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## KEY=POM - HOWARD BALLARD

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## PRACTICAL JIRA PLUGINS

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### USING JIRA EFFECTIVELY: CUSTOM DEVELOPMENT

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"O'Reilly Media, Inc." One advantage of using JIRA for issue tracking, bug tracking, or project management is the ability to extend this tool with hundreds of plugins from the JIRA community. In this concise book, software toolsmith Matt Doar—the author of Practical JIRA Administration—shows you how to create and maintain your own JIRA plugins to meet the specific needs of a project. This book uses detailed examples to clarify some of the more confusing aspects of JIRA plugins, and serves as an ideal supplement to the extensive documentation already available. Use JIRA's Plugin SDK, and learn several aspects common to all plugins Create your own custom field type, using a JIRA plugin Delve into advanced aspects of custom field plugins, and discover how searching for values in custom fields works Create JIRA plugins to use with workflows, and learn about conditions, validators, and post-functions Store data using the PropertySet interface and the Active Objects plugin Upgrade a plugin and upload it to Atlassian Plugin Exchange (PAC)

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### ECLIPSE PLUG-IN DEVELOPMENT: BEGINNER'S GUIDE

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Packt Publishing Ltd Develop skills to build powerful plug-ins with Eclipse IDE through examples About This Book Create useful plug-ins to make Eclipse work for you Learn how to migrate Eclipse 3.x plug-ins to Eclipse 4.x From automation to testing, find out how to get your IDE performing at an impressive standard Who This Book Is For This book is for Java developers familiar with Eclipse who need more from the IDE. This book will sharpen your confidence and make you a more productive developer with a tool that supports rather than limits you. What You Will Learn Create plug-ins for Eclipse 4.x Test plug-ins automatically with JUnit Display tree and table information in views Upgrade Eclipse 3.x plug-ins to Eclipse 4.x Find out how to build user interfaces from SWT and JFace Run tasks in the background and update the user interface asynchronously Automate builds of plug-ins and features Automate user interface tests with SWTBot In Detail Eclipse is used by everyone from indie devs to NASA engineers. Its popularity is underpinned by its impressive plug-in ecosystem, which allows it to be extended to meet the needs of whoever is using it. This book shows you how to take full advantage of the Eclipse IDE by building your own useful plug-ins from start to finish. Taking you through the complete process of plug-in development, from packaging to automated testing and deployment, this book is a direct route to quicker, cleaner Java development. It may be for beginners, but we're confident that you'll develop new skills quickly. Pretty soon you'll feel like an expert, in complete control of your IDE. Don't let Eclipse define you - extend it with the plug-ins you need today for smarter, happier, and more effective development. Style and approach Packed with plenty of examples so you're never stuck, or never left simply reading instructions, this book encourages you to get started immediately. This book is for developers who want to develop, not just learn.

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### MAVEN: THE DEFINITIVE GUIDE

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#### THE DEFINITIVE GUIDE

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"O'Reilly Media, Inc." For too long, developers have worked on disorganized application projects, where every part seemed to have its own build system, and no common repository existed for information about the state of the project. Now there's help. The long-awaited official documentation to Maven is here. Written by Maven creator Jason Van Zyl and his team at Sonatype, *Maven: The Definitive Guide* clearly explains how this tool can bring order to your software development projects. Maven is largely replacing Ant as the build tool of choice for large open source Java projects because, unlike Ant, Maven is also a project management tool that can run reports, generate a project website, and facilitate communication among members of a working team. To use Maven, everything you need to know is in this guide. The first part demonstrates the tool's capabilities through the development, from ideation to deployment, of several sample applications -- a simple software development project, a simple web application, a multi-module project, and a multi-module enterprise project. The second part offers a complete reference guide that includes: The POM and Project Relationships The Build Lifecycle Plugins Project website generation Advanced site generation Reporting Properties Build Profiles The Maven Repository Team Collaboration Writing Plugins IDEs such as Eclipse, IntelliJ, and NetBeans Using and creating assemblies Developing with Maven Archetypes Several sources for Maven have appeared online for some time, but nothing served as an introduction and comprehensive reference guide to this tool -- until now. *Maven: The Definitive Guide* is the ideal book to help you manage development projects for software, web applications, and enterprise applications. And it comes straight from the source.

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### MICROSERVICES DEPLOYMENT COOKBOOK

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Packt Publishing Ltd Master over 60 recipes to help you deliver complete, scalable, microservice-based solutions and see the improved business results immediately About This Book Adopt microservices-based architecture and deploy it at scale Build your complete microservice architecture using different recipes for different solutions Identify specific tools for specific scenarios and deliver immediate business results, correlate use cases, and adopt them in your team and organization Who This Book Is For This book is for developers, ops, and DevOps professionals who would like to put microservices to work and improve products, services, and operations. Those looking to build and deploy microservices will find this book useful, as well as managers and people at CXO level looking to adopt microservices in their organization. Prior knowledge of Java is expected. No prior knowledge of microservices is assumed. What You Will Learn Build microservices using Spring Boot, Wildfly Swarm, Dropwizard, and SparkJava Containerize your microservice using Docker Deploy microservices using Mesos/Marathon and Kubernetes Implement service discovery and load balancing using Zookeeper, Consul, and Nginx Monitor microservices using Graphite and Grafana Write stream programs with Kafka Streams and Spark Aggregate and manage logs using Kafka Get introduced to DC/OS, Docker Swarm, and YARN In Detail This book will help any team or organization understand, deploy, and manage microservices at scale. It is driven by a sample application, helping you gradually build a complete microservice-based ecosystem. Rather than just focusing on writing a microservice, this book addresses various other microservice-related solutions: deployments, clustering, load balancing, logging, streaming, and monitoring. The initial chapters offer insights into how web and enterprise apps can be migrated to scalable microservices. Moving on, you'll see how to Dockerize your application so that it is ready to be shipped and deployed. We will look at how to deploy microservices on Mesos and Marathon and will also deploy microservices on Kubernetes. Next, you will implement service discovery and load balancing for your microservices. We'll also show you how to build asynchronous streaming systems using Kafka Streams and Apache Spark. Finally, we wind up by aggregating your logs in Kafka, creating your own metrics, and monitoring the metrics for the microservice. Style and approach This book follows a recipe-driven approach and shows you how to plug and play with all the various pieces, putting them together to build a complete scalable microservice ecosystem. You do not need to study the chapters in order, as you can directly refer to the content you need for your situation.

