

The
Pragmatic
Programmers

Programming Phoenix LiveView

Interactive Elixir Web Programming
Without Writing Any JavaScript



Bruce A. Tate and Sophie DeBenedetto
edited by Jacquelyn Carter

Programming Phoenix

Marcel A. Müller



Programming Phoenix:

Programming Phoenix 1.4 Chris McCord, Bruce Tate, Jose Valim, 2019-10-02 Don't accept the compromise between fast and beautiful; you can have it all. Phoenix creator Chris McCord, Elixir creator Jose Valim, and award-winning author Bruce Tate walk you through building an application that's fast and reliable. At every step, you'll learn from the Phoenix creators not just what to do but why. Packed with insider insights and completely updated for Phoenix 1.4, this definitive guide will be your constant companion in your journey from Phoenix novice to expert as you build the next generation of web applications. Phoenix is the long-awaited web framework based on Elixir, the highly concurrent language that combines a beautiful syntax with rich metaprogramming. The best way to learn Phoenix is to code, and you'll get to attack some interesting problems. Start working with controllers, views, and templates within the first few pages. Build an in-memory context and then back it with an Ecto database layer complete with changesets and constraints that keep readers informed and your database integrity intact. Craft your own interactive application based on the Channels API for the real-time applications that this ecosystem made famous. Write your own authentication plugs and use the OTP layer for supervised services. Organize code with modular umbrella projects. This edition is fully updated for Phoenix 1.4 with a new chapter on using Channel Presence to find out who's connected even on a distributed application. Use the new generators and the new ExUnit features to organize tests and make Ecto tests concurrent. This is a book by developers and for developers, and we know how to help you ramp up quickly. Any book can tell you what to do. When you've finished this one, you'll also know why to do it. What You Need To Work Through: this book you will need a computer capable of running Erlang 18 or higher, Elixir 1.5 or higher, and Phoenix 1.4 or higher. A rudimentary knowledge of Elixir is also highly recommended.

Programming Phoenix 1.4 Chris McCord, 2019. Don't accept the compromise between fast and beautiful; you can have it all. Phoenix creator Chris McCord, Elixir creator Jose Valim, and award-winning author Bruce Tate walk you through building an application that's fast and reliable. At every step, you'll learn from the Phoenix creators not just what to do but why. Packed with insider insights and completely updated for Phoenix 1.4, this definitive guide will be your constant companion in your journey from Phoenix novice to expert as you build the next generation of web applications. Phoenix is the long-awaited web framework based on Elixir, the highly concurrent language that combines a beautiful syntax with rich metaprogramming. The best way to learn Phoenix is to code, and you'll get to attack some interesting problems. Start working with controllers, views, and templates within the first few pages. Build an in-memory context and then back it with an Ecto database layer complete with changesets and constraints that keep readers informed and your database integrity intact. Craft your own interactive application based on the Channels API for the real-time applications that this ecosystem made famous. Write your own authentication plugs and use the OTP layer for supervised services. Organize code with modular umbrella projects. This edition is fully updated for Phoenix 1.4 with a new chapter on using Channel Presence to find out who's connected even on a distributed application. Use the new generators and the new

ExUnit features to organize tests and make Ecto tests concurrent This is a book by developers and for developers and we know how to help you ramp up quickly Any book can tell you what to do When you've finished this one you'll also know why to do it What You Need To work through this book you will need a computer capable of running Erlang 18 or higher Elixir 1.5 or higher and Phoenix 1.4 or higher A rudimentary knowledge of Elixir is also highly recommended *Programming Ecto* Darin Wilson, Eric Meadows-Jonsson, 2019-04-01 Languages may come and go but the relational database endures Learn how to use Ecto the premier database library for Elixir to connect your Elixir and Phoenix apps to databases Get a firm handle on Ecto fundamentals with a module by module tour of the critical parts of Ecto Then move on to more advanced topics and advice on best practices with a series of recipes that provide clear step by step instructions on scenarios commonly encountered by app developers Co authored by the creator of Ecto this title provides all the essentials you need to use Ecto effectively Elixir and Phoenix are taking the application development world by storm and Ecto the database library that ships with Phoenix is going right along with them There are plenty of examples that show you the basics but to use Ecto to its full potential you need to learn the library from the ground up This definitive guide starts with a tour of the core features of Ecto repos queries schemas changesets transactions gradually building your knowledge with tasks of ever increasing complexity Along the way you'll be learning by doing a sample application handles all the boilerplate so you can focus on getting Ecto into your fingers Build on that core knowledge with a series of recipes featuring more advanced topics Change your pooling strategy to maximize your database's efficiency Use nested associations to handle complex table relationships Add streams to handle large result sets with ease Based on questions from Ecto users these recipes cover the most common situations developers run into Whether you're new to Ecto or already have an app in production this title will give you a deeper understanding of how Ecto works and help make your database code cleaner and more efficient What You Need To follow along with the book you should have Erlang OTP 19 and Elixir 1.4 installed The book will guide you through setting up a sample application that integrates Ecto [Learn Functional Programming with Elixir](#) Ulisses Almeida, 2018-02-23 Elixir's straightforward syntax and this guided tour give you a clean simple path to learn modern functional programming techniques No previous functional programming experience required This book walks you through the right concepts at the right pace as you explore immutable values and explicit data transformation functions modules recursive functions pattern matching high order functions polymorphism and failure handling all while avoiding side effects Don't board the Elixir train with an imperative mindset To get the most out of functional languages you need to think functionally This book will get you there Functional programming offers useful techniques for building maintainable and scalable software that solves today's difficult problems The demand for software written in this way is increasing you don't want to miss out In this book you'll not only learn Elixir and its features you'll also learn the mindset required to program functionally Elixir's clean syntax is excellent for exploring the critical skills of using functions and concurrency Start with the basic techniques of the functional way working

