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Michael Pilquist Alvin Alexander

learn how to think and write code like a functional programmer with this practical guide software developers familiar with object oriented programming will dive into the core concepts of functional programming and learn how to use both functional and oop features together on large or complex software projects author jack widman uses samples from java python c scala and javascript to help you gain a new perspective and a set of tools for managing the complexity in your problem domain you ll be able to write code that s simpler reusable easier to test and modify and more consistently correct this book also shows you how to use patterns from category theory to help bridge the gap between oop and functional programming learn functional programming fundamentals and explore the way functional programmers approach problems understand how fp differs from object oriented and imperative programming use a set of practical applicable design patterns that model reality in a functional way learn how to incorporate fp and oop features into software projects apply functional design patterns appropriately and use them to write correct robust and easily modifiable code

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this book teaches functional programming using haskell and examples drawn from multimedia applications

function literals monads lazy evaluation currying and more about this book write concise and maintainable code with streams and high order functions understand the benefits of currying your go lang functions learn the most effective design patterns for functional programming and learn when to apply each of them build distributed mapreduce solutions using go who this book is for this book is for go lang developers comfortable with oop and interested in learning how to apply the functional paradigm to create robust and testable apps prior programming experience with go would be helpful but not mandatory what you will learn learn how to compose reliable applications using high order functions explore techniques to eliminate side effects using fp techniques such as currying use first class functions to implement pure functions understand how to implement a lambda expression in go compose a working application using the decorator pattern create faster programs using lazy evaluation use go concurrency constructs to compose a functionality pipeline understand category theory and what it has to do with fp in detail functional programming is a popular programming paradigm that is used to simplify many tasks and will help you write flexible and succinct code it allows you to decompose your programs into smaller highly reusable components without applying conceptual restraints on how the software should be modularized this book bridges the language gap for go lang developers by showing you how to create and consume functional constructs in go lang the book is divided into four modules the first module explains the functional style of programming pure functional programming fp manipulating collections and using high order functions in the second module you will learn design patterns that you can use to build fp style applications in the next module you will learn fp techniques that you can use to improve your api signatures to increase performance and to build better cloud native applications the last module delves into the underpinnings of fp with an introduction to category theory for software developers to give you a real understanding of what pure functional programming is all about along with applicable code examples by the end of the book you will be adept at building applications the functional way style and approach this book takes a pragmatic approach and shows you techniques to write better functional constructs in go lang we ll also show you how use these concepts to build robust and testable apps

function literals monads lazy evaluation currying and more about this book write concise and maintainable code with streams and high order functions understand the benefits of currying your go lang functions learn the most effective design patterns for functional programming and learn when to apply each of them build distributed mapreduce

solutions using go who this book is for this book is for go lang developers comfortable with oop and interested in learning how to apply the functional paradigm to create robust and testable apps prior programming experience with go would be helpful but not mandatory what you will learn learn how to compose reliable applications using high order functions explore techniques to eliminate side effects using fp techniques such as currying use first class functions to implement pure functions understand how to implement a lambda expression in go compose a working application using the decorator pattern create faster programs using lazy evaluation use go concurrency constructs to compose a functionality pipeline understand category theory and what it has to do with fp in detail functional programming is a popular programming paradigm that is used to simplify many tasks and will help you write flexible and succinct code it allows you to decompose your programs into smaller highly reusable components without applying conceptual restraints on how the software should be modularized this book bridges the language gap for go lang developers by showing you how to create and consume functional constructs in go lang the book is divided into four modules the first module explains the functional style of programming pure functional programming fp manipulating collections and using high order functions in the second module you will learn design patterns that you can use to build fp style applications in the next module you will learn fp techniques that you can use to improve your api signatures to increase performance and to build better cloud native applications the last module delves into the underpinnings of fp with an introduction to category theory for software developers to give you a real understanding of what pure functional programming is all about along with applicable code examples by the end of the book you will be adept at building applications the functional way style and approach this book takes a pragmatic approach and shows you techniques to write better functional constructs in go lang we ll also show you how use these concepts to build robust and testable apps

functional programming in kotlin teaches you how to design and write kotlin applications using typed functional programming offering clear examples carefully presented explanations and extensive exercises it moves from basic subjects like types and data structures to advanced topics such as stream processing this book is based on the bestseller functional programming in scala by rúnar bjarnason and paul chiusano

in today s world fully functional web applications are a key requirement and a necessity we can have a run through developing web applications that includes server side as well as the client side programming using fable f to javascript

