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Up and Running **Developing Web Apps with Haskell and**
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Psychogastroenterology for Adults Global Productivity
Clojure Cookbook City Walks Seattle Finding Solid
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Programming with Clojure Europa Sun Vol 1 Issue 1
Nutrient Requirements of Laboratory Animals,

60 Recipes for Apache CloudStack Aug 09 2020 Planning to deploy and maintain a public, private, or hybrid cloud service? This cookbook's handy how-to recipes help you quickly learn and install Apache CloudStack, along with several API clients, API wrappers, data architectures, and configuration management technologies that work as part of CloudStack's ecosystem. You'll learn how to use Vagrant, Ansible, Chef, Fluentd, Libcloud, and several other open source tools that let you build and operate CloudStack better and faster. If you're an experienced programmer, system administrator, or DevOps practitioner familiar with bash, Git, package management, and some Python, you're ready to go. Learn basic CloudStack installation from source, including features such as DevCloud, the CloudStack sandbox Get a step-by-step guide for installing CloudStack from packages on Ubuntu 14.04 using KVM Write your own applications on top of the CloudStack API, using CloudMonkey, Libcloud, jclouds, and CloStack Expose different APIs on CloudStack with the EC2Stack, Boto, and Eutester API wrappers Deploy applications easily, using Puppet, Salt, Ansible, Chef, and Vagrant Dive into cloud monitoring and storage with RiakCS, Fluentd, and Apache Whirr

Clojure Cookbook Mar 16 2021 With more than 150 detailed recipes, this cookbook shows experienced Clojure developers how to solve a variety of programming tasks with this JVM language. The solutions cover everything from building dynamic websites and working with databases to network communication, cloud computing, and advanced

testing strategies. And more than 60 of the world's best Clojurians contributed recipes. Each recipe includes code that you can use right away, along with a discussion on how and why the solution works, so you can adapt these patterns, approaches, and techniques to situations not specifically covered in this cookbook. Master built-in primitive and composite data structures Create, develop and publish libraries, using the Leiningen tool Interact with the local computer that's running your application Manage network communication protocols and libraries Use techniques for connecting to and using a variety of databases Build and maintain dynamic websites, using the Ring HTTP server library Tackle application tasks such as packaging, distributing, profiling, and logging Take on cloud computing and heavyweight distributed data crunching Dive into unit, integration, simulation, and property-based testing Clojure Cookbook is a collaborative project with contributions from some of the world's best Clojurians, whose backgrounds range from aerospace to social media, banking to robotics, AI research to e-commerce.

Programming Clojure Sep 02 2022 Drowning in unnecessary complexity, unmanaged state, and tangles of spaghetti code? In the best tradition of Lisp, Clojure gets out of your way so you can focus on expressing simple solutions to hard problems. Clojure cuts through complexity by providing a set of composable tools--immutable data, functions, macros, and the interactive REPL. Written by members of the Clojure core team, this book is the essential, definitive guide to Clojure. This new edition includes information on all the newest features of Clojure, such as transducers and specs.

Clojure joins the flexibility and agility of Lisp with the reach, stability, and performance of Java. Combine Clojure's tools for maximum effectiveness as you work with immutable data, functional programming, and safe concurrency to write programs that solve real-world problems. Start by reading and understanding Clojure syntax and see how Clojure is evaluated. From there, find out about the sequence abstraction, which combines immutable collections with functional programming to create truly reusable data transformation code. Clojure is a functional language; learn how to write programs in a functional style, and when and how to use recursion to your advantage. Discover Clojure's unique approach to state and identity, techniques for polymorphism and open systems using multimethods and protocols, and how to leverage Clojure's metaprogramming capabilities via macros. Finally, put all the pieces together in a real program. New to this edition is coverage of Clojure's spec library, one of the most interesting new features of Clojure for describing both data and functions. You can use Clojure spec to validate data, destructure data, explain invalid data, and generate large numbers of tests to verify the correctness of your code. With this book, you'll learn how to think in Clojure, and how to take advantage of its combined strengths to build powerful programs quickly. What You Need: Java 6 or higher Clojure 1.9

