

Math for Programmers

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and simulations with Python

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Kotlin in Action, Second Edition Sebastian Aigner,Roman Elizarov,Svetlana Isakova,Dmitry

Jemerov,2024-06-18 Expert guidance and amazing examples from Kotlin core developers It s everything you need to get up and running fast Kotlin in Action Second Edition takes you from language basics to building production quality applications that take advantage of Kotlin s unique features Discover how the language handles everything from statements and functions to classes and types and the unique features that make Kotlin programming so seamless In Kotlin in Action Second Edition you will learn Kotlin statements and functions and classes and types Functional programming on the JVM The Kotlin standard library and out of the box features Writing clean and idiomatic code Combining Kotlin and Java Improve code reliability with

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Machine Learning with TensorFlow, Second Edition Mattmann A. Chris, 2021-02-02 Updated with new code new projects and new chapters Machine Learning with TensorFlow Second Edition gives readers a solid foundation in machine learning concepts and the TensorFlow library Summary Updated with new code new projects and new chapters Machine Learning with TensorFlow Second Edition gives readers a solid foundation in machine learning concepts and the TensorFlow library Written by NASA JPL Deputy CTO and Principal Data Scientist Chris Mattmann all examples are accompanied by downloadable Jupyter Notebooks for a hands on experience coding TensorFlow with Python New and revised content expands coverage of core machine learning algorithms and advancements in neural networks such as VGG Face facial identification classifiers and deep speech classifiers Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology Supercharge your data analysis with machine learning ML algorithms automatically improve as they process data so results get better over time You don t have to be a mathematician to use ML Tools like Google s TensorFlow library help with complex calculations so you can focus on getting the answers you

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[Spring Microservices in Action, Second Edition](#) John Carnell, Illary Huaylupo Sánchez, 2021-06-29 Spring Microservices in Action Second Edition teaches you to build microservice based applications using Java and Spring Summary By dividing large applications into separate self contained units Microservices are a great step toward reducing complexity and increasing flexibility Spring Microservices in Action Second Edition teaches you how to build microservice based applications using Java and the Spring platform This second edition is fully updated for the latest version of Spring with expanded coverage of API routing with Spring Cloud Gateway logging with the ELK stack metrics with Prometheus and Grafana security with the Hashicorp Vault and modern deployment practices with Kubernetes and Istio Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology Building and deploying microservices can be easy in Spring Libraries like Spring Boot Spring Cloud and Spring Cloud Gateway reduce the boilerplate code in REST based services They provide an effective toolbox to get your microservices up and running on both public and private clouds About the book Spring Microservices in Action Second Edition teaches you to build microservice based applications using Java and Spring You ll start by creating basic services then move to efficient logging and monitoring Learn to refactor Java applications with Spring s intuitive tooling and master API management with Spring Cloud Gateway You ll even deploy Spring Cloud applications with AWS and Kubernetes What s inside Microservice design principles and best

practices Configuration with Spring Cloud Config and Hashicorp Vault Client side resiliency with Resilience4j and Spring Cloud Load Balancer Metrics monitoring with Prometheus and Grafana Distributed tracing with Spring Cloud Sleuth Zipkin and ELK Stack About the reader For experienced Java and Spring developers About the author John Carnell is a senior cloud engineer with 20 years of Java experience Illary Huaylupo Sanchez is a software engineer with over 13 years of experience

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Modern C, Third Edition Jens Gustedt, 2025-10-07 Discover the full power of modern C programming with an inside look at the new C23 standard For programs that need to be small fast and reliable C is the gold standard Whether you re writing embedded code low level system routines or high performance applications C is up to the challenge This unique book by Jens Gustedt a member of the ISO C standards committee gets you up to speed with C23 In *Modern C Third Edition* you ll Learn C basics core features and advanced concepts Leverage major C23 improvements for security reliability and performance Write portable code that runs anywhere Build multi threaded applications with atomics and synchronization Create robust and resilient software with error handling Use type generic programming for reusable code In *Modern C Third Edition* you ll learn to harness C s full potential using the latest tools and techniques After a quick review of the fundamentals suited for coders who haven t used C in a while this book guides you to mastery of C23 the latest ISO standard About the Technology From code running on the smallest embedded devices to the low level libraries behind popular programming languages like Python and Ruby the software world depends on C And even after 50 years it s still getting better The new C23 standard adds improvements for security reliability and performance In this thoroughly revised new edition author Jens Gustedt gives you an authoritative inside view About the Book *Modern C Third Edition* is a fast paced introduction to the C language with special attention on its most modern features It starts with a quick review of structure grammar and execution and then progresses quickly to control structures data types operators and other core language features Fully revised for C23 this expanded Third Edition covers compound expressions and lambdas new insights into approaching program failure and how to transition smoothly to C23 What s Inside All major C23 features Portable code that runs anywhere Multi threaded applications with atomics and synchronization Use type generic programming for reusable code About the Readers For readers with intermediate skills in any programming language About the Author Jens Gustedt is a senior scientist at the French National Institute for Computer Science and Control INRIA deputy director of the ICube lab in Strasbourg France and an active member of the ISO C standards committee

