

*The Addison-Wesley Signature Series*

# AGILE TESTING

A PRACTICAL GUIDE FOR  
TESTERS AND AGILE TEAMS

LISA CRISPIN  
JANET GREGORY



*Forewords by Mike Cohen and Brian Marick*



# Agile Testing A Practical Guide

**Ensheng Dong**



## **Agile Testing A Practical Guide:**

**Agile Testing** Lisa Crispin, Janet Gregory, 2009 Testing is a key component of agile development. The widespread adoption of agile methods has brought the need for effective testing into the limelight and agile projects have transformed the role of testers. Much of a tester's function, however, remains largely misunderstood. What is the true role of a tester? Do agile teams actually need members with QA backgrounds? What does it really mean to be an agile tester? Two of the industry's most experienced agile testing practitioners and consultants, Lisa Crispin and Janet Gregory, have teamed up to bring you the definitive answers to these questions and many others. In *Agile Testing*, Crispin and Gregory define agile testing and illustrate the tester's role with examples from real agile teams. They teach you how to use the agile testing quadrants to identify what testing is needed, who should do it, and what tools might help. The book chronicles an agile software development iteration from the viewpoint of a tester and explains the seven key success factors of agile testing. Readers will come away from this book understanding how to get testers engaged in agile development, where testers and QA managers fit on an agile team, what to look for when hiring an agile tester, how to transition from a traditional cycle to agile development, how to complete testing activities in short iterations, how to use tests to successfully guide development, how to overcome barriers to test automation. This book is a must for agile testers, agile teams, their managers, and their customers. **Agile Software Testing** Sorin Dumitrascu, 2020-09-17 The Agile Software Testing course covers the methodologies and testing approaches but also the techniques and tools used in software testing in agile projects. The first section of this course is on Methodologies and Testing Approaches. Agile software development lifecycles are comprised of short iterations with working software released at the end of each iteration. In this section, you will have an overview of agile development and cover some of the different approaches including Extreme Programming, Scrum, and Kanban. You will learn the key aspects of testing in an agile environment as well as the skillset that an agile tester should have. More specifically, we are going to cover the following: Agile Software Development Fundamentals which includes Agile Software Development and the Agile Manifesto, The Twelve Principles of the Agile Manifesto, The Whole Team Approach, Early and Frequent Feedback, Aspects of Agile Approach which includes Extreme Programming, XP, Scrum, Kanban, Collaborative User Stories, Creation of User Stories, Retrospectives, Continuous Integration, Release and Iteration Planning, Testing in Agile Approaches which includes Agile Testing and Development Activities, Agile Project Work Products, Agile Test Levels, Agile Testing and Configuration Management, Agile and Independent Testing, Test Status in Agile Projects which includes Communicating Test Status and Product Quality, Managing Risk, Regression Role and Skills of an Agile Tester which includes Skills of an Agile Tester, Role of an Agile Tester. The second section of this course is on Techniques and Tools. Agile approaches include the complementary techniques of test-driven development, acceptance test-driven development, and behavior-driven development. In this section, we will explore the key features of agile testing and how techniques such as black box testing can be applied in agile projects. We will also take a

look at various tools that are available to agile testers everything from task management and tracking tools to communication and configuration tools More specifically we are going to cover the following Agile Testing and Risk Assessment which includes Test driven and Behavior driven Development Test Levels A Scrum Tester Quality Risks in Agile Projects Techniques in Agile Projects which includes Estimation of Testing Effort Test Basis in Agile Projects Definition of Done Acceptance Test driven Development Functional and Nonfunctional Black Box Test Design Exploratory Testing Tools for Testing in Agile Projects which includes Task Management and Tracking Tools Communication and Information sharing Tools Test Development and Configuration Tools

**The Agile Testing Collection** Janet Gregory, Lisa Crispin, 2015-06-22 A Comprehensive Collection of Agile Testing Best Practices Two Definitive Guides from Leading Pioneers Janet Gregory and Lisa Crispin haven't just pioneered agile testing they have also written two of the field's most valuable guidebooks Now you can get both guides in one indispensable eBook collection today's must have resource for all agile testers teams managers and customers Combining comprehensive best practices and wisdom contained in these two titles The Agile Testing Collection will help you adapt agile testing to your environment systematically improve your skills and processes and strengthen engagement across your entire development team The first title Agile Testing A Practical Guide for Testers and Agile Teams defines the agile testing discipline and roles and helps you choose organize and use the tools that will help you the most Writing from the tester's viewpoint Gregory and Crispin chronicle an entire agile software development iteration and identify and explain seven key success factors of agile testing The second title More Agile Testing Learning Journeys for the Whole Team addresses crucial emerging issues shares evolved practices and covers key issues that delivery teams want to learn more about It offers powerful new insights into continuous improvement scaling agile testing across teams and the enterprise overcoming pitfalls of automation testing in regulated environments integrating DevOps practices and testing mobile embedded and business intelligence systems The Agile Testing Collection will help you do all this and much more Customize agile testing processes to your needs and successfully transition to them Organize agile teams clarify roles hire new testers and quickly bring them up to speed Engage testers in agile development and help agile team members improve their testing skills Use tests and collaborate with business experts to plan features and guide development Design automated tests for superior reliability and easier maintenance Plan just enough balancing small increments with larger feature sets and the entire system Test to identify and mitigate risks and prevent future defects Perform exploratory testing using personas tours and test charters with session and thread based techniques Help testers developers and operations experts collaborate on shortening feedback cycles with continuous integration and delivery Both guides in this collection are thoroughly grounded in the authors extensive experience and supported by examples from actual projects Now with both books integrated into a single easily searchable and cross linked eBook you can learn from their experience even more easily

