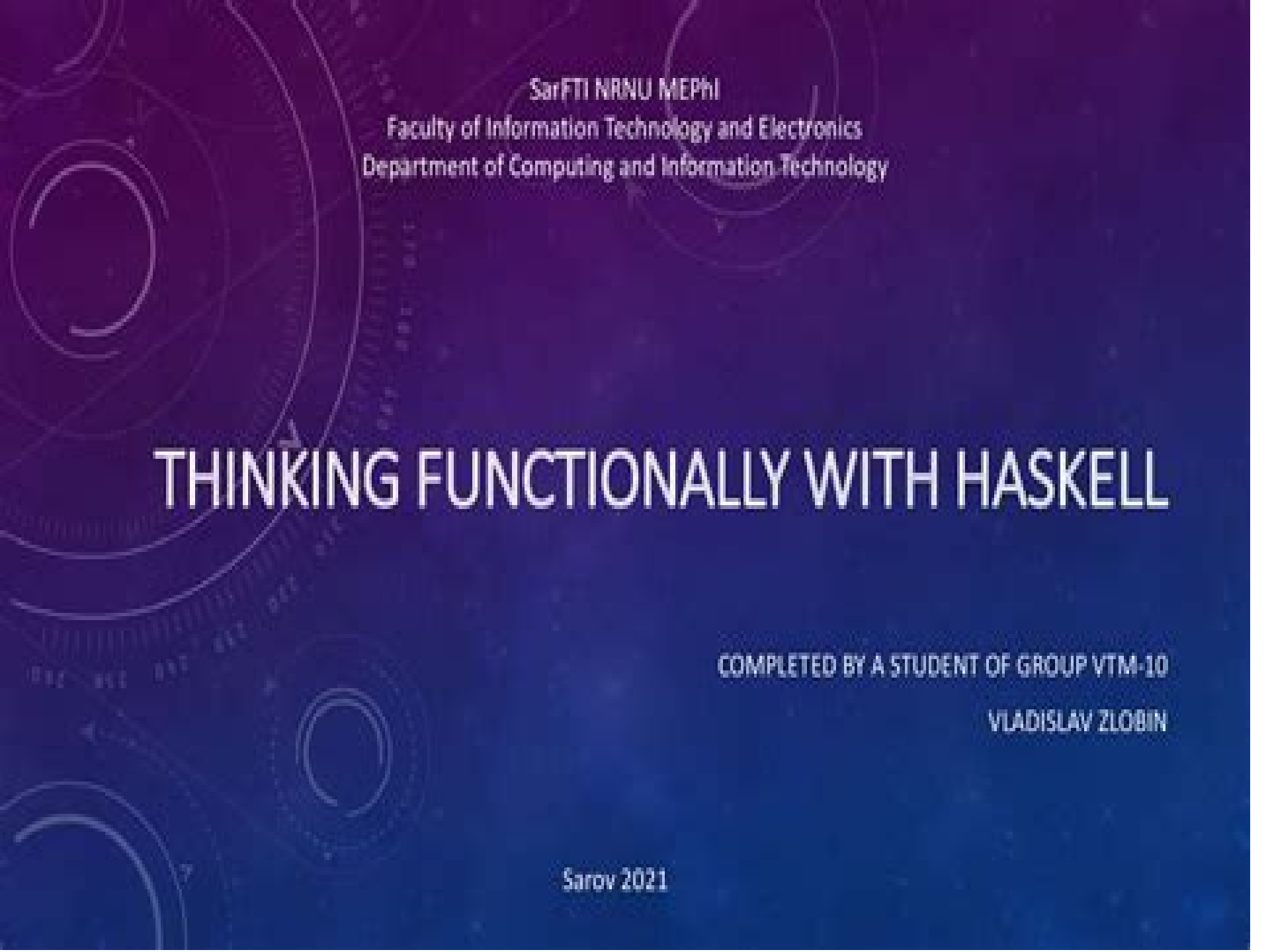




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Faculty of Information Technology and Electronics
Department of Computing and Information Technology

