Metaprogramming Elixir

Write Less Code, Get More Done (and Have Fun!)

Chris McCord

(author of the Phoenix framework)

Edited by Jacquelyn Carter

Metaprogramming Elixir

Kenny Ballou

Metaprogramming Elixir:

Metaprogramming Elixir Chris McCord,2015-01-29 Write code that writes code with Elixir macros Macros make metaprogramming possible and define the language itself In this book you ll learn how to use macros to extend the language with fast maintainable code and share functionality in ways you never thought possible You ll discover how to extend Elixir with your own first class features optimize performance and create domain specific languages Metaprogramming is one of Elixir s greatest features Maybe you ve played with the basics or written a few macros Now you want to take it to the next level This book is a guided series of metaprogramming tutorials that take you step by step to metaprogramming mastery You ll extend Elixir with powerful features and write faster more maintainable programs in ways unmatched by other languages You ll start with the basics of Elixir s metaprogramming system and find out how macros interact with Elixir s abstract format Then you ll extend Elixir with your own first class features write a testing framework and discover how Elixir treats source code as building blocks rather than rote lines of instructions You ll continue your journey by using advanced code generation to create essential libraries in strikingly few lines of code Finally you ll create domain specific languages and learn when and where to apply your skills effectively When you re done you will have mastered metaprogramming gained insights into Elixir s internals and have the confidence to leverage macros to their full potential in your own projects

Metaprogramming Elixir Chris McCord, 2015 Learn Functional Programming with Elixir Ulisses Almeida, 2018-02-23 Elixir's straightforward syntax and this guided tour give you a clean simple path to learn modern functional programming techniques No previous functional programming experience required This book walks you through the right concepts at the right pace as you explore immutable values and explicit data transformation functions modules recursive functions pattern matching high order functions polymorphism and failure handling all while avoiding side effects Don't board the Elixir train with an imperative mindset To get the most out of functional languages you need to think functionally This book will get you there Functional programming offers useful techniques for building maintainable and scalable software that solves today s difficult problems The demand for software written in this way is increasing you don t want to miss out In this book you ll not only learn Elixir and its features you ll also learn the mindset required to program functionally Elixir's clean syntax is excellent for exploring the critical skills of using functions and concurrency Start with the basic techniques of the functional 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 Introducing Elixir Simon St. Laurent, J. David Eisenberg, 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 I 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 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 guickly 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 A Common-Sense Guide to Data Structures and Algorithms Jay Wengrow, 2017-08-03 Algorithms and data structures are much more than abstract concepts Mastering them enables you to write code that runs faster and more efficiently which is particularly important for today s web and mobile apps This book takes a practical approach to data structures and algorithms with techniques and real world scenarios that you can use in your daily production code Graphics and examples make these computer science concepts understandable and relevant You can use these techniques with any language examples in the book are in JavaScript Python and Ruby Use Big O notation the primary tool for evaluating algorithms to measure and articulate the efficiency of your code and modify your algorithm to make it faster Find out how your choice of arrays linked lists and hash tables can dramatically affect the code you write Use recursion to solve tricky problems and create algorithms that run exponentially faster than the alternatives Dig into advanced data structures such as binary trees and graphs to help scale specialized applications such as social networks and mapping software You ll even encounter a single keyword that can give your code a turbo boost Jay Wengrow brings to this book the key teaching practices he developed as a web development bootcamp founder and educator Use these techniques today to The Little Elixir & OTP Guidebook Benjamin Tan Wei Hao, 2016-09-25 make your code faster and more scalable 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 Build a Binary Clock with Elixir and Nerves Frank Hunleth, Bruce Tate, 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 Mastering the Art of Elixir Programming: Unraveling the Secrets of Expert-Level Programming Steve Jones, 2025-02-15 Unlock the full potential of Elixir with Mastering the Art of Elixir Programming Unraveling the Secrets of Expert Level Programming This comprehensive guide meticulously explores advanced techniques and practices essential for crafting resilient and scalable applications Written for experienced developers this book delves deep into Elixir's most powerful features from its impressive concurrency model and dynamic pattern matching to its robust fault tolerance and real time communication capabilities Each chapter is crafted to enhance your understanding of Elixir's unique offerings You ll discover how to leverage the power of OTP craft elegant code with advanced pattern matching and streamline development with essential libraries and tools within the Elixir ecosystem Cutting edge topics such as metaprogramming system design profiling and optimization provide you with the knowledge to build high performance applications that excel in today s demanding environments With an emphasis on practical applications and real world scenarios this guide empowers you to apply these concepts with confidence in your projects

