

## Bdd In Action Behavior Driven Development For The Whole Software Lifecycle

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 Master the skills required to effectively use Cucumber BDD which simplifies Agile development and fast-paced time-to-market

**KEY FEATURES** ? A step-by-step explanation of each component of the Cucumber framework. ? Expert coverage on speeding up the implementation of the Cucumber framework. ? Includes Parallel Execution, Cloud Testing, Explore Gherkin, and many more.

**DESCRIPTION** In this book, readers will learn everything they need to know about Behavior-Driven Development (BDD) and a framework used for automation testing for BDD. The book is divided into three sections. The first section covers the building blocks of Cucumber such as Feature files, Step Definition classes, and Runner classes, among other things. These will serve as the building blocks for becoming more familiar with Cucumber. The second section covers the Page Object design pattern and Page Factories, both of which are useful in developing robust frameworks. The final section demonstrates Cucumber's integration with TestNG and Maven. We will be putting each Maven build in Jenkins and configuring Jenkins to trigger automatically when a development build is completed. After reading this book, the test engineer will understand the concept of incorporating Cucumber as a BDD framework into his testing. As a result, he will be able to streamline the testing and bug detection processes.

**WHAT YOU WILL LEARN** ? Understand the fundamentals of Test-Driven Development and Behavior-Driven Development. ? Investigate Cucumber's building blocks such as Feature Files and Step Definition Files. ? Learn the Base Class and inheritance concept within the Page Object Model Framework. ? Create a TestNG XML that calls the test runner class. ? Practice triggering POM xml testing.

**WHO THIS BOOK IS FOR** This book is aimed at individuals who have a firm grasp of the fundamentals of Java and are interested in improving their knowledge of the BDD framework.

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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.

This book constitutes the refereed proceedings of the Third International Conference on Reliability, Safety, and Security of Railway Systems, RSSRail 2019, held in Lille, France in June 2019. The 18 full papers presented in this book were carefully reviewed and selected from 38 submissions. They cover a range of topics including railways system and infrastructure advance modelling; scheduling and track planning; safety process and validation; modelling; formal verification; and security.

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.

This book constitutes revised papers from the seven workshops and one accompanying event which took place at the 21st International Conference on Business Information Systems, BIS 2018, held in Berlin, Germany, in July 2018. Overall across all workshops, 58 out of 122 papers were accepted. The workshops included in this volume are: AKTB 2018 - 10th Workshop on Applications of Knowledge-Based Technologies in Business BITA 2018 - 9th Workshop on Business and IT Alignment BSCT 2018 - 1st Workshop on Blockchain and Smart Contract Technologies IDEA 2018 - 4th International Workshop on Digital Enterprise Engineering and Architecture IDEATE 2018 - 3rd Workshop on Big Data and Business Analytics Ecosystems SciBOWater 2018 - Scientific Challenges & Business Opportunities in Water Management QOD 2018 - 1st Workshop on Quality of Open Data In addition, one keynote speech in full-paper length and contributions from the Doctoral Consortium are included

Studies on software project delivery show that the most common cause of failure is mismanagement of the project's requirements. This book takes a holistic approach to managing



business goals: Feature Injection and related techniques Defining and illustrating features From examples to executable specifications Automating the scenarios PART 3: HOW DO I BUILD IT? CODING THE BDD WAY From executable specifications to rock-solid automated acceptance tests Automating acceptance criteria for the UI layer Automating acceptance criteria for non-UI requirements BDD and unit testing PART 4: TAKING BDD FURTHER Living Documentation: reporting and project management BDD in the build process

The highly dynamic world of information technology service management stresses the benefits of the quick and correct implementation of IT services. A disciplined approach relies on a separate set of assumptions and principles as an agile approach, both of which have complicated implementation processes as well as copious benefits. Combining these two approaches to enhance the effectiveness of each, while difficult, can yield exceptional dividends. *Balancing Agile and Disciplined Engineering and Management Approaches for IT Services and Software Products* is an essential publication that focuses on clarifying theoretical foundations of balanced design methods with conceptual frameworks and empirical cases. Highlighting a broad range of topics including business trends, IT service, and software development, this book is ideally designed for software engineers, software developers, programmers, information technology professionals, researchers, academicians, and students.