The Joy of Clojure Jul 20 2021 Summary The Joy of Clojure, Second Edition is a deep look at the Clojure language. Fully updated for Clojure 1.6, this new edition goes beyond just syntax to show you the "why" of Clojure and how to write fluent Clojure code. You'll learn functional

and declarative approaches to programming and will master the techniques that make Clojure so elegant and efficient. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology The Clojure programming language is a dialect of Lisp that runs on the Java Virtual Machine and JavaScript runtimes. It is a functional programming language that offers great performance, expressive power, and stability by design. It gives you built-in concurrency and the predictable precision of immutable and persistent data structures. And it's really, really fast. The instant you see long blocks of Java or Ruby dissolve into a few lines of Clojure, you'll know why the authors of this book call it a "joyful language." It's no wonder that enterprises like Staples are betting their infrastructure on Clojure. About the Book The Joy of Clojure, Second Edition is a deep account of the Clojure language. Fully updated for Clojure 1.6, this new edition goes beyond the syntax to show you how to write fluent Clojure code. You'll learn functional and declarative approaches to programming and will master techniques that make Clojure elegant and efficient. The book shows you how to solve hard problems related to concurrency, interoperability, and performance, and how great it can be to think in the Clojure way. Appropriate for readers with some experience using Clojure or common Lisp. What's Inside Build web apps using ClojureScript Master functional programming techniques Simplify concurrency Covers Clojure 1.6 About the Authors Michael Fogus and Chris Houser are contributors to the Clojure and ClojureScript programming languages and the authors of various Clojure

libraries and language features. Table of Contents PART 1 FOUNDATIONS Clojure philosophy Drinking from the Clojure fire hose Dipping your toes in the pool PART 2 DATA TYPES On scalars Collection types PART 3 FUNCTIONAL PROGRAMMING Being lazy and set in your ways Functional programming PART 4 LARGE-SCALE DESIGN Macros Combining data and code Mutation and concurrency Parallelism PART 5 HOST SYMBIOSIS Java.next Why ClojureScript? PART 6 TANGENTIAL CONSIDERATIONS Data-oriented programming Performance Thinking programs Clojure changes the way you think

Core Swing Nov 23 2021 At the heart of Java 2 are the Java Foundation Classes and at the heart of these is the Swing toolkit. This book offers an advanced collection of Swing techniques for Java application programmers.

Functional JavaScript Feb 24 2022 How can you overcome JavaScript language oddities and unsafe features? With this book, you'll learn how to create code that's beautiful, safe, and simple to understand and test by using JavaScript's functional programming support. Author Michael Fogus shows you how to apply functional-style concepts with Underscore.js, a JavaScript library that facilitates functional programming techniques. Sample code is available on GitHub at <https://github.com/funjs/book-source>. Fogus helps you think in a functional way to help you minimize complexity in the programs you build. If you're a JavaScript programmer hoping to learn functional programming techniques, or a functional programmer looking to learn JavaScript, this book is the ideal introduction. Use

applicative programming techniques with first-class functions Understand how and why you might leverage variable scoping and closures Delve into higher-order functions—and learn how they take other functions as arguments for maximum advantage Explore ways to compose new functions from existing functions Get around JavaScript’s limitations for using recursive functions Reduce, hide, or eliminate the footprint of state change in your programs Practice flow-based programming with chains and functional pipelines Discover how to code without using classes

Europa Sun Vol 1 Issue 1 Jul 28 2019 Europa Sun Magazine is dedicated to a positive promotion of European cultural heritage. The debut issue features history, culture, heritage, art, and poetry, running the gamut of the European cultural experience. Our authors tell the truth about history, confronting the spin put upon it by agenda driven leftists. And, we celebrate the beauty of our European cultural heritage.

Psychogastroenterology for Adults May 18 2021 The brain-gut connection has been increasingly implicated in biopsychosocial well-being. While there are numerous factors that directly and indirectly impact on how the gut and the brain interact, there is a growing awareness that gastrointestinal conditions need to be viewed and treated as part of a multidisciplinary approach. Psychogastroenterology for Adults: A Handbook for Mental Health Professionals is the first book to provide mental health professionals with an evidence-based, practical guide for working with patients living with gastrointestinal conditions. Timely and accessibly

written, this book provides a unique, comprehensive introduction to psychogastroenterology, offering a step-by-step guide to evidence-based psychological treatment protocols. Broad in scope and expertise, the book is divided into four parts. It opens with an overview of the field, moving on to outline psychological concerns and conditions in gastroenterological (GI) cohorts. Further, it covers various approaches to psychogastroenterology, including psychopharmacological and eHealth practices. In closing, the book looks to the future, providing guidance on supervision in psychogastroenterology, and exploring challenges in the field. Written by experts in the field, this book will be an indispensable resource for those who wish to enhance their knowledge and practice of psychogastroenterology in the mental health profession, including psychologists, psychiatrists, psychosomatic medicine specialists, nurses and social workers.