Whether you re looking to raise the standard of your current Elixir applications or seeking to explore new possibilities within the language this book is an indispensable resource Mastering the Art of Elixir Programming is not just about learning techniques it s about gaining a deep understanding that allows you to innovate and excel in the rapidly evolving world of software development Equip yourself with the expertise needed to lead in crafting cutting edge efficient and reliable software solutions with Elixir Learning Elixir Kenny Ballou, 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 **From Ruby to Elixir** Stephen Bussey, 2024-04-23 Elixir will change the way you think about programming Use your Ruby experience to guickly 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 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 fll 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 fnishing 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 Specifc 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 **Clojurerl Programming on the BEAM** William Smith, 2025-08-19 Clojurerl Programming on the BEAM Clojurerl Programming on the BEAM is an authoritative guide to harnessing the power of modern functional programming on the Erlang virtual machine Through a comprehensive exploration of both foundational topics and advanced system design this book positions Clojurerl as a compelling language for building robust scalable and fault tolerant applications Readers are introduced to the BEAM architecture Clojurerl s origins and the practicalities of installing configuring and optimizing their development environments for maximum productivity Delving deeply into language features the text unpacks Clojurerl's Lisp inspired syntax data immutability macros and the unique way it brings BEAM native pattern matching and fault tolerant constructs into the Clojure ecosystem Advanced chapters guide the reader through sophisticated topics such as concurrency parallelism OTP design patterns and seamless interoperability with other BEAM languages and native code empowering developers to integrate Clojurerl into complex distributed polyglot systems. The final sections address the real world demands of distributed systems high performance applications testing deployment and observability Through detailed case studies rigorous testing and debugging strategies and forward looking discussions on language evolution and community best practices the book provides not only practical know how but also strategic insights for the future of functional programming on the BEAM Whether you are a BEAM veteran or new to the ecosystem Clojurerl Programming on the BEAM is an indispensable resource for building robust Phoenix in Action Geoffrey Lessel, 2019-04-26 Summary Phoenix is a modern web scalable systems with confidence 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 Euro-Par 2025: Parallel Processing Wolfgang E. Nagel, Diana Goehringer, Pedro C. Diniz, 2025-08-26 The three volume set LNCS 15900 15902 constitutes the proceedings of the 31st European Conference on Parallel and Distributed Processing Euro Par 2025 which took place in Dresden Germany during August 25 29 2025 The 78 papers included in these proceedings were carefully reviewed and selected from 264 submissions. They were organized in topical sections as follows Part I Programming compilers and performance scheduling resource management cloud edge computing and workflows Part II Architectures and accelerators data analytics AI and computational science Part III Theory and algorithms Seven More Languages in Seven Weeks multidisciplinary domain sepcific and applied parallel and distributed computing Bruce Tate, Ian Dees, Frederic Daoud, Jack Moffitt, 2014-11-19 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 guiz 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 **Programming Elixir ≥ 1.6** Dave Thomas, 2018-05-18 This book is the introduction to Elixir for experienced programmers completely updated for Elixir 1 6 and beyond Explore functional programming without the academic overtones tell me about monads just one more time Create concurrent applications butget them right without all the locking and consistency headaches Meet Elixir a modern functional concurrent language built on the rock solid Erlang VM Elixir's pragmatic syntax and built in support for metaprogramming will make you productive and keep you interested for the long haul Maybe the time is right for the Next Big Thing Maybe it s Elixir Functional programming techniques help you manage the complexities of today s real world concurrent systems maximize uptime and manage security Enter Elixir with its modern Ruby like extendable syntax compile and runtime evaluation hygienic macro system and more But just as importantly Elixir brings a sense of enjoyment to parallel functional programming Your applications become fun to work with and the language encourages you to experiment Part 1 covers the basics of writing sequential Elixir programs We ll look at the language the tools and the conventions Part 2 uses these skills to start writing concurrent code applications that use all the cores on your machine or all the machines on your network And we do it both with and without OTP Part 3 looks at the more advanced features of the language from DSLs and code generation to extending the syntax This edition is fully updated with all the new features of Elixir 1 6 with a new chapter on structuring OTP applications and new sections on the debugger code formatter Distillery and protocols What You Need You ll need a computer a little experience with another high levellanguage and a sense of adventure No functional programming experience is needed Software, System, and Service Engineering Aleksander Jarzębowicz, Ivan Luković, Adam Przybyłek, Mirosław Staroń, Muhammad Ovais Ahmad, Mirosław Ochodek, 2024-01-02 This book constitutes the refereed proceedings of the S3E 2023 Topical Area 24th Conference on Practical Aspects of and Solutions for Software Engineering KKIO 2023 and 8th Workshop on Advances in Programming Languages WAPL 2023 as Part of FedCSIS 2023 held in Warsaw Poland during September 17 20 2023 The 6 revised papers presented in this book were carefully reviewed and selected from a total of 55 submissions They focus on new ideas and developments in practical aspects and solutions for software engineering Yaws Web Server in Erlang William Smith, 2025-08-20 Yaws Web Server in Erlang Yaws Web Server in Erlang presents a comprehensive and in depth exploration of Yaws an advanced web server built atop Erlang s legendary concurrency and reliability Starting from first principles the book introduces the unique philosophies behind Yaws and the Erlang ecosystem providing readers with clarity on the server's architecture process model and how it stacks up against peers The text offers practical guidance on everything from configuring and managing virtual hosts to mastering deployment equipping developers to leverage Yaws for both standalone and embedded applications Through detailed chapters the book delves into essential topics such as lifecycle management routing dynamic content and middleware

extensibility Readers will find pragmatic approaches to building secure scalable and high performance web systems including in depth sections on static asset delivery WebSocket communication secure session management and fine tuned process supervision Ever mindful of real world needs the book unpacks strategies for handling large volumes of traffic zero downtime upgrades load balancing and hardening Yaws against sophisticated web threats Beyond the core Yaws Web Server in Erlang explores integration with databases messaging systems and authentication providers rounding out the picture with modern DevOps practices Readers will benefit from guidance on continuous integration infrastructure automation production observability and advanced topics such as real time architectures serverless patterns and edge deployments Packed with insights case studies and best practices this book is an indispensable guide for engineers seeking to master Erlang based web serving in modern mission critical environments Code with the Wisdom of the Crowd Mark Pearl, 2018-07-05 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

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Metaprogramming Elixir Introduction

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