THINKING FUNCTIONALLY WITH HASKELL

COMPLETED BY A STUDENT OF GROUP VTM-10

VLADISLAV ZLOBIN

Sarov 2021

Thinking Functionally With Haskell

Michael Swaine



Thinking Functionally With Haskell:

Thinking Functionally with Haskell Richard Bird, 2014-10-09 Richard Bird is famed for the clarity and rigour of his writing. His new textbook which introduces functional programming to students emphasises fundamental techniques for reasoning mathematically about functional programs. By studying the underlying equational laws, the book enables students to apply calculational reasoning to their programs both to understand their properties and to make them more efficient. The book has been designed to fit a first or second year undergraduate course and is a thorough overhaul and replacement of his earlier textbooks. It features case studies in Sudoku and pretty printing and over 100 carefully selected exercises with solutions. This engaging text will be welcomed by students and teachers alike.

Thinking Functionally with Haskell

Richard Bird, 2015 This book introduces fundamental techniques for reasoning mathematically about functional programs. Ideal for a first or second year undergraduate course. *Algorithm Design with Haskell* Richard Bird, Jeremy

Gibbons, 2020-07-09 This book is devoted to five main principles of algorithm design: divide and conquer, greedy algorithms, thinning, dynamic programming, and exhaustive search. These principles are presented using Haskell, a purely functional language, leading to simpler explanations and shorter programs than would be obtained with imperative languages. Carefully selected examples, both new and standard, reveal the commonalities and highlight the differences between algorithms. The algorithm developments use equational reasoning where applicable, clarifying the applicability conditions and correctness arguments. Every chapter concludes with exercises, nearly 300 in total, each with complete answers, allowing the reader to consolidate their understanding and apply the techniques to a range of problems. The book serves students both undergraduate and postgraduate, researchers, teachers, and professionals who want to know more about what goes into a good algorithm and how such algorithms can be expressed in purely functional terms.

Type-Driven Development with Idris

Edwin Brady, 2017-03-13 Summary: Type Driven Development with Idris, written by the creator of Idris, teaches you how to improve the performance and accuracy of your programs by taking advantage of a state-of-the-art type system. This book teaches you with Idris, a language designed to support type-driven development. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology: Stop fighting type errors. Type-driven development is an approach to coding that embraces types as the foundation of your code, essentially as built in documentation. Your compiler can use to check data relationships and other assumptions. With this approach, you can define specifications early in development and write code that's easy to maintain, test, and extend. Idris is a Haskell-like language with first-class dependent types that's perfect for learning type-driven programming techniques you can apply in any codebase. About the Book: Type Driven Development with Idris teaches you how to improve the performance and accuracy of your code by taking advantage of a state-of-the-art type system. In this book, you'll learn type-driven development of real-world software as well as how to handle side effects, interaction, state, and concurrency. By the end, you'll be able to develop robust

and verified software in Idris and apply type driven development methods to other languages

What's Inside Understanding dependent types Types as first class language constructs Types as a guide to program construction Expressing relationships between data About the Reader Written for programmers with knowledge of functional programming concepts About the Author Edwin Brady leads the design and implementation of the Idris language Table of Contents PART 1 INTRODUCTION Overview Getting started with Idris PART 2 CORE IDRIS Interactive development with types User defined data types Interactive programs input and output processing Programming with first class types Interfaces using constrained generic types Equality expressing relationships between data Predicates expressing assumptions and contracts in types Views extending pattern matching PART 3 IDRIS AND THE REAL WORLD Streams and processes working with infinite data Writing programs with state State machines verifying protocols in types Dependent state machines handling feedback and errors Type safe concurrent programming

Practical Concurrent Haskell Stefania Loredana Nita, Marius Mihailescu, 2017-09-14 Learn to use the APIs and frameworks for parallel and concurrent applications in Haskell This book will show you how to exploit multicore processors with the help of parallelism in order to increase the performance of your applications Practical Concurrent Haskell teaches you how concurrency enables you to write programs using threads for multiple interactions After accomplishing this you will be ready to make your move into application development and portability with applications in cloud computing and big data You'll use MapReduce and other similar big data tools as part of your Haskell big data applications development What You'll Learn Program with Haskell Harness concurrency to Haskell Apply Haskell to big data and cloud computing applications Use Haskell concurrency design patterns in big data Accomplish iterative dataprocessing on big data using Haskell Use MapReduce and work with Haskell on large clusters Who This Book Is For Those with at least some prior experience with Haskell and some prior experience with big data in another programming language such as Java C Python or C