The ASP.NET MVC 5 Framework is the latest evolution of Microsoft's ASP.NET web platform. It provides a high-productivity programming model that promotes cleaner code architecture, test-driven development, and powerful extensibility, combined with all the benefits of ASP.NET. ASP.NET MVC 5 contains a number of advances over previous versions, including the ability to define routes using C# attributes and the ability to override filters. The user experience of building MVC applications has also been substantially improved. The new, more tightly integrated, Visual Studio 2013 IDE has been created specifically with MVC application development in mind and provides a full suite of tools to improve development times and assist in reporting, debugging and deploying your code. The popular Bootstrap JavaScript library has also now been included natively within MVC 5 providing you, the developer, with a wider range of multi-platform CSS and HTML5 options than ever before without the penalty of having to load-in third party libraries.

The seven volumes LNCS 12249-12255 constitute the refereed proceedings of the 20th International Conference on Computational Science and Its Applications, ICCSA 2020, held in Cagliari, Italy, in July 2020. Due to COVID-19 pandemic the conference was organized in an online event. Computational Science is the main pillar of most of the present research, industrial and commercial applications, and plays a unique role in exploiting ICT innovative technologies. The 466 full papers and 32 short papers presented were carefully reviewed and selected from 1450 submissions. Apart from the general track, ICCSA 2020 also include 52 workshops, in various areas of computational sciences, ranging from computational science technologies, to specific areas of computational sciences, such as software engineering, security, machine learning and artificial intelligence, blockchain technologies, and of applications in many fields.

This book constitutes the thoroughly refereed proceedings of the 5th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management, IC3K 2013, held in Vilamoura, Portugal, in September 2013. The 27 full papers presented together with two invited papers were carefully reviewed and selected from 239 submissions. The papers are organized in topical sections on knowledge discovery and information retrieval; knowledge engineering and ontology development; knowledge management and information sharing.

Agile software development teams are seeking better ways to create business-facing automated tests that support the development of the right product. Cucumber is rapidly becoming the most popular tool for accomplishing this objective – but, until now, no book has covered Behavior-Driven Development (BDD) practices and tools in sufficient depth. Teams have been forced to keep reinventing the wheel, or else to hire one of a handful of consultants at great expense. *Behavior-Driven Development with Cucumber* fills that gap. ¿ Richard Lawrence and Paul Rayner begin by illuminating ATDD's value, and showing how it can help you produce better software with less pain. Next, they present a complete BDD/Cucumber reference and tutorial that provides a common language for software customers and team members alike. Lawrence and Rayner thoroughly explain the role of each team member and stakeholder, with a particularly insightful emphasis on non-developers. Next, they show how to automate functional tests for web, console, native client, legacy, and other applications on the Ruby, Java, and .NET. platforms. To complement the Web's existing Ruby-oriented Cucumber resources, the authors provide even more Java (Cuke4Duke) and C# (Cuke4Nuke) examples. ¿ Throughout, you'll find concrete examples and hands-on exercises based on the authors' extensive experience teaching BDD to software professionals and helping software organizations successfully implement BDD strategies.

This open access book constitutes the proceedings of the 19th International Conference on Agile Software Development, XP 2018, held in Porto, Portugal, in May 2018. XP is the premier agile software development conference combining research and practice, and XP 2018 provided a playful and informal environment to learn and trigger discussions around its main theme – make, inspect, adapt. The 21 papers presented in this volume were carefully reviewed and selected from 62 submissions. They were organized in topical sections named: agile requirements; agile testing; agile transformation; scaling agile; human-centric agile; and continuous experimentation.

This book is ideal for any JavaScript developer who is interested in producing well-tested code. If you have no prior experience with testing, Node.js, or any other tool, do not worry, as they will be explained from scratch.

Gain insights into the latest technology and business trends within testing domains About This Book This book covers the latest trends that every Testing and QA professional should keep up-to-date with given the advancements in digital technologies. Master cutting-edge testing techniques for emerging areas such as IOT, Machine Learning, Cognitive. Best practices for Testing and Quality Assurance within several industry domains. Who This Book Is For This book is targeted at those working in the QA and Testing areas. The book does not cover testing basics, which QA professional are already familiar with—for example, writing a test plan or test case, and so on. What You Will Learn Understand the TCOE model, managed services, the structure of testing in Agile/DevOps engagements, factory models, and crowdsourcing Implement testing processes, practices, and automation tools in the Agile/DevOps life cycle Adapt to current technologies in social media, mobile, analytics and the Cloud Leverage cognitive intelligence/machine-learning, robotics, and the Internet of Things in testing How key industries/domains

