

# Reading free Functional web development with elixir otp and phoenix .pdf

The Little Elixir & OTP Guidebook Functional Web Development with Elixir, OTP, and Phoenix Designing Elixir Systems with Otp: Write Highly Scalable, Self-Healing Software with Layers 700000 700000 00000000Elixir Designing Elixir Systems with OTP 00000000Elixir00200 Learn Functional Programming with Elixir Programmer Passport: OTP Learning Elixir Elixir000000 Build a Binary Clock with Elixir and Nerves Concurrent Data Processing in Elixir Concurrent Data Processing in Elixir Craft GraphQL APIs in Elixir with Absinthe Erlang000000 00 Adopting Elixir Introducing Elixir Programmer Passport: Elixir Elixir Programming Ecto Software Design X-Rays Practical A/B Testing From Ruby to Elixir Elixir in Action, Third Edition Node.js 8 the Right Way Erlang and Elixir for Imperative Programmers Erlang and OTP in Action Code with the Wisdom of the Crowd Designing for Scalability with Erlang/OTP 0000Erlang00000000! Seven More Languages in Seven Weeks Programming WebAssembly with Rust Seven Concurrency Models in Seven Weeks Elixir in Action Designing for Scalability with Erlang/OTP Mobile Devices and Smart Gadgets in Medical Sciences Phoenix in Action 0000 000000000 0000000000 Real-Time Phoenix

**The Little Elixir & OTP Guidebook** 2016-09-25 summary the little elixir otp guidebook gets you started programming applications with elixir and otp you begin with a quick overview of the elixir language syntax along with just enough functional programming to use it effectively then you ll dive straight into otp and learn how it helps you build scalable fault tolerant and distributed applications through several fun examples purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the technology elixir is an elegant programming language that combines the expressiveness of ruby with the concurrency and fault tolerance of erlang it makes full use of erlang s beam vm and otp library so you get two decades worth of maturity and reliability right out of the gate elixir s support for functional programming makes it perfect for modern event driven applications about the book the little elixir otp guidebook gets you started writing applications with elixir and otp you ll begin with the immediately comfortable elixir language syntax along with just enough functional programming to use it effectively then you ll dive straight into several lighthearted examples that teach you to take advantage of the incredible functionality built into the otp library what s inside covers elixir 1 2 and 1 3 introduction to functional concurrency with actors experience the awesome power of erlang and otp about the reader written for readers comfortable with a standard programming language like ruby java or python fp experience is helpful but not required about the author benjamin tan wei hao is a software engineer at pivotal labs singapore he is also an author a speaker and an early adopter of elixir table of contents getting started with elixir and otp introduction a whirlwind tour processes 101 writing server applications with genserver fault tolerance supervision and distribution concurrent error handling and fault tolerance with links monitors and processes fault tolerance with supervisors completing the worker pool application distribution and load balancing distribution and fault tolerance dialyzer and type specifications property based and concurrency testing

**Functional Web Development with Elixir, OTP, and Phoenix** 2018-01-25 elixir and phoenix are generating tremendous excitement as an unbeatable platform for building modern web applications for decades otp has helped developers create incredibly robust scalable applications with unparalleled uptime make the most of them as you build a stateful web app with elixir otp and phoenix model domain entities without an orm or a database manage server state and keep your code clean with otp behaviours layer on a phoenix web interface without coupling it to the business logic open doors to powerful new techniques that will get you thinking about web development in fundamentally new ways elixir and otp provide exceptional tools to build rock solid back end applications that scale in this book you ll build a web application in a radically different way with a back end that holds application state you ll use persistent phoenix channel connections instead of http s request response and create the full application in distinct decoupled layers in part 1 start by building the business logic as a separate application without phoenix model the application domain with elixir functions and simple data structures by keeping state in memory instead of a database you can reduce latency and simplify your code in part 2 add in the genserver behaviour to make managing in memory state a breeze create a supervision tree to boost fault tolerance while separating error handling from business logic phoenix is a modern web framework you can layer on top of business logic while keeping the two completely decoupled in part 3 you ll do exactly that as you build a web interface with phoenix bring in the application from part 2 as a dependency to a new phoenix project then use ultra scalable phoenix channels to establish persistent connections between the stateful server and a stateful front end client you re going to love this way of building web apps what you need you ll need a computer that can run elixir version 1 5 or higher and phoenix 1 3 or higher some familiarity with elixir and phoenix is recommended