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 Simon Holmes, Clive Harber, 2019-04-22 Summary Getting MEAN Second Edition teaches you how to develop full stack web
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Clojure in Action Amit Rathore, 2015-12-16 Summary A fully revised edition that covers the new features available in Clojure 1.6 Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Clojure is a modern Lisp for the JVM It has the strengths you expect first class functions macros and Lisp s clean programming style It supports functional programming making it ideal for concurrent programming and for creating domain specific languages Clojure lets you solve harder problems make faster changes and end up with a smaller code base It s no wonder that there are so many Clojure success stories About the Book Clojure in Action Second Edition is an expanded and improved version that s been updated to cover the new features of Clojure 1.6 The book gives you a rapid introduction to the Clojure language moving from abstract theory to practical examples You ll start by learning how to use Clojure as a general purpose language Next you ll explore Clojure s efficient concurrency model based on the database concept of Software Transactional Memory STM You ll gain a new level of productivity through Clojure DSLs that can run on the JVM Along the way you ll learn countless tips tricks and techniques for writing smaller safer and faster code What s Inside Functional programming basics Metaprogramming with Clojure s macros Interoperating with Java Covers Clojure 1.6 About the Reader Assumes readers are familiar with a programming language like C Java Ruby or Python Table of Contents

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Privacy-Preserving Machine Learning J. Morris Chang, Di Zhuang, G. Dumindu Samaraweera, 2023-05-02 Keep sensitive user data safe and secure without sacrificing the accuracy of your machine learning models In Privacy Preserving Machine Learning you will learn Differential privacy techniques and their application in supervised learning Privacy for frequency or mean estimation Naive Bayes classifier and deep learning Designing and applying compressive privacy for machine learning Privacy preserving synthetic data generation approaches Privacy enhancing technologies for data mining and database applications Privacy Preserving Machine Learning is a comprehensive guide to avoiding data breaches in your machine learning projects You'll get to grips with modern privacy enhancing techniques such as differential privacy compressive privacy and synthetic data generation Based on years of DARPA funded cybersecurity research ML engineers of all skill levels and seniorities will benefit from incorporating these privacy preserving practices into their model development

Graph-Powered Machine Learning Alessandro Negro, 2021-09-28 1 Machine learning and graphs an introduction 2 Graph data engineering 3 Graphs in machine learning applications 4 Content based recommendations 5 Collaborative filtering 6 Session based recommendations 7 Context aware and hybrid recommendations 8 Basic approaches to graph powered fraud detection 9 Proximity based algorithms 10 Social network analysis against fraud 11 Graph based natural language processing 12 Knowledge graphs

Grokking Data Structures Marcello La Rocca, 2024-08-06 Don't be perplexed by data structures This fun friendly and fully illustrated guide makes it easy to learn useful data structures you'll put to work every day Grokking Data Structures makes it a breeze to learn the most useful day to day data structures You'll follow a steady learning path from absolute basics to advanced concepts all illustrated with fun examples engaging industry stories and hundreds of graphics and cartoons In Grokking Data Structures you'll learn how to Understand the most important and widely used data structures Identify use cases where data structures make the biggest difference Pick the best data structure solution for a coding challenge Understand the tradeoffs of data structures and avoid catastrophes Implement basic data collections like arrays linked lists stacks and priority queues Use trees and binary search trees BSTs to organize data Use graphs to model relationships and learn about complex data Efficiently search by key using hash tables and hashing functions Reason about time and memory requirements of operations on data structures Grokking Data Structures carefully guides you from the most basic data structures like arrays or linked lists all the way to powerful structures like graphs It's perfect for beginners and you won't need anything more than high school math to get started Each data structure you encounter comes with its own complete Python implementation so you can start experimenting with what you learn right away Foreword by Daniel Zingaro About the technology Data structures are vital for shaping and handling your data organization They're also an important part of most