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### SPRING MVC: BEGINNER'S GUIDE

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Packt Publishing Ltd Unleash the power of the latest Spring MVC 4.x to develop a complete application About This Book Work through carefully crafted exercises with detailed explanations for each step will help you understand the concepts with ease You will gain a clear understanding of the end-to-end request/response life cycle, and each logical component's responsibility This book is packed with tips and tricks that demonstrate industry best practices on developing a Spring-MVC-based application Who This Book Is For The book is for Java developers who want to exploit Spring MVC and its features to build web applications. Some familiarity with basic servlet programming concepts would be a plus, but is not a prerequisite. What You Will Learn Familiarize yourself with the anatomy of the Spring 4.X development environment Understand web application architecture and the Spring MVC request flow Integrate bean validation and custom validation Use error handling and exception resolving Get to grips with REST-based web service development and Ajax Test your web application In Detail Spring MVC helps you build flexible and loosely coupled web applications. The Spring MVC Framework is architected and designed in such a way that every piece of logic and functionality is highly configurable. Also, Spring can integrate effortlessly with other popular web frameworks such as Struts, WebWork, Java Server Faces, and Tapestry. The book progressively teaches you to configure the Spring development environment, architecture, controllers, libraries, and more before moving on to developing a full web application. It begins with an introduction to the Spring development environment and architecture so you're familiar with the know-hows. From here, we move on to controllers, views, validations, Spring Tag libraries, and more. Finally, we integrate it all together to develop a web application. You'll also get to grips with testing applications for reliability. Style and approach This book takes a pragmatic step-by-step approach to web application development using Spring MVC, with informative screenshots and concise explanation.

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### SPRING: DEVELOPING JAVA APPLICATIONS FOR THE ENTERPRISE

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Packt Publishing Ltd Leverage the power of Spring MVC, Spring Boot, Spring Cloud, and additional popular web frameworks. About This Book Discover key Spring Framework-related technology standards such as Spring core, Spring-AOP, Spring data access frameworks, and Spring testing to develop robust Java applications easily This course is packed with tips and tricks that demonstrate Industry best practices on developing a Spring-MVC-based application Learn how to efficiently build and implement microservices in Spring, and how to use Docker and Mesos to push the boundaries and explore new possibilities Who This Book Is For This course is intended for Java developers interested in building enterprise-level applications with Spring Framework. Prior knowledge of Java programming and web development concepts (and a basic knowledge of XML) is expected. What You Will Learn Understand the architecture of Spring Framework and how to set up the key components of the Spring Application Development Environment Configure Spring Container and manage Spring beans using XML and Annotation Practice Spring AOP concepts such as Aspect, Advice, Pointcut, and Introduction Integrate bean validation and custom validation Use error handling and exception resolving Get to grips with REST-based web service development and Ajax Use Spring Boot to develop microservices Find out how to avoid common pitfalls when developing microservices Get familiar with end-to-end microservices written in Spring Framework and Spring Boot In Detail This carefully designed course aims to get you started with Spring, the most widely adopted Java framework, and then goes on to more advanced topics such as building microservices using Spring Boot within Spring. With additional coverage of popular web frameworks such as Struts, WebWork, Java Server Faces, Tapestry, Docker, and Mesos, you'll have all the skills and expertise you need to build great applications. Starting with the Spring Framework architecture and setting up the key components of the Spring Application Development Environment, you will learn how to configure Spring Container and manage Spring beans using XML and Annotation. Next, you will delve into Spring MVC, which will help you build flexible and loosely coupled web applications. You'll also get to grips with testing applications for reliability. Moving on, this course will help you implement the microservice architecture in Spring Framework, Spring Boot, and Spring Cloud. Written to the latest specifications of Spring, this book will help you build modern,

Internet-scale Java applications in no time. This Learning Path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products: Learning Spring Application Development by Ravi Kant Soni Spring MVC Beginner's Guide - Second Edition by Amuthan Ganeshan Spring Microservices by Rajesh RV Style and approach This is a step-by-step guide for building a complete application and developing scalable microservices using Spring Framework, Spring Boot, and a set of Spring Cloud components

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## PLAYING WITH JAVA MICROSERVICES ON KUBERNETES AND OPENSIFT

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*Nebrass Lamouchi* Playing with Java Microservices on Kubernetes and OpenShift will teach you how to build and design microservices using Java and the Spring platform. This book covers topics related to creating Java microservices and deploy them to Kubernetes and OpenShift. Traditionally, Java developers have been used to developing large, complex monolithic applications. The experience of developing and deploying monoliths has been always slow and painful. This book will help Java developers to quickly get started with the features and the concerns of the microservices architecture. It will introduce Docker, Kubernetes and OpenShift to help them deploying their microservices. The book is written for Java developers who wants to build microservices using the Spring Boot/Cloud stack and who wants to deploy them to Kubernetes and OpenShift. You will be guided on how to install the appropriate tools to work properly. For those who are new to Enterprise Development using Spring Boot, you will be introduced to its core principles and main features thru a deep step-by-step tutorial on many components. For experts, this book offers some recipes that illustrate how to split monoliths and implement microservices and deploy them as containers to Kubernetes and OpenShift. The following are some of the key challenges that we will address in this book: - Introducing Spring Boot/Cloud for beginners - Splitting a monolith using the Domain Driven Design approach - Implementing the cloud & microservices patterns - Rethinking the deployment process - Introducing containerization, Docker, Kubernetes and OpenShift By the end of reading this book, you will have practical hands-on experience of building microservices using Spring Boot/Cloud and you will master deploying them as containers to Kubernetes and OpenShift.

