion and epidemics Within these sections, central issues, debates and problems are examined, including health and healing, religiosity, spirituality, biomedicine, medicalization, complementary

medicine, medical therapy, efficacy, agency, and the nexus of body, mind, and spirit. The Routledge Handbook of Religion, Medicine, and Health is essential reading for students and researchers in religious studies. The Handbook will also be very useful for those in related fields, such as sociology, anthropology, and medicine.

Mit explorativem Testen können unerwartete Ereignisse, schwerwiegende Fehler und andere Risiken in Software aufgedeckt werden. Bei dieser Technik werden kleine, schnelle Analysen durchgeführt. Dabei wird jeweils auf den Erfahrungen der letzten experimentellen Analyse aufgesetzt. Als Softwareentwickler oder Tester schärfen Sie mit explorativem Testen Ihre Fähigkeit, Software zu analysieren. Mithilfe dieses Buchs lernen Sie, spontane experimentelle Tests durchzuführen, Ihre Beobachtungsgabe zu schärfen und dabei Ihren Arbeitsaufwand zu bündeln. Der Inhalt des Buches ist in drei Teile gegliedert: Teil 1 behandelt die Grundlagen des explorativen Testens. Sie lernen, anhand von Testcharter Ihre Analysen zu begleiten und die tatsächlichen Vorgänge zu verstehen, interessante Analysevarianten herauszufinden und das zu erwartende Verhalten der Software zu bestimmen. Teil 2 beschreibt, wie Sie Software untersuchen, indem Sie Interaktionen, Sequenzen, Daten, Zeitabläufe und Konfigurationen ändern. Auf diesem Weg erfahren Sie, wozu

Zustandsmodelle, Datenmodelle und Kontextdiagramme bei der Analyse nützlich sein können. Teil 3 überträgt die vorgestellten Techniken auf ein Softwareprojekt. Sie können Ihre Fähigkeiten und die Techniken in den unterschiedlichen Kontexten (z.B. Embedded-Systeme, Webanwendungen, Desktopanwendungen) anwenden und sogar zu Beginn eines Entwicklungszyklus einsetzen. Dieses Buch bietet eine Fülle konkreter und praktischer Tipps, wie Software analysiert werden kann, um ihre Möglichkeiten, Grenzen und Risiken herauszufinden. This book is for everyone who needs to test the web. As a tester, you'll automate your tests. As a developer, you'll build more robust solutions. And as a team, you'll gain a vocabulary and a means to coordinate how to write and organize automated tests for the web. Follow the testing pyramid and level up your skills in user interface testing, integration testing, and unit testing. Your new skills will free you up to do other, more important things while letting the computer do the one thing it's really good at: quickly running thousands of repetitive tasks. This book shows you how to do three things: How to write really good automated tests for the web. How to pick and choose the right ones. * How to explain, coordinate, and share your efforts with others. If you're a traditional software tester who has never written an automated test before, this is the

perfect book for getting started. Together, we'll go through everything you'll need to start writing your own tests. If you're a developer, but haven't thought much about testing, this book will show you how to move fast without breaking stuff. You'll test RESTful web services and legacy systems, and see how to organize your tests. And if you're a team lead, this is the Rosetta Stone you've been looking for. This book will help you bridge that testing gap between your developers and your testers by giving your team a model to discuss automated testing, and most importantly, to coordinate their efforts. The Way of the Web Tester is packed with cartoons, graphics, best practices, war stories, plenty of humor, and hands-on tutorial exercises that will get you doing the right things, the right way.

Learn the pytest way to write simple tests which can also be used to write complex tests Key Features Become proficient with pytest from day one by solving real-world testing problems Use pytest to write tests more efficiently Scale from simple to complex and functional testing Book Description Python's standard unittest module is based on the xUnit family of frameworks, which has its origins in Smalltalk and Java, and tends to be verbose to use and not easily extensible.The pytest framework on the other hand is very simple to get started, but powerful enough to cover complex testing integration scenarios, being considered by many the true

Pythonic approach to testing in Python. In this book, you will learn how to get started right away and get the most out of pytest in your daily workflow, exploring powerful mechanisms and plugins to facilitate many common testing tasks. You will also see how to use pytest in existing unittest-based test suites and will learn some tricks to make the jump to a pytest-style test suite quickly and easily. What you will learn Write and run simple and complex tests Organize tests in fles and directories Find out how to be more productive on the command line Markers and how to skip, xfail and parametrize tests Explore fxtures and techniques to use them effectively, such as tmpdir, pytestconfg, and monkeypatch Convert unittest suites to pytest using little-known techniques Use third-party plugins Who this book is for This book is for Python programmers that want to learn more about testing. This book is also for QA testers, and those who already benefit from programming with tests daily but want to improve their existing testing tools.