**Agile Testing Essentials** Lisa Gregory, 2017 4 Hours of Video Instruction Agile Testing Essentials LiveLessons is based

on fundamental concepts from Lisa Crispin's and Janet Gregory's two best-selling books *Agile Testing: A Practical Guide for Testers and Agile Teams* and *More Agile Testing: Learning Journeys for the Whole Team*. By the end of the course, participants will understand how testing fits into short and frequent delivery cycles and how each team member can contribute to the success of a quality product. Every team member, including testers, programmers, team facilitators, business analysts, designers, product owners, and product managers, will find value in this course.

**Goal:** To introduce basic understanding of how agile teams build quality into their product with the whole team engaged in testing activities throughout the delivery cycle. Testing is critical to the successful delivery of a quality product, not a phase to be executed right before delivery.

**Approach:** Each topic starts with a presentation of the material, assisted with slides and/or a live discussion between Janet and Lisa. Examples are used throughout to help explain the topic, and there is an opportunity for participants to practice different techniques through exercises. After each exercise, Janet and Lisa discuss how they approach the exercise and guide participants in connecting what they've learned with their own teams and projects.

**Related Content:** Lisa Crispin and Janet Gregory are co-authors of *More Agile Testing: Learning Journeys for the Whole Team* (Addison Wesley, 2014) and *Agile Testing: A Practical Guide for Testers and Agile Teams* (Addison Wesley, 2009), as well as authors and contributors to other software development books. Their book website is [www.agiletester.ca](http://www.agiletester.ca). About the Instructors: Lisa Crispin has worked as a tester and agile testing coach on awesome agile teams since 2000. Her peers voted her the Most Influential Agile Testing Professional Person in 2012. Together with Janet, she developed a three-day agile testing training course. Please visit [www.lisacrispin.com](http://www.lisacrispin.com) for her blog along with links to publications, podcasts, and webinars. Follow Lisa on Twitter: [lisacrispin](https://twitter.com/lisacrispin). Janet Gregory is an agile testing coach and process consultant with DragonFire Inc. Janet works with teams to transition to agile development and teaches agile testing courses and tutorials worldwide. Her peers voted her the Most Influential Agile Testing Professional Person in 2015. For more about Janet's work and her

**Advanced Testing of Systems-of-Systems, Volume 2** Bernard Homès, 2022-12-07. As a society today, we are so dependent on systems of systems that any malfunction has devastating consequences, both human and financial. Their technical design, functional complexity, and numerous interfaces justify a significant investment in testing in order to limit anomalies and malfunctions. Based on more than 40 years of practice, this book goes beyond the simple testing of an application already extensively covered by other authors to focus on methodologies, techniques, continuous improvement processes, load estimates, metrics, and reporting, which are illustrated by a case study. It also discusses several challenges for the near future. Pragmatic and clear, this book displays many examples and references that will help you improve the quality of your systems of systems efficiently and effectively and lead you to identify the impact of upstream decisions and their consequences. *Advanced Testing of Systems of Systems 2* deals with the practical implementation and use of the techniques and methodologies proposed in the first volume.

**The Self-Taught Agile Tester** Chhavi Raj Dosaj, 2021-04-26. This book is meant for readers who have little or no experience in doing testing in Agile

software development The first half of the book will help you to understand the following topics Why we need Agile software development Different Agile approaches Agile team structure How requirements are managed in Agile projects Different Agile Ceremonies Different Agile Test methods Estimation and Automation in Agile projects How Quality risks are managed in Agile projects Tools used by Agile team The second half focuses on a step by step walk through of a real life Agile testing project This will help you to understand how the real Agile software projects are run from start to end and the role and duties of the Agile tester The book provides details of each project activity which will help you to understand how the test activities are planned executed and monitored in real Agile projects This book will not only help you to learn Agile testing but also how you can apply them when you are working as an Agile tester on a project This book will teach you each and everything you should know about Agile software testing with references to a real life project and help you in securing a job as an Agile tester