Enterprise Data Workflows with Cascading Jun 30 2022

There is an easier way to build Hadoop applications. With this hands-on book, you'll learn how to use Cascading, the open source abstraction framework for Hadoop that lets you easily create and manage powerful enterprise-grade data processing applications—without having to learn the intricacies of MapReduce. Working with sample apps based on Java and other JVM languages, you'll quickly learn Cascading's streamlined approach to data processing, data filtering, and workflow optimization. This book demonstrates how this framework can help your business extract meaningful information from large amounts of distributed data. Start working on Cascading example projects right

away Model and analyze unstructured data in any format, from any source Build and test applications with familiar constructs and reusable components Work with the Scalding and Cascalog Domain-Specific Languages Easily deploy applications to Hadoop, regardless of cluster location or data size Build workflows that integrate several big data frameworks and processes Explore common use cases for Cascading, including features and tools that support them Examine a case study that uses a dataset from the Open Data Initiative

Abbey Road to Ziggy Stardust Dec 13 2020 Recounts the author's experiences working as a recording engineer for such artists as the Beatles, David Bowie, and Duran Duran, in a text that also features anecdotes and technical details of the trade.

The Little LISPer Nov 11 2020

John Oct 30 2019 Cynthia and John Lennon's relationship spanned ten crucial years of the Beatles phenomenon. But as well as new insight into the Beatles years, Cynthia has a compelling personal story of marriage, motherhood and the man who was to become the most idolised and admired of all the Beatles. Cynthia is candid about the cruel and the loving sides of John. She tells of the end of their marriage and the beginning of his relationship with Yoko Ono in more detail than ever before, and reveals the many difficulties estrangement from John - and then his death - brought for herself and Julian. Cynthia is a remarkable survivor and this is her extraordinary story and unique insight into a man loved and idolised all over the world.

Clojure Reactive Programming Dec 25 2021 If you are a

Clojure developer who is interested in using Reactive Programming to build asynchronous and concurrent applications, this book is for you. Knowledge of Clojure and Leiningen is required. Basic understanding of ClojureScript will be helpful for the web chapters, although it is not strictly necessary.

Healing Elements Apr 04 2020 "Tibetan medicine has come to represent multiple and sometimes conflicting agendas. On the one hand it must retain a sense of cultural authenticity and a connection to Tibetan Buddhism; on the other it must be proven efficacious and safe according to biomedical standards, often through clinical research. Recently, Tibetan medicine has found a place within the multibillion-dollar market for complementary, traditional, and herbal medicines as people around the world seek alternative paths to wellness. *Healing Elements* explores Tibetan medicine within diverse settings, from rural schools and clinics in the Nepal Himalaya to high-tech factories and state-supported colleges in the People's Republic of China. This multi-sited ethnography explores how Tibetan medicines circulate as commercial goods and gifts, as target therapies, and as panacea for biosocial ills. Through an exploration of efficacy - What does it mean to say Tibetan medicine "works"? - this book illustrates a bio-politics of traditional medicine in the twenty-first century. *Healing Elements* examines the ways traditional medicine interacts with biomedicine: from patient-healer relationships and the cultural meanings ascribed to affliction, to the wider circumstances in which practitioners are trained, healing occurs, and medicines are made, evaluated, and used. As such, it examines the meaningful, if

contested, translations of science and healing that occur across distinct social ecologies"--Provided by publisher.