Explore Google's open source web automation library Puppeteer to perform tasks such as end-to-end testing, performance monitoring, and task automation with ease. Using real-world use cases, this book will help you learn the capabilities and best practices of Puppeteer to take your automation code to the next level.

Uncover surprises, risks, and potentially serious bugs with

exploratory testing. Rather than designing all tests in advance, explorers design and execute small, rapid experiments, using what they learned from the last little experiment to inform the next. Learn essential skills of a master explorer, including how to analyze software to discover key points of vulnerability, how to design experiments on the fly, how to hone your observation skills, and how to focus your efforts. Software is full of surprises. No matter how careful or skilled you are, when you create software it can behave differently than you intended. Exploratory testing mitigates those risks. Part 1 introduces the core, essential skills of a master explorer. You'll learn to craft charters to guide your exploration, to observe what's really happening (hint: it's harder than it sounds), to identify interesting variations, and to determine what expected behavior should be when exercising software in unexpected ways. Part 2 builds on that foundation. You'll learn how to explore by varying interactions, sequences, data, timing, and configurations. Along the way you'll see how to incorporate analysis techniques like state modeling, data modeling, and defining context diagrams into your explorer's arsenal. Part 3 brings the techniques back into the context of a software project. You'll apply the skills and techniques in a variety of contexts and integrate exploration into the development cycle from the very beginning. You can apply the techniques in this book to any kind of software. Whether you work on embedded systems, Web applications, desktop applications, APIs, or something else, you'll find this book contains a wealth of concrete and practical advice about exploring your software to discover its capabilities, limitations, and risks. Historical fiction set in France during WW II. An addictive look at the French Resistance through the eyes of two members who become lovers. The novel captivates from the first and is a beautifully written must-read.

Successful software depends as much on scrupulous testing as it does on solid architecture or elegant code. But testing is not a routine process, it's a constant exploration of methods and an evolution of good ideas. Beautiful Testing offers 23 essays from 27 leading testers and developers that illustrate the qualities and techniques that make testing an art. Through personal anecdotes, you'll learn how each of these professionals developed beautiful ways of testing a wide range of products -- valuable knowledge that you can apply to your own projects. Here's a sample of what you'll find inside: Microsoft's Alan Page knows a lot about large-scale test automation, and shares some of his secrets on how to make it beautiful Scott Barber explains why performance testing needs to be a collaborative process, rather than simply an exercise in measuring speed Karen Johnson describes how her professional experience intersected her personal life while testing medical software Rex Black reveals how satisfying stakeholders for 25 years is a beautiful thing Mathematician John D. Cook applies a classic definition of beauty, based on complexity and unity, to testing random number generators All author royalties will be donated to the Nothing But Nets campaign to save lives by preventing malaria, a disease that kills millions of children in Africa each year. This book includes contributions from: Adam Goucher Linda Wilkinson Rex Black Martin Schröder Clint Talbert Scott Barber Kamran Khan Emily Chen Brian Nitz Remko Tronçon Alan Page Neal Norwitz Michelle Levesque Jeffrey Yasskin John D. Cook Murali Nandigama Karen N. Johnson Chris McMahon Jennitta Andrea Lisa Crispin Matt Heusser Andreas Zeller David Schuler Tomasz Kojm Adam Christian Tim Riley Isaac Clerencia

