



Programming Elixir 1.3: Functional |> Concurrent |> Pragmatic |> Fun

Dave Thomas

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Explore functional programming without the academic overtones (tell me about monads just one more time). Create concurrent applications, but get them right without all the locking and consistency headaches. Meet Elixir, a modern, functional, concurrent language built on the rock-solid Erlang VM. Elixir's pragmatic syntax and built-in support for metaprogramming will make you productive and keep you interested for the long haul. Maybe the time is right for the Next Big Thing. Maybe it's Elixir. This book is *the* introduction to Elixir for experienced programmers, completely updated for Elixir 1.3.

Functional programming techniques help you manage the complexities of today's real-world, concurrent systems; maximize uptime; and manage security. Enter Elixir, with its modern, Ruby-like, extendable syntax, compile and runtime evaluation, hygienic macro system, and more. But, just as importantly, Elixir brings a sense of enjoyment to parallel, functional programming. Your applications become fun to work with, and the language encourages you to experiment.

Part 1 covers the basics of writing sequential Elixir programs. We'll look at the language, the tools, and the conventions. Part 2 uses these skills to start writing concurrent code-applications that use all the cores on your machine, or all the machines on your network! And we do it both with and without OTP. Part 3 looks at the more advanced features of the language, from DSLs and code generation to extending the syntax.

This edition is fully updated with all the new features of Elixir 1.3, with a new chapter on Tooling, covering testing (both conventional and property based), code and dependency exploration, and server monitoring. By the end of this book, you'll understand Elixir, and know how to apply it to solve your complex, modern problems.

What You Need:

You'll need a computer, a little experience with another high-level language, and a sense of adventure. No functional programming experience is needed.

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