

Jason Lee

Java 9 Programming Blueprints

Implement new features such as modules, the process handling API, REPL, and many more to build end-to-end applications in Java 9



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Java 9 Programming Blueprints

Java is a powerful language that has applications in a wide variety of fields. From playing games on your computer to performing banking transactions, Java is at the heart of everything.

The book starts by unveiling the new features of Java 9 and quickly walks you through the building blocks that form the basis of writing applications. There are 10 comprehensive projects in the book that will showcase the various features of Java 9. 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 a few. The book covers various libraries and frameworks in these projects, and also introduces a few more frameworks that complement and extend the Java SDK.

Through the course of building applications, this book will not only help you get to grips with the various features of Java 9, but will also teach you how to design and prototype professional-grade applications with performance and security considerations.

Things you will learn:

- Learn how to package Java applications as modules by using the Java Platform Module System
- Implement process management in Java by 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
- Learn to use JavaFX to build rich GUI based applications, which are an essential element of application development
- Write microservices in Java using platform libraries and third-party frameworks
- Integrate a Java application with MongoDB to build a cloud-based note taking application

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BIRMINGHAM - MUMBAI

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About the Author

Jason Lee has been writing software professionally for over 20 years, but his love for computers started over a decade earlier, in the fourth grade, when his dad brought home a Commodore 64. He has been working with Java for almost his entire career, with the last 12+ years focused primarily on Enterprise Java. He has written in-house web applications and libraries, and also worked on large, more public projects, such as the JavaServer Faces reference implementation Mojarra, GlassFish, and WebLogic Server.

Jason is currently the President of the Oklahoma City Java Users Group, and is an occasional speaker at conferences. Ever the technology enthusiast, his current interests include cloud computing, mobile development, and emerging JVM languages.

Apart from work, Jason enjoys spending time with his wife, Angela, and his two sons, Andrew and Noah. He is active in the music ministry of his local church, and enjoys reading, running, martial arts, and playing his bass guitar.

Everyone told me that writing a book is hard, and they weren't kidding! There's no way I could have done this without the love and support of my beautiful wife, Angela, who was patient and supportive during all of my late nights and long weekends, and was kind enough to read through every last page, helping me clean things up.

My two awesome sons, Andrew and Noah, also deserve huge thanks. There were certainly many nights when I was locked away in my office instead of spending time with you. I appreciate your understanding and patience during this project, and I hope this is something we can all be proud of together.

Angela, Andrew, and Noah, this is for you. I love you all!

About the Reviewer

Dionisios Petrakopoulos has worked in several companies using different technologies and programming languages, such as C, C++, Java SE, Java EE, and Scala, as a senior software engineer for the past 15 years. His main interest is the Java ecosystem and the various facets of it. His other area of interest is information security, especially cryptography. He holds a BSc degree in computer science and an MSc degree in information security, both from Royal Holloway, University of London. He is also the technical reviewer of the book *Learning Modular Java Programming* by Packt.

I would like to thank my wife Anna for her support and love.

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