(consumer products and retail, energy and utilities, healthcare, telecom, and automotive) adapt to digital transformation Future directions for the QA industry, consulting careers, testing profession, and professionals In Detail The book is based on the author's experience in leading and transforming large test engagements and architecting solutions for customer testing requirements/bids/problem areas. It targets the testing practitioner population and provides them with a single go-to place to find perspectives, practices, trends, tools, and solutions to test applications as they face the evolving digital world. This book is divided into five parts where each part explores different aspects of testing in the real world. The first module explains the various testing engagement models. You will then learn how to efficiently test code in different life cycles. The book discusses the different aspects of Quality Analysis consideration while testing social media, mobile, analytics, and the Cloud. In the last module, you will learn about futuristic technologies to test software. By the end of the book, you will understand the latest business and IT trends in digital transformation and learn the best practices to adopt for business assurance. Style and approach This book is a compilation of the latest business and IT trends in digital transformation & Tools and Best Practices that QA professionals need to adopt for business assurance.

This book constitutes the refereed proceedings of the 14th International Workshop on Enterprise and Organizational Modeling and Simulation, EOMAS 2018, held in Tallinn, Estonia, in June 2018. The main focus of EOMAS is on the role, importance, and application of modeling and simulation within the extended organizational and enterprise context. The 11 full papers presented in this volume were carefully reviewed and selected from 22 submissions. They were organized in topical sections on conceptual modeling, enterprise engineering, and formal methods.

Develop testable, modular, and maintainable Ruby software for the real world using RSpec About This Book Explore the concept of testability and how to implement tests that deliver the most value Maximize the quality of your Ruby code through a wide variety of tests Master the real-world tradeoffs of testing through detailed examples supported by in-depth discussion Who This Book Is For This book is aimed at the software engineer who wants to make their code more reliable and their development process easier. It is also aimed at test engineers who need to automate the testing of complex systems. Knowledge of Ruby is helpful, but even someone new to the language should find it easy to follow the code and tests. What You Will Learn Identify a unit of software for the purposes of testing Manage test states with hooks, fixtures, and mocks Handle external web services in tests using various techniques Configure RSpec flexibly and cleanly using support code and environment variables Interact with rich web apps in tests using Capybara Build the right feature with behavior-driven development Customize matchers and failure messages Verify correct development and production environments In Detail This book will teach you how to use RSpec to write high-value tests for real-world code. We start with the key concepts of the unit and testability, followed by hands-on exploration of key features. From the beginning, we learn how to integrate tests into the overall development process to help create high-quality code, avoiding the dangers of testing for its own sake. We build up sample applications and their corresponding tests step by step, from simple beginnings to more sophisticated versions that include databases and external web services. We devote three chapters to web applications with rich JavaScript user interfaces, building one from the ground up using behavior-driven development (BDD) and test-driven development (TDD). The code examples are detailed enough to be realistic while simple enough to be easily understood. Testing concepts, development methodologies, and engineering tradeoffs are discussed in detail as they arise. This approach is designed to foster the reader's ability to make well-informed decisions on their own. Style and approach This comprehensive tutorial is packed with real-world examples of testing with RSpec. The most important features of RSpec are introduced in the early chapters and are used in examples of growing complexity in the following chapters. Concepts and methodologies are discussed in detail.

This book constitutes the refereed proceedings of five workshops symposia, held at the 38th International Conference on Conceptual Modeling, ER 2019, in Salvador, Brazil, in November 2019. The 34 papers promote and disseminate research on theories of concepts underlying conceptual modeling, methods and tools for developing and communicating conceptual models, techniques for transforming conceptual models into effective implementations, and the impact of conceptual modeling techniques on databases, business strategies and information systems. The following workshops are included in this volume: Workshop on Conceptual Modeling, Ontologies and Metadata Management for FAIR Data (FAIR), 6th Workshop on Conceptual Modeling in Requirements Engineering and Business Analysis (MREBA), 2nd International Workshop on Empirical Methods in Conceptual Modeling (EmpER), 8th International Workshop on Modeling and Management of Big Data (MoBiD19), and 7th International Workshop on Ontologies and Conceptual Modelling (OntoCom).