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## THE DEFINITIVE GUIDE TO JSF IN JAVA EE 8

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### BUILDING WEB APPLICATIONS WITH JAVASERVER FACES

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*Apres* Learn and master the new features in the JSF 2.3 MVC web framework in this definitive guide written by two of the JavaServer Faces (JSF) specification leads. The authors take you through real-world examples that demonstrate how these new features are used with other APIs in Java EE 8. You'll see the new and exciting ways JSF applications can use to communicate between a client and a server, such as using WebSockets, invoking bean methods directly from Ajax, executing client-side JavaScript when Ajax calls complete, and more Along the way you'll broaden your knowledge of JSF components and web APIs best practices, and learn a great deal about the internals of JSF and the design decisions that have been made when building the JSF API. For example, you'll see what artefacts are now CDI injectable, how CDI changed JSF internally, and what some of the caveats are when working with the CDI versions of a JSF artefact. Furthermore, you'll build an example application from scratch. After reading The Definitive Guide to JSF in Java EE 8, you'll be ready to build your own efficient and secure web applications. What You Will Learn Leverage the new features in JSF 2.3 in your existing applications Integrate JSF and CDI Use the brand new Component Search Expression framework, which enables you to more easily locate components from your template Extend the Component Search Expression framework with your own search operators Work with the different ways of mapping requests to JSF, make your application use extensionless URLs, and programmatically inspect which resources are present in your application Master the best practices for web application development and see which are obsolete Who This Book Is For Existing JSF or Java developers who need to create a web UI. No prior knowledge of JSF is required, but the book does skew towards the more experienced developer. Concepts such as dependency injection and MVC are assumed to be known, as is a general knowledge about HTML, HTTP and other web standards.

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## TROUBLESHOOTING JAVA PERFORMANCE

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### DETECTING ANTI-PATTERNS WITH OPEN SOURCE TOOLS

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*Apres* Troubleshoot the most widespread and pernicious Java performance problems using a set of open-source and freely-available tools that will make you dramatically more productive in finding the root causes of slow performance. This is a brief book that focuses on a small number of performance anti-patterns, and you'll find that most problems you encounter fit into one of these anti-patterns. The book provides a specific method in a series of steps referred to as the "P.A.t.h. Checklist" that encompasses persistence, alien systems, threads, and heap management. These steps guide you through a troubleshooting process that is repeatable, that you can apply to any performance problem in a Java application. This technique is especially helpful in 'dark' environments with little monitoring. Performance problems are not always localized to Java, but often fall into the realms of database access and server load. This book gives attention to both of these issues through examples showing how to identify repetitive SQL, and identify architecture-wide performance problems ahead of production rollout. Learn how to apply load like an expert, and determine how much load to apply to determine whether your system scales. Included are walk-throughs of a dozen server-side performance puzzles that are ready to run on your own machine. Following these examples helps you learn to: Assess the performance health of four main problems areas in a Java system: The P.A.t.h. Checklist presents each area with its own set of plug-it-in-now tools Pinpoint the code at fault for CPU and other bottlenecks without a Java profiler Find memory leaks in just minutes using heapSpank, the author's open-source leak detector utility that is freely available from heapSpank.org The repeatable method provided in this book is an antidote to lackluster average response times that are multi-second throughout the industry. This book provides a long absent, easy-to-follow, performance training regimen that will benefit anyone programming in Java. What You'll Learn Avoid the 6 most common ways to mess up a load test Determine the exact number of threads to dial into the load generator to test your system's scalability Detect the three most common SQL performance anti-patterns Measure network response times of calls to back-end systems ('alien systems') Identify whether garbage collection performance is healthy or unhealthy and whether delays are caused by problems in the old or new generation, so you know which generation needs to be adjusted Who This Book Is For Intermediate and expert Java developers and architects. Java experts will be able to update their skill set with the latest and most productive, open-source Java performance tools. Intermediate Java developers are exposed to the most common performance defects that repeatedly show up in Java applications, ones that account for the bulk of slow-performing systems. Experts and intermediates alike will benefit from the chapters on load generation.

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## DEEP LEARNING

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### A PRACTITIONER'S APPROACH

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"O'Reilly Media, Inc." How can machine learning--especially deep neural networks--make a real difference in your organization? This hands-on guide not only provides practical information, but helps you get started building efficient deep learning networks. The authors provide the fundamentals of deep learning--tuning, parallelization, vectorization, and building pipelines--that are valid for any library before introducing the open source Deeplearning4j (DL4J) library for developing production-class workflows. Through real-world examples, you'll learn methods and strategies for training deep network architectures and running deep learning workflows on Spark and Hadoop with DL4J.

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## MASTERING JBPM6

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*Packt Publishing Ltd* This book provides a complete understanding of the jBPM technology stack. It starts with an introduction to the world of business process management systems, the problem domain addressed by jBPM, explores the main use cases that can be addressed by business process management systems, and illustrates the main design patterns. It takes you through the details of the architecture and available out-of-the-box provisions for customizing, extending, and integrating the features of jBPM to meet the requirements of your application. Moreover, this book will empower you with the knowledge to integrate jBPM with enterprise architecture, debug through the source code of jBPM, and utilize the flexibility provided by a heavily modular system. Finally, it introduces you to the provisions available for a jBPM-based application to put the non-functional characteristics of the system, which are of great importance when we deploy our application in production. The book helps you in putting the knowledge at work by providing you with a lot of ready to use examples, both basic and advanced ones.