with immutable data transforming data in discrete steps and avoiding side effects Next take a deep look at values expressions functions and modules Then extend your programming with pattern matching and flow control with case if cond and functions Use recursive functions to create iterations Work with data types such as lists tuples and maps Improve code reusability and readability with Elixir s most common high order functions Explore how to use lazy computation with streams design your data and take advantage of polymorphism with protocols Combine functions and handle failures in a maintainable way using Elixir features and libraries Learn techniques that matter to make code that lives harmoniously with the language What You Need You ll need a computer and Elixir 1 4 or newer version installed No previous functional programming or Elixir experience is required Some experience with any programming language is recommended

Programming Phoenix Chris McCord,Bruce Tate,Jose Valim,2016-04-20 Don t accept the compromise between fast and beautiful you can have it all Phoenix creator Chris McCord Elixir creator Jose Valim and award winning author Bruce Tate walk you through building an application that s fast and reliable At every step you ll learn from the Phoenix creators not just what to do but why Packed with insider insights this definitive guide will be your constant companion in your journey from Phoenix novice to expert as you build the next generation of web applications Phoenix is the long awaited web framework based on Elixir the highly concurrent language that combines a beautiful syntax with rich metaprogramming The authors who developed the earliest production Phoenix applications will show you how to create code that s easier to write test understand and maintain The best way to learn Phoenix is to code and you ll get to attack some interesting problems Start working with controllers views and templates within the first few pages Build an in memory repository and then back it with an Ecto database layer Learn to use change sets and constraints that keep readers informed and your database integrity intact Craft your own interactive application based on the channels API for the real time high performance applications that this ecosystem made famous Write your own authentication components called plugs and even learn to use the OTP layer for monitored reliable services Organize your code with umbrella projects so you can keep your applications modular and easy to maintain This is a book by developers and for developers and we know how to help you ramp up quickly Any book can tell you what to do When you ve finished this one you ll also know why to do it What You Need To work through this book you will need a computer capable of running Erlang 17 or better Elixir 1 1 or better Phoenix 1 0 or better and Ecto 1 0 or better A rudimentary knowledge of Elixir is also highly recommended

Functional Programming: A PragPub Anthology Michael Swaine,2017-07-20 Explore functional programming and discover new ways of thinking about code You know you need to master functional programming but learning one functional language is only the start In this book through articles drawn from PragPub magazine and articles written specifically for this book you ll explore functional thinking and functional style and idioms across languages Led by expert guides you ll discover the distinct strengths and approaches of Clojure Elixir Haskell Scala and Swift and learn which best suits your needs Contributing authors Rich Hickey Stuart Halloway Aaron

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Genetic Algorithms and Machine Learning for Programmers Frances

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Computerworld ,1986-04-14

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Fred Hebert,2019-01-17 Property based testing helps you create better more solid tests with little code By using the PropEr framework in both Erlang and Elixir this book teaches you how to automatically generate test cases test stateful programs and change how you design your software for more principled and reliable approaches You will be able to better explore the problem space validate the assumptions you make when coming up with program behavior and expose unexpected weaknesses in your design PropEr will even show you how to reproduce the bugs it found With this book you will be writing efficient property based tests in no time Most tests only demonstrate that the code behaves how the developer expected it to behave and therefore carry the same blind spots as their authors when special conditions or edge cases show up Learn how to see things differently with property tests written in PropEr Start with the basics of property tests such as writing stateless properties and using the default generators to generate test cases automatically More importantly learn how to think in