Today's programmers don't develop software systems from scratch. instead, they spend their time fixing, extending, modifying, and enhancing existing software. Legacy systems

often turn into an unwieldy mess that becomes increasingly difficult to modify, and with architecture that continually accumulates technical debt. Carola Lilienthal has analyzed more than 300 software systems written in Java, C#, C++, PHP, ABAP, and TypeScript and, together with her teams, has successfully refactored them. This book condenses her experience with monolithic systems, architectural and design patterns, layered architectures, domain-driven design, and microservices. With more than 200 color images from real-world systems, good and sub-optimal sample solutions are presented in a comprehensible and thorough way, while recommendations and suggestions based on practical projects allow the reader to directly apply the author's knowledge to their daily work. "Throughout the book, Dr. Lilienthal has provided sound advice on diagnosing, understanding, disentangling, and ultimately preventing the issues that make software systems brittle and subject to breakage. In addition to the technical examples that you'd expect in a book on software architecture, she takes the time to dive into the behavioral and human aspects that impact sustainability and, in my experience, are inextricably linked to the health of a codebase. She also expertly zooms out, exploring architecture concepts such as domains and layers, and then zooms in to the class level where your typical developer works day-to-day. This holistic approach is crucial for implementing long-lasting change." From the Foreword of Andrea Goulet CEO, Corgibytes, Founder, Legacy Code Rocks

A successful digital transformation must start with a conversational transformation. Today, software organizations are transforming the way work gets done through practices like Agile, Lean, and DevOps. But as commonly implemented as these methods are, many transformations still fail, largely because the organization misses a critical step: transforming

their culture and the way people communicate. Agile Conversations brings a practical, step-by-step guide to using the human power of conversation to build effective, high-performing teams to achieve truly Agile results. Consultants Douglas Squirrel and Jeffrey Fredrick show readers how to utilize the Five Conversations to help teams build trust, alleviate fear, answer the “whys,” define commitments, and hold everyone accountable.These five conversations give teams everything they need to reach peak performance, and they are exactly what’s missing from too many teams today. Stop focusing on processes and practices that leave your organization stuck with culture-less rituals. Instead, unleash the unique human power of conversation.

From a National Book Critics Circle Award winner, a brilliantly conceived and illuminating reconsideration of a key period in the life of Ernest Hemingway that will forever change the way he is perceived and understood. Focusing on the years 1934 to 1961—from Hemingway’s pinnacle as the reigning monarch of American letters until his suicide—Paul Hendrickson traces the writer’s exultations and despair around the one constant in his life during this time: his beloved boat, Pilar. We follow him from Key West to Paris, to New York, Africa, Cuba, and finally Idaho, as he wrestles with his best angels and worst demons. Whenever he could, he returned to his beloved fishing cruiser, to exult in the sea, to fight the biggest fish he could find, to drink, to entertain celebrities and friends and seduce women, to be with his children. But as he began to succumb to the diseases of fame, we see that Pilar was also where he cursed his critics, saw marriages and friendships dissolve, and tried, in vain, to escape his increasingly diminished capacities. Generally thought of as a great writer and an unappealing human being, Hemingway emerges here in a far more benevolent light. Drawing on previously unpublished material, including interviews with Hemingway’s

sons, Hendrickson shows that for all the writer's boorishness, depression, and alcoholism, and despite his choleric anger, he was capable of remarkable generosity—to struggling writers, to lost souls, to the dying son of a friend. We see most poignantly his relationship with his youngest son, Gigi, a doctor who lived his adult life mostly as a cross-dresser, and died squalidly and alone in a Miami women's jail. He was the son Hemingway forsook the least, yet the one who disappointed him the most, as Gigi acted out for nearly his whole life so many of the tortured, ambiguous tensions his father felt. Hendrickson's bold and beautiful book strikingly makes the case that both men were braver than we know, struggling all their lives against the complicated, powerful emotions swirling around them. As Hendrickson writes, "Amid so much ruin, still the beauty." Hemingway's Boat is both stunningly original and deeply gripping, an invaluable contribution to our understanding of this great American writer, published fifty years after his death.

Change is difficult but essential—Esther Derby offers seven guidelines for change by attraction, an approach that draws people into the process so that instead of resisting change, they embrace it. Even if you don't have change management in your job description, your job involves change. Change is a given as modern organizations respond to market and technology advances, make improvements, and evolve practices to meet new challenges. This is not a simple process on any level. Often, there is no indisputable right answer, and responding requires trial and error, learning and unlearning. Whatever you choose to do, it will interact with existing policies and structures in unpredictable ways. And there is, quite simply, a natural human resistance to being told to change. Rather than creating more rigorous preconceived plans or imposing change by decree, agile software developer turned organizational change expert

Esther Derby offers change by attraction, an approach that is adaptive and responsive and engages people in learning, evolving, and owning the new way. She presents a set of seven heuristics—guides to problem-solving—that empower people to achieve outcomes within broad constraints using their personal ingenuity and creativity. When you work by attraction, you give space and support for people to feel the loss that comes with change and help them see what is valuable about the future you propose. Resistance fades because people feel there is nothing to push against—only something they want to move toward. Derby's approach clears the fog to provide a new way forward that honors people and creates safety for change.

