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   *Erlang and Elixir for Imperative Programmers* Wolfgang Loder,2016-11-26 Learn and understand Erlang and Elixir and develop a working knowledge of the concepts of functional programming that underpin them This book takes the author s experience of taking on a project that required functional programming and real time systems breaks it down and organizes it You will get the necessary knowledge about differences to the languages you know where to start and where to go next Have you been told by your customer or manager that they heard good things about Erlang you should use it for the next project Never had to deal with functional programming or real time systems In 2014 the author Wolfgang Loder developed a repository for digital assets that had to deliver those assets in binary form quickly and reliably being able to deal with at least hundreds of requests per second Since he could decide the architecture and software stack of the solution he immediately thought of Erlang and its libraries and started to evaluate this option It was not long after that he discovered Elixir which sits on top of the Erlang virtual machine and has features more palatable for non functional programmers although it is a functional programming language itself Erlang and Elixir for Imperative Programmers gives you a basis for deciding whether the effort is viable for your next project This book is partly a tale of the author s own experience and partly a description of the bigger and more subtle differences between Erlang Elixir and languages such as C Java and C What You ll Learn Discover functional programming Erlang and Elixir Work on service design and service features Set up your environment deployment development and production Implement the service including public interface asset processing and deployment Use the patterns and concepts found in Erlang including type

creation concepts and code structuring Who This Book Is For Experienced and savvy programmers coders and developers new to Erlang and Elixir   Seven More Languages in Seven Weeks 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 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   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 make your code faster and more scalable   **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 **Elixir Metaprogramming** Daniel C Price,2025-11-05 Have you ever looked at a Phoenix Router or Ecto Schema and wondered How does that actually work You see use plug get and schema and they just feel like part of the language but you know they are not This black box is where many developers get stuck You ve probably used quote and unquote for simple tasks but you are not sure how to combine them into a powerful tool I ve been there This book is designed to turn that black box into a clear glass one I will show you that the magic of Elixir s best libraries is actually a set of simple repeatable patterns that you can learn and master You will move from being confused by this power to being in complete control of it What s inside This book is a step by step journey and here is a look at what we will cover See Your Code as Data A deep look at the Abstract Syntax Tree AST the one concept that makes everything else possible Master quote and unquote Learn to read and build new code programmatically Write Your First Macro A step by step guide to building defmacro understanding the Two Timelines of compile time and runtime Control Macro Hygiene Understand how Elixir protects your variables and how to intentionally break that protection with var Generate Functions Learn to use module attributes and compile callbacks before_compile to build powerful multi part modules Build Your Own DSL A hands on multi part case study where we build a mini testing framework like ExUnit from scratch Demystify use and __using__ Learn how libraries like Phoenix inject code into your modules and how to build your own Debug Like a Pro Master the tools IO inspect Macro to_string Macro expand for troubleshooting your compile time code Deconstruct Real World Code We ll pull apart Phoenix Controller Phoenix Router and Ecto Schema to prove it is all just macros Who it s meant for This book is not for the brand new Elixir developer This book is for you the intermediate to advanced Elixir programmer who has hit a plateau This book is for you if You are comfortable with defmodule and def You want to understand the how behind Phoenix and Ecto not just the what You want to write your own powerful clean and reusable libraries You are ready to move from being an Elixir user to an Elixir architect Stop letting metaprogramming be a black box The most powerful parts of Elixir are open to you This book is the key Turn your confusion into confidence and start writing the code you ve always wondered how to build Get your copy today and unlock the true potential of Elixir Introducing Elixir Simon St. Laurent,J. David Eisenberg,2014-09-10 Elixir is an excellent language if you want to learn about functional programming and with this hands on introduction you ll discover just how powerful and fun Elixir can be This language combines the robust functional programming of Erlang with a syntax similar to Ruby and includes powerful features for metaprogramming This book shows you how to 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 Discover atoms pattern matching and guards the foundations of your program structure Delve into the heart of Elixir with recursion strings lists and higher order functions Create processes send messages among them and apply pattern matching to incoming messages Store and manipulate structured data with Erlang Term Storage and the Mnesia database Build resilient applications with Erlang s Open Telecom Platform Define macros with Elixir s metaprogramming tools   *Advanced Elixir* Axionics Ltd,2025-06-27 Bend Elixir to your will This advanced guide reveals how Elixir s metaprogramming capabilities let you write code that writes code Perfect for library authors and developers who want to craft elegant domain specific languages What s Inside Macros Deep Dive When and how to use them responsibly DSL Design Create beautiful expressive APIs Compile Time Magic Hook into Elixir s compilation process Protocols Behaviors Polymorphism the Elixir way AST Manipulation Transform code at the syntactic level Why This Book Most metaprogramming guides either oversimplify or overwhelm This book strikes the perfect balance teaching powerful techniques while emphasizing maintainability   **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 interestedfor 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 programmingexperience is needed   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   Build Your Own Web Framework in Elixir Aditya Iyengar,Eric Sullivan,2023-06-16 Discover the secrets of building high performing and scalable web applications with clean code using Elixir s metaprogramming Purchase of the print or Kindle book includes a free PDF eBook Key Features Explore the various web servers available to build robust web applications Leverage Elixir s powerful Plug module to build a request response pipeline Explore advanced techniques of Elixir to create Domain Specific languages and build scalable maintainable web products Book Description Elixir s functional nature and metaprogramming capabilities make it an ideal language for building web frameworks with Phoenix being the most ubiquitous framework in the Elixir ecosystem and a popular choice for companies seeking scalable web based products With an ever increasing demand for Elixir engineers developers can accelerate their careers by learning Elixir and the