Programs of Reunions Jul 08 2020

Clojure Cookbook Aug 01 2022 With more than 150 detailed recipes, this cookbook shows experienced Clojure developers how to solve a variety of programming tasks with this JVM language. The solutions cover everything from building dynamic websites and working with databases to network communication, cloud computing, and advanced testing strategies. And more than 60 of the world's best Clojurians contributed recipes. Each recipe includes code that you can use right away, along with a discussion on how and why the solution works, so you can adapt these patterns, approaches, and techniques to situations not specifically covered in this cookbook. Master built-in primitive and composite data structures Create, develop and publish libraries, using the Leiningen tool Interact with the local computer that's running your application Manage network communication protocols and libraries Use techniques for connecting to and using a variety of databases Build and maintain dynamic websites, using the Ring HTTP server library Tackle application tasks such as packaging, distributing, profiling, and logging Take on cloud computing and heavyweight distributed data crunching Dive into unit, integration, simulation, and property-based testing Clojure Cookbook is a collaborative project with contributions from some of the world's best Clojurians, whose backgrounds range from aerospace to social media, banking to robotics, AI research to e-commerce.

Clojure in Action May 30 2022 Clojure is a new version of

Lisp that runs on the Java Virtual Machine. "Clojure in Action" is a hands-on tutorial for the working programmer who has written code in a language like Java or Ruby, but has no prior experience with Lisp.

Parallel and Concurrent Programming in Haskell Jan 26 2022

If you have a working knowledge of Haskell, this hands-on book shows you how to use the language's many APIs and frameworks for writing both parallel and concurrent programs. You'll learn how parallelism exploits multicore processors to speed up computation-heavy programs, and how concurrency enables you to write programs with threads for multiple interactions. Author Simon Marlow walks you through the process with lots of code examples that you can run, experiment with, and extend. Divided into separate sections on Parallel and Concurrent Haskell, this book also includes exercises to help you become familiar with the concepts presented: Express parallelism in Haskell with the Eval monad and Evaluation Strategies Parallelize ordinary Haskell code with the Par monad Build parallel array-based computations, using the Repa library Use the Accelerate library to run computations directly on the GPU Work with basic interfaces for writing concurrent code Build trees of threads for larger and more complex programs Learn how to build high-speed concurrent network servers Write distributed programs that run on multiple machines in a network

speech correction Jun 06 2020

Scala Cookbook Apr 28 2022 Save time and trouble when using Scala to build object-oriented, functional, and concurrent applications. With more than 250 ready-to-use

recipes and 700 code examples, this comprehensive cookbook covers the most common problems you'll encounter when using the Scala language, libraries, and tools. It's ideal not only for experienced Scala developers, but also for programmers learning to use this JVM language. Author Alvin Alexander (creator of DevDaily.com) provides solutions based on his experience using Scala for highly scalable, component-based applications that support concurrency and distribution. Packed with real-world scenarios, this book provides recipes for: Strings, numeric types, and control structures Classes, methods, objects, traits, and packaging Functional programming in a variety of situations Collections covering Scala's wealth of classes and methods Concurrency, using the Akka Actors library Using the Scala REPL and the Simple Build Tool (SBT) Web services on both the client and server sides Interacting with SQL and NoSQL databases Best practices in Scala development

Hands-On Reactive Programming with Clojure Aug 28 2019

Learn how to use RxClojure to deal with stateful computations Key FeaturesLeverage the features of Functional Reactive Programming using ClojureCreate dataflow-based systems that are the building blocks of Reactive ProgrammingUse different Functional Reactive Programming frameworks, techniques, and patterns to solve real-world problemsBook Description Reactive Programming is central to many concurrent systems, and can help make the process of developing highly concurrent, event-driven, and asynchronous applications simpler and less error-prone. This book will allow you to explore Reactive

Programming in Clojure 1.9 and help you get to grips with some of its new features such as transducers, reader conditionals, additional string functions, direct linking, and socket servers. Hands-On Reactive Programming with Clojure starts by introducing you to Functional Reactive Programming (FRP) and its formulations, as well as showing you how it inspired Compositional Event Systems (CES). It then guides you in understanding Reactive Programming as well as learning how to develop your ability to work with time-varying values thanks to examples of reactive applications implemented in different frameworks. You'll also gain insight into some interesting Reactive design patterns such as the simple component, circuit breaker, request-response, and multiple-master replication. Finally, the book introduces microservices-based architecture in Clojure and closes with examples of unit testing frameworks. By the end of the book, you will have gained all the knowledge you need to create applications using different Reactive Programming approaches. What you will learn

- Understand how to think in terms of time-varying values and event streams
- Create, compose, and transform observable sequences using Reactive extensions
- Build a CES framework from scratch using `core.async` as its foundation
- Develop a simple ClojureScript game using Reagent
- Integrate Om and RxJS in a web application
- Implement a reactive API in Amazon Web Services (AWS)
- Discover helpful approaches to backpressure and error handling
- Get to grips with futures and their applications

Who this book is for

If you're interested in using Reactive Programming to build asynchronous and concurrent applications, this is the book

for you. Basic knowledge of Clojure programming is necessary to understand the concepts covered in this book.