This book constitutes the refereed proceedings of the 21st International Conference on Product-Focused Software Process Improvement, PROFES 2020, held in Turin, Italy, in November 2020. Due to COVID-19 pandemic the conference was held virtually. The 19 revised full papers and 3 short papers presented were carefully reviewed and selected from 68 submissions. The papers cover a broad range of topics related to professional software development and process improvement driven by product and service quality needs. They are organized in topical sections on Agile Software Development.

Automate your mobile app testing About This Book How to automate testing with Appium Apply techniques for creating comprehensive tests How to test on physical devices or emulators Who This Book Is For Are you a mobile developer or a software tester who wishes to use Appium for your test automation? If so, then this is the right book for you .You must have basic Java programming knowledge. You don't need to have prior knowledge of Appium. What You Will Learn Discover Appium and how to set up an automation framework for mobile testing Understand desired capabilities and learn to find element locators Learn to automate gestures and synchronize tests using Appium Take an incremental approach to implement page object pattern Learn to run Appium tests on emulators or physical devices Set up Jenkins to run mobile automation tests by easy to learn steps Discover tips and tricks to record video of test execution, inter app automation concepts Learn to run Appium tests in parallel on multiple devices simultaneously In Detail Appium is an open source test automation framework for mobile applications. It allows you to test all three types of mobile applications: native, hybrid, and mobile web. It allows you to run the automated tests on actual devices, emulators, and simulators. Today, when every mobile app is made on at least two platforms, iOS and Android, you need a tool that allows you to test across platforms. Having two different frameworks for the same app increases the cost of the product and time to maintain it as well. Appium helps save this cost. With mobile app growth exploding, mobile app automation is mainstream now. In this book, author Nishant Verma provides you with a firm grounding in the concepts of Appium while diving into how to set up appium & Cucumber-jvm test automation framework, implement page object design pattern, automate gestures, test execution on emulators and physical devices, and implement continuous integration with Jenkins. The mobile app we have referenced in this book is Quikr because of

its relatively lower learning curve to understand the application. It's a local classifieds shopping app. Style and approach This book takes a practical, step-by-step approach to testing and automating individual apps such as native, hybrid, and mobile web apps using different examples.

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JUnit in Action, Third Edition has been completely rewritten for this release. The book is full of examples that demonstrate JUnit's modern features, including its new architecture; nested, tagged, and dynamic tests; and dependency injection. Summary JUnit is the gold standard for unit testing Java applications. Filled with powerful new features designed to automate software testing, JUnit 5 boosts your productivity and helps avoid debugging nightmares. Whether you're just starting with JUnit or you want to ramp up on the new features, JUnit in Action, Third Edition has you covered. Extensively revised with new code and new chapters, JUnit in Action, Third Edition is an up-to-date guide to smooth software testing. Dozens of hands-on examples illustrate JUnit 5's innovations for dependency injection, nested testing, parameterized tests, and more. Throughout, you'll learn how to use JUnit 5 to automate your testing, for a process that consumes less resources, and gives you more time for developing. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology The JUnit framework is the gold standard for unit testing Java applications—and knowing it is an essential skill for Java developers. The latest version, JUnit 5, is a total overhaul, now supporting modern Java features like Lambdas and Streams. About the book JUnit in Action, Third Edition has been completely rewritten for this release. The book is full of examples that demonstrate JUnit's modern features, including its new architecture; nested, tagged, and dynamic tests; and dependency injection. You'll benefit from author Catalin Tudose's unique "pyramid" testing strategy, which breaks the testing process into layers and sets you on the path to bug-free code creation. What's inside Migrating from JUnit 4 to 5 Effective test automation Test-driven development and behavior-driven development Using mocks for test isolation Connecting JUnit 5 with Maven or Gradle About the reader For intermediate Java developers. About the author Catalin Tudose has a Ph.D. in Computer Science, and over 15 years of experience as a Senior Java Developer and Technical Team Lead. Previous editions were authored by Petar Tahchiev, Felipe Leme, Gary Gregory, and Vincent Massol. Table of Contents PART 1 - JUNIT 1 JUnit jump-start 2 Exploring core JUnit 3 JUnit architecture 4 Migrating from JUnit 4 to JUnit 5 5 Software testing principles PART 2 - DIFFERENT TESTING STRATEGIES 6 Test quality 7 Coarse-grained testing with stubs 8 Testing with mock objects 9 In-container testing PART 3 - WORKING WITH JUNIT 5 AND OTHER TOOLS 10 Running JUnit tests from Maven 3 11 Running JUnit tests from Gradle 6 12 JUnit 5 IDE support 13 Continuous integration with JUnit 5 PART 4 - WORKING WITH MODERN FRAMEWORKS AND JUNIT 5 14 JUnit 5 extension model 15 Presentation-layer testing 16 Testing Spring applications 17 Testing Spring Boot applications 18 Testing a REST API 19 Testing database applications PART 5 - DEVELOPING APPLICATIONS WITH JUNIT 5 20 Test-driven development with JUnit 5 21 Behavior-driven development in JUnit 5 22 Implementing a test pyramid strategy with JUnit 5