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.

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.

As Elsie Dinsmore grows up and becomes a young woman, her family also experiences major changes when her father remarries.

Decades of software testing experience condensed into the most important lessons learned. The world's leading software testing experts lend you their wisdom and years of experience to help you avoid the most common mistakes in testing software. Each lesson is an assertion related to software testing, followed by an explanation or example that shows

you the how, when, and why of the testing lesson. More than just tips, tricks, and pitfalls to avoid, Lessons Learned in Software Testing speeds you through the critical testing phase of the software development project without the extensive trial and error it normally takes to do so. The ultimate resource for software testers and developers at every level of expertise, this guidebook features: * Over 200 lessons gleaned from over 30 years of combined testing experience * Tips, tricks, and common pitfalls to avoid by simply reading the book rather than finding out the hard way * Lessons for all key topic areas, including test design, test management, testing strategies, and bug reporting * Explanations and examples of each testing trouble spot help illustrate each lesson's assertion

NEW YORK TIMES BESTSELLER OPRAH'S BOOK CLUB PICK The unique and deeply moving saga of four generations of African-American women whose journey from slavery to freedom begins on a Creole plantation in Louisiana. Beginning with her great-great-great-great grandmother, a slave owned by a Creole family, Lalita Tademy chronicles four generations of strong, determined black women as they battle injustice to unite their family and forge success on their own terms. They are women whose lives begin in slavery, who weather the Civil War, and who grapple with contradictions of emancipation, Jim Crow, and the pre-Civil Rights South. As she peels back layers of racial and cultural attitudes, Tademy paints a remarkable picture of rural Louisiana and the resilient spirit of one unforgettable family. There is Elisabeth, who bears both a proud legacy and the yoke of bondage... her youngest daughter, Suzette, who is the first to discover the promise-and heartbreak-of freedom... Suzette's strong-willed daughter Philomene, who uses a determination born of tragedy to reunite her family and gain unheard-of economic independence... and Emily,

Philomene's spirited daughter, who fights to secure her children's just due and preserve their dignity and future. Meticulously researched and beautifully written, Cane River presents a slice of American history never before seen in such piercing and personal detail.

This book will teach you how to test computer software under real-world conditions. The authors have all been test managers and software development managers at well-known Silicon Valley software companies. Successful consumer software companies have learned how to produce high-quality products under tight time and budget constraints. The book explains the testing side of that success. Who this book is for: * Testers and Test Managers * Project Managers-Understand the timeline, depth of investigation, and quality of communication to hold testers accountable for. * Programmers-Gain insight into the sources of errors in your code, understand what tests your work will have to pass, and why testers do the things they do. * Students-Train for an entry-level position in software development. What you will learn: * How to find important bugs quickly * How to describe software errors clearly * How to create a testing plan with a minimum of paperwork * How to design and use a bug-tracking system * Where testing fits in the product development process * How to test products that will be translated into other languages * How to test for compatibility with devices, such as printers * What laws apply to software quality

2012 Jolt Award finalist! Pioneering the Future of Software Test Do you need to get it right, too? Then, learn from Google. Legendary testing expert James Whittaker, until recently a Google testing leader, and two top Google experts reveal exactly how Google tests software, offering brand-new best practices you can use even if you’re not quite Google’s size…yet! Breakthrough Techniques You Can Actually Use

Discover 100% practical, amazingly scalable techniques for analyzing risk and planning tests…thinking like real users…implementing exploratory, black box, white box, and acceptance testing…getting usable feedback…tracking issues…choosing and creating tools…testing “Docs & Mocks,” interfaces, classes, modules, libraries, binaries, services, and infrastructure…reviewing code and refactoring…using test hooks, presubmit scripts, queues, continuous builds, and more. With these techniques, you can transform testing from a bottleneck into an accelerator–and make your whole organization more productive!

