Java 9 Modules

Java 9

Fu Cheng

Java 9:

Java 9 Revealed Kishori Sharan,2017-04-19 Explore the new Java 9 modules SDK JDK JVM JShell and more in this comprehensive book that covers what s new in Java 9 and how to use these new features Java 9 Revealed is for experienced Java programmers looking to migrate to Java 9 Author Kishori Sharan begins by covering how to develop Java applications using the new module system introduced in Java 9 and how to use the JShell tool in Java 9 for prototyping compiling and testing The book provides extensive coverage of new Java 9 features such as the new layout of the modular JDK JRE runtime image new convenience factory methods for creating collections the new spin wait hints introduced to improve performance of spin loops in your code and the new Desktop API for implementing platform specific desktop features Along the way you will also learn how to use the Reactive Streams API in Java 9 and most importantly this book will show you the breaking changes in Java 9 What You ll Learn How JShell facilitates rapid development code evaluation and testing Discover what is new in the Process API Inspect a thread s stack with the Stack Walking API Use the jlink tool to create a custom runtime image Work with HTML5 Javadoc and use the new search feature in Javadoc Learn how to use new methods and collectors in the Streams API Learn how to create a custom logger to log messages from platform classes and how to use JVM logs Learn about new methods in the Optional class and how to use them Learn how to compare arrays and slices of arrays Learn how to use the enhanced try with resources blocks Make your object deserialization more secure by using object deserialization filters Who This Book Is For Experienced Java programmers and developers   *Exploring Java 9* Fu Cheng,2017-12-01 Discover all the new features and changes in Java 9 including module systems JPMS or Project Jigsaw This book covers the whole Java application development life cycle You ll review all the important concepts including module descriptor unnamed module automatic module and command line tools Exploring Java 9 also serves as a practical guide for migration to module systems Code samples from real world scenarios solidify a foundation for learning and development and allow you to apply best practices in actual development Additionally you ll learn about concurrency ECMAScript 6 features in Nashorn and Parser API stack walking API Stream and Optional utilities classes and I O And it s now possible to build modularized applications in Java You ll see how JPMS affects not only the JDK itself but also applications that are developed upon it What You ll Learn Build modularized applications in Java Migrate to module systems Master enhanced method handles Who This Book Is ForJava developers with basic development skills   **Modular Programming in Java 9** Koushik Kothagal,2017-08-29 Kick start your modular programming journey and gear up for the future of Java development About This Book Master design patterns and best practices to build truly modular applications in Java 9 Upgrade your old Java code to Java 9 with ease Build and run a smooth functioning multi module application Who This Book Is For This book is written for Java developers who are interested in learning and understanding the techniques and best practices to build modular applications in Java The book assumes some previous programming experience in Java 8 or earlier familiarity with the basic