**Designing Elixir Systems with Otp: Write Highly Scalable, Self-Healing Software with Layers** 2019-11-04 you know how to code in elixir now learn to think in it learn to design libraries with intelligent layers that shape the right data structures flow from one function into the next and present the right apis embrace the same otp that s kept our telephone systems reliable and fast for over 30 years move beyond understanding the otp functions to knowing what s happening under the hood and why that matters using that knowledge instinctively know how to design systems that deliver fast and resilient services to your users all with an elixir focus elixir is gaining mindshare as the programming language you can use to keep you software running forever even in the face of unexpected errors and an

ever growing need to use more processors this power comes from an effective programming language an excellent foundation for concurrency and its inheritance of a battle tested framework called the otp if you re using frameworks like phoenix or nerves you re already experiencing the features that make elixir an excellent language for today s demands this book shows you how to go beyond simple programming to designing and that means building the right layers embrace those data structures that work best in functional programs and use them to build functions that perform and compose well layer by layer across processes test your code at the right place using the right techniques layer your code into pieces that are easy to understand and heal themselves when errors strike of all elixir s boons the most important one is that it guides us to design our programs in a way to most benefit from the architecture that they run on the experts do it and now you can learn to design programs that do the same what you need elixir version 1 7 or greater

7 7 2011-07 1 1 seven languages in seven weeks ruby io prolog scala erlang clojure haskell 7

**Elixir** 2016-08-20 elixir elixir erlang vm erlang ruby dave thomas elixir programming elixir 1 2 pragmatic bookshelf 2016 elixir ruby erlang 1 2 3 4 5 6 7 8 9 10 enum stream 11 12 13 ii 14 15 16 otp 17 otp 18 otp 19 iii elixir1 20 21 use 22 a raise try catch throw b c d

Designing Elixir Systems with OTP 2019 you know how to code in elixir now learn to think in it learn to design libraries with intelligent layers that shape the right data structures flow from one function into the next and present the right apis embrace the same otp that s kept our telephone systems reliable and fast for over 30 years move beyond understanding the otp functions to knowing what s happening under the hood and why that matters using that knowledge instinctively know how to design systems that deliver fast and resilient services to your users all with an elixir focus elixir is gaining mindshare as the programming language you can use to keep you software running forever even in the face of unexpected errors and an ever growing need to use more processors this power comes from an effective programming language an excellent foundation for concurrency and its inheritance of a battle tested framework called the otp if you re using frameworks like phoenix or nerves you re already experiencing the features that make elixir an excellent language for today s demands this book shows you how to go beyond simple programming to designing and that means building the right layers embrace those data structures that work best in functional programs and use them to build functions that perform and compose well layer by layer across processes test your code at the right place using the right techniques layer your code into pieces that are easy to understand and heal themselves when errors strike of all elixir s boons the most important one is that it guides us to design our programs in a way to most benefit from the architecture that they run on the experts do it and now you can learn to design programs that do the same what you need elixir version 1 7 or greater

*Elixir* 2 2020-12-01 elixir elixir erlang vm erlang ruby elixir dave thomas elixir programming elixir 1 6 pragmatic bookshelf 2018 elixir 2018 elixir 1 6 2018 elixir 1 6 2018 elixir ruby erlang 1 2 3 4 5 6

enum stream 11 12 13 14 ii 15 16 17 otp 18 otp 19 20 otp 21 iii elixir 22 23 use 24 25 a b c d elixir 1 6 e

Learn Functional Programming with Elixir 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

**Programmer Passport: OTP** 2022-06-22 otp is the heart of the rapidly growing elixir the functional language at the heart of phoenix and liveview otp enables exciting concurrent applications with among the best reliability properties in the world with this book you ll learn to code systems that can detect failure and recover from it automatically using the same techniques behind the world s telecommunication systems by plugging into otp your own libraries will handle concurrent requests robustly and seamlessly integrate with other supervised elixir and erlang applications if you re looking to take your next step as an elixir developer look no further than otp otp is a library for building fault tolerant systems with self healing properties its services power many of the world s reliable telecom infrastructure it also powers many of elixir s most powerful capabilities in this fast paced book first published with groxio s programmer passport you ll learn about the most important abstractions that power otp this approachable guide will give you a high level understanding before diving into individual details this understanding will tell you how the core apis work so you ll know why elixir programmers write code the way they do to start this guide will walk you through building your own basic service that works in the same way as otp s foundational genserver this quick exercise will gently ease you into the way genservers work you ll build your own genserver and then quickly move on to adding the supervision services to enable the reliability and self healing properties that make elixir famous once you ve done so you ll add features like a dynamic supervisor and use a process registry to make your program more flexible and dynamic what you need you ll need elixir version 1 12 or greater find out what groxio customers already know the assistance of an experienced guide will help you learn how to use otp to build reliable highly concurrent systems more quickly than you could without one

