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   Sommario/riassunto    Explore the world of lightning fast Clojure apps with asynchronous channels, logic, reactive programming, and more About This Book Discover Clojure's features and advantages and use them in your existing projects Explore lesser-known and more advanced features, constructs, and methodologies such as asynchronous channels, actors, logic programming, and reactive programming Measure and monitor performance, and understand optimization techniques Who This Book Is For If you're looking to learn more about its core libraries and delve into the Clojure language in detail, then this book is ideal for you. Prior knowledge of the Clojure language is required. What You Will Learn Understand tools for the Clojure world and how they relate to Java tools and standards (such as Maven) Write simple multicore programs using Clojure's core concepts, such as atoms, agents, and refs Get to grips with Clojure's concurrency and state-management primitives in depth Analyze latency using the Criterium library Avoid reflection and boxing with type hints Maximize the impact of parallelization, functional composition, and process transformation by composing reducers and transducers Modify and add features to the Clojure language using

macros Test your code with unit tests, specs, and type checks to write testable code Troubleshoot and style your Clojure code to make it more maintainable In Detail Clojure is a general-purpose language from the Lisp family with an emphasis on functional programming. It has some interesting concepts and features such as immutability, gradual typing, thread-safe concurrency primitives, and macro-based metaprogramming, which makes it a great choice to create modern, performant, and scalable applications. This learning path aims at unleashing the true potential of the Clojure language so you can use it in your projects. It begins with installing and setting up the Clojure environment before moving on to explore the language in depth. You'll get acquainted with its various features such as functional programming, concurrency, reducers, transducers, core.async and core. logic, and so on with a great level of detail. Moving on, you'll also learn how to enhance performance using Java interoperability and JVM-specific features from Clojure; you'll even master language features such as asynchronous channels, actors, logic programming, reactive programming, metaprogramming, and so on. This learning path combines some of the best that Packt has to off...