Java types such as classes and interfaces as well as experience in compiling and executing Java programs What You Will Learn Get introduced to the concept of modules and modular programming by working on a fully modular Java application Build and configure your own Java 9 modules Work with multiple modules and establish inter module dependencies Understand and use the principles of encapsulation readability and accessibility Use jlink to generate fully loaded custom runtime images like a pro Discover the best practices to help you write awesome modules that are a joy to use and maintain Upgrade your old Java code to use the new Java 9 module system In Detail The Java 9 module system is an important addition to the language that affects the way we design write and organize code and libraries in Java It provides a new way to achieve maintainable code by the encapsulation of Java types as well as a way to write better libraries that have clear interfaces Effectively using the module system requires an understanding of how modules work and what the best practices of creating modules are This book will give you step by step instructions to create new modules as well as migrate code from earlier versions of Java to the Java 9 module system You ll be working on a fully modular sample application and add features to it as you learn about Java modules You ll learn how to create module definitions setup inter module dependencies and use the built in modules from the modular JDK You will also learn about module resolution and how to use jlink to generate custom runtime images We will end our journey by taking a look at the road ahead You will learn some powerful best practices that will help you as you start building modular applications You will also learn how to upgrade an existing Java 8 codebase to Java 9 handle issues with libraries and how to test Java 9 applications Style and Approach The book is a step by step guide to understanding Modularity and building a complete application using a modular design **Beginning Java 9 Fundamentals** Kishori Sharan,2017-11-01 Learn the basics of Java 9 including basic programming concepts and the object oriented fundamentals necessary at all levels of Java development Author Kishori Sharan walks you through writing your first Java program step by step Armed with that practical experience you ll be ready to learn the core of the Java language Beginning Java 9 Fundamentals provides over 90 diagrams and 240 complete programs to help you learn the topics faster The book continues with a series of foundation topics including using data types working with operators and writing statements in Java These basics lead onto the heart of the Java language object oriented programming By learning topics such as classes objects interfaces and inheritance you ll have a good understanding ofJava s object oriented model The final collection of topics takes what you ve learned and turns you into a real Java programmer You ll see how to take the power of object oriented programming and write programs that can handle errors and exceptions process strings and dates format data and work with arrays to manipulate data This book is a companion to two other books also by Sharan focusing on APIs and advanced Java topics What You ll Learn Write your first Java programs with an emphasis on learning object oriented programming in Java Work with data types operators statements classes and objects Handle exceptions assertions strings and dates and object formatting Use regular expressions Work with arrays interfaces enums and inheritance Take advantage

of the new JShell REPL tool Who This Book Is For Those who are new to Java programming who may have some or even no prior programming experience   *Java 9 Modularity Revealed* Alexandru Jecan,2017-09-27 Develop modular applications using the Java Platform Module System the single most anticipated feature in Java 9 You will improve maintainability and performance of your Java applications by deploying only modules that are needed and encapsulating their implementation details Until now Java has been monolithic Using any one part of Java has meant incorporating the entirety of the runtime environment an approach ill suited to the increasing number of IoT devices such as fitness monitors kitchen appliances toys and games and so forth This book shows a new way to make Java scale from the smallest of footprints in the smallest of devices through desktop PCs and on up to server platforms With Java 9 Modularity Revealed you will learn to make your projects more reliable and scalable than ever using the most important feature in Java 9 The Java Platform Module System known more commonly as Project Jigsaw You will learn how to avoid one of the major pain points of Java programming that of conflicting class names from different modules or packages You will learn to create custom run time images that represent a minimal and more compact JRE containing only those modules that you need You will further learn to migrate existing Java applications to modular ones using different approaches and tools The end result is a new ability to plug together different modules without fear of namespace and other conflicts and you can deploy to everything from small devices to large servers This book provides code examples and explanations What You ll Learn Build Java applications using the new modular system introduced in Java 9 Create your own JRE consisting only of the modules that you require Adapt your testing techniques toward modular applications lare your dependencies on other modules Enable modules to export only specific packages Migrate existing Java applications to modular ones Improve maintainability and performance of Java applications Who This Book Is For Experienced Java programmers wanting to keep up and become informed on the new modularity support in Java 9   **Exploring Java 9** Fu Cheng,2018-01-02 Discover all the new features and changes in Java 9 including module systems JPMS or Project Jigsaw This book covers the whole Java application development life cycle You ll review all the important concepts including module descriptor unnamed module automatic module and command line tools Exploring Java 9 also serves as a practical guide for migration to module systems Code samples from real world scenarios solidify a foundation for learning and development and allow you to apply best practices in actual development Additionally you ll learn about concurrency ECMAScript 6 features in Nashorn and Parser API stack walking API Stream and Optional utilities classes and I O And it s now possible to build modularized applications in Java You ll see how JPMS affects not only the JDK itself but also applications that are developed upon it What You ll Learn Build modularized applications in Java Migrate to module systems Master enhanced method handles Who This Book Is ForJava developers with basic development skills   **Publication** Rockefeller Foundation. International Health Board,1920   The India-rubber Journal ,1911   Records of the Proceedings and Printed Papers of the Parliament Australia. Parliament,1906   *Review of Applied Mycology* ,1923 Vol 24 has a special

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