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## GRADLE BEYOND THE BASICS

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### CUSTOMIZING NEXT-GENERATION BUILDS

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"O'Reilly Media, Inc." If you're familiar with Gradle's basics elements--possibly through the author's previous O'Reilly book, Building and Testing with Gradle--this more advanced guide provides the recipes, techniques, and syntax to help you master this build automation tool. With clear, concise explanations and lots of ready-to-use code examples, you'll explore four discrete areas of Gradle functionality: file operations, custom Gradle plugins, build lifecycle hooks, and dependency management. Learn how to use Gradle's rich set of APIs and Groovy-based Domain Specific Language to customize build software that actually conforms to your product. By using the techniques in this book, you'll be able to write domain-specific builds that support every other line of code your team creates. Examine Gradle's file API, including copy tasks, pattern matching, content filtering, and the FileCollection interface Understand the process for building and packaging a custom Gradle plug-in Manage build complexity with hook methods and Gradle's rule feature Learn how Gradle handles dependency management natively and through customization Explore Gradle's core plug-ins as well as key examples from the Gradle community

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## PRO WEB 2.0 APPLICATION DEVELOPMENT WITH GWT

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*Apres* Pro Web 2.0 Application Development by Jeff Dwyer is the first book on professional Web 2.0 principles that includes the Google Web Toolkit (GWT). GWT is one of the leading Java Ajax frameworks in market, and is very hot in terms of relative growth; it can be integrated with other broader Java frameworks like JBoss Seam and possibly Spring. The book's focus on a single, extremely rich, example "killer application" is what sets this apart from other GWT titles.

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## JRUBY COOKBOOK

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"O'Reilly Media, Inc." Provides information on creating Web-based applications using JRuby on Rails along with Java.

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## INTRODUCING MAVEN

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*Apres* Introducing Maven is your quick start-up primer guide on Maven. This fully packed mini-book includes the new features and enhancements found in the latest version of Maven. In this short 100-page book, you'll learn all about Maven and how to set it up to use. You'll learn about the Maven life cycle and how to effectively leverage and use it. Also, you'll learn the basics of using site plugins and generating Javadocs, test coverage/FindBugs reports, version/release notes and more. Furthermore, you'll take advantage of Maven's archetypes to bootstrap new projects easily. Finally, you will learn how to integrate Nexus repository manager with Maven release phases. After reading and using this short book, you'll have an understanding of Maven's dependency management and how to organize basic

and multi-module Maven projects.

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## MASTERING BEHAVIOR-DRIVEN DEVELOPMENT USING CUCUMBER

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### PRACTICE AND IMPLEMENT PAGE OBJECT DESIGN PATTERN, TEST SUITES IN CUCUMBER, POM TESTNG INTEGRATION, CUCUMBER REPORTS, AND WORK WITH SELENIUM GRID (ENGLISH EDITION)

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*BPB Publications* 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. **TABLE OF CONTENTS** Section 1: Understanding the Cucumber framework Chapter 1: Introduction to Behavior-Driven Development Chapter 2: Understanding Feature Files Chapter 3: Understanding Step Definition files Chapter 4: Learning about the TestRunner Section 2: Learning the Page Object Design Pattern Chapter 5: Understanding the Page Object Model and Creating Page Objects Chapter 6: Understanding Page Factories and Creating Page Factories Section 3: Integration with TestNG, Maven, and Jenkins Chapter 7: Configuring the TestNG Framework Chapter 8: Configuring Maven and Learning about POM.xml Chapter 9: POM.xml Execution from Eclipse and Command Line Chapter 10: Configuring POM.xml to Trigger TestNG xml Chapter 11: Configuring the Runner Class for Cucumber Reporter Plugin Chapter 12: Reporting Using Extent Reports Chapter 13: Parallel Execution Using Selenium Grid Chapter 14: Integration with Jenkins

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## BUILDING AND TESTING WITH GRADLE

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"O'Reilly Media, Inc." Describes how to use the open source project automation tool to build and test software written in Java and other programming languages.

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## RESTFUL JAVA WEB SERVICES SECURITY

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*Packt Publishing Ltd* A sequential and easy-to-follow guide which allows you to understand the concepts related to securing web apps/services quickly and efficiently, since each topic is explained and described with the help of an example and in a step-by-step manner, helping you to easily implement the examples in your own projects. This book is intended for web application developers who use RESTful web services to power their websites. Prior knowledge of RESTful is not mandatory, but would be advisable.

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## MAVEN

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### A DEVELOPER'S NOTEBOOK

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"O'Reilly Media, Inc." A guide to the project-comprehension tool covers such topics as generating a Maven report, publishing a project site, setting up a Continuous Integration environment, and developing Maven plug-ins.

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## SPRING IN ACTION

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*Simon and Schuster* Summary Spring in Action, 5th Edition is the fully updated revision of Manning's bestselling Spring in Action. This new edition includes all Spring 5.0 updates, along with new examples on reactive programming, Spring WebFlux, and microservices. You'll also find the latest Spring best practices, including Spring Boot for application setup and configuration. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Spring Framework makes life easier for Java developers. New features in Spring 5 bring its productivity-focused approach to microservices, reactive development, and other modern application designs. With Spring Boot now fully integrated, you can start even complex projects with minimal configuration code. And the upgraded WebFlux framework supports reactive apps right out of the box! About the Book Spring in Action, 5th Edition guides you through Spring's core features, explained in Craig Walls' famously clear style. You'll roll up your sleeves and build a secure database-backed web app step by step. Along the way, you'll explore reactive programming, microservices, service discovery, RESTful APIs, deployment, and expert best practices. Whether you're just discovering Spring or leveling up to Spring 5.0, this Manning classic is your ticket! What's inside Building reactive applications Spring MVC for web apps and RESTful web services Securing applications with Spring Security Covers Spring 5.0 Over 100,000 copies sold! About the Reader For intermediate Java developers. About the Author Craig Walls is a principal software engineer at Pivotal, a popular author, an enthusiastic supporter of Spring Framework, and a frequent conference speaker. **Table of Contents** PART 1 - FOUNDATIONAL SPRING Getting started with Spring Developing web applications Working with data Securing Spring Working with configuration properties PART 2 - INTEGRATED SPRING Creating REST services Consuming REST services Sending messages asynchronously Integrating Spring PART 3 - REACTIVE SPRING Introducing Reactor Developing reactive APIs Persisting data reactively PART 4 CLOUD-NATIVE SPRING Discovering services Managing configuration Handling failure and latency PART 5 - DEPLOYED SPRING Working with Spring Boot Actuator Administering Spring Monitoring Spring with JMX Deploying Spring