A unique book that consists entirely of test automation case studies from a variety of domains - from the top names in the field * *Proven advice to empower development organizations to save time by mirroring others' experiences and save money by avoiding others' mistakes. *Insightful case studies from a wide variety of domains, including aerospace, pharmaceuticals, insurance, technology, and telecommunications. *Focuses on the basic issues, rather then technology trends, to give the book a long shelf life. The practice of test automation is becoming more and more popular, but many organizations are not yet experiencing success with it. This book unveils the secrets of how automation has been made to work in reality. The knowledge gained by reading this book can save months or years of effort in automating software testing by helping organizations avoid expensive mistakes and take advantage of proven ideas. By its nature, this book shows the current state of software test automation practice. The authors aim to keep the contributions focused on those things that are more universal (e.g. people issues, return on investment, etc.) and to minimize detailed technical content where this does not impede the process of learning valuable lessons, in order to give the book as long a shelf life as possible. Software

practitioners always enjoy reading about what happened to others. For example, at conferences, case study presentations are usually very well attended. The authors/editors have gathered together a collection of experiences from a cross-section of industries and countries, both success stories and failures, in both agile and traditional development. In addition to the case studies, the authors/editors comment on issues raised in these stories, and also include a chapter summarizing good practices and common pitfalls.

Janet Gregory and Lisa Crispin pioneered the agile testing discipline with their previous work, Agile Testing. Now, in More Agile Testing, they reflect on all they've learned since. They address crucial emerging issues, share evolved agile practices, and cover key issues agile testers have asked to learn more about. Packed with new examples from real teams, this insightful guide offers detailed information about adapting agile testing for your environment; learning from experience and continually improving your test processes; scaling agile testing across teams; and overcoming the pitfalls of automated testing. You'll find brand-new coverage of agile testing for the enterprise, distributed teams, mobile/embedded systems, regulated environments, data warehouse/BI systems, and DevOps practices. You'll come away understanding • How to clarify testing activities within the team • Ways to collaborate with business experts to identify valuable features and deliver the right capabilities • How to design automated tests for superior reliability and easier maintenance • How agile team members can improve and expand their testing skills • How to plan “just enough,” balancing small increments with larger feature sets and the entire system • How to use testing to identify and mitigate risks associated with your current agile processes and to prevent defects • How to address challenges within your

product or organizational context • How to perform exploratory testing using “personas” and “tours” • Exploratory testing approaches that engage the whole team, using test charters with session- and thread-based techniques • How to bring new agile testers up to speed quickly–without overwhelming them Janet Gregory is founder of DragonFire Inc., an agile quality process consultancy and training firm. Her passion is helping teams build quality systems. For almost fifteen years, she has worked as a coach and tester, introducing agile practices into companies of all sizes and helping users and testers understand their agile roles. She is a frequent speaker at agile and testing software conferences, and is a major contributor to the agile testing community. Lisa Crispin, an experienced agile testing practitioner and coach, regularly leads conference workshops on agile testing and contributes frequently to agile software publications. She enjoys collaborating as part of an awesome agile team to produce quality software. Since 1982, she has worked in a variety of roles on software teams, in a wide range of industries. She joined her first agile team in 2000 and continually learns from other teams and practitioners.

The First Complete Guide to Mobile App Testing and Quality Assurance: Start-to-Finish Testing Solutions for Both Android and iOS Today, mobile apps must meet rigorous standards of reliability, usability, security, and performance. However, many mobile developers have limited testing experience, and mobile platforms raise new challenges even for long-time testers. Now, Hands-On Mobile App Testing provides the solution: an end-to-end blueprint for thoroughly testing any iOS or Android mobile app. Reflecting his extensive real-life experience, Daniel

Knott offers practical guidance on everything from mobile test planning to automation. He provides expert insights on mobile-centric issues, such as testing sensor inputs, battery usage, and hybrid apps, as well as advice on coping with device and platform fragmentation, and more. If you want top-quality apps as much as your users do, this guide will help you deliver them. You'll find it invaluable–whether you're part of a large development team or you are the team. Learn how to Establish your optimal mobile test and launch strategy Create tests that reflect your customers, data networks, devices, and business models Choose and implement the best Android and iOS testing tools Automate testing while ensuring comprehensive coverage Master both functional and nonfunctional approaches to testing Address mobile's rapid release cycles Test on emulators, simulators, and actual devices Test native, hybrid, and Web mobile apps Gain value from crowd and cloud testing (and understand their limitations) Test database access and local storage Drive value from testing throughout your app lifecycle Start testing wearables, connected homes/cars, and Internet of Things devices

With Acceptance Test-Driven Development (ATDD), business customers, testers, and developers can collaborate to produce testable requirements that help them build higher quality software more rapidly.

