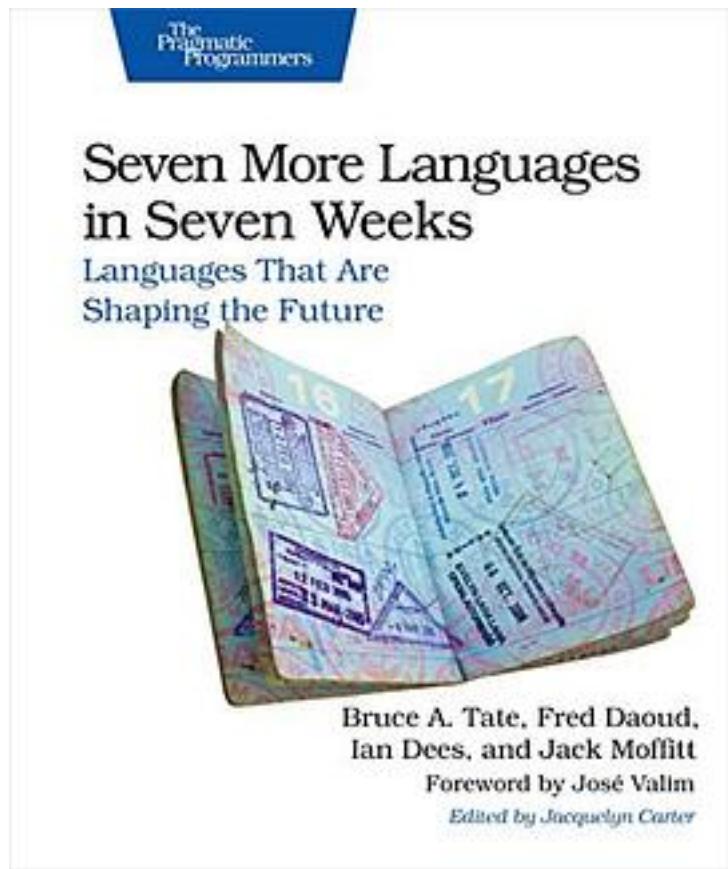


# Seven More Languages in Seven Weeks



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Learn from the award-winning programming series that inspired the Elixir language. Hear how other programmers across broadly different communities solve problems important enough to compel language development. Expand your perspective, and learn to solve multicore and distribution problems.

In each language, you'll solve a non-trivial problem, using the techniques that make that language special. Write a fully functional game in Elm, without a single callback, that compiles to JavaScript so you can deploy it in any browser. Write a logic program in Clojure using a programming model, MiniKanren, that is as powerful as Prolog but much better at interacting with the outside world. Build a distributed program in Elixir with Lisp-style macros, rich Ruby-like syntax, and the richness of the Erlang virtual machine. Build your own object layer in Lua, a statistical program in Julia, a proof in code with Idris, and a quiz game in Factor.

When you're done, you'll have written programs in five different programming paradigms that were written on three different continents. You'll have explored four languages on the leading edge, invented in the past five years, and three more radically different languages, each with something significant to teach you.

作者介绍:

Bruce Tate, CTO of [icanmaketibetter.com](http://icanmaketibetter.com), is a mountain biker, climber, and father of two from Austin, Texas. He is the author of more than ten books, including *Seven Languages in Seven Weeks*, and is the series editor of the *Seven in Seven* series.

By day, Ian Dees slings code, tests, and puns at a Portland-area test equipment manufacturer. By night, he converts espresso into programming books, including *Cucumber Recipes*. Ian tweets as @undees.

Fred Daoud is a truly passionate developer who loves functional programming. He coauthored *Seven Web Frameworks in Seven Weeks* with Jack Moffitt.

Jack Moffitt falls in love with languages easily. He is a senior research engineer at Mozilla Research and works on Servo, an experimental browser engine written in Mozilla's new Rust language.

目录: This book is currently in beta, so the contents and extracts will change as the book is developed.

Foreword

Introduction

The Lay of the Land

Bruce Tate (Elixir and Elm)

Fred Daoud (Factor)

Ian Dees (Lua, Idris)

Jack Moffit (Julia, miniKanren)

Who Should Read This Book

A Final Charge

Online Resources

Lua

Day 1: The Call to Adventure

Day 2: Tables All the Way Down

Day 3: Lua and the World

Wrapping Up Lua

Factor

Day 1: Stack On, Stack Off

Day 2: Painting the Fence

Day 3: Balancing on a Boat

Wrapping Up Factor

Elm

Day 1: Handling the Basics

Day 2: Taming Callbacks excerpt

Day 3: It's All a Game

Wrapping Up Elm

Elixir

Day 1: Laying a Great Foundation excerpt

Day 2: Controlling Mutations

Day 3: Spawning and Respawning

Wrapping Up Elixir

Julia

miniKanren

Day 1: Unified Theories of Code

Day 2: Mixing the Logical and Functional

Day 3: Writing Stories with Logic excerpt

Wrapping Up miniKanren

Idris

Wrapping Up

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标签

编程

Programming

计算机

程序设计

2014

软件开发

新技术

ce

## 评论

这本比上一本中的语言小众多了。编程语言确实非常多，但主流、常用的也确实只有那么几个。再多就太小众了。

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Lua 作为易读简洁的也可用作嵌入式设备的脚本语言，在游戏领域用得较多。Factor 的语法则更符合数据操作流程。ELm 则是 Haskell 化后来代替 JS 的，而且不再用 callback 而是通过消息传递来做，而且能很好的做 reactive programming。Elixir 衍生于 Erlang，也受 Ruby 影响，但没有 Scala 等那么复杂的类型系统。Julia 以后就是科学计算领域的 dominator，性能如 C 一样好，操作如 Matlab、R 等一样便捷。miniKanren 则是 Clojure 里的 Logic programming language，不像 Prolog 那么局限，而能做更通用的编程。Idris 是动态的有类型语言，所以也就有对应的优劣。

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## 书评

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