Nutrient Requirements of Laboratory Animals, Jun 26

2019 In the years since the third edition of this indispensable reference was published, a great deal has been learned about the nutritional requirements of common laboratory species: rat, mouse, guinea pig, hamster, gerbil, and vole. The Fourth Revised Edition presents the current expert understanding of the lipid, carbohydrate, protein, mineral, vitamin, and other nutritional needs of these animals. The extensive use of tables provides easy access to a wealth of comprehensive data and resource information. The volume also provides an expanded background discussion of general dietary considerations. In addition to a more user-friendly organization, new features in this edition include: A significantly expanded section on dietary requirements for rats, reporting substantial new findings. A new section on nutrients that are not required but that may produce beneficial results. New information on growth and reproductive performance among the most commonly used strains of rats and mice and on several hamster species. An expanded discussion of diet formulation and preparation—including sample diets of both purified and natural ingredients. New information on mineral deficiency and toxicity, including warning signs. This authoritative resource will be important to researchers, laboratory technicians, and manufacturers of laboratory animal feed.

Self-therapy for the Stutterer Mar 04 2020 Malcolm Fraser

knew from personal experience what the person who stutters is up against. His introduction to stuttering corrective

procedures first came at the age of fifteen under the direction of Frederick Martin, M.D., who at that time was Superintendent of Speech Correction for the New York City schools. A few years later, he worked with J. Stanley Smith, L.L.D., a stutterer and philanthropist, who, for altruistic reasons, founded the Kingsley Clubs in Philadelphia and New York that were named after the English author, Charles Kingsley, who also stuttered. The Kingsley Clubs were small groups of adult stutterers who met one night a week to try out treatment ideas then in effect. In fact, they were actually practicing group therapy as they talked about their experiences and exchanged ideas. This exchange gave each of the members a better understanding of the problem. The founder often led the discussions at both clubs. In 1928 Malcolm Fraser joined his older brother Carlyle who founded the NAPA-Genuine Parts Company that year in Atlanta, Georgia. He became an important leader in the company and was particularly outstanding in training others for leadership roles. In 1947, with a successful career under way, he founded the Stuttering Foundation of America. In subsequent years, he added generously to the endowment so that at the present time, endowment income covers over fifty percent of the operating budget. In 1984, Malcolm Fraser received the fourth annual National Council on Communicative Disorders' Distinguished Service Award. The NCCD, a council of 32 national organizations, recognized the Foundation's efforts in "adding to stutterers', parents', clinicians', and the public's awareness and ability to deal constructively with stuttering." Book jacket.

City Walks Seattle Feb 12 2021 Explore Seattle like a local!

This deck features 50 walking tours packed with insider tips. Walks include: • The Space Needle • Pioneer Square • Pike Place Market • Discovery Park

Inventing the Feeble Mind Dec 01 2019 James W. Trent uses public documents, private letters, investigative reports, and rare photographs to explore our changing perceptions of mental retardation over the past 150 years. He contends that the economic vulnerability of mentally retarded people (and their families), more than the claims made for their intellectual or social limitations, has determined their institutional treatment.

Global Productivity Apr 16 2021 The COVID-19 pandemic struck the global economy after a decade that featured a broad-based slowdown in productivity growth. *Global Productivity: Trends, Drivers, and Policies* presents the first comprehensive analysis of the evolution and drivers of productivity growth, examines the effects of COVID-19 on productivity, and discusses a wide range of policies needed to rekindle productivity growth. The book also provides a far-reaching data set of multiple measures of productivity for up to 164 advanced economies and emerging market and developing economies, and it introduces a new sectoral database of productivity. The World Bank has created an extraordinary book on productivity, covering a large group of countries and using a wide variety of data sources. There is an emphasis on emerging and developing economies, whereas the prior literature has concentrated on developed economies. The book seeks to understand growth patterns and quantify the role of (among other things) the reallocation of factors, technological change, and the impact of natural