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## ADVANCED ANALYTICS WITH SPARK

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### PATTERNS FOR LEARNING FROM DATA AT SCALE

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"O'Reilly Media, Inc." In the second edition of this practical book, four Cloudera data scientists present a set of self-contained patterns for performing large-scale data analysis with Spark. The authors bring Spark, statistical methods, and real-world data sets together to teach you how to approach analytics problems by example. Updated for Spark 2.1, this edition acts as an introduction to these techniques and other best practices in Spark programming. You'll start with an introduction to Spark and its ecosystem, and then dive into patterns that apply common techniques—including classification, clustering, collaborative filtering, and anomaly detection—to fields such as genomics, security, and finance. If you have an entry-level understanding of machine learning and statistics, and you program in Java, Python, or Scala, you'll find the book's patterns useful for working on your own data applications. With this book, you will: Familiarize yourself with the Spark programming model Become comfortable within the Spark ecosystem Learn general approaches in data science Examine complete implementations that analyze large public data sets Discover which machine learning tools make sense for particular problems Acquire code that can be adapted to many uses

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## SPARK IN ACTION, SECOND EDITION

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### COVERS APACHE SPARK 3 WITH EXAMPLES IN JAVA, PYTHON, AND SCALA

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*Manning Publications* Summary The Spark distributed data processing platform provides an easy-to-implement tool for ingesting, streaming, and processing data from any source. In Spark in Action, Second Edition, you'll learn to take advantage of Spark's core features and incredible processing speed, with applications including real-time computation, delayed evaluation, and machine learning. Spark skills are a hot commodity in enterprises worldwide, and with Spark's powerful and flexible Java APIs, you can reap all the benefits without first learning Scala or Hadoop. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Analyzing enterprise data starts by reading, filtering, and merging files and streams from many sources. The Spark data processing engine handles this varied volume like a champ, delivering speeds 100 times faster than Hadoop systems. Thanks to SQL support, an intuitive interface, and a straightforward multilanguage API, you can use Spark without learning a complex new ecosystem. About the book Spark in Action, Second Edition, teaches you to create end-to-end analytics applications. In this entirely new book, you'll learn from interesting Java-based examples, including a complete data pipeline for processing NASA satellite data. And you'll discover Java, Python, and Scala code samples hosted on GitHub that you can explore and adapt, plus appendixes that give you a cheat sheet for installing tools and understanding Spark-specific terms. What's inside Writing Spark applications in Java Spark application architecture Ingestion through files, databases, streaming, and Elasticsearch Querying distributed datasets with Spark SQL About the reader This book does not assume previous experience with Spark, Scala, or Hadoop. About the author Jean-Georges Perrin is an experienced data and software architect. He is France's first IBM Champion and has been honored for 12 consecutive years. **Table of Contents** PART 1 - THE THEORY CRIPPLED BY AWESOME EXAMPLES 1 So, what is Spark, anyway? 2 Architecture and flow 3 The majestic role of the dataframe 4 Fundamentally lazy 5 Building a simple app for deployment 6 Deploying your simple app PART 2 - INGESTION 7 Ingestion from files 8 Ingestion from databases 9 Advanced ingestion: finding data sources and building your own 10 Ingestion through structured streaming PART 3 - TRANSFORMING YOUR DATA 11 Working with SQL 12 Transforming your data 13 Transforming entire documents 14 Extending transformations with user-defined functions 15 Aggregating your data PART 4 - GOING FURTHER 16 Cache and checkpoint: Enhancing Spark's performances 17 Exporting data and building full data pipelines 18 Exploring deployment

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## BEGINNING JAVA AND FLEX

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### MIGRATING JAVA, SPRING, HIBERNATE AND MAVEN DEVELOPERS TO ADOBE FLEX

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*Apress* Over the past few years, the now-open source Adobe Flex framework has been adopted by the Java community as the preferred framework for Java rich Internet applications (RIAs) using Flash for the presentation layer. Flex helps Java developers to build and maintain expressive web/desktop applications that deploy consistently on all major browsers, desktops, and operating systems. Beginning Java and Flex describes new, simpler, and faster ways to develop enterprise RIAs. This book is not only for Java or Flex developers, but also for all web developers who want to increase their productivity and the quality of their development. The aim of the book is to teach the new frontier of web development using open source, agile, lightweight Java frameworks with Flex. Java lightweight framework programming helps Flex developers create dynamic-looking enterprise applications. Flex and Java are becoming very popular for both business and interactive applications.

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## HANDS-ON APPLICATION DEVELOPMENT USING SPRING BOOT

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### BUILDING MODERN CLOUD NATIVE APPLICATIONS BY LEARNING RESTFUL API, MICROSERVICES, CRUD OPERATIONS, UNIT TESTING, AND DEPLOYMENT (ENGLISH EDITION)