Learning Elixir 2016-01-05 unveil many hidden gems of programming functionally by taking the foundational steps with elixir about this book explore the functional paradigms of programming with elixir through use of helpful examples concise step by step instructions to teach you difficult technical concepts bridge the gap between functional programming and elixir who this book is for this book targets developers new to elixir as well as erlang in order to make them feel comfortable in functional programming with elixir thus enabling

them to develop more scalable and fault tolerant applications although no knowledge of elixir is assumed some programming experience with mainstream object oriented programming languages such a ruby python java c would be beneficial what you will learn explore elixir to create resilient scalable applications create fault tolerant applications become better acquainted with elixir code and see how it is structured to build and develop functional programs learn the basics of functional programming gain an understanding of effective otp principles design program distributed applications and systems write and create branching statements in elixir learn to do more with less using elixir s metaprogramming be familiar with the facilities elixir provides for metaprogramming macros and extending the elixir language in detail elixir based on erlang s virtual machine and ecosystem makes it easier to achieve scalability concurrency fault tolerance and high availability goals that are pursued by developers using any programming language or programming paradigm elixir is a modern programming language that utilizes the benefits offered by erlang vm without really incorporating the complex syntaxes of erlang learning to program using elixir will teach many things that are very beneficial to programming as a craft even if at the end of the day the programmer isn t using elixir this book will teach you concepts and principles important to any complex scalable and resilient application mostly applications are historically difficult to reason about but using the concepts in this book they will become easy and enjoyable it will teach you the functional programing ropes to enable them to create better and more scalable applications and you will explore how elixir can help you achieve new programming heights you will also glean a firm understanding of basics of otp and the available generic provided functionality for creating resilient complex systems furthermore you will learn the basics of metaprogramming modifying and extending elixir to suite your needs style and approach an exploration of functional programming and elixir with easy to follow examples using elixir and the functional style all the topics concepts and principles covered are clearly and concisely explained with either code examples or in depth discussions or both

Elixir 2021-02-05 web elixir docker elixir 1 11

Build a Binary Clock with Elixir and Nerves 2022-08-02 want to get better at coding elixir write a hardware project with nerves as you build this binary clock you ll build in resiliency using otp the same libraries powering many commercial phone switches you ll attack complexity the way the experts do using a layered approach you ll sharpen your debugging skills by taking small easily verified steps toward your goal when you re done you ll have a working binary clock and a good appreciation of the work that goes into a hardware system you ll also be able to apply that understanding to every new line of elixir you write combining software with hardware can be frustrating but you can become proficient in no time by taking a simple logical approach blinking a single led is the traditional hello world of embedded systems building your own binary clock is the logical next step it blinks groupings of leds based on the system time this guide walks you through a working project using the techniques used by experts who build software for hardware every day this common sense project moves forward in tiny logical steps as you progress you can verify each step before moving on to the next you don t have to be a nerves novice to benefit from this project become a better elixir programmer as you build your own desktop showpiece with a layered approach to software design you ll learn to control the complexity of your programs the way the experts do by focusing on one small slice of your system at a time when you re done you ll have your own binary clock and also more of the tools you need to design and build your own nerves and elixir projects you ll also be a better programmer with a deeper appreciation of layering techniques for controlling complexity what you need this project is for elixir developers who want to get started with nerves or improve their skills the project is designed for elixir 1 11 and nerves 1 7 but later versions will probably work as well with slight modifications the project uses a raspberry pi zero with a set of components with slight modifications you can make this book work with other components as well

**Concurrent Data Processing in Elixir** 2021-07-25 learn different ways of writing concurrent code in elixir and increase your application s performance without sacrificing scalability or fault tolerance most projects benefit from running background tasks and processing data concurrently but the world of otp and various libraries can be challenging which supervisor and what strategy to use what about genserver maybe you need back pressure but is genstage flow or Broadway a better choice you will learn everything you need to know to answer these questions start building highly concurrent applications in no time and write code that s not only fast but also resilient to errors and easy to scale whether you are building a high frequency stock trading application or a consumer web app you need to know how to leverage concurrency to build applications that are fast and efficient elixir and the otp offer a range of powerful tools and this guide will show you how to choose the best tool for each job and use it effectively to quickly start building highly concurrent applications learn about tasks supervision trees and the different types of supervisors available to you understand why processes and process linking are the building blocks of concurrency in elixir get comfortable with the otp and use the genserver behaviour to maintain process state for long running jobs easily scale the number of running processes using the registry handle large volumes of data and traffic spikes with genstage using back pressure to your advantage create your first multi stage data processing pipeline using producer consumer and producer consumer stages process large collections with flow using mapreduce and more in parallel thanks to Broadway you will see how easy it is to integrate with popular message broker systems or even existing genstage producers start building the high performance and fault tolerant applications elixir is famous for today what you need you ll need elixir 1 9 and erlang otp 22 installed on a mac os x linux or windows machine

