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Clojure For Java Developers

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Clojure for Java Developers

Transition smoothly from Java to the most widely used functional JVM-based language – Clojure

Eduardo Díaz

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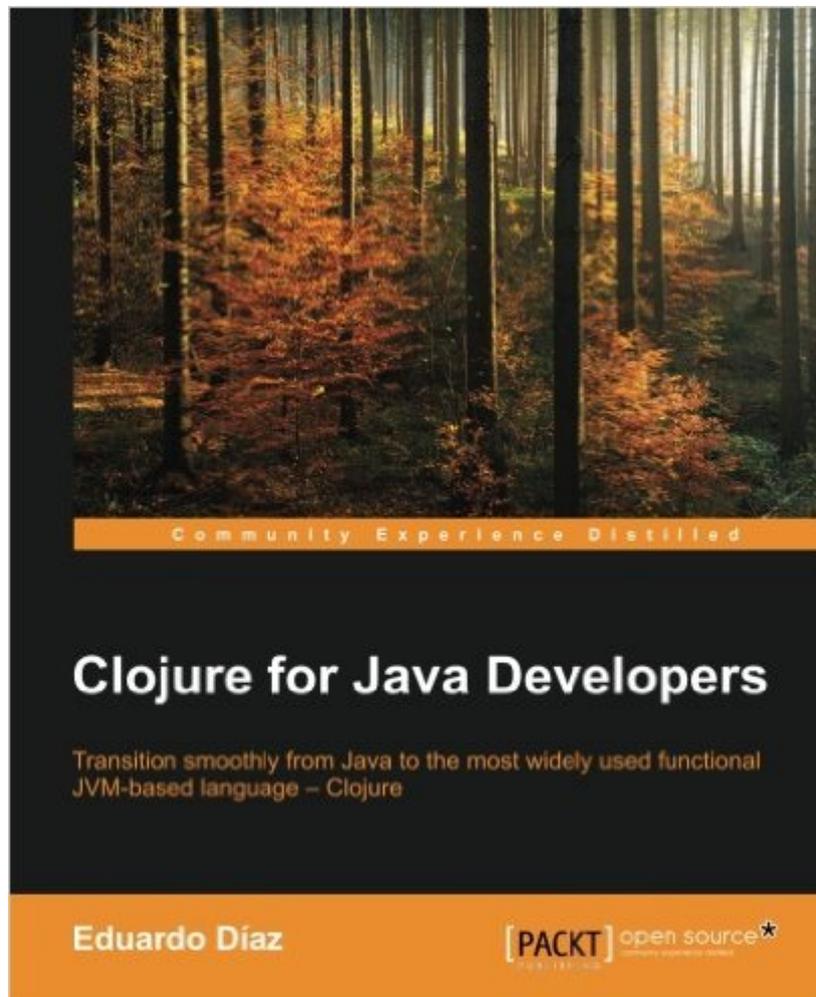
Synopsis

Key FeaturesWrite apps for the multithreaded world with Clojure's flavor of functional programmingDiscover Clojure's features and advantages and use them in your existing projectsThe book is designed so that you'll be able put to use your existing skills and software knowledge to become a more effective Clojure developerBook DescriptionWe have reached a point where machines are not getting much faster, software projects need to be delivered quickly, and high quality in software is more demanding as ever.We need to explore new ways of writing software that helps achieve those goals. Clojure offers a new possibility of writing high quality, multi-core software faster than ever, without having to leave your current platform.Clojure for Java developers aims at unleashing the true potential of the Clojure language to use it in your projects. The book begins with the installation and setup of the Clojure environment before moving on to explore the language in-depth. Get acquainted with its various features such as functional programming, concurrency, etc. with the help of example projects. Additionally, you will also, learn how the tooling works, and how it interacts with the Java environment.By the end of this book, you will have a firm grip on Clojure and its features, and use them effectively to write more robust programs.What you will learnUnderstand the tools for the Clojure world and how they relate to Java tools and standards (like Maven)Learn about immutable data structures, and what makes them feasible for everyday programmingWrite simple multi-core programs using Clojure's core concepts, like atoms, agents and refsUnderstand that in Clojure, code is data, and how to take advantage of that fact by generating and manipulating code with macrosLearn how Clojure interacts with Java, how the class loaders work and how to use Clojure from Java or the other way aroundDiscover a new, more flexible meaning of polymorphism and understand that OOP is not the only way to get itAbout the AuthorEduardo Diaz is a developer with a strong background in the Java language. He has a passion for functional programming and new programming paradigms. His work includes full stack development, systems design, and high volume real time data processing.He has worked on every technology related problem you can imagine, as a consultant solving anything related to Java, UNIX, C, or any other strange problem you might have had.As a developer, he has been working for around 10 years on Java, Python, Scala, Clojure, in the media, bank, and primarily communications industries.He is currently working at Grupo Expansion, a media company, where he helps design and implement a new content delivery platform aiming to empower content editors and encourage developers to find new ways to use data.Table of ContentsGetting Started with ClojureNamespaces, Packages, and TestsInteracting with JavaCollections and Functional ProgrammingMultimethods and ProtocolsConcurrencyMacros in Clojure

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