

Java 9 Modules



Java 9

Java 9

Liyong Dong



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 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,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

Java in Easy Steps Mike McGrath,2004

Java 9: Building Robust Modular Applications Dr. Edward Lavieri,Peter Verhas,Jason Lee,2018-04-13 Mastering advanced features of Java and implement them to build amazing projects Key Features Take advantage of Java s new modularity features to write real world applications that solve a variety of problems Explore the major concepts introduced with Java 9 including modular programming HTTP 2 0 API changes and more Get to grips with tools techniques and best practices to enhance application development Book Description Java 9 and its new features add to the richness of the language Java is one of the languages most used by developers to build robust software applications Java 9 comes with a special emphasis on modularity with its integration with Jigsaw This course is your one stop guide to mastering the language You ll be provided with an overview and explanation of the new features introduced in Java 9 and the importance of the new APIs and enhancements Some new features of Java 9 are ground breaking if you are an experienced programmer you will be able to make your enterprise applications leaner by learning these new features You ll be provided with practical guidance in applying your newly acquired knowledge of Java 9 and further information on future developments

of the Java platform This course will improve your productivity making your applications faster Next you'll go on to implement everything you've learned by building 10 cool projects You will learn to build an email filter that separates spam messages from all your inboxes a social media aggregator app that will help you efficiently track various feeds and a microservice for a client server note application to name just a few By the end of this course you will be well acquainted with Java 9 features and able to build your own applications and projects This Learning Path contains the best content from the following two recently published Packt products Mastering Java 9 Java 9 Programming Blueprints What you will learn Package Java applications as modules using the Java Platform Module System Implement process management in Java using the all new process handling API Integrate your applications with third party services in the cloud Interact with mail servers using JavaMail to build an application that filters spam messages Use JavaFX to build rich GUI based applications which are an essential element of application development Leverage the possibilities provided by the newly introduced Java shell Test your application's effectiveness with the JVM harness See how Java 9 provides support for the HTTP 2.0 standard Who this book is for This learning path is for Java developers who are looking to move a level up and learn how to build robust applications in the latest version of Java

Java 9 Programming By Example Peter Verhas, 2017-04-26 Get the steps you need to discover the world of Java 9 programming using real world examples About This Book We bridge the gap between learning and doing by providing real world examples that will improve your software development Our example based approach will get you started quickly with software programming get you up to speed with Java 9 and improve your Java skills This book will show you the best practices of Java coding and improve your productivity Who This Book Is For This book is for anyone who wants to learn the Java programming language You are expected to have some prior programming experience with another language such as JavaScript or Python but no knowledge of earlier versions of Java is assumed What You Will Learn Compile package and run a trivial program using a build management tool Get to know the principles of test driven development and dependency management Separate the wiring of multiple modules from the application logic into an application using dependency injection Benchmark Java execution using Java 9 microbenchmarking See the workings of the Spring framework and use Java annotations for the configuration Master the scripting API built into the Java language and use the built in JavaScript interpreter Understand static versus dynamic implementation of code and high order reactive programming in Java In Detail This book gets you started with essential software development easily and quickly guiding you through Java's different facets By adopting this approach you can bridge the gap between learning and doing immediately You will learn the new features of Java 9 quickly and experience a simple and powerful approach to software development You will be able to use the Java runtime tools understand the Java environment and create Java programs We then cover more simple examples to build your foundation before diving to some complex data structure problems that will solidify your Java 9 skills With a special focus on modularity and HTTP 2.0 this book will guide you to get employed as a top notch Java

developer By the end of the book you will have a firm foundation to continue your journey towards becoming a professional Java developer Style and approach Throughout this book our aim is to build Java programs We will be building multiple applications ranging from simpler ones to more complex ones Learning by doing has its advantages as you will immediately see the concepts explained in action

Exporters' Encyclopaedia ,1916 Material is arranged geographically For each country there is a country profile followed by information on marketing data communications transportation business travel key contacts and a summary trade regulations and documentation required Also included are brief sections on U S ports U S foreign trade zones World Trade Center Association members U S government agencies providing assistance to exporters foreign trade organizations foreign communications and general exports and shipping information and practice

The Prosobranchia, Pulmonata and Opisthobranchia Tectibranchiata, Tribe Bullomorpha of the Siboga Expedition Mattheus Marinus Schepman,1911

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