**Concurrent Data Processing in Elixir** 2021-08-31 learn different ways of writing concurrent code in elixir and increase your application s performance without sacrificing scalability or fault tolerance most projects benefit from running background tasks and processing data concurrently but the world of otp and various libraries can be challenging which supervisor and what strategy to use what about genserver maybe you need back pressure but is genstage flow or Broadway a better choice you will learn everything you need to know to answer these questions start building highly concurrent applications in no time and write code that s not only fast but also resilient to errors and easy to scale whether you are building a high frequency stock trading application or a consumer web app you need to know how to leverage concurrency to build applications that are fast and efficient elixir and the otp offer a range of powerful tools and this guide will show you how to choose the best tool for each job and use it effectively to quickly start building highly concurrent applications learn about tasks supervision trees and the different types of supervisors available to you understand why processes and process linking are the building blocks of concurrency in elixir get comfortable with the otp and use the genserver behaviour to maintain process state for long running jobs easily scale the number of running processes using the registry handle large volumes of data and traffic spikes with genstage using back pressure to your advantage create your first multi stage data processing pipeline using producer consumer and producer consumer stages process large collections with flow using mapreduce and more in parallel thanks to Broadway you will see how easy it is to integrate with popular message broker systems or even existing genstage producers start building the high performance and fault tolerant applications elixir is famous for today what you need you ll need elixir 1 9 and erlang otp 22 installed on a mac os x linux or windows machine

**Craft GraphQL APIs in Elixir with Absinthe** 2018-03-27 your domain is rich and interconnected and your api should be too upgrade your web api to graphql leveraging its flexible queries to empower your users and its declarative structure to simplify your code absinthe is the graphql toolkit for elixir a functional programming language designed to enable massive concurrency atop robust application architectures written by the creators of absinthe this book will help you take full advantage of these two groundbreaking technologies build your own flexible high performance apis using step by step guidance and expert advice you won t find anywhere else graphql is a new way of structuring and building web services and the result is transformational find out how to offer a more tailored cohesive experience to your users easily aggregate data from different data sources and improve your back end s maintainability with absinthe

declarative approach to defining how your api works build a graphql based api from scratch using absinthe starting from core principles learn the type system and how to expand your schema to suit your application s needs discover a growing ecosystem of tools and utilities to understand debug and document your api take it to production but do it safely with solid best practices in mind find out how complexity analysis and persisted queries can let you support your users flexibly but responsibly too along the way discover how elixir makes all the difference for a high performance fault tolerant api use asynchronous and batching execution or write your own custom add ons to extend absinthe go live with subscriptions delivering data over websockets on top of elixir and erlang otp s famous solid performance and real time capabilities transform your applications with the powerful combination of elixir and graphql using absinthe 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 new phoenix application using absinthe

*Erlang* 2010-07 erlang

**Adopting Elixir** 2018-03-14 adoption is more than programming elixir is an exciting new language but to successfully get your application from start to finish you re going to need to know more than just the language the case studies and strategies in this book will get you there learn the best practices for the whole life of your application from design and team building to managing stakeholders to deployment and monitoring go beyond the syntax and the tools to learn the techniques you need to develop your elixir application from concept to production learn real life strategies from the people who built elixir and use it successfully at scale see how ben marx and bleacher report maintain one of the highest traffic elixir applications by selling the concept to management and delivering on that promise find out how bruce tate and icanmakeitbetter hire and train elixir engineers and the techniques they ve employed to design and ensure code consistency since elixir s early days explore customer challenges in deploying and monitoring distributed applications with elixir creator jose valim and plataformatec make a business case and build a team before you finish your first prototype once you re in development form strategies for organizing your code and learning the constraints of the runtime and ecosystem convince stakeholders both business and technical about the value they can expect prepare to make the critical early decisions that will shape your application for years to come manage your deployment with all of the knobs and gauges that good devops teams demand decide between the many options available for deployment and how to best prepare yourself for the challenges of running a production application this book picks up where most elixir books leave off it won t teach you to program elixir or any of its tools instead it guides you through the broader landscape and shows you a holistic approach to adopting the language what you need this book works with any version of elixir

**Introducing Elixir** 2016-12-22 smooth powerful and small elixir is an excellent language for learning functional programming and with this hands on introduction you ll discover just how powerful elixir can be authors simon st laurent and j david eisenberg show you how elixir combines the robust functional programming of erlang with an approach that looks more like ruby and includes powerful macro features for metaprogramming updated to cover elixir 1.4 the second edition of this practical book helps you write simple elixir programs by teaching one skill at a time once you pick up pattern matching process oriented programming and other concepts you ll understand why elixir makes it easier to build concurrent and resilient programs that scale up and down with ease get comfortable with iex elixir s command line interface learn elixir s basic structures by working with numbers discover atoms pattern matching and guards the foundations of your program structure delve into the heart of elixir processing with recursion strings lists and higher order functions create elixir processes and send messages among them store and manipulate structured data with erlang term storage and the mnesia database build resilient applications with the open telecom platform

