

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

Frances Buontempo



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

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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

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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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Software Estimation Without Guessing George Dinwiddie,2019-12-19 Estimating software development often produces more angst than value but it doesn t have to Identify the needs behind estimate requests and determine how to meet those needs simply and easily Choose estimation techniques based on current needs and available information gaining benefit while reducing cost and effort Detect bad assumptions that might sink your project if you don t adjust your plans Discover what to do when an estimate is wrong how to recover and how to use that knowledge for future planning Learn to communicate about estimates in a healthy and productive way maximizing advantage to the organization and minimizing damage to the people In a world where most developers hate estimation and most managers fear disappointment with the results there is hope for both It requires giving up some widely held misconceptions Let go of the notion that an estimate is an estimate and estimate for the particular need you and your organization have Realize that estimates have a limited shelf life and reestimate frequently if it s important When reality differs from your estimate don t lament mine that disappointment for the gold that can be the longer term jackpot Estimate in comparison to past experience by modeling the work mathematically or a hybrid of both Learn strategies for effective decomposition of work and aspects of the work that likely affect your estimates Hedge your bets by comparing the results of different approaches Find out what to do when an estimate proves wrong And they will They re estimates after all You ll discover that you can use estimates to warn you of danger so you can take appropriate action in time Learn some crucial techniques to understand and communicate with those who need to understand Address both the technical and sociological aspects of estimation and you ll help your organization achieve its desired goals with less drama and more benefit What You

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The Ray Tracer Challenge Jamis Buck, 2019-02-26 Brace yourself for a fun challenge build a photorealistic 3D renderer from scratch It's easier than you think In just a couple of weeks build a ray tracer that renders beautiful scenes with shadows reflections brilliant refraction effects and subjects composed of various graphics primitives spheres cubes cylinders triangles and more With each chapter implement another piece of the puzzle and move the renderer that much further forward Do all of this in whichever language and environment you prefer and do it entirely test first so you know it's correct Recharge yourself with this project's immense potential for personal exploration experimentation and discovery The renderer is a ray tracer which means it simulates the physics of light by tracing the path of light rays around your scene Each exciting chapter presents a bite sized piece of the puzzle building on earlier chapters and setting the stage for later ones Requirements are given in plain English which you translate into tests and code When the project is complete look back and realize you've built an entire system test first There's no research necessary all the necessary formulas and algorithms are presented and illustrated right here Dive into intriguing topics from fundamental concepts such as vectors and matrices to the algorithms that simulate the intersection of light rays with spheres planes cubes cylinders and triangles to geometric patterns such as checkers and rings Lighting and shading effects such as shadows and reflections make your scenes come to life and constructive solid geometry CSG enables you to combine your graphics primitives in simple ways to produce complex shapes Play and experiment as you discover the fun of writing a ray tracer Accept the challenge today What You Need Aside from a computer operating system and programming environment you'll need a way to display PPM image files On Windows programs like Photoshop will work or free programs like IrfanView On Mac no special software is needed as Preview can open PPM files

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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

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

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. Television & Cable Factbook, 2008

Directory of Computer Education and Research: Junior colleges T. C. Hsiao, 1973 **Phoenix Web Development** Mike Voloz, Brandon Richey, 2018-04-30 The Phoenix web development framework is an object-oriented application development tool written in Elixir. With Elixir and Phoenix, you build your application the right way: ready to scale and ready for the increasing demands of real-time web applications. If you have some knowledge of Elixir, have experience with web frameworks in other

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Programming Phoenix Introduction

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