

The
Pragmatic
Programmers

Programming Phoenix LiveView

Interactive Elixir Web Programming
Without Writing Any JavaScript



Bruce A. Tate and Sophie DeBene
edited by Jacquelyn

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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 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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Programming Phoenix Chris McCord. Bruce Tate. Jose Valim,2016

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 Need No software needed just your past experience and concern for the outcomes **Genetic Algorithms and Machine Learning for Programmers** Frances

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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

Agile Web Development with Rails 6 Sam Ruby,David B. Copeland,Dave Thomas,2020-02-10 Learn Rails the way the Rails core team recommends it along with the tens of thousands of developers who have used this broad far reaching tutorial and reference If you re new to Rails you ll get step by step guidance If you re an experienced developer get the comprehensive insider information you need for the latest version of Ruby on Rails The new edition of this award winning classic is completely updated for Rails 6 and Ruby 2 6 with information on system testing Webpack and advanced JavaScript Ruby on Rails helps you produce high quality beautiful

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Phoenix in Action Geoffrey Lessel, 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 Lessel 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 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 *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 **Directory of Computer Education and Research: Junior colleges** T. C. Hsiao,1973 **Television & Cable Factbook** ,2008

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Table of Contents Programming Phoenix

1. Understanding the eBook Programming Phoenix
 - The Rise of Digital Reading Programming Phoenix
 - Advantages of eBooks Over Traditional Books
2. Identifying Programming Phoenix
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Programming Phoenix
 - User-Friendly Interface
4. Exploring eBook Recommendations from Programming Phoenix
 - Personalized Recommendations
 - Programming Phoenix User Reviews and Ratings
 - Programming Phoenix and Bestseller Lists
5. Accessing Programming Phoenix Free and Paid eBooks
 - Programming Phoenix Public Domain eBooks

- Programming Phoenix eBook Subscription Services
- Programming Phoenix Budget-Friendly Options
- 6. Navigating Programming Phoenix eBook Formats
 - ePub, PDF, MOBI, and More
 - Programming Phoenix Compatibility with Devices
 - Programming Phoenix Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Programming Phoenix
 - Highlighting and Note-Taking Programming Phoenix
 - Interactive Elements Programming Phoenix
- 8. Staying Engaged with Programming Phoenix
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Programming Phoenix
- 9. Balancing eBooks and Physical Books Programming Phoenix
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Programming Phoenix
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Programming Phoenix
 - Setting Reading Goals Programming Phoenix
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Programming Phoenix
 - Fact-Checking eBook Content of Programming Phoenix
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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