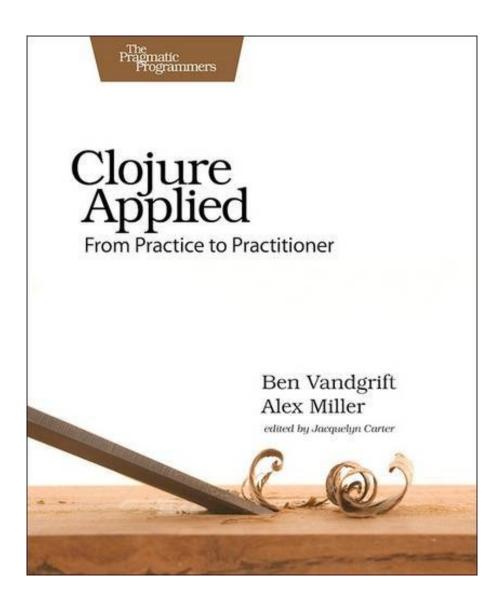


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Review

"Starting your first Clojure job? Kicking off your first big open source Clojure project? This is the book you need to get started building Clojure projects." - Bridget Hillyer

"While other Clojure books enumerate the beautiful, pristine qualities derived from immutability and functional programming, this book is about getting your hands very dirty. Clojure Applied takes you step by step through the process of designing, writing, and shipping robust high-performance production systems." - David Nolen

About the Author

Ben Vandgrift struggles daily with a compulsion to solve problems. His decades-old journey has most recently led him to Clojure, allowing him to solve many software problems elegantly and efficiently. He works as a software engineer when he's not being mauled by his rescue panther.

Alex Miller was about to give up on programming as irretrievably complex when he found Clojure, which renewed his love for code. Alex works by day on improving Clojure and spends his off hours organizing the Strange Loop conference and playing music with his kids.

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Think in the Clojure way! Once you're familiar with Clojure, take the next step with extended lessons on the best practices and most critical decisions you'll need to make while developing. Learn how to model your domain with data, transform it with pure functions, manage state, spread your work across cores, and structure apps with components. Discover how to use Clojure in the real world, and unlock the speed and power of this beautiful language on the Java Virtual Machine.

Clojure Applied gives you the practical, realistic advice and depth of field that's been missing from your development practice. You want to develop software in the most effective, efficient way possible. This book gives you the answers you've been looking for in friendly, clear language.

Dive into the core concepts of Clojure: immutable collections, concurrency, pure functions, and state management. You'll finally get the complete picture you've been looking for, rather than dozens of puzzle pieces you must assemble yourself. First, explore the core concepts of Clojure development: learn how to model your domain with immutable data; choose the ideal collection; and write simple, pure functions for efficient transformation. Next you'll apply those core concepts to build applications: discover how Clojure manages state and identity; spread your work for concurrent programming; and create and assemble components. Finally, see how to manage external integration and deployment concerns by developing a testing strategy, connecting with other data sources, and getting your libraries and applications out the door.

Go beyond the toy box and into Clojure's way of thinking. By the end of this book, you'll have the tools and information to put Clojure's strengths to work.

What You Need:

To follow along with the examples in the book, you will need Clojure 1.6, Leinegen 2, and Java 6 or higher.

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Most helpful customer reviews

17 of 17 people found the following review helpful.

Learn to use Clojure like an expert

By Mark E.

Clojure Applied fills an important niche in the ecosystem of Clojure books by doing a couple things really, really well:

- 1. The book conveys how to write programs in "Clojure style" exhibiting good judgment and taste. Clojure is not an especially difficult language to learn in terms of its constructs and syntax, but for many newcomers, it is difficult to learn how think and solve problems in the natural Clojure way. Furthermore, there are often several features in Clojure with overlapping functionality (e.g., protocols vs multimethods, records vs maps), and this book provides clear guidelines about the tradeoffs and which features are better to use when.
- 2. The book is quite open about a number of "gotchas" in the language, and helps you avoid those pitfalls.

Overall, the book is the next best thing to pairing with an expert Clojure programmer, and will likely shave months off of your Clojure ramp-up time.

I rated the book 5 stars because there's nothing else on the market that offers exactly what this book does, and I consider this book an important step forward for the Clojure community. However, I should note that the book is by no means perfect. There is still room for improvement:

- * Chapter 6 is too high-level, and doesn't give enough specific examples. For example, the chapter talks about the importance in large projects of breaking out protocols, data structures, and implementations into separate namespaces, but doesn't really show how to do this. I personally have found it incredibly difficult to break large projects into separate namespaces without creating cyclic dependencies, and I consider this a real weakness of Clojure. Yet, I've heard Alex Miller and a few others say it's not really a big deal to accomplish this separation of concerns without creating cyclic dependencies. I was truly looking forward to discovering from this book how he pulls that off, figure out what he does differently than I, but the book contained no concrete details on this important matter.
- * No discussion of debugging strategies, and what does and does not work for debugging when using Clojure on large-scale projects. Specifically, I expected this book to address the question of how to handle errors in core.async-driven programs. It is not at all obvious how to use channels in a robust way that is fault-tolerant,

and given the amount of coverage this book gives to core.async, fault tolerance should also have been covered.

* There were a few random things that I thought were misleading and could benefit from an additional sentence or two of clarification. For example, "The keep function combines the capabilities of map and filter in one convenient package, applying a function to each element and keeping any non-nil results." The problem with this sentence is that if you combine map and filter, you would end up keeping all non-falsey results, not all non-nil results. I think most readers will either not notice the clarifying "non-nil" and think keep works just like map+filter, or they will notice "non-nil" but incorrectly assume that filter behaves the same way and filters out nil values (as opposed to all falsey values).

7 of 7 people found the following review helpful.

Great resource for the intermediate clojure developer.

By Nola Stowe

I think I have all the beginning clojure books and have been studying them for a year, I was excited to hear about this book being written for intermediate clojure and waited anxiously for publication. The book did not disappoint. It teaches you how to do clojure in the real world with practical application. From modeling your domain, to using components to create your application and how to deploy it. The examples are fun (modeling planets) and somewhat practical (change from oz to pounds for a recipe). I also really liked the section on organizing your application. This is a great book for the intermediate clojure developer who is looking to move beyond the basics. Highly Recommend!!

8 of 9 people found the following review helpful.

For me this has been the best. I have met Alex Miller in person and ...

By Ken M

I've gone through quite a few Clojure tutorials/online resources/books by now... For me this has been the best.

I have met Alex Miller in person and have taken a couple day course from him (which was absolutely excellent). It isn't surprising to me that this book ended up being as clear in text as he can be in person doing presentations.

Overall I feel like the information from this book is really essential for me as my team moves forward in our Clojure projects. It has helped me get to the next level in my learning and application of Clojure to our projects, and it bridges a lot of gaps for me between several intro tutorials and real-life work.

Anyhow I definitely recommend this book, for me it's a required modest investment in my journey.

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