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*BPB Publications* A pragmatic guide for Java developers to help build Microservices and Cloud Apps using Spring Boot. **KEY FEATURES** ● Develops microservices from start to finish using the Spring Boot Framework. ● Creates cloud-native applications using Spring Boot's production-ready features. ● Covers the API gateway, unit testing, cloud deployments, and managing high-traffic applications. **DESCRIPTION** Spring is an excellent framework for developing both web and cloud-native applications. This book on application development using Spring Boot simplifies the process of writing boilerplate code for complex software. It allows developers to concentrate on the application's concept rather than on the internal Java configuration. This book will guide you on how to make the best use of the strength that Spring Boot provides. You'll gain an understanding of how Spring Boot configuration works in conjunction with application development, including auto-configuration and overriding default configurations. You will learn to develop scalable, dependable microservices to accelerate the development lifecycle of a cloud-based application. Each chapter will walk you through the features of Spring Boot as a Software Development Framework, such as performing Create, Read, Update, and Delete (CRUD) operations on a database and securing web services with appropriate logging. By the end of this book, you will develop, test, and deploy applications ready for production and how to establish them as cloud-based applications. The readers will also gain the expertise of writing unit and integration test cases. **WHAT YOU WILL LEARN** ● Get to know Spring Boot and all its capabilities. ● Build start-to-end production-ready applications. ● Explore the API Gateway and practice how to run request routing. ● Learn API doc tools like Swagger and host your apps on Cloud. ● Practice how to balance the application's load when the system is under high traffic. ● Learn to write unit tests and integration tests for bug-free coding. **WHO THIS BOOK IS FOR** This book is for Java developers who want to quickly develop, test, and deploy production-ready applications. This book will also appeal to cloud-native application developers and cloud engineers. No prior Spring Boot knowledge is required as the basics are covered in the book. **TABLE OF CONTENTS** 1. Getting Started with Spring Boot 2. Developing Your First Spring Boot Application 3. Spring Boot Starter Dependencies and Auto-Configuration 4. Spring Boot Annotations 5. Working with Spring Data JPA and Caching 6. Building RESTful Microservices 7. Securing a Web Application 8. Building Resilient System 9. Logging 10. Working with the Swagger API Management Tool 11. Testing a Spring Boot Application 12. Deploying a Spring Boot Application

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## CONTINUOUS DELIVERY IN JAVA

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### ESSENTIAL TOOLS AND BEST PRACTICES FOR DEPLOYING CODE TO PRODUCTION

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*O'Reilly Media* Continuous delivery adds enormous value to the business and the entire software delivery lifecycle, but adopting this practice means mastering new skills typically outside of a developer's comfort zone. In this practical book, Daniel Bryant and Abraham Marín-Pérez provide guidance to help experienced Java developers master skills such as architectural design, automated quality assurance, and application packaging and deployment on a variety of platforms. Not only will you learn how to create a comprehensive build pipeline for continually delivering effective software, but you'll also explore how Java application architecture and deployment platforms have affected the way we rapidly and safely deliver new software to production environments. Get advice for beginning or completing your migration to continuous delivery **Design architecture to enable the continuous delivery of Java applications** **Build application artifacts including fat JARs, virtual machine images, and operating system container (Docker) images** **Use continuous integration tooling like Jenkins, PMD, and find-sec-bugs to automate code quality checks** **Create a comprehensive build pipeline and design software to separate the deploy and release processes** **Explore why functional and system quality attribute testing is vital from development to delivery** **Learn how to effectively build and test applications locally and observe your system while it runs in production**

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## JAVA PROGRAMMING INTERVIEWS EXPOSED

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*John Wiley & Sons* If you are a skilled Java programmer but are concerned about the Java coding interview process, this real-world guide can help you land your next position. Java is a popular and powerful language that is a virtual requirement for businesses making use of IT in their daily operations. For Java programmers, this reality offers job security and a wealth of employment opportunities. But that perfect Java coding job won't be available if you can't ace the interview. If you are a Java programmer concerned about interviewing, *Java Programming Interviews Exposed* is a great resource to prepare for your next opportunity. Author Noel Markham is both an experienced Java developer and interviewer, and has loaded his book with real examples from interviews he has conducted. Review over 150 real-world Java interview questions you are likely to encounter. Prepare for personality-based interviews as well as highly technical interviews. Explore related topics, such as middleware frameworks and server technologies. Make use of chapters individually for topic-specific help. Use the appendix for tips on Scala and Groovy, two other languages that run on JVMs. Veterans of the IT employment space know that interviewing for a Java programming position isn't as simple as sitting down and answering questions. The technical coding portion of the interview can be akin to a difficult puzzle or an interrogation. With *Java Programming Interviews Exposed*, skilled Java coders can prepare themselves for this daunting process and better arm themselves with the knowledge and interviewing skills necessary to succeed.

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## IMAGE PROCESSING WITH IMAGEJ

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*Packt Publishing Ltd* Extract and analyze data from complex images with ImageJ, the world's leading image processing tool. **About This Book** **Design automated image-processing solutions and speed up image-processing tasks with ImageJ** **Create quality and intuitive interfaces for image processing by developing a basic framework for ImageJ plugins.** **Tackle even the most sophisticated datasets and complex images** **Who This Book Is For** The book has been created for engineers, scientists, and developers eager to tackle image processing with one of the leading tools available. No prior knowledge of ImageJ is needed. Familiarity with Java programming will be required for readers to code their own routines using ImageJ. **What You Will Learn** **Install and set up ImageJ for image processing.** **Process images using ImageJ's built-in tools** **Create macros to perform repetitive processing tasks** **Set up and use an integrated development environment for ImageJ plugins** **Create plugins with a user-friendly interface for processing** **Use established ImageJ plugins for processing and quantification** **Generate a simple interface based on a real world example and create other interfaces for other projects** **Speed up interface development by setting multiple parameters interactively** **In Detail** **Advances in image processing have been vital for the scientific and technological communities, making it possible to analyze images in greater detail than ever before.** But as images become larger and more complex, advanced processing techniques are required. ImageJ is built for the modern challenges of image processing – it's one of the key tools in its development, letting you automate basic tasks so you can focus on sophisticated, in-depth analysis. This book demonstrates how to put ImageJ into practice. It outlines its key features and demonstrates how to create your own image processing applications using macros and ImageJ plugins. Once you've got to grips with the basics of ImageJ, you'll then discover how to build a number of different image processing solutions. From simple tasks to advanced and automated image processing, you'll gain confidence with this innovative and powerful tool – however and whatever you are using it for. **Style and approach** A step-by-step guide to image processing and developing macros and plugins in ImageJ. The book will progress from using the built-in tools to macros and finally plugins for image processing.