*Programmer Passport: Elixir* 2022-06-22 elixir is a functional language that crosses many boundaries with a syntax borrowing heavily from ruby a runtime that is on the erlang beam a macro system like that in lisp and a streaming library like you might find in haskell elixir takes the best features from many environments elixir borrows from erlang s let it crash philosophy and adds significant improvements with structs first class hygienic macros and abstractions such as protocols many of these ideas were borrowed from other communities

and they make a big difference in language adoption this book gives you a quick guided tour through the fascinating world of elixir explore elixir with the author of seven languages in seven weeks in this fast paced book first published with groxio s programmer passport you ll discover how elixir s fantastic documentation clear error messages and excellent tooling make it approachable and easy to work with learn about techniques other books skip like writing your own mix task and discover several blind spots that beginning and intermediate elixir developers encounter effective elixir depends on getting the most out of the most common datatypes explore the most important ones before using them to write modules and different kinds of functions learn when to choose tuples maps or lists in your programs and the most effective ways to access lists understand the differences between maps and keyword lists learn the primitives elixir uses to start multiple processes and send messages between them you ll finish the book by dabbling with the advanced techniques of streams sigils and macros find out what groxio customers already know the assistance of an experienced guide will help you learn elixir more quickly than you could without one what you need you ll need elixir version 1.12 or greater

**Elixir** 2022 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

**Programming Ecto** 2019-04-01 are you working on a codebase where cost overruns death marches and heroic fights with legacy code monsters are the norm battle these adversaries with novel ways to identify and prioritize technical debt based on behavioral data from how developers work with code and that s just for starters because good code involves social design as well as technical design you can find surprising dependencies between people and code to resolve coordination bottlenecks among teams best of all the techniques build on behavioral data that you already have your version control system join the fight for better code use statistics and data science to uncover both problematic code and the behavioral patterns of the developers who build your software this combination gives you insights you can t get from the code alone use these insights to prioritize refactoring needs measure their effect find implicit dependencies between different modules and automatically create knowledge maps of your system based on actual code contributions in a radical much needed change from common practice guide organizational decisions with objective data by measuring how well your development teams align with the software architecture discover a comprehensive set of practical analysis techniques based on version control data where each point is illustrated with a case study from a real world codebase because the techniques are language neutral you can apply them to your own code no matter what programming language you use guide organizational decisions with objective data by measuring how well your development teams align with the software architecture apply research findings from social psychology to software development ensuring you get the tools you need to coach your organization towards better code if you re an experienced programmer software

architect or technical manager you ll get a new perspective that will change how you work with code what you need you don t have to install anything to follow along in the book tthe case studies in the book use well known open source projects hosted on github you ll use codescene a free software analysis tool for open source projects for the case studies we also discuss alternative tooling options where they exist

*Software Design X-Rays* 2018-03-08 whether you re a catalyst for organizational change or have the support you need to create an engineering culture that embraces a b testing this book will help you do it right the step by step instructions will demystify the entire process from constructing an a b test to breaking down the decision factors to build an engineering platform when you re ready to run the a b test of your dreams you ll have the perfect blueprint with smart tactful approaches to orchestrating a b testing on a product you ll quickly discover how to reap all the benefits that a b testing has to offer benefits that span your users your product and your team take the reins today and be the change you want to see in your engineering and product organizations develop a hypothesis statement that s backed with metrics that demonstrate if your prediction for the experiment is correct build more inclusive products by leveraging audience segmentation strategies and ad hoc post analysis to better understand the impact of changes on specific user groups determine which path is best for your team when deciding whether to go with a third party a b test framework or to build the a b testing platform in house and finally learn how to cultivate an experimentation friendly culture within your team leverage the a b testing methodology to demonstrate the impact of changes on a product to your users your key business metrics and the way your team works together after all if you aren t measuring the impact of the changes you make how will you know if you re truly making improvements

*Practical A/B Testing* 2023-05-23 elixir will change the way you think about programming use your ruby experience to quickly get up to speed so you can see what all of the buzz is about go from zero to production applications that are reliable fast and scalable learn elixir syntax and pattern matching to conquer the basics then move onto elixir s unique process model that offers a world class way to go parallel without fear finally use the most common libraries like ecto phoenix and oban to build a real world sms application now s the time dive in and learn elixir whether you re a seasoned ruby developer looking to expand your skill set or a programming beginner looking for a solid foundation in elixir this book has what you need to get up to speed quickly elixir is a functional language with a fairly small footprint this makes it easier to learn and put into production than other languages plus it s built on forty year old foundations that give your applications rock solid stability the first part of this book is all about developing expertise in the language learn about the core data types build application data structures enumerate over data and use pattern matching to control the flow of an application elixir has an amazing process model that allows for actually easy parallel processing learn how to tap into this process model so you can leverage that power yourself the second part of this book builds a real world application using the most important libraries in a web developer s toolbox each library is compared to its similar ruby library so you ll quickly see similarities and differences we ll use ecto phoenix and oban to build a sms application powered by twilio what are you waiting for tap into your ruby knowledge and start building scalable elixir applications today what you need you ll need elixir 1 14 and erlang otp 24 installed on a mac os x linux or windows machine