Recent Advances in Information Systems and Technologies Álvaro Rocha, Ana Maria Correia, Hojjat Adeli, Luís Paulo Reis, Sandra Costanzo, 2017-03-27 This book presents a selection of papers from the 2017 World Conference on Information Systems and Technologies WorldCIST 17 held between the 11st and 13th of April 2017 at Porto Santo Island Madeira Portugal WorldCIST is a global forum for researchers and practitioners to present and discuss recent results and innovations current trends professional experiences and challenges involved in modern Information Systems and Technologies research together with technological developments and applications The main topics covered are Information and Knowledge Management Organizational Models and Information Systems Software and Systems Modeling Software Systems Architectures Applications and Tools Multimedia Systems and Applications Computer Networks Mobility and Pervasive Systems Intelligent and Decision Support Systems Big Data Analytics and Applications Human Computer Interaction Ethics Computers Health Informatics Information Technologies in Education and Information Technologies in Radiocommunications

Mathematical Modelling by Help of Category Theory Dmitrii Legatiuk, 2025-03-19 This

monograph offers a novel structural perspective on the modelling of engineering problems utilizing abstract mathematics in the form of category theory. Specifically, the book aims to enhance the understanding of mathematical modelling by developing a category theory based framework. Category theory is employed to establish clear relationships between mathematical models and their complexities. The theory is then extended to encompass coupled mathematical models incorporating more advanced categorical structures. To bridge theory and practice, the book presents engineering applications of the abstract categorical framework, providing various modelling examples from real world engineering scenarios. Additionally, it introduces initial concepts for automatic model generation and error detection in modelling. The theory developed here demonstrates the practical utility of category theory, making this book a valuable resource for researchers in applied mathematics and engineering, particularly those focused on theoretical foundations of modelling.

Models, Algorithms, Logics and Tools Luca Aceto, Giorgio Bacci, Giovanni Bacci, Anna Ingólfssdóttir, Axel Legay, Radu Mardare, 2017-08-17 This Festschrift is published in honor of Kim Guldstrand Larsen, one of the earliest precursors of computer science in Denmark on the occasion of his 60th birthday. During the last three decades, Kim Guldstrand Larsen has given major contributions across a remarkably wide range of topics, including real time concurrent and probabilistic models of computation, logic in computer science and model checking. Since 1995, he has been one of the prime movers behind the model checking tool for real time systems UPPAAL, for which he was a co-recipient of the CAV Award in 2013. The Festschrift contains 32 papers that feature the broad range of Kim Guldstrand Larsen's research topics, such as formal languages and automata theory, logic verification, model checking and testing, algorithmic game theory and mechanism design, semantics and reasoning, real time and distributed systems, and modeling and simulation. *Unifying Theories of Programming* Jonathan P. Bowen, Huibiao Zhu, 2017-01-10 This book constitutes the refereed proceedings of the 6th International Symposium on Unifying Theories of Programming UTP 2016, held in Reykjavik, Iceland, in June 2016, in conjunction with the 12th International Conference on Integrated Formal Methods iFM 2016. The 8 revised full papers presented were carefully reviewed and selected from 10 submissions. They deal with the fundamental problem of combination of formal notations and theories of programming that define in various different ways many common notions, such as abstraction, refinement, choice, termination, feasibility, locality, concurrency, and communication. They also show that, despite many differences, such theories may be unified in a way that greatly facilitates their study and comparison.