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## SPRING DATA

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*"O'Reilly Media, Inc."* You can choose several data access frameworks when building Java enterprise applications that work with relational databases. But what about big data? This hands-on introduction shows you how Spring Data makes it relatively easy to build applications across a wide range of new data access technologies such as NoSQL and Hadoop. Through several sample projects, you'll learn how Spring Data provides a consistent programming model that retains NoSQL-specific features and capabilities, and helps you develop Hadoop applications across a wide range of use-cases such as data analysis, event stream processing, and workflow. You'll also discover the features Spring Data adds to Spring's existing JPA and JDBC support for writing RDBMS-based data access layers. Learn about Spring's template helper classes to simplify the use of database-specific functionality. Explore Spring Data's repository abstraction and advanced query functionality. Use Spring Data with Redis (key/value store), HBase (column-family), MongoDB (document database), and Neo4j (graph database). Discover the GemFire distributed data grid solution. Export Spring Data JPA-managed entities to the Web as RESTful web services. Simplify the development of HBase applications, using a lightweight object-mapping framework. Build example big-data pipelines with Spring Batch and Spring Integration.

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## PROFESSIONAL JAVA TOOLS FOR EXTREME PROGRAMMING

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### ANT, XDOCKET, JUNIT, CACTUS, AND MAVEN

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*John Wiley & Sons* Professional Java Tools for Extreme Programming is a practical, code-intensive guide to the tools that Enterprise Java developers need when using Extreme Programming (XP) methods. It covers the key tools used to automate the most complex parts of the XP process: application integration, testing, and deployment.

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## SPRING DATA STANDARD GUIDE

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*Packt Publishing Ltd* Implement JPA repositories and harness the performance of Redis in your applications.

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## ENTERPRISE INTEGRATION PATTERNS

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### DESIGNING, BUILDING, AND DEPLOYING MESSAGING SOLUTIONS

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*Addison-Wesley* Enterprise Integration Patterns provides an invaluable catalog of sixty-five patterns, with real-world solutions that demonstrate the formidable of messaging and help you to design effective messaging solutions for your enterprise. The authors also include examples covering a variety of different integration technologies, such as JMS, MSMQ, TIBCO ActiveEnterprise, Microsoft BizTalk, SOAP, and XSL. A case study describing a bond trading system illustrates the patterns in practice, and the book offers a look at emerging standards, as well as insights into what the future of enterprise integration might hold. This book provides a consistent vocabulary and visual notation framework to describe large-scale integration solutions across many technologies. It also explores in detail the advantages and limitations of asynchronous messaging architectures. The authors present practical advice on designing code that connects an application to a messaging system, and provide extensive information to help you determine when to send a message, how to route it to the proper destination, and how to monitor the health of a messaging system. If you want to know how to manage, monitor, and maintain a messaging system once it is in use, get this book.

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## GUIDE TO WEB DEVELOPMENT WITH JAVA

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### UNDERSTANDING WEBSITE CREATION

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*Springer Nature* This comprehensive Guide to Web Development with Java introduces the readers to the three-tiered, Model-View-Controller architecture by using Spring JPA, JSPs, and Spring MVC controllers. These three technologies use Java, so that a student with a background in programming will be able to master them with ease, with the end result of being able to create web applications that use MVC, validate user input, and save data to a database. **Topics and features:** • Presents web development topics in an accessible, easy-to-follow style, focusing on core information first, and allowing the

reader to gain basic understanding before moving forwards • Contains many helpful pedagogical tools for students and lecturers, such as questions and exercises at the end of each chapter, detailed illustrations, chapter summaries, and a glossary • Uses existing powerful technologies that are freely available on the web to speed up web development, such as Spring Boot, Spring MVC, Spring JPA, Hibernate, JSP, JSTL, and Java 1.8 • Discusses HTML, HTML forms, and Cascading Style Sheets • Starts with the simplest technology for web development (JSP) and gradually introduces the reader to more complex topics • Introduces core technologies from the outset, such as the Model-View-Controller architecture • Includes examples for accessing common web services • Provides supplementary examples and tutorials

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## HADOOP: THE DEFINITIVE GUIDE

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"O'Reilly Media, Inc." Ready to unlock the power of your data? With this comprehensive guide, you'll learn how to build and maintain reliable, scalable, distributed systems with Apache Hadoop. This book is ideal for programmers looking to analyze datasets of any size, and for administrators who want to set up and run Hadoop clusters. You'll find illuminating case studies that demonstrate how Hadoop is used to solve specific problems. This third edition covers recent changes to Hadoop, including material on the new MapReduce API, as well as MapReduce 2 and its more flexible execution model (YARN). Store large datasets with the Hadoop Distributed File System (HDFS) Run distributed computations with MapReduce Use Hadoop's data and I/O building blocks for compression, data integrity, serialization (including Avro), and persistence Discover common pitfalls and advanced features for writing real-world MapReduce programs Design, build, and administer a dedicated Hadoop cluster—or run Hadoop in the cloud Load data from relational databases into HDFS, using Sqoop Perform large-scale data processing with the Pig query language Analyze datasets with Hive, Hadoop's data warehousing system Take advantage of HBase for structured and semi-structured data, and ZooKeeper for building distributed systems

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## PROGRAMMING AWS LAMBDA

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### BUILD AND DEPLOY SERVERLESS APPLICATIONS WITH JAVA

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O'Reilly Media Serverless revolutionizes the way organizations build and deploy software. With this hands-on guide, Java engineers will learn how to use their experience in the new world of serverless computing. You'll discover how this cloud computing execution model can drastically decrease the complexity in developing and operating applications while reducing costs and time to market. Engineering leaders John Chapin and Mike Roberts guide you through the process of developing these applications using AWS Lambda, Amazon's event-driven, serverless computing platform. You'll learn how to prepare the development environment, program Lambda functions, and deploy and operate your serverless software. The chapters include exercises to help you through each aspect of the process. Get an introduction to serverless, functions as a service, and AWS Lambda Learn how to deploy working Lambda functions to the cloud Program Lambda functions and learn how the Lambda platform integrates with other AWS services Build and package Java-based Lambda code and dependencies Create serverless applications by building a serverless API and data pipeline Test your serverless applications using automated techniques Apply advanced techniques to build production-ready applications Understand both the gotchas and new opportunities of serverless architecture