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looking web applications quickly you concentrate on creating the application and Rails takes care of the details Rails 6 brings many improvements and this edition is updated to cover the new features and changes in best practices We start with a step by step walkthrough of building a real application and in depth chapters look at the built in Rails features Follow along with an extended tutorial as you write a web based store application Eliminate tedious configuration and housekeeping seamlessly incorporate Ajax and JavaScript send and receive emails manage background jobs with ActiveJob and build real time features using WebSockets and ActionCable Test your applications as you write them using the built in unit integration and system testing frameworks internationalize your applications and deploy your applications easily and securely New in this edition is coverage of Action Mailer which allows you to receive emails in your app as well as ActionText a zero configuration rich text editing feature Rails 1.0 was released in December 2005 This book was there from the start and didn't just evolve alongside Rails it evolved with Rails It has been developed in consultation with the Rails core team In fact Rails itself is tested against the code in this book What You Need All you need is a Windows Mac OS X or Linux machine to do development on This book will take you through the steps to install Rails and its dependencies If you aren't familiar with the Ruby programming language this book contains a chapter that covers the basics necessary to understand the material in the book *Phoenix in Action* Geoffrey Lassel, 2019-04-26 Summary Phoenix is a modern web framework built for the Elixir programming language Elegant fault tolerant and performant Phoenix is as easy to use as Rails and as rock solid as Elixir's Erlang based foundation Phoenix in Action builds on your existing web dev skills teaching you the unique benefits of Phoenix along with just enough Elixir to get the job done Foreword by Sasa Juric author of Elixir in Action Second Edition Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Modern web applications need to be efficient to develop lightning fast and unfailingly reliable Phoenix a web framework for the Elixir programming language delivers on all counts Elegant and intuitive Phoenix radically simplifies the dev process Built for concurrency Phoenix channels make short work of developing real time applications And as for reliability Phoenix apps run on the battle tested Erlang VM so they're rock solid About the Book Phoenix in Action is an example based book that teaches you to build production quality web apps You'll handle business logic database interactions and app designs as you progressively create an online auction site As you go you'll build everything from the core components to the real time user interactions where Phoenix really shines What's inside Functional programming in a web environment An introduction to Elixir Database interactions with Ecto Real time communication with channels About the Reader For web developers familiar with a framework like Rails or ASP.NET No experience with Elixir or Phoenix required About the Author Geoffrey Lassel is a seasoned web developer who speaks and blogs about Elixir and Phoenix Table of Contents PART 1 GETTING STARTED Ride the Phoenix Intro to Elixir A little Phoenix overview PART 2 DIVING IN DEEP Phoenix is not your application Elixir application structure Bring in Phoenix Making changes with Ecto Changeset Transforming data in your browser Plugs

assigns and dealing with session data Associating records and accepting bids PART 3 THOSE IMPORTANT EXTRAS Using Phoenix channels for real time communication Building an API Testing in Elixir and Phoenix **TIMS/ORSA Bulletin** Institute of Management Sciences,1993 *Computerworld* ,1981-08-24 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network **The CRI Directory of Expert Systems** Godfrey Smart,Jens Langeland-Knudsen,1986 This directory describes the current state of the art and capabilities of expert systems technology by giving a brief description of every expert system about which details have been published in English This directory is a survey of those expert systems designed or developed so far for real world domains **Programming Phoenix LiveView** Bruce A. Tate,Sophie DeBenedetto,2021-09-30 The days of the traditional request response web application are long gone but you don t have to wade through oceans of JavaScript to build the interactive applications today s users crave The innovative Phoenix LiveView library empowers you to build applications that are fast and highly interactive without sacrificing reliability This definitive guide to LiveView isn t a reference manual Learn to think in LiveView Write your code layer by layer the way the experts do Explore techniques with experienced teachers to get the best possible performance Instead of settling for traditional manuals and tutorials get insights that can only be learned from experience Start with the Elixir language techniques that effortlessly marry your client templates and server side handlers Design your systems with the right layers in the right places so that your code is easier to understand change and support Explore features like multi part uploads and learn how to comprehensively test your live views Roll into advanced techniques to tie your code to other services through the powerful publish subscribe interface LiveView brings the most important programming techniques from the popular Elm and JavaScript React frameworks to Elixir You ll experience firsthand how to harness that power by working side by side with some of the first LiveView users You will write your programs to change data on the server and you ll see how LiveView efficiently detects those changes and reflects them on the web page Start from scratch use built in generators and craft reusable components Your single purpose reducers will transform server data that your renderers can turn into efficient client side diffs Don t settle for knowing how things work To get the most out of LiveView you need to know why they work that way Co authored by one of the most prolific authors and teachers in all of Elixir this book is your perfect guide to one of the most important new frameworks of our generation What You Need Programming Phoenix LiveView uses Phoenix version 1 5 and any Elixir version compatible with it You will also want PostgreSQL and JavaScript Node **Directory of Computer Education and Research: Junior colleges** T. C. Hsiao,1973 **Television & Cable Factbook** ,2008

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