Get Programming with Haskell Will Kurt, 2018-03-06 Summary: *Get Programming with Haskell* leads you through short lessons, examples, and exercises designed to make Haskell your own. It has crystal clear illustrations and guided practice. You will write and test dozens of interesting programs and dive into custom Haskell modules. You will gain a new perspective on programming, plus the practical ability to use Haskell in the everyday world. The 80 IQ points are not guaranteed. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology: Programming languages often differ only around

the edges a few keywords libraries or platform choices Haskell gives you an entirely new point of view To the software pioneer Alan Kay a change in perspective can be worth 80 IQ points and Haskellers agree on the dramatic benefits of thinking the Haskell way thinking functionally with type safety mathematical certainty and more In this hands on book that s exactly what you ll learn to do What s Inside Thinking in Haskell Functional programming basics Programming in types Real world applications for Haskell About the Reader Written for readers who know one or more programming languages Table of Contents Lesson 1 Getting started with Haskell Unit 1 FOUNDATIONS OF FUNCTIONAL PROGRAMMING Lesson 2 Functions and functional programming Lesson 3 Lambda functions and lexical scope Lesson 4 First class functions Lesson 5 Closures and partial application Lesson 6 Lists Lesson 7 Rules for recursion and pattern matching Lesson 8 Writing recursive functions Lesson 9 Higher order functions Lesson 10 Capstone Functional object oriented programming with robots Unit 2 INTRODUCING TYPES Lesson 11 Type basics Lesson 12 Creating your own types Lesson 13 Type classes Lesson 14 Using type classes Lesson 15 Capstone Secret messages Unit 3 PROGRAMMING IN TYPES Lesson 16 Creating types with and and or Lesson 17 Design by composition Semigroups and Monoids Lesson 18 Parameterized types Lesson 19 The Maybe type dealing with missing values Lesson 20 Capstone Time series Unit 4 IO IN HASKELL Lesson 21 Hello World introducing IO types Lesson 22 Interacting with the command line and lazy I O Lesson 23 Working with text and Unicode Lesson 24 Working with files Lesson 25 Working with binary data Lesson 26 Capstone Processing binary files and book data Unit 5 WORKING WITH TYPE IN A CONTEXT Lesson 27 The Functor type class Lesson 28 A peek at the Applicative type class using functions in a context Lesson 29 Lists as context a deeper look at the Applicative type class Lesson 30 Introducing the Monad type class Lesson 31 Making Monads easier with donotation Lesson 32 The list monad and list comprehensions Lesson 33 Capstone SQL like queries in Haskell Unit 6 ORGANIZING CODE AND BUILDING PROJECTS Lesson 34 Organizing Haskell code with modules Lesson 35 Building projects with stack Lesson 36 Property testing with QuickCheck Lesson 37 Capstone Building a prime number library Unit 7 PRACTICAL HASKELL Lesson 38 Errors in Haskell and the Either type Lesson 39 Making HTTP requests in Haskell Lesson 40 Working with JSON data by using Aeson Lesson 41 Using databases in Haskell Lesson 42 Efficient stateful arrays in Haskell Afterword What s next Appendix Sample answers to exercise [Introduction to Functional Programming with Haskell](#) Renata Sloane,2025-06-22 Think Functionally Code Elegantly with Haskell Step into the world of functional programming with Haskell one of the most powerful and expressive programming languages ever created This beginner friendly guide introduces you to the core principles of functional thinking and shows you how to write clean predictable and bug resistant code using pure functions immutability recursion and first class functions Whether you re a self taught developer a CS student or a seasoned coder curious about functional programming this book provides a hands on example driven approach to learning Haskell from the ground up What You ll Learn What makes functional programming different Understanding immutability and referential transparency Writing and composing pure functions Function