*From Ruby to Elixir* 2024-04-23 fully updated to elixir 1 15 this authoritative bestseller reveals how elixir tackles problems of scalability fault tolerance and high availability thousands of developers have learned to build applications in elixir by using saša juric s elixir in action you ll skip the programming basics or 101 introductions this book builds on your existing knowledge to get you quickly writing real elixir code along the way you ll develop an appreciation for and considerable skill in functional and concurrent programming inside elixir in action third edition you ll find updates for elixir 1 15 elixir modules functions and type system functional and concurrent programming introduction to distributed system design creating deployable releases fully updated to elixir 1 15 this book contains new coverage of working with application configuration and the latest otp releases it teaches you the underlying principles and functional concepts of elixir and how each piece fits into the bigger picture of building production ready systems with elixir erlang and the otp framework foreword by francesco cesarini purchase of the print book includes a free ebook in pdf and epub formats from Manning Publications

the technology with best in class fault tolerance and concurrency a pragmatic approach to functional programming and the power to operate at scale elixir is the perfect choice for mission critical software start reading elixir in action and you ll quickly understand why elixir creator josé valim says it tops the list of elixir books about the book elixir in action third edition teaches you how to create distributed applications and server side systems using elixir and the erlang vm this third edition from elixir expert saša juric is fully updated to include the latest features of elixir 1 15 in it you ll master the foundations of the language discover how the otp framework minimizes tedious boilerplate code and explore numerous examples that ensure you re learning hands on what s inside elixir modules functions and type system functional and concurrent programming introduction to distributed system design creating deployable releases about the reader for programmers comfortable with client server applications no experience with elixir erlang or functional programming required about the author saša juric uses elixir and erlang to build fault tolerant scalable highly concurrent systems technical editor on this book was marius butuc table of contents part 1 functional elixir 1 first steps 2 building blocks 3 control flow 4 data abstractions part 2 concurrent elixir 5 concurrency primitives 6 generic server processes 7 building a concurrent system 8 fault tolerance basics 9 isolating error effects 10 beyond genserver part 3 production 11 working with components 12 building a distributed system 13 running the system Elixir in Action, Third Edition 2024-03-19 node js is the platform of choice for creating modern web services this fast paced book gets you up to speed on server side programming with node js 8 as you develop real programs that are small fast low profile and useful take javascript beyond the browser explore dynamic language features and embrace evented programming harness the power of the event loop and non blocking i o to create highly parallel microservices and applications this expanded and updated second edition showcases the latest ecmascript features current best practices and modern development techniques javascript is the backbone of the modern web powering nearly every web app s user interface node js is javascript for the server this greatly expanded second edition introduces new language features while dramatically increasing coverage of core topics each hands on chapter offers progressively more challenging topics and techniques broadening your skill set and enabling you to think in node js write asynchronous non blocking code using node js s style and patterns cluster and load balance services with node js core features and third party tools harness the power of databases such as elasticsearch and redis work with many protocols create restful web services tcp socket clients and servers and more test your code s functionality with mocha and manage its life cycle with npm discover how node js pairs a server side event loop with a javascript runtime to produce screaming fast non blocking concurrency through a series of practical programming domains use the latest available ecmascript features and harness key node js classes and popular modules create rich command line tools and a web based ui using modern web development techniques join the smart and diverse community that s rapidly advancing the state of the art in javascript development what you need node js 8 x operating system with bash like shell omq pronounced zero m q library version 3 2 or higher elasticsearch version 5 0 or higher jq version 1 5 or higher redis version 3 2 or higher

**Node.js 8 the Right Way** 2018-01-04 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 significant

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 **Erlang and Elixir for Imperative Programmers** 2016-11-26 concurrent programming has become a required discipline for all programmers multi core processors and the increasing demand for maximum performance and scalability in mission critical applications have renewed interest in functional languages like erlang that are designed to handle concurrent programming erlang and the otp platform make it possible to deliver more robust applications that satisfy rigorous uptime and performance requirements erlang and otp in action teaches you to apply erlang s message passing model for concurrent programming a completely different way of tackling the problem of parallel programming from the more common multi threaded approach this book walks you through the practical considerations and steps of building systems in erlang and integrating them with real world c c java and net applications unlike other books on the market erlang and otp in action offers a comprehensive view of how concurrency relates to soa and web technologies this hands on guide is perfect for readers just learning erlang or for those who want to apply their theoretical knowledge of this powerful language you ll delve into the erlang language and otp runtime by building several progressively more interesting real world distributed applications once you are competent in the fundamentals of erlang the book takes you on a deep dive into the process of designing complex software systems in erlang purchase of the print book comes with an offer of a free pdf epub and kindle ebook from manning also available is all code from the book