disasters, including the COVID-19 pandemic. This book is must-reading for specialists in emerging economies but also provides deep insights for anyone interested in economic growth and productivity. Martin Neil Baily Senior Fellow, The Brookings Institution Former Chair, U.S. President's Council of Economic Advisers This is an important book at a critical time. As the book notes, global productivity growth had already been slowing prior to the COVID-19 pandemic and collapses with the pandemic. If we want an effective recovery, we have to understand what was driving these long-run trends. The book presents a novel global approach to examining the levels, growth rates, and drivers of productivity growth. For anyone wanting to understand or influence productivity growth, this is an essential read.

Nicholas Bloom William D. Eberle Professor of Economics, Stanford University The COVID-19 pandemic hit a global economy that was already struggling with an adverse pre-existing condition—slow productivity growth. This extraordinarily valuable and timely book brings considerable new evidence that shows the broad-based, long-standing nature of the slowdown. It is comprehensive, with an exceptional focus on emerging market and developing economies. Importantly, it shows how severe disasters (of which COVID-19 is just the latest) typically harm productivity. There are no silver bullets, but the book suggests sensible strategies to improve growth prospects.

John Fernald Schrodgers Chaired Professor of European Competitiveness and Reform and Professor of Economics, INSEAD

Closure Programming Nov 04 2022 Describes the

fundamentals of Clojure, covering such topics as data structures, concurrency, macros, multimethods, JVM, REPL-oriented programming, and relational databases.

Making Records May 06 2020 Sinatra. Streisand. Dylan.

Pavarotti. McCartney. Sting. Madonna. What do these musicians have in common besides their super-stardom? They have all worked with legendary music producer Phil Ramone. For almost five decades, Phil Ramone has been a force in the music industry. He has produced records and collaborated with almost every major talent in the business. There is a craft to making records, and Phil has spent his life mastering it. For the first time ever, he shares the secrets of his trade. Making Records is a fascinating look "behind the glass" of a recording studio. From Phil's exhilarating early days recording jazz and commercial jingles at A&R, to his first studio, and eventual legendary producer status, Phil allows you to sit in on the sessions that created some of the most memorable music of the 20th century--including Frank Sinatra's Duets album, Bob Dylan's Blood on the Tracks, Ray Charles's Genius Loves Company and Paul Simon's Still Crazy After All These Years. In addition to being a ringside seat for contemporary popular music history, Making Records is an unprecedented tutorial on the magic behind what music producers and engineers do. In these pages, Phil offers a rare peek inside the way music is made . . .

illuminating the creative thought processes behind some of the most influential sessions in music history. This is a book about the art that is making records--the way it began, the way it is now, and everything in between.

Clojure Oct 11 2020 The Clojure standard library is a

treasure trove of functions and macros that have been battle-tested over the years to solve the most challenging programming problems. Clojure: The Essential Reference is an extensive reference to the standard library but it doesn't read as a dull list of functions. In addition to providing clear explanations for each topic, this guide is full of real-world examples, links, and background information. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

Living Clojure Oct 23 2021 Annotation If you're an experienced programmer looking for a thorough but gentle introduction to Clojure, this is the perfect guide for you. Author Carin Meier not only provides a practical overview of this JVM language and its functional programming concepts, but also includes a complete hands-on training course to help you learn Clojure in a structured way.

Learning Scala Oct 03 2022 Why learn Scala? You don't need to be a data scientist or distributed computing expert to appreciate this object-oriented functional programming language. This practical book provides a comprehensive yet approachable introduction to the language, complete with syntax diagrams, examples, and exercises. You'll start with Scala's core types and syntax before diving into higher-order functions and immutable data structures. Author Jason Swartz demonstrates why Scala's concise and expressive syntax make it an ideal language for Ruby or Python developers who want to improve their craft, while its type safety and performance ensures that it's stable and fast enough for any application. Learn about the core data types, literals, values, and variables Discover how to think and

write in expressions, the foundation for Scala's syntax Write higher-order functions that accept or return other functions Become familiar with immutable data structures and easily transform them with type-safe and declarative operations Create custom infix operators to simplify existing operations or even to start your own domain-specific language Build classes that compose one or more traits for full reusability, or create new functionality by mixing them in at instantiation