application currying and lambda expressions Recursion as a control structure Haskell's powerful type system Monads Functors and type classes in plain English Building CLI apps with Haskell Functional error handling and IO Real world examples and exercises **A Gentle Introduction to Functional Programming in English [Third Edition]** Antoine Bossard, 2020-04-16 Haskell 3 in English 3 Haskell 1 About Functional Programming 2 Basic Syntax and Evaluation Model 3 Variables 4 Functions 5 Lists and Tuples 6 Conditions 7 Recursion 8 Pattern Matching 9 Advanced Typing 10 Selected Applications 11 Towards Logic Programming 12 Concluding Remarks APPENDIX A APPENDIX B APPENDIX C Learning Functional Programming Jack Widman, 2022-08-11 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 **Functional Programming for Java Developers** Dean Wampler, 2011-07-22 Software development today is embracing functional programming FP whether it's for writing concurrent programs or for managing Big Data Where does that leave Java developers This concise book offers a pragmatic approachable introduction to FP for Java developers or anyone who uses an object oriented language Dean Wampler Java expert and author of Programming Scala O'Reilly shows you how to apply FP principles such as immutability avoidance of side effects and higher order functions to your Java code Each chapter provides exercises to help you practice what you've learned Once you grasp the benefits of functional programming you'll discover that it improves all of the code you write Learn basic FP principles and apply them to object oriented programming Discover how FP is more concise and modular than OOP Get useful FP lessons for your Java type design such as avoiding nulls Design data structures and algorithms using functional programming principles Write concurrent programs using the Actor model and software transactional memory Use functional libraries and frameworks for Java and learn where to go next to deepen your functional programming skills *Learning F# Functional Data Structures and Algorithms* Adnan Masood, 2015-06-29 F is a multi paradigm programming language that encompasses object oriented imperative and functional programming language properties The F functional programming language enables developers to write simple code to solve complex problems Starting with the fundamental concepts of F and functional programming this

book will walk you through basic problems helping you to write functional and maintainable code Using easy to understand examples you will learn how to design data structures and algorithms in F and apply these concepts in real life projects The book will cover built in data structures and take you through enumerations and sequences You will gain knowledge about stacks graph related algorithms and implementations of binary trees Next you will understand the custom functional implementation of a queue review sets and maps and explore the implementation of a vector Finally you will find resources and references that will give you a comprehensive overview of F ecosystem helping you to go beyond the fundamentals

Functional Programming: A PragPub Anthology Michael Swaine,2017-07-20 Explore functional programming and discover new ways of thinking about code You know you need to master functional programming but learning one functional language is only the start In this book through articles drawn from PragPub magazine and articles written specifically for this book you ll explore functional thinking and functional style and idioms across languages Led by expert guides you ll discover the distinct strengths and approaches of Clojure Elixir Haskell Scala and Swift and learn which best suits your needs Contributing authors Rich Hickey Stuart Halloway Aaron Bedra Michael Bevilacqua Linn Venkat Subramaniam Paul Callaghan Jose Valim Dave Thomas Natasha Murashev Tony Hillerson Josh Chisholm and Bruce Tate Functional programming is on the rise because it lets you write simpler cleaner code and its emphasis on immutability makes it ideal for maximizing the benefits of multiple cores and distributed solutions So far nobody s invented the perfect functional language each has its unique strengths In Functional Programming A PragPub Anthology you ll investigate the philosophies tools and idioms of five different functional programming languages See how Swift the development language for iOS encourages you to build highly scalable apps using functional techniques like map and reduce Discover how Scala allows you to transition gently but deeply into functional programming without losing the benefits of the JVM while with Lisp based Clojure you can plunge fully into the functional style Learn about advanced functional concepts in Haskell a pure functional language making powerful use of the type system with type inference and type classes And see how functional programming is becoming more elegant and friendly with Elixir a new functional language built on the powerful Erlang base The industry has been embracing functional programming more and more driven by the need for concurrency and parallelism This collection of articles will lead you to mastering the functional approach to problem solving So put on your explorer s hat and prepare to be surprised The goal of exploration is always discovery What You Need Familiarity with one or more programming languages

Introduction to Functional Programming Using Haskell Richard Bird,1998 After the success of the first edition Introduction to Functional Programming using Haskell has been thoroughly updated and revised to provide a complete grounding in the principles and techniques of programming with functions The second edition uses the popular language Haskell to express functional programs There are new chapters on program optimisation abstract datatypes in a functional setting and programming in a monadic style There are complete new case studies and many new exercises As in the first

edition there is an emphasis on the fundamental techniques for reasoning about functional programs and for deriving them systematically from their specifications The book is self contained assuming no prior knowledge of programming and is suitable as an introductory undergraduate text for first or second year students

