



Quick answers to common problems

Elixir Cookbook

Unleash the full power of programming in Elixir with over 60
incredibly effective recipes

Paulo A Pereira

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PUBLISHING community experience distilled

Elixir Cookbook Pereira Paulo A

Morgan Bruce, Paulo A Pereira



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Elixir Cookbook Paulo A Pereira,2015-02-19 This book is intended for users with some knowledge of the Elixir language syntax and basic data types structures Although this is a cookbook and no sequential reading is required the book s structure will allow less advanced users who follow it to be gradually exposed to some of Elixir s features and concepts specific to functional programming To get the most out of this book you need to be well versed with Erlang [Erlang and Elixir for Imperative Programmers](#) Wolfgang Loder,2016-11-26 Learn and understand Erlang and Elixir and develop a working knowledge of the concepts of functional programming that underpin them This book takes the author s experience of taking on a project that required functional programming and real time systems breaks it down and organizes it You will get the necessary knowledge about differences to the languages you know where to start and where to go next Have you been told by your customer or manager that they heard good things about Erlang you should use it for the next project Never had to deal with functional programming or real time systems In 2014 the author Wolfgang Loder developed a repository for digital assets that had to deliver those assets in binary form quickly and reliably being able to deal with at least hundreds of requests per second Since he could decide the architecture and software stack of the solution he immediately thought of Erlang and its libraries and started to evaluate this option It was not long after that he discovered Elixir which sits on top of the Erlang virtual machine and has features more palatable for non functional programmers although it is a functional programming language itself Erlang and Elixir for Imperative Programmers gives you a basis for deciding whether the effort is viable for your next project This book is partly a tale of the author s own experience and partly a description of the bigger and more subtle differences between Erlang Elixir and languages such as C Java and C What You ll Learn Discover functional programming Erlang and Elixir Work on service design and service features Set up your environment deployment development and production Implement the service including public interface asset processing and deployment Use the patterns and concepts found in Erlang including type creation concepts and code structuring Who This Book Is For Experienced and savvy programmers coders and developers new to Erlang and Elixir *Microservices in Action* Morgan Bruce,Paulo A Pereira,2018-10-03 The one and only book on implementing microservices with a real world cover to cover example you can relate to Christian Bach Swiss Re Microservices in Action is a practical book about building and deploying microservice based applications Written for developers and architects with a solid grasp of service oriented development it tackles the challenge of putting microservices into production Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Invest your time in designing great applications improving infrastructure and making the most out of your dev teams Microservices are easier to write scale and maintain than traditional enterprise applications because they re built as a system of independent components Master a few important new patterns and processes and you ll be ready to develop deploy and run production quality microservices About the Book

Microservices in Action teaches you how to write and maintain microservice based applications Created with day to day development in mind this informative guide immerses you in real world use cases from design to deployment You ll discover how microservices enable an efficient continuous delivery pipeline and explore examples using Kubernetes Docker and Google Container Engine What s inside An overview of microservice architecture Building a delivery pipeline Best practices for designing multi service transactions and queries Deploying with containers Monitoring your microservices About the Reader Written for intermediate developers familiar with enterprise architecture and cloud platforms like AWS and GCP About the Author Morgan Bruce and Paulo A Pereira are experienced engineering leaders They work daily with microservices in a production environment using the techniques detailed in this book Table of Contents Designing and running microservices Microservices at SimpleBank Architecture of a microservice application Designing new features Transactions and queries in microservices Designing reliable services Building a reusable microservice framework Deploying microservices Deployment with containers and schedulers Building a delivery pipeline for microservices Building a monitoring system Using logs and traces to understand behavior Building microservice teams PART 1 The lay of the land PART 2 Design PART 3 Deployment PART 4 Observability and ownership Mastering Elixir André Albuquerque, Daniel Caixinha, 2018-07-30 Leverage the power of Elixir programming language to solve practical problems associated with scalability concurrency fault tolerance and high availability Key Features Enhance your Elixir programming skills using its powerful tools and abstractions Discover how to develop a full fledged file server Understand how to use Phoenix to create a web interface for your application Book Description Running concurrent fault tolerant applications that scale is a very demanding responsibility After learning the abstractions that Elixir gives us developers are able to build such applications with inconceivable low effort There is a big gap between playing around with Elixir and running it in production serving live requests This book will help you fill this gap by going into detail on several aspects of how Elixir works and showing concrete examples of how to apply the concepts learned to a fully fledged application In this book you will learn how to build a rock solid application beginning by using Mix to create a new project Then you will learn how the use of Erlang s OTP along with the Elixir abstractions that run on top of it such as GenServer and GenStage that allow you to build applications that are easy to parallelize and distribute You will also master supervisors and supervision trees and comprehend how they are the basis for building fault tolerant applications Then you will use Phoenix to create a web interface for your application Upon finishing implementation you will learn how to take your application to the cloud using Kubernetes to automatically deploy scale and manage it Last but not least you will keep your peace of mind by learning how to thoroughly test and then monitor your application What you will learn Use Elixir tools including IEx and Mix Find out how an Elixir project is structured and how to create umbrella applications Discover the power of supervision trees the basis for fault tolerance Create a Domain Specific Language DSL that abstracts complexity Create a blazing fast web interface for your application with Phoenix Set up an

automatic deployment process for the cloud Monitor your application and be warned if anything unexpected happens Who this book is for Mastering Elixir is for you if you have experience in Elixir programming and want to take it to the next level This Elixir book shows you how to build deploy and maintain robust applications allowing you to go from tinkering with Elixir on side projects to using it in a live environment However no prior knowledge of Elixir is required to enjoy the complex topics covered in the book *Elixir Life: Modern Nutrition Meets Ancient Herbal Wisdom* Malcolm Saunders,2018-01-02 Learn how to craft your own nourishing herbal beverages A beautiful and enlightening book featuring over 30 warm cool sweet savory Elixir recipes to elevate your health that you can make at home

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