Ruby on Rails offers the ability to rapidly design and write high-quality code with elegance and maintainability. Written by an experienced web application developer, this book explains how to take good Rails code and turn it into beautiful Rails code: simple, effective, reusable, evolvable code. He discusses the very latest in design patterns, programming abstractions, and development methodologies that have emerged for the modern web. With each design technique, you'll discover how to make your own additions to Rails and craft a development environment tailored to your specific needs.

The book summarizes the main results of the the project ENABLE-S3 covering the following aspects: validation and verification technology bricks (collection and selection of test scenarios, test executions environments incl. respective models, assessment of test results), evaluation of technology bricks in selected use cases and standardization and related initiatives. ENABLE-S3 is an industry-driven EU-project and aspires to substitute today's cost-intensive verification and validation efforts by more advanced and efficient methods. In addition, the book includes articles about complementary international activities in order to highlight the global importance of the topic and to cover the wide range of aspects that needs to be covered at a global scale. Over 90 recipes to help you build and run automated tests for your web applications with Selenium WebDriver About This Book Learn to leverage the power of Selenium WebDriver with simple examples that illustrate real-world problems and their workarounds Explains the testing of mobile applications with Appium for mobile platforms such as iOS and Android A pragmatic manual with engaging recipes and attractive screenshots to test your web applications efficiently Who This Book Is For This book is intended for software quality assurance/testing professionals, software project managers, or software developers with prior experience in using Selenium and Java to test web-based applications. This book also provides examples for C#, Python and Ruby users. What You Will Learn Understand how the locators work and use various locator methods to build reliable tests Build reliable and maintainable tests with the Selenium WebDriver API Use the PageFactory pattern to build a robust and easy to maintain test framework Build data-driven tests and extend Selenium API to implement custom steps and checks Integrate and use ATDD/BDD tools such as Cucumber, SpecFlow, Capybara, and Behave with the Selenium WebDriver API Set up iPhone/iPad and Android simulators and devices to test your mobile web application with Appium Set up Selenium Grid for faster and parallel running of tests, increasing test coverage and reducing test execution time for cross-browser testing Build extended Selenium WebDriver tests for additional coverage In Detail This book is an incremental guide that will help you learn and use the advanced features of the Selenium toolset including the WebDriver API in various situations to build a reliable test automation. You start off by setting up the test development environment and gain tips on the advanced locator strategy and the effective use of the Selenium WebDriver API. After that, the use of design patterns such as data - driven tests and PageFactory are demonstrated. You will then be familiarised with extending Selenium WebDriver API by implementing custom tasks and setting up your own distributed environment to run tests in parallel for cross-browser testing. Finally, we give you some tips on integrating Selenium WebDriver with other popular tools and testing mobile applications. By the end of this book, you will have learned enough to solve complex testing issues on your own. Style and approach This recipe-based guide covers real-life scenarios of testing your web apps with Selenium. Each recipe begins with a short introduction and key concepts along with illustrated examples of use cases, and ends with detailed but informative descriptions of the inner workings of the example.

Among the various types of software, Embedded Software is a class of its own: it ensures critical missions and if wrongly designed it can disturb the human organization, lead to large losses, injure or kill many people. Updates are difficult and rather expensive or even impossible. Designing Embedded Software needs to include quality in the development process, but economic competition requires designing

less expensive products. This book addresses Embedded Software developers, Software Quality Engineers, Team Leaders, Project Managers, and R&D Managers. The book we will introduce Embedded Software, languages, tools and hardware. Then, we will discuss the challenges of Software Quality. Software Development life cycles will be presented with their advantages and disadvantages. Main standards and norms related to software and safety will be discussed. Next, we will detail the major development processes and propose a set of processes compliant with CMMI-DEV, SPICE, and SPICE-HIS. Agile methods as well as DO-178C and ISO 26262 will have specific focus when necessary. To finish, we will promote quality tools needed for capitalization and reaching software excellence.