Mastering JavaScript Functional Programming Federico Kereki, 2020-01-24 Explore the functional programming paradigm and the different techniques for developing better algorithms writing more concise code and performing seamless testing Key Features Explore this second edition updated to cover features like async functions and transducers as well as functional reactive programming Enhance your functional programming FP skills to build web and server apps using JavaScript Use FP to enhance the modularity reusability and performance of apps Book Description Functional programming is a paradigm for developing software with better performance It helps you write concise and testable code To help you take your programming skills to the next level this comprehensive book will assist you in harnessing the capabilities of functional programming with JavaScript and writing highly maintainable and testable web and server apps using functional JavaScript This second edition is updated and improved to cover features such as transducers lenses prisms and various other concepts to help you write efficient programs By focusing on functional programming you ll not only start to write but also to test pure functions and reduce side effects The book also specifically allows you to discover techniques for simplifying code and applying recursion for loopless coding Gradually you ll understand how to achieve immutability implement design patterns and work with data types for your application before going on to learn functional reactive programming to handle complex events in your app Finally the book will take you through the design patterns that are relevant to functional programming By the end of this book you ll have developed your JavaScript skills and have gained knowledge of the essential functional programming techniques to program effectively What you will learn Simplify JavaScript coding using function composition pipelining chaining and transducing Use declarative coding as opposed to imperative coding to write clean JavaScript code Create more reliable code with closures and immutable data Apply practical solutions to complex programming problems using recursion Improve your functional code using data types type checking and immutability Understand advanced functional programming concepts such as lenses and prisms for data access Who this book is for This book is for JavaScript developers who want to enhance their programming skills and build efficient web applications Frontend and backend developers who use various JavaScript frameworks and libraries like React Angular or Node js will also find the book helpful Working knowledge of ES2019 is required to grasp the concepts covered in the book easily

Think Perl 6 Laurent Rosenfeld, Allen B. Downey, 2017-05-08 Want to learn how to program and think like a computer scientist This practical guide gets you started on your programming journey with the help of Perl 6 the younger sister of the popular Perl programming language Ideal for beginners this hands on book includes over 100 exercises with multiple solutions and more than 1 000 code examples so you can quickly practice what you learn Experienced programmers especially those who know Perl 5 will also benefit Divided into two parts Think Perl 6 starts with

basic concepts that every programmer needs to know and then focuses on different programming paradigms and some more advanced programming techniques With two semesters worth of lessons this book is the perfect teaching tool for computer science beginners in colleges and universities Learn basic concepts including variables expressions statements functions conditionals recursion and loops Understand commonly used basic data structures and the most useful algorithms Dive into object oriented programming and learn how to construct your own types and methods to extend the language Use grammars and regular expressions to analyze textual content Explore how functional programming can help you make your code simpler and more expressive

Functional Programming in Go Dylan Meeus, 2023-03-10 Leverage core functional programming FP concepts to write more maintainable and testable code in Go Purchase of the print or Kindle book includes a free PDF eBook Key Features Learn functional programming techniques at the architectural level and use them to solve real world problems Understand how to think about code functionally Learn about the trade offs of functional programming and object oriented programming OOP in Go Book Description While Go is a multi paradigm language that gives you the option to choose whichever paradigm works best for the particular problem you aim to solve it supports features that enable you to apply functional principles in your code In this book you ll learn about concepts central to the functional programming paradigm and how and when to apply functional programming techniques in Go Starting with the basic concepts of functional programming this Golang book will help you develop a deeper understanding of first class functions In the subsequent chapters you ll gain a more comprehensive view of the techniques and methods used in functional languages such as function currying partial application and higher order functions You ll then be able to apply functional design patterns for solving common programming challenges and explore how to apply concurrency mechanisms to functional programming By the end of this book you ll be ready to improve your code bases by applying functional programming techniques in Go to write cleaner safer and bug free code What you will learn Gain a deeper understanding of functional programming through practical examples Build a solid foundation in core FP concepts and see how they apply to Go code Discover how FP can improve the testability of your code base Apply functional design patterns for problem solving Understand when to choose and not choose FP concepts Discover the benefits of functional programming when dealing with concurrent code Who this book is for If you are a Go engineer with a background in traditionally object oriented languages such as Java or C and want to broaden your knowledge of functional programming this book is for you

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