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## "DEAR EVIL TESTER"

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Are you in charge of your own testing? Do you have the advice you need to advance your test approach? "Dear Evil Tester" contains advice about testing that you won't hear anywhere else. "Dear Evil Tester" is a three pronged publication designed to: -provoke not placate, -make you react rather than relax, -help you laugh not languish. Starting gently with the laugh out loud Agony Uncle answers originally published in 'The Testing Planet'. "Dear Evil Tester" then provides new answers, to never before published questions, that will hit your beliefs where they change. Before presenting you with essays that will help you unleash your own inner Evil Tester. With advice on automating, communication, talking at conferences, psychotherapy for testers, exploratory testing, tools, technical testing, and more. Dear Evil Tester randomly samples the Software Testing stonping ground before walking all over it. "Dear Evil Tester" is a revolutionary testing book for the mind which shows you an alternative approach to testing built on responsibility, control and laughter. Read what our early reviewers had to say: "Wonderful stuff there. Real deep." Rob Sabourin, @RobertASabourin Author of "I Am a Bug" "The more you know about software testing, the more you will find to amuse you." Dot Graham, @dorothygraham Author of "Experiences of Test Automation" "laugh-out-loud episodes" Paul Gerrard, @paul\_gerrard Author of "The Tester's Pocketbook" "A great read for every Tester." Andy Glover, @cartoontester Author of "Cartoon Tester"

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## LEARNING JAVA

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"O'Reilly Media, Inc." A tutorial introducing Java basics covers programming principles, integrating applets with Web applications, and using threads, arrays, and sockets.

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## APACHE MAVEN COOKBOOK

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Packt Publishing Ltd If you are a Java developer or a manager who has experience with Apache Maven and want to extend your knowledge, then this is the ideal book for you. Apache Maven Cookbook is for those who want to learn how Apache Maven can be used for build automation. It is also meant for those familiar with Apache Maven, but want to understand the finer nuances of Maven and solve specific problems.

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## MASTERING SPRING 5.0

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Packt Publishing Ltd Develop cloud native applications with microservices using Spring Boot, Spring Cloud, and Spring Cloud Data Flow About This Book Explore the new features and components in Spring Evolve towards micro services and cloud native applications Gain powerful insights into advanced concepts of Spring and Spring Boot to develop applications more effectively Understand the basics of Kotlin and use it to develop a quick service with Spring Boot Who This Book Is For This book is for an experienced Java developer who knows the basics of Spring, and wants to learn how to use Spring Boot to build applications and deploy them to the cloud. What You Will Learn Explore the new features in Spring Framework 5.0 Build microservices with Spring Boot Get to know the advanced features of Spring Boot in order to effectively develop and monitor applications Use Spring Cloud to deploy and manage applications on the Cloud Understand Spring Data and Spring Cloud Data Flow Understand the basics of reactive programming Get to know the best practices when developing applications with the Spring Framework Create a new project using Kotlin and implement a couple of basic services with unit and integration testing In Detail Spring 5.0 is due to arrive with a myriad of new and exciting features that will change the way we've used the framework so far. This book will show you this evolution—from solving the problems of testable applications to building distributed applications on the cloud. The book begins with an insight into the new features in Spring 5.0 and shows you how to build an application using Spring MVC. You will realize how application architectures have evolved from monoliths to those built around microservices. You will then get a thorough understanding of how to build and extend microservices using Spring Boot. You will also understand how to build and deploy Cloud-Native microservices with Spring Cloud. The advanced features of Spring Boot will be illustrated through powerful examples. We will be introduced to a JVM language that's quickly gaining popularity - Kotlin. Also, we will discuss how to set up a Kotlin project in Eclipse. By the end of the book, you will be equipped with the knowledge and best practices required to develop microservices with the Spring Framework. Style and approach This book follows an end-to-end tutorial approach with lots of examples and sample applications, covering the major building blocks of the Spring framework.

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## SEMANTIC SYSTEMS. IN THE ERA OF KNOWLEDGE GRAPHS

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### 16TH INTERNATIONAL CONFERENCE ON SEMANTIC SYSTEMS, SEMANTICS 2020, AMSTERDAM, THE NETHERLANDS, SEPTEMBER 7-10, 2020, PROCEEDINGS

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Springer Nature This open access book constitutes the refereed proceedings of the 16th International Conference on Semantic Systems, SEMANTICS 2020, held in Amsterdam, The Netherlands, in September 2020. The conference was held virtually due to the COVID-19 pandemic.

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## JAVA COOKBOOK

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### SOLUTIONS AND EXAMPLES FOR JAVA DEVELOPERS

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"O'Reilly Media, Inc." From lambda expressions and JavaFX 8 to new support for network programming and mobile development, Java 8 brings a wealth of changes. This cookbook helps you get up to speed right away with hundreds of hands-on recipes across a broad range of Java topics. You'll learn useful techniques for everything from debugging and data structures to GUI development and functional programming. Each recipe includes self-contained code solutions that you can freely use, along with a discussion of how and why they work. If you are familiar with Java basics, this cookbook will bolster your knowledge of the language in general and Java 8's main APIs in particular. Recipes include: Methods for compiling, running, and debugging Manipulating, comparing, and rearranging text Regular expressions for string- and pattern-matching Handling numbers, dates, and times Structuring data with collections, arrays, and other types Object-oriented and functional programming techniques Directory and filesystem operations Working with graphics, audio, and video GUI development, including JavaFX and handlers Network programming on both client and server Database access, using JPA, Hibernate, and JDBC Processing JSON and XML for data storage Multithreading and concurrency