Author Steven Sanderson has seen the ASP.NET MVC Framework mature from the start, so his experience, combined with comprehensive coverage of all the new features, including those in the official MVC development toolkit, offers the clearest understanding of how this exciting new framework can improve your coding efficiency. With this book, you'll gain invaluable up-to-date knowledge of security, deployment, and interoperability challenges. The ASP.NET MVC 2 Framework introduces a radical high-productivity programming model that promotes cleaner code architecture, test-driven development, and powerful extensibility, combined with all the benefits of ASP.NET 3.5. In this book, the core model-view-controller (MVC) architectural concepts are not simply explained or discussed in isolation, but are demonstrated in action. You'll work through an extended tutorial to create a working e-commerce web application that combines ASP.NET MVC with C# language features and unit-testing best practices. By gaining this invaluable, practical experience, you'll discover MVC's strengths and weaknesses for yourself—and put your best-learned theory into practice.

Most developers would agree that writing automated tests is a good idea, but writing good, well-structured tests is still an elusive skill for many. For Java and Groovy developers, however, there's good news. This practical guide shows you how to write concise and highly readable tests with Spock, the most innovative testing and specification framework for the JVM since JUnit. Author Rob Fletcher takes you from Spock basics to advanced topics, using fully worked integration examples. Through the course of this book, you'll build a simple web application—Squawker—that allows users to post short messages. You'll discover how much easier it is to write automated tests with Spock's straightforward and expressive language. Start by learning how to write simple unit tests Understand the lifecycle of Spock specifications and feature methods Dive into interaction testing, using Spock's intuitive syntax for dealing with mocks and stubs Learn about parameterized tests—writing feature methods that run for multiple sets of data Move into advanced topics, such as writing idiomatic Spock code and driving parameterized tests with file or database input Learn how everything works together in a standalone, fully-worked, test-driven development example

This book constitutes the refereed proceedings of the 19th International Conference on Product-Focused Software Process Improvement, PROFES 2018, held in Wolfsburg, Germany, in November 2018. The 16 revised full papers and 8 short papers presented together with 10 workshop papers and 2 industry talks were carefully reviewed and selected from 65 submissions. The papers are organized in the following topical sections: processes and methods; empirical studies in industry; testing; measurement and monitoring; and global software engineering and scaling. Further relevant topics were added by the events co-located with PROFES 2018, the Second International Workshop on Managing Quality in Agile and Rapid Software Development Processes (QUASD) and the Third Workshop on Hybrid Software and System Development Approaches (HELENA).

This book constitutes the refereed proceedings of the 20th International Conference on Formal Engineering Methods, ICFEM 2018, held in Gold Coast, QLD, Australia, in November 2018. The 22 revised full papers presented together with 14 short papers were carefully reviewed and selected from 66 submissions. The conference focuses on all areas related to formal engineering methods, such as verification; network systems; type theory; theorem proving; logic and semantics; refinement and transition systems; and emerging applications of formal methods.

You've heard about this amazing web framework called Ruby on Rails that's taken the world by storm, but thought it was way too complex for you? Think again. Foundation Rails 2 takes you through your first steps in Rails, explaining in plain English how to start building dynamic web applications. And there's never been a better time to jump in to the Rails world, as the release of Rails 2 was a major evolutionary leap forward from previous versions. Unlike other Rails books, this book doesn't throw you into the deep end right away in the hopes that you'll learn to swim. Instead, we'll start out with the basics and continually expand your knowledge until, by the end of the book, we're building a Rails application with dynamic features such as user registration, geocoding, filtering results with AJAX, RSS feeds, and an XML interface. Meanwhile, we'll talk about the important issues that other books often leave out such as testing your application's code, securing your application from hackers, optimizing your code for the best performance, and of course, deploying your application. This book takes a focused approach to guiding you through understanding how the pieces of Rails work individually and how they fit together. Instead of emphasizing boring theoretical discussions, Foundation Rails 2 lets you get your hands dirty with the framework and learn the hows and whys of Rails faster than ever. We start with a tour of what makes Rails special and why you need to learn it, move into a gentle introduction to the high points of programming in Ruby, and then take a tour of a sample Rails application. Next, we dig deeper into the core components of Rails before building a complete Rails application together. By the end of this book, not only will you know how to build Rails applications but you'll understand the reasons behind what you do.

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