*Erlang and OTP in Action* 2010-11-15 build systems faster and more effectively with mob programming mob programming is an approach to developing software that radically reduces defects and key person dependencies by having a group of people work together at a single machine see how to avoid the most common pitfalls that teams make when first starting out discover what it takes to create and support a successful mob now you can take collaborative programming to the next level with mob programming mob programming is a natural extension of the popular pair programming concept and is not restricted to a specific programming language or technology it can be used by anyone who develops software including dev leads software developers and agile coaches the more people working on a bug or feature results in fewer dependencies on individuals and overall increased learning for everyone involved with more eyes on the code you ll find you develop better solutions with fewer defects set up your team for success by introducing mob programming in a way that benefits them create a good first mobbing experience for your team with a template that avoids the common traps beginners may fall into master a collaborative and empathic mindset to help optimize the mobbing experience learn how to make adjustments when things go wrong adapt your mobbing to different types of development tasks get management buy in for your mobbing experiment by demonstrating the benefits discover the equipment and resources you need and how to adjust your workspace for an effective mob get important features to market sooner squish bugs faster and collaborate better today with mob programming what you need all you need is three or more programmers a meeting workspace that s large enough to accommodate your mob and a computer on which to work

**Code with the Wisdom of the Crowd** 2018-07-05 if you need to build a scalable fault tolerant system with requirements for high availability discover why the erlang otp platform stands out for the breadth depth and consistency of its features this hands on guide demonstrates how to use the erlang programming language and its otp framework of reusable libraries tools and design principles to develop complex commercial grade systems that simply cannot fail in the first part of the book you ll learn how to design and implement process behaviors and supervision trees with erlang otp and bundle them into standalone nodes the second part addresses reliability scalability and high availability in your overall system design if you re familiar with erlang this book will help you understand the design choices and trade offs necessary to keep your system running explore otp s building blocks the erlang language tools and libraries collection and its abstract principles and design rules dive into the fundamentals of otp reusable libraries and the erlang process

structures otp uses for behaviors understand how otp behaviors support client server structures finite state machine patterns event handling and runtime code integration write your own behaviors and special processes use otp s tools techniques and architectures to handle deployment monitoring and operations

**Designing for Scalability with Erlang/OTP** 2016-05-16 great programmers aren t born they re made the industry is moving from object oriented languages to functional languages and you need to commit to radical improvement new programming languages arm you with the tools and idioms you need to refine your craft while other language primers take you through basic installation and hello world we aim higher each language in seven more languages in seven weeks will take you on a step by step journey through the most important paradigms of our time you ll learn seven exciting languages lua factor elixir elm julia minikanren and idris learn from the award winning programming series that inspired the elixir language hear how other programmers across broadly different communities solve problems important enough to compel language development expand your perspective and learn to solve multicore and distribution problems in each language you ll solve a non trivial problem using the techniques that make that language special write a fully functional game in elm without a single callback that compiles to javascript so you can deploy it in any browser write a logic program in clojure using a programming model minikanren that is as powerful as prolog but much better at interacting with the outside world build a distributed program in elixir with lisp style macros rich ruby like syntax and the richness of the erlang virtual machine build your own object layer in lua a statistical program in julia a proof in code with idris and a quiz game in factor when you re done you ll have written programs in five different programming paradigms that were written on three different continents you ll have explored four languages on the leading edge invented in the past five years and three more radically different languages each with something significant to teach you

**Erlang**! 2014-07-03 webassembly fulfills the long awaited promise of web technologies fast code type safe at compile time execution in the browser on embedded devices or anywhere else rust delivers the power of c in a language that strictly enforces type safety combine both languages and you can write for the web like never before learn how to integrate with javascript run code on platforms other than the browser and take a step into iot discover the easy way to build cross platform applications without sacrificing power and change the way you write code for the web webassembly is more than just a revolutionary new technology it s reshaping how we build applications for the web and beyond where technologies like activex and flash have failed you can now write code in whatever language you prefer and compile to webassembly for fast type safe code that runs in the browser on mobile devices embedded devices and more combining webassembly s portable high performance modules with rust s safety and power is a perfect development combination learn how webassembly s stack machine architecture works install low level wasm tools and discover the dark art of writing raw wast code build on that foundation and learn how to compile webassembly modules from rust by implementing the logic for a checkers game create wasm modules in rust to interoperate with javascript in many compelling ways apply your new skills to the world of non web hosts and create everything from an app running on a raspberry pi that controls a lighting system to a fully functioning online multiplayer game engine where developers upload their own arena bound webassembly combat modules get started with webassembly today and change the way you think about the web what you need you ll need a linux mac or windows workstation with an internet connection you ll need an up to date web browser that supports webassembly to work with the sample code you can use your favorite text editor or ide the book will guide you through installing the rust and webassembly tools needed for each chapter