However, ATDD is still widely misunderstood by many practitioners. ATDD by Example is the first practical, entry-level, hands-on guide to implementing and successfully applying it. ATDD pioneer Markus Gärtner walks readers step by step through deriving the right systems from business users, and then implementing fully automated, functional tests that accurately reflect business requirements, are intelligible to stakeholders, and promote more effective development. Through two end-to-end case studies, Gärtner demonstrates how ATDD can be applied using diverse frameworks and languages. Each case study is accompanied by an extensive set of artifacts, including test automation classes, step definitions, and full sample implementations. These realistic examples illuminate ATDD's fundamental principles, show how ATDD fits into the broader development process, highlight tips from Gärtner's extensive experience, and identify crucial pitfalls to avoid. Readers will learn to Master the thought processes associated with successful ATDD implementation Use ATDD with Cucumber to describe software in ways businesspeople can understand Test web pages using ATDD tools Bring ATDD to Java with the FitNesse wiki-based acceptance test framework Use examples more effectively in Behavior-Driven Development (BDD) Specify software collaboratively through innovative workshops Implement more user-friendly and

collaborative test automation Test more cleanly, listen to test results, and refactor tests for greater value If you're a tester, analyst, developer, or project manager, this book offers a concrete foundation for achieving real benefits with ATDD now–and it will help you reap even more value as you gain experience.

This book presents the key test design techniques, in line with ISTQB, and explains the why and when of using them, with practical examples and code snippets. How and why the techniques can be combined is covered, as are automated test design methods. Tips and exercises are included throughout the book.

Get past the myths of testing in agile environments - and implement agile testing the RIGHT way. * * For everyone concerned with agile testing: developers, testers, managers, customers, and other stakeholders. * Covers every key issue: Values, practices, organizational and cultural challenges, collaboration, metrics, infrastructure, documentation, tools, and more. * By two of the world's most experienced agile testing practitioners and consultants. Software testing has always been crucial, but it may be even more crucial in agile environments that rely heavily on repeated iterations of software capable of passing tests. There are, however, many myths associated with testing in agile environments. This book helps agile team

members overcome those myths -- and implement testing that truly maximizes software quality and value. Long-time agile testers Lisa Crispin and Janet Gregory offer powerful insights for three large, diverse groups of readers: experienced testers who are new to agile; members of newly-created agile teams who aren't sure how to perform testing or work with testers; and test/QA managers whose development teams are implementing agile. Readers will learn specific agile testing practices and techniques that can mean the difference between success and failure; discover how to transition 'traditional' test teams to agile; and learn how to integrate testers smoothly into agile teams. Drawing on extensive experience, the authors illuminate topics ranging from culture to test planning to automated tools. They cover every form of testing: business-facing tests, technology-facing tests, exploratory tests, context-driven and scenario tests, load, stability, and endurance tests, and more. Using this book's techniques, readers can improve the effectiveness and reduce the risks of any agile project or initiative.

What makes the world's leading engineering and QA teams so successful? Learn from Google, Etsy, The New York Times, GitHub, King, HelloFresh and many more. Leading Quality is the ultimate guide to becoming a leader of quality, mastering strategic decisions and enabling your team to accelerate

growth.

Negotiating a Common Understanding. Ways to the Get Started. Exploring the Possibilities. Clarifying Expectations. Greatly Improving the Odds of Success.

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 is how 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.

Written by a leading expert in the field, this unique volume contains current test design approaches and focuses only on software test design. Copeland illustrates each test design through detailed examples and step-by-step instructions.