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learn functional data structures and algorithms for your applications and bring their benefits to your work now about this book moving from object oriented programming to functional programming this book will help you get started with functional programming easy to understand explanations of practical topics will help you get started with functional data structures illustrative diagrams to explain the algorithms in detail get hands on practice of scala to get the most out of functional programming who this book is for this book is for those who have some experience in functional programming languages the data structures in this book are primarily written in scala however implementing the algorithms in other functional languages should be straight forward what you will learn learn to think in the functional

paradigm understand common data structures and the associated algorithms as well as the context in which they are commonly used take a look at the runtime and space complexities with the O notation see how adts are implemented in a functional setting explore the basic theme of immutability and persistent data structures find out how the internal algorithms are redesigned to exploit structural sharing so that the persistent data structures perform well avoiding needless copying get to know functional features like lazy evaluation and recursion used to implement efficient algorithms gain scala best practices and idioms in detail functional data structures have the power to improve the codebase of an application and improve efficiency with the advent of functional programming and with powerful functional languages such as scala clojure and elixir becoming part of important enterprise applications functional data structures have gained an important place in the developer toolkit immutability is a cornerstone of functional programming immutable and persistent data structures are thread safe by definition and hence very appealing for writing robust concurrent programs how do we express traditional algorithms in functional setting won't we end up copying too much do we trade performance for versioned data structures this book attempts to answer these questions by looking at functional implementations of traditional algorithms it begins with a refresher and consolidation of what functional programming is all about next you'll get to know about lists the work horse data type for most functional languages we show what structural sharing means and how it helps to make immutable data structures efficient and practical scala is the primary implementation languages for most of the examples at times we also present clojure snippets to illustrate the underlying fundamental theme while writing code we use adts abstract data types stacks queues trees and graphs are all familiar adts you will see how these adts are implemented in a functional setting we look at implementation techniques like amortization and lazy evaluation to ensure efficiency by the end of the book you will be able to write efficient functional data structures and algorithms for your applications style and approach step by step topics will help you get started with functional programming learn by doing with hands on code snippets that give you practical experience of the subject

create robust and maintainable java applications using the functional style of programming about this book explore how you can blend object oriented and functional programming styles in java use lambda expressions to write flexible and succinct code a tutorial that strengthens your fundamentals in functional programming techniques to enhance your applications who this book is for if you are a java developer with object oriented experience and want to use a

functional programming approach in your applications then this book is for you all you need to get started is familiarity with basic java object oriented programming concepts what you will learn use lambda expressions to simplify code use function composition to achieve code fluency apply streams to simply implementations and achieve parallelism incorporate recursion to support an application s functionality provide more robust implementations using optionals implement design patterns with less code refactor object oriented code to create a functional solution use debugging and testing techniques specific to functional programs in detail functional programming is an increasingly popular technology that allows you to simplify many tasks that are often cumbersome and awkward using an object oriented approach it is important to understand this approach and know how and when to apply it functional programming requires a different mindset but once mastered it can be very rewarding this book simplifies the learning process as a problem is described followed by its implementation using an object oriented approach and then a solution is provided using appropriate functional programming techniques writing succinct and maintainable code is facilitated by many functional programming techniques including lambda expressions and streams in this book you will see numerous examples of how these techniques can be applied starting with an introduction to lambda expressions next you will see how they can replace older approaches and be combined to achieve surprisingly elegant solutions to problems this is followed by the investigation of related concepts such as the optional class and monads which offer an additional approach to handle problems design patterns have been instrumental in solving common problems you will learn how these are enhanced with functional techniques to transition from an object oriented approach to a functional one it is useful to have ide support ide tools to refactor debug and test functional programs are demonstrated through the chapters the end of the book brings together many of these functional programming techniques to create a more comprehensive application you will find this book a very useful resource to learn and apply functional programming techniques in java style and approach in this tutorial each chapter starts with an introduction to the terms and concepts covered in that chapter it quickly progresses to contrast an object oriented approach with a functional approach using numerous code examples