*Seven More Languages in Seven Weeks* 2014-11-19 your software needs to leverage multiple cores handle thousands of users and terabytes of data and continue working in the face of both hardware and software failure concurrency and parallelism are the keys and seven concurrency models in seven weeks equips you for this new world see how emerging technologies such as actors and functional programming address issues with traditional threads and locks development learn how to exploit the parallelism in your computer s gpu and leverage clusters of machines with mapreduce and stream processing and do it all with the confidence that comes from using tools that help you write crystal clear high quality code this book will show you how to exploit different parallel architectures to improve your

code s performance scalability and resilience you ll learn about seven concurrency models threads and locks functional programming separating identity and state actors sequential processes data parallelism and the lambda architecture learn about the perils of traditional threads and locks programming and how to overcome them through careful design and by working with the standard library see how actors enable software running on geographically distributed computers to collaborate handle failure and create systems that stay up 24 7 365 understand why shared mutable state is the enemy of robust concurrent code and see how functional programming together with technologies such as software transactional memory stm and automatic parallelism help you tame it you ll learn about the untapped potential within every gpu and how gpgpu software can unleash it you ll see how to use mapreduce to harness massive clusters to solve previously intractable problems and how in concert with stream processing big data can be tamed with an understanding of the strengths and weaknesses of each of the different models and hardware architectures you ll be empowered to tackle any problem with confidence what you need the example code can be compiled and executed on nix os x or windows instructions on how to download the supporting build systems are given in each chapter

**Programming WebAssembly with Rust** 2019-03-21 summary elixir in action teaches you to apply the new elixir programming language to practical problems associated with scalability concurrency fault tolerance and high availability purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the technology elixir is a modern programming language that takes advantage of beam the erlang virtual machine without the burden of erlang s complex syntax and conventions elixir gives you ruby like elegance with the power to develop bulletproof distributed server systems that can handle massive numbers of simultaneous clients and run with almost no downtime about the book elixir in action teaches you how to solve practical problems of scalability concurrency fault tolerance and high availability using elixir you ll start with the language learning basic constructs and building blocks then you ll learn to think about problems using elixir s functional programming mindset with that solid foundation you ll confidently explore elixir s seamless integration with beam and erlang s powerful otp framework of battle tested abstractions you can use immediately finally the book provides guidance on how to distribute a system over multiple machines and control it in production requires no previous experience with elixir erlang or the otp written for readers who are familiar with another programming language like ruby javascript or c what s inside practical introduction to the elixir language functional programming idioms mastering the otp framework creating deployable releases about the author saša jurić is a developer with extensive experience using elixir and erlang in high volume concurrent server side systems table of contents part 1 the language first steps building blocks control flow data abstractions part 2 the platform concurrency primitives generic server processes building a concurrent system fault tolerance basics isolating error effects sharing state part 3 production working with components building a distributed system

**Seven Concurrency Models in Seven Weeks** 2014-06-30 if you need to build a scalable fault tolerant system with requirements for high availability discover why the erlang otp platform stands out for the breadth depth and consistency of its features this hands on guide demonstrates how to use the erlang programming language and its otp framework of reusable libraries tools and design principles to develop complex commercial grade systems that simply cannot fail in the first part of the book you ll learn how to design and implement process behaviors and supervision trees with erlang otp and bundle them into standalone nodes the second part addresses reliability scalability and high availability in your overall system design if you re familiar with erlang this book will help you understand the design choices and trade offs necessary to keep your system running explore otp s building blocks the erlang language tools and libraries collection and its abstract principles and design rules dive into the fundamentals of otp reusable frameworks the erlang process structures otp uses for behaviors understand how otp behaviors support client server structures finite state machine patterns event handling and runtime code integration write your own behaviors and special processes use otp s tools techniques and architectures to handle deployment monitoring and operations

**Elixir in Action** 2015-06-14 each day new applications and methods are developed for utilizing probability and statistics for engineering the sciences jay l devore solutions manual download 8th edition



your users do and confidently deploy them build a real world project using solid application design and testing practices that help make future changes a breeze create distributed apps that can scale to many users with tools like phoenix tracker deploy and monitor your application with confidence and reduce outages deliver an exceptional real time experience to your users with easy maintenance reduced operational costs and maximized performance using elixir and phoenix channels what you need you ll need elixir 1 9 and erlang otp 22 installed on a mac os x linux or windows machine

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