The rules of battle for tracking down -- and

eliminating -- hardware and software bugs. When the pressure is on to root out an elusive software or hardware glitch, what's needed is a cool head courtesy of a set of rules guaranteed to work on any system, in any circumstance. Written in a frank but engaging style, Debugging provides simple, foolproof principles guaranteed to help find any bug quickly. This book makes those shelves of application-specific debugging books (on C++, Perl, Java, etc.) obsolete. It changes the way readers think about debugging, making those pesky problems suddenly much easier to find and fix. Illustrating the rules with real-life bug-detection war stories, the book shows readers how to: * Understand the system: how perceiving the ""roadmap"" can hasten your journey * Quit thinking and look: when hands-on investigation can't be avoided * Isolate critical factors: why changing one element at a time can be an essential tool * Keep an audit trail: how keeping a record of the debugging process can win the day The rules of battle for tracking down -- and eliminating -- hardware and software bugs. When the pressure is on to root out an elusive software or hardware glitch, what's needed is a cool head courtesy of a set of rules guaranteed to work on any system, in any circumstance. Written in a frank but engaging style, Debugging provides simple, foolproof principles guaranteed to help find any bug quickly. This book

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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.

How to Find and Fix the Killer Software Bugs that Evade Conventional Testing In Exploratory Software Testing, renowned software testing expert James Whittaker reveals the real causes of today's most serious, well-hidden software bugs--and introduces powerful new "exploratory" techniques for finding and correcting them. Drawing on nearly two decades of experience working at the cutting edge of testing with Google, Microsoft, and other top software organizations, Whittaker introduces innovative new processes for manual testing that are repeatable, prescriptive, teachable, and extremely effective. Whittaker defines both in-the-small techniques for individual testers and in-the-large techniques to supercharge test teams. He also introduces a hybrid strategy for injecting exploratory concepts into traditional scripted testing. You'll learn when to use each, and how to use them all successfully. Concise,

entertaining, and actionable, this book introduces robust techniques that have been used extensively by real testers on shipping software, illuminating their actual experiences with these techniques, and the results they've achieved. Writing for testers, QA specialists, developers, program managers, and architects alike, Whittaker answers crucial questions such as: • Why do some bugs remain invisible to automated testing--and how can I uncover them? • What techniques will help me consistently discover and eliminate "show stopper" bugs? • How do I make manual testing more effective--and less boring and unpleasant? • What's the most effective high-level test strategy for each project? • Which inputs should I test when I can't test them all? • Which test cases will provide the best feature coverage? • How can I get better results by combining exploratory testing with traditional script or scenario-based testing? • How do I reflect feedback from the development process, such as code changes? More than ever, mission-critical and business-critical applications depend on object-oriented (OO) software. Testing techniques tailored to the unique challenges of OO technology are necessary to achieve high reliability and quality. "Testing Object-Oriented Systems: Models, Patterns, and Tools" is an authoritative guide to designing and automating test suites for OO applications. This comprehensive book explains why testing must be model-based and

provides in-depth coverage of techniques to develop testable models from state machines, combinational logic, and the Unified Modeling Language (UML). It introduces the test design pattern and presents 37 patterns that explain how to design responsibility-based test suites, how to tailor integration and regression testing for OO code, how to test reusable components and frameworks, and how to develop highly effective test suites from use cases. Effective testing must be automated and must leverage object technology. The author describes how to design and code specification-based assertions to offset testability losses due to inheritance and polymorphism. Fifteen micro-patterns present oracle strategies--practical solutions for one of the hardest problems in test design. Seventeen design patterns explain how to automate your test suites with a coherent OO test harness framework. The author provides thorough coverage of testing issues such as: The bug hazards of OO programming and differences from testing procedural code How to design responsibility-based tests for classes, clusters, and subsystems using class invariants, interface data flow models, hierarchic state machines, class associations, and scenario analysis How to support reuse by effective testing of abstract classes, generic classes, components, and frameworks How to choose an integration strategy that supports iterative and incremental development

How to achieve comprehensive system testing with testable use cases How to choose a regression test approach How to develop expected test results and evaluate the post-test state of an object How to automate testing with assertions, OO test drivers, stubs, and test frameworks Real-world experience, world-class best practices, and the latest research in object-oriented testing are included. Practical examples illustrate test design and test automation for Ada 95, C++, Eiffel, Java, Objective-C, and Smalltalk. The UML is used throughout, but the test design patterns apply to systems developed with any OO language or methodology.
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