summary functional programming in scala is a serious tutorial for programmers looking to learn fp and apply it to the everyday business of coding the book guides readers from basic techniques to advanced topics in a logical concise and clear progression in it you ll find concrete examples and exercises that open up the world of functional programming

purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the technology functional programming fp is a style of software development emphasizing functions that don't depend on program state functional code is easier to test and reuse simpler to parallelize and less prone to bugs than other code scala is an emerging jvm language that offers strong support for fp its familiar syntax and transparent interoperability with java make scala a great place to start learning fp about the book functional programming in scala is a serious tutorial for programmers looking to learn fp and apply it to their everyday work the book guides readers from basic techniques to advanced topics in a logical concise and clear progression in it you'll find concrete examples and exercises that open up the world of functional programming this book assumes no prior experience with functional programming some prior exposure to scala or java is helpful what's inside functional programming concepts the whys and hows of fp how to write multicore programs exercises and checks for understanding about the authors paul chiusano and rúnar bjarnason are recognized experts in functional programming with scala and are core contributors to the scalaz library table of contents part 1 introduction to functional programming what is functional programming getting started with functional programming in scala functional data structures handling errors without exceptions strictness and laziness purely functional state part 2 functional design and combinator libraries purely functional parallelism property based testing parser combinators part 3 common structures in functional design monoids monads applicative and traversable functors part 4 effects and i/o external effects and i/o local effects and mutable state stream processing and incremental i/o

have you ever returned to your own code after six months only to find it completely unreadable or have you ever fixed a bug in one part of your program only to have two new mysterious bugs pop up somewhere else this is an incredibly common and frustrating part of programming it often comes from code that is too complex with too many parts changing each other in ways that are hard to track what if you could build programs that were clear predictable and even provably correct from the start this book is your guide to that very what if we'll leave behind the quick and messy approach and learn how to build solid reliable systems this isn't just about learning racket it's about changing your relationship with code for the better what's inside i've structured this book as a clear path with each chapter building directly on the last you will learn your first steps we'll get racket installed and write your first hello racket program we'll cover the single most important idea the everything is an expression mindset the building blocks you'll learn to

define your own variables and functions and control your program's flow with if and cond the power of recursion you'll master recursion as the functional way to perform repetitive tasks starting with simple math and moving to complex list processing mastering your data we'll explore racket's most important data structure the list and learn to use the powerful map filter and foldl functions building your own types you'll move beyond lists and learn to define your own custom safe and readable data types using struct advanced functional techniques you'll learn how to treat functions as data pass them to other functions create functions on the fly with lambda and understand closures building a maintainable system we'll cover the big picture of a real application you'll organize your code into modules handle errors gracefully and write automated tests to ensure your code works final project you'll put it all together to build a complete command line to do list manager from scratch who it's meant for i wrote this book for you whether you are a new programmer looking for a solid practical foundation that teaches good habits from day one a developer familiar with other languages like python java or javascript who wants to finally understand what functional programming is all about a student in a programming course who wants a clear step by step guide to supplement your class materials anyone who is tired of writing messy hard to debug code and wants to learn a more elegant and powerful way to build software you do not need any prior experience with racket or functional programming to succeed with this book don't just learn another language it's time to learn a new better way to solve problems stop fighting with unpredictable fragile code take the first step toward writing the clean maintainable and reliable systems you've always wanted to build your journey to becoming a more confident effective and functional programmer starts in chapter 1 buy the book and let's get started