Finding Solid Ground Jan 14 2021 "In 2011, Emerick, an ordained minister in the United Methodist Church and a licensed clinical social worker, embarked on a self-directed study to educate himself about the nation's principal political disputes. He discovered that America's dominant political and economic theories...are... pitting the demands of the individual against the needs of the community. But in the Constitution's preamble... the concerns of individual liberty and the general welfare are given equal weight, and a more equitable national philosophy will...combine the two. [He] also... discovers, contrary to the opinions of many, that the federal government's active role in fiscal affairs can have a stimulating effect...and trickle-down economics has largely been a failure... [Emerick] makes an... attempt to reconcile political polarities, offering a way to structure an economy that...he calls a 'Preamble Economy'. "In the second part of the book, the author argues that Christianity has drifted away from the true ministry of Jesus, replacing his core message of love with errant institutional doctrine. [Emerick] singularly focuses on the sayings of Jesus... the book includes a collection of all of them-in order to excavate that teaching. "Emerick writes in unfailingly lucid prose, and his command

of the issues is notable..." Kirkus Reviews

Introducing Erlang Jun 18 2021 If you're new to Erlang, its functional style can seem difficult, but with help from this hands-on introduction, you'll scale the learning curve and discover how enjoyable, powerful, and fun this language can be. In this updated second edition, author Simon St.Laurent shows you how to write simple Erlang programs by teaching you one skill at a time. You'll learn about pattern matching, recursion, message passing, process-oriented programming, and establishing pathways for data rather than telling it where to go. By the end of your journey, you'll understand why Erlang is ideal for concurrency and resilience. Get cozy with Erlang's shell, its command line interface Define functions, using the fun tool, to represent repeated calculations Discover atoms, pattern matching, and guards: the foundations of your program structure Delve into the heart of Erlang processing 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 Learn about Open Telecom Platform, Erlang's open source libraries and tools *The Gospel According to the Beatles* Feb 01 2020 The spiritual journey of the Beatles from fun-loving agnostics to drug-inspired mystics.

Microservices with Clojure Jan 02 2020 The common patterns and practices of the microservice architecture and their application using the Clojure programming language. Key Features Relevance of the microservice architecture and benefits of Clojure's functional and simple features to

implement it. Learn best practices and common principles to avoid common pitfalls while developing microservices. Learn how to use Pedestal to build your next microservices, secure them using JWT, and monitor them using the ELK stack [Book Description](#) The microservice architecture is sweeping the world as the de facto pattern with which to design and build scalable, easy-to-maintain web applications. This book will teach you common patterns and practices, and will show you how to apply these using the Clojure programming language. This book will teach you the fundamental concepts of architectural design and RESTful communication, and show you patterns that provide manageable code that is supportable in development and at scale in production. We will provide you with examples of how to put these concepts and patterns into practice with Clojure. This book will explain and illustrate, with practical examples, how teams of all sizes can start solving problems with microservices. You will learn the importance of writing code that is asynchronous and non-blocking and how Pedestal helps us do this. Later, the book explains how to build Reactive microservices in Clojure that adhere to the principles underlying the Reactive Manifesto. We finish off by showing you various ways to monitor, test, and secure your microservices. By the end, you will be fully capable of setting up, modifying, and deploying a microservice with Clojure and Pedestal. What you will learn

- Explore the pros and cons of monolithic and microservice architectures
- Use Clojure to effectively build a real-life application using Microservices
- Gain practical knowledge of the Clojure Pedestal framework and how to use it to build Microservices

Explore various persistence patterns and learn how to use Apache Kafka to build event-driven microservice architectures Secure your Microservices using JWT Monitor Microservices at scale using the ELK stack Deploy Microservices at scale using container orchestration platforms such as Kubernetes Who this book is for You should have a working knowledge of programming in Clojure. However, no knowledge of RESTful architecture, microservices, or web services is expected. If you are looking to apply techniques to your own projects, taking your first steps into microservice architecture, this book is for you.