Phoenix web framework With Build Your Own Web Framework in Elixir you ll start by exploring the fundamental concepts of web development using Elixir You ll learn how to build a robust web server and create a router to direct incoming requests to the correct controller Then you ll learn to dispatch requests to controllers to respond with clean semantic HTML and explore the power of Domain Specific Languages DSL and metaprogramming in Elixir You ll develop a deep understanding of Elixir s unique syntax and semantics allowing you to optimize your code for performance and maintainability Finally you ll discover how to effectively test each component of your application for accuracy and performance By the end of this book you ll have a thorough understanding of how Elixir components are implemented within Phoenix and how to leverage its powerful features to build robust web applications What you will learn Get a comprehensive understanding of the Phoenix framework built on Elixir Use metaprogramming to optimize your Elixir code and create high performance web applications Explore web development fundamentals including the principles of HTTP and HTML Employ Elixir s templating engine to dispatch requests to a controller and respond with dynamically generated HTML Improve the scalability and responsiveness of your web server by using OTP constructs Streamline your routing logic using error handling Who this book is for This book is for web developers seeking to deepen their understanding of Elixir s role in the Phoenix framework Basic familiarity with Elixir is a must   *Programming Elixir 1.3* Dave Thomas,David Thomas,2016 Explore functional programming without the academic overtones tell me about monads just one more time Create concurrent applications but get 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 This book is the introduction to Elixir for experienced programmers completely updated for Elixir 1 3 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 toextending the syntax This edition is fully updated with all the new features of Elixir 1 3 with a new chapter on Tooling covering testing both conventional and property based code and dependency exploration and servermonitoring By the end of this book you ll understand Elixir and know how to apply it to solve your complex modern problems What You Need You ll need a computer a little experience with another high level language and a sense of adventure No functional programming experience is needed   **Programming Elixir 1.3** Dave

Thomas,2016 **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 **IronPython in Action** Michael J. Foord,2009 A comprehensive hands on introduction to Microsoft s version of Python for the NET framework The book shows how to use IronPython with C VB NET and ASP NET applications Readers will use IronPython as a Windows scripting tool and see how it connects to PowerShell <u>Build Your Own Web Framework in Elixir</u> ADITYA. IYENGAR,2022-05 **Programming Elixir 1.2** David Thomas,2016 You want to explore functional programming but are put off by the academic feel tell me about monads just one more time You know you need concurrent applications but also know these are almost impossible to get right Meet Elixir a 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 This book is the introduction to Elixir for experienced programmers Maybe you need something that s closer to Ruby but with a battle proven environment that s unrivaled for massive scalability concurrency distribution and fault tolerance Maybe the time is right for the Next Big Thing Maybe it s Elixir This edition of the book has been updated to cover Elixir 1 2 including the new with expression the exrm release manager and the removal of deprecated types As a developer you ve probably heard that functional programming techniques help manage the complexities of today s real world concurrent systems You re also investigating designs that help you maximize uptime and manage security This book is your guide to Elixir a modern functional and concurrent programming language Because Elixir runs on the Erlang VM and uses the underlying Erlang OTP architecture it benefits from almost 20 years of research into high performance highly parallel

and seriously robust applications Elixir brings a lot that s new a modern Ruby like extendable syntax compile and runtime evaluation a 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 And Part 3 looks at the more advanced features of the language from DSLs and code generation to extending the syntax By the end of this book you ll understand Elixir and know how to apply it to solve your complex modern problems **Introducing Elixir** Simon St. Laurent,2014 **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

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Metaprogramming Elixir Introduction

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