this international bestseller has been revised with new exercises annotations and full coverage of scala 3 in functional programming in scala second edition you will learn how to recognize and write purely functional code work with errors without using exceptions work with state and concurrency interact with functional structures that define common behaviors write code that performs i/o without sacrificing functional programming functional programming in scala has helped over 30 000 developers discover the power of functional programming you'll soon see why reviewers have called it mindblowing the book smooths the complexity curve of functional programming making it simple to understand the basics and intuitive to progress to more advanced topics concrete examples and exercises show you fp in the real world and reveal how it can improve your everyday coding practices this second edition comes packed with

the latest standards of fp as well as full code updates to scala 3 and its new language features foreword by daniel spiewak about the technology functional code is easy to test reuse and parallelize and it s practically immune to whole categories of state related bugs with its strong functional features familiar syntax and seamless interoperability with java there s no better place to start learning functional programming than the flexible scala language about the book in functional programming with scala second edition you ll learn functional programming from first principles hands on exercises and examples make it easy to start thinking and coding functionally this revised edition contains extensive exercise annotations to help you explore fp in depth along with steps to build your own functional libraries in scala once the functional lightbulb goes on you ll never look at coding the same way again what s inside recognize and write purely functional code work with errors without using exceptions work with state and concurrency interact with functional structures that define common behaviors about the reader for java or scala programmers no knowledge of functional programming required about the author michael pilquist is the lead maintainer of fs2 a functional streaming library and contributes to the typelevel ecosystem paul chiusano and rúnar bjarnason are recognized experts in functional programming and authors of the first edition of functional programming with scala table of contents part 1 introduction to functional programming 1 what is functional programming 2 getting started with functional programming in scala 3 functional data structures 4 handling errors without exceptions 5 strictness and laziness 6 purely functional state part 2 functional design and combinator libraries 7 purely functional parallelism 8 property based testing 9 parser combinators part 3 common structures in functional design 10 monoids 11 monads 12 applicative and traversable functors part 4 effects and i o 13 external effects and i o 14 local effects and mutable state 15 stream processing and incremental i o

learn how to write more robust and maintainable swift code by making the switch to functional programming

this international bestseller has been revised with new exercises annotations and full coverage of scala 3 in functional programming in scala second edition you will learn how to recognize and write purely functional code work with errors without using exceptions work with state and concurrency interact with functional structures that define common behaviors write code that performs i o without sacrificing functional programming functional programming in scala has helped over 30 000 developers discover the power of functional programming you ll soon see why reviewers have called it mindblowing the book smooths the complexity curve of functional programming making it simple to

understand the basics and intuitive to progress to more advanced topics concrete examples and exercises show you fp in the real world and reveal how it can improve your everyday coding practices this second edition comes packed with the latest standards of fp as well as full code updates to scala 3 and its new language features about the technology functional code is easy to test reuse and parallelize and it s practically immune to whole categories of state related bugs with its strong functional features familiar syntax and seamless interoperability with java there s no better place to start learning functional programming than the flexible scala language about the book in functional programming in scala second edition you ll learn functional programming from first principles hands on exercises and examples make it easy to start thinking and coding functionally this revised edition contains extensive exercise annotations to help you explore fp in depth along with steps to build your own functional libraries in scala once the functional lightbulb goes on you ll never look at coding the same way again what s inside recognize and write purely functional code work with errors without using exceptions work with state and concurrency interact with functional structures that define common behaviors about the reader for java or scala programmers no knowledge of functional programming required about the authors michael pilquist is the lead maintainer of fs2 a functional streaming library and contributes to the typelevel ecosystem paul chiusano and rúnar bjarnason are recognized experts in functional programming and authors of the first edition of functional programming with scala quotes functional programming in scala both the technique and the book have entrenched themselves firmly in the landscape of the language and ecosystem this new edition is an effective companion for the community inventing tomorrow from the foreword by daniel spiewak creator of cats effect deepen your understanding of practical functional programming in scala with this the ultimate guide bill venners artima the first edition of fpis was one of the turning points in my journey through the fp rabbit hole it was eye opening to be able to prove that one typeclass interface is equivalent to another the book s second edition preserves the unique vision of fpis to guide readers via practical coding idioms towards a mathematically rigorous approach in fp sergei winitzki workday

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Introduction

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