ClojureScript: Up and Running Sep 21 2021 Learn how to build complete client-side applications with ClojureScript, the Clojure language variant that compiles to optimized JavaScript. This hands-on introduction shows you how ClojureScript not only has similarities to JavaScript—without the flaws—but also supports the full semantics of its parent language. You'll delve into ClojureScript's immutable data structures, lazy sequences, first-class functions, macros, and support for JavaScript libraries. No previous experience with Clojure or ClojureScript is necessary. If you're familiar with JavaScript, HTML, CSS, and the DOM, you'll quickly discover that ClojureScript has the same reach as JavaScript, but with more power. Start writing ClojureScript code with the Leiningen build system Learn how the ClojureScript compiler works to produce optimized JavaScript Use JavaScript functions and libraries directly from ClojureScript code Explore functions in Clojure's sequence library such as map, reduce, and filter Use macros to define new control

structures or embed domain-specific languages Compile manually or script your own workflow with ClojureScript's compiler tools Integrate ClojureScript with Clojure on the JVM to build powerful client-server applications

Clojure for the Brave and True Mar 28 2022 For weeks, months—nay!—from the very moment you were born, you've felt it calling to you. At long last you'll be united with the programming language you've been longing for: Clojure! As a Lisp-style functional programming language, Clojure lets you write robust and elegant code, and because it runs on the Java Virtual Machine, you can take advantage of the vast Java ecosystem. Clojure for the Brave and True offers a "dessert-first" approach: you'll start playing with real programs immediately, as you steadily acclimate to the abstract but powerful features of Lisp and functional programming. Inside you'll find an offbeat, practical guide to Clojure, filled with quirky sample programs that catch cheese thieves and track glittery vampires. Learn how to: –Wield Clojure's core functions –Use Emacs for Clojure development –Write macros to modify Clojure itself –Use Clojure's tools to simplify concurrency and parallel programming Clojure for the Brave and True assumes no prior experience with Clojure, the Java Virtual Machine, or functional programming. Are you ready, brave reader, to meet your true destiny? Grab your best pair of parentheses—you're about to embark on an epic journey into the world of Clojure!

Developing Web Apps with Haskell and Yesod Aug 21 2021 "This fast-moving guide introduces web application development with Haskell and Yesod, a potent

language/framework combination that supports high-performing applications that are modular, type-safe, and concise. You'll work with several samples to explore the way Yesod handles widgets, forms, persistence, and RESTful content. You also get an introduction to various Haskell tools to supplement your basic knowledge of the language. By the time you finish this book, you'll create a production-quality web application with Yesod's ready-to-use scaffolding. You'll also examine several real-world examples, including a blog, a wiki, a JSON web service, and a Sphinx search server"--Publisher's description.

Exposure of the American People to Iodine-131 from Nevada Nuclear-Bomb Tests Sep 29 2019 In 1997, after more than a decade of research, the National Cancer Institute (NCI) released a report which provided their assessment of radiation exposures that Americans may have received from radioactive iodine released from the atomic bomb tests conducted in Nevada during the 1950s and early 1960s. This book provides an evaluation of the soundness of the methodology used by the NCI study to estimate: Past radiation doses. Possible health consequences of exposure to iodine-131. Implications for clinical practice. Possible public health strategiesâ€"such as systematic screening for thyroid cancerâ€"to respond to the exposures. In addition, the book provides an evaluation of the NCI estimates of the number of thyroid cancers that might result from the nuclear testing program and provides guidance on approaches the U.S. government might use to communicate with the public about Iodine-131 exposures and health risks.

Functional Programming Using F# Sep 09 2020 "1. Getting

started In this chapter we will introduce some of the main concepts of functional programming languages. In particular we will introduce the concepts of value, expression, declaration, recursive function and type. Furthermore, to explain the meaning of programs we will introduce the notions: binding, environment and evaluation of expressions. The purpose of the chapter is to acquaint the reader with these concepts, in order to address interesting problems from the very beginning. The reader will obtain a thorough knowledge of these concepts and skills in applying them as we elaborate on them throughout this book. There is support of both compilation of FÄ programs to executable code and the execution of programs in an interactive mode. The programs in this book are usually illustrated by the use of the interactive mode. The interface of the interactive FÄ compiler is very advanced as e.g. structured values like tuples, lists, trees and functions can be communicated directly between the user and the system without any conversions. Thus, it is very easy to experiment with programs and program designs and this allows us to focus on the main structures of programs and program designs, i.e. the core of programming, as input and output of structured values can be handled by the FÄ system"--