*Test-Driven Infrastructure with Chef* Stephen Nelson-Smith,2013-10-11 Since Test Driven Infrastructure with Chef first appeared in mid 2011 infrastructure testing has begun to flourish in the web ops world In this revised and expanded edition author Stephen Nelson Smith brings you up to date on this rapidly evolving discipline including the philosophy driving it and a growing array of tools You ll get a hands on introduction to the Chef framework and a recommended toolchain and workflow for developing your own test driven production infrastructure Several exercises and examples throughout the book help you gain experience with Chef and the entire infrastructure testing ecosystem Learn how this test first approach provides increased security code quality and peace of mind Explore the underpinning philosophy that infrastructure can and should be treated as code Become familiar with the MASCOT approach to test driven infrastructure Understand the basics of test driven and behavior driven development for managing change Dive into Chef fundamentals by building an infrastructure with real examples Discover how Chef works with tools such as Virtualbox and Vagrant Get a deeper understanding of Chef by learning Ruby language basics Learn the tools and workflow necessary to conduct unit integration and acceptance tests

**QA in Agile** Aziz Hadj-Bouazza,2025-04-26 QA in Agile A Practical Guide for Testers and Managers is your essential handbook for mastering quality assurance in fast paced Agile environments Whether you re a tester QA lead Scrum Master or product manager this guide provides clear practical strategies to embed quality throughout the Agile development lifecycle Learn how to shift testing left collaborate closely with developers integrate automation into CI CD pipelines manage Agile testing metrics and foster a culture of continuous improvement Packed with real world examples templates best practices and actionable insights this book empowers QA professionals to move beyond traditional testing and become true quality champions in Agile teams

*Software Technologies* José Cordeiro,Marten van Sinderen,2014-09-30 This book constitutes the thoroughly refereed proceedings of the 8th International Joint Conference on Software Technologies ICSOFT 2013 held in Reykjavik Iceland in July 2013 The 19 revised full papers presented were carefully reviewed and selected from 121 paper submissions The papers focus on the following research topics and

applications new software paradigm trends and mainstream software engineering and applications **Agile Testing Essentials** Lisa Crispin,2017 Agile Testing Essentials LiveLessons is based on fundamental concepts from Lisa Crispin s and Janet Gregory s two best selling books Agile Testing A Practical Guide for Testers and Agile Teams and More Agile Testing Learning Journeys for the Whole Team By the end of the course participants will understand how testing fits into short and frequent delivery cycles and how each team member can contribute to the success of a quality product Every team member including testers programmers team facilitators business analysts designers product owners and product managers will find value in this course Goal To introduce basic understanding of how agile teams build quality into their product with the whole team engaged in testing activities throughout the delivery cycle Testing is critical to the successful delivery of a quality product a phase to be executed right before delivery Approach Each topic starts with a presentation of the material assisted with slides and or a live discussion between Janet and Lisa Examples are used throughout to help explain the topic and there is an opportunity for participants to practice different techniques through exercises After each exercise Janet and Lisa discuss how they approach the exercise and guide participants in connecting what they ve learned with their own teams and projects Resource description page [ATDD by Example](#) Markus Gärtner,2012-06-26 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 G rtner 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 G rtner 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 G rtner 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 [Extreme Programming and Agile Methods](#) ,2003 **Leading Lean Software Development** Mary Poppendieck,Tom Poppendieck,2010 Building on their breakthrough bestseller

Implementing Lean Software Development the authors show software leaders how to quickly identify the biggest opportunities for improvement in their development organizations Encyclopedia of Careers and Vocational Guidance: Career articles, PHY-Z ,2011 Provides detailed facts and current statistics for over 750 occupations in more than 90 key career fields Contains more than 500 photographs **Software Engineering: A Practitioner's Approach** Roger S. Pressman,2010 For over 20 years this has been the best selling guide to software engineering for students and industry professionals alike This seventh edition features a new part four on web engineering which presents a complete engineering approach for the analysis design and testing of web applications *Software Development* ,2006 **A Practical Guide to EXtreme Programming** David Astels,Granville Miller,Miroslav Michal Novak,2002 The one stop guide for everyone getting started with eXtreme Programming Making XP principles work in the real world Best practices for the entire project lifecycle conceptualization through delivery Understand the role of every participant developer manager and customer Specific solutions to the most common XP transitioning problems Practically overnight Extreme Programming XP has become one of the world s leading agile methodologies Now there s an easy concise introduction that delivers all the guidance and best practices you need to make XP work in your organization A Practical Guide to eXtreme Programming doesn t just introduce key XP principles such as simplicity communication and feedback it shows how to make them work in the real world Using a start to finish case study this book covers the entire project lifecycle every key task and the role of every XP participant developers managers and customers Coverage includes Envisioning your proposed software system Writing effective user stories and acceptance tests Planning for regular releases and iterations Coding with intention Best practices for integration refactoring testing and delivery Overcoming the challenges of transitioning to XP Want all the benefits XP can provide Want to implement XP as smoothly and painlessly as possible This is the place to start **Dr. Dobb's Journal** ,2008

**Test-driven Development** David Astels,2003 This guide for programmers teaches how to practice Test Driven Development TDD also called Test First Development Contrary to the accepted approach to testing when you practice TDD you write tests for code before you write the code being tested This text provides examples in Java **ACM SIGPLAN Notices** ,2006

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