Programming Phoenix LiveView

Interactive Elixir Web Programming
Without Writing Any JavaScript

BETA

Bruce A. Tate and Sophie DeBene

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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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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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properties Improve your properties write IPS data generators and discover what your code can or cannot do Learn when to use property tests and when to stick with example tests with real world sample projects Explore various testing approaches to find the one that s best for your code Shrink failing test cases to their simpler expression to highlight exactly what breaks in your code and generate highly relevant data through targeted properties Uncover the trickiest bugs you can think of with nearly no code at all with two special types of properties based on state transitions and finite state machines Write Erlang and Elixir properties that generate the most effective tests you ll see whether they are unit tests or complex integration and system tests What You Need Basic knowledge of Erlang optionally Elixir For Erlang tests Erlang OTP 20 0 with Rebar 3 4 0 For Elixir tests Erlang OTP 20 0 Elixir 1 5 0 **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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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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