IT job interviews Whether you re new to data structures or just dusting off what you learned in school this book will get you up to speed fast with no advanced math abstract theory or complicated proofs About the book *Grokking Data Structures* introduces common and useful data structures that every developer needs to know Real world examples show you how data structures are used in practice from making your searches faster to handling triage in an emergency room You ll love the fun cartoons insightful stories and useful Python code samples that make data structures come alive And unlike jargon laden academic texts this book is easy to read and practical What s inside Fast searches using hash tables Trees and binary search trees BSTs to organize data Use graphs to model complex data The best data structures for a coding challenge About the reader For readers who know the basics of Python A perfect companion to *Grokking Algorithms* About the author Marcello La Rocca is a research scientist and a full stack engineer He has contributed to large scale web applications and machine learning infrastructure at Twitter Microsoft and Apple The technical editor on this book was Beau Carnes [F# in Action](#) Isaac Abraham,2024-05-21 F is designed to make functional programming practical and accessible especially for developers working on the NET platform This book will get you started In F in Action you will learn how to Write performant and robust systems with succinct F code Model domains quickly easily and accurately with F s type system Design solutions using functional programming patterns Ingest and process disparate data sources Develop data driven web applications Unit test F code Effectively model data using a variety of techniques Use scripts to rapidly explore domains About the technology F is a simple robust and highly performant programming language It lets you keep your code simple in even the most complex applications and its language core is perfect for learning the fundamentals of functional programming F runs on NET so you can work cross platform and take advantage of battle tested NET components It s succinct and flexible perfect for everything from command line tools to web apps to data analysis and machine learning *The Jamstack Book* Raymond Camden,Brian Rinaldi,2022-07-05 Jamstack JavaScript APIs and Markup Use established standard technologies to build super fast static websites without sacrificing rich dynamic features Building websites with simple straightforward standards can feel like a breath of fresh air Jamstack sites use JavaScript APIs and Markup to create fast dynamic pages without the overhead of heavyweight frameworks The Jamstack Book is your essential guide to this exciting new web architecture Written by renowned Jamstack experts Raymond Camden and Brian Rinaldi it s filled with real world projects to develop and hone your skills [Data Engineering on Azure](#) Vlad Riscutia,2021-08-17 Build a data platform to the industry leading standards set by Microsoft s own infrastructure Summary In Data Engineering on Azure you will learn how to Pick the right Azure services for different data scenarios Manage data inventory Implement production quality data modeling analytics and machine learning workloads Handle data governance Using DevOps to increase reliability Ingesting storing and distributing data Apply best practices for compliance and access control Data Engineering on Azure reveals the data management patterns and techniques that support Microsoft s own massive data infrastructure Author Vlad Riscutia a data engineer at Microsoft

teaches you to bring an engineering rigor to your data platform and ensure that your data prototypes function just as well under the pressures of production You'll implement common data modeling patterns stand up cloud native data platforms on Azure and get to grips with DevOps for both analytics and machine learning Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology Build secure stable data platforms that can scale to loads of any size When a project moves from the lab into production you need confidence that it can stand up to real world challenges This book teaches you to design and implement cloud based data infrastructure that you can easily monitor scale and modify About the book In Data Engineering on Azure you'll learn the skills you need to build and maintain big data platforms in massive enterprises This invaluable guide includes clear practical guidance for setting up infrastructure orchestration workloads and governance As you go you'll set up efficient machine learning pipelines and then master time saving automation and DevOps solutions The Azure based examples are easy to reproduce on other cloud platforms What's inside Data inventory and data governance Assure data quality compliance and distribution Build automated pipelines to increase reliability Ingest store and distribute data Production quality data modeling analytics and machine learning About the reader For data engineers familiar with cloud computing and DevOps About the author Vlad Riscutia is a software architect at Microsoft Table of Contents 1 Introduction PART 1 INFRASTRUCTURE 2 Storage 3 DevOps 4 Orchestration PART 2 WORKLOADS 5 Processing 6 Analytics 7 Machine learning PART 3 GOVERNANCE 8 Metadata 9 Data quality 10 Compliance 11 Distributing data

Conversational AI Andrew Freed, 2021-10-12 Conversational AI is a guide to creating AI driven voice and text agents for customer support and other conversational tasks This practical and entertaining book combines design theory with techniques for building and training AI systems In it you'll learn how to find training data assess performance and write dialog that sounds human You'll go from building simple chatbots to designing the voice assistant for a complete call center

Functional Design and Architecture Alexander Granin, 2024-11-05 Functional Design and Architecture is a comprehensive guide to software engineering using functional programming Inside you'll find cutting edge functional design principles and practices for every stage of application development There's no abstract theory you'll learn by building exciting sample applications including an application for controlling a spaceship and a full fledged backend framework You'll explore functional design by looking at object oriented principles you might already know and learn how they can be reapplied to a functional environment By the time you're done you'll be ready to apply the brilliant innovations of the functional world to serious software projects

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Dart in Action Chris Buckett, 2013-01-15 Summary Dart in Action introduces Google s Dart language and provides techniques and examples showing how to use it as a viable replacement for Java and JavaScript in browser based desktop and mobile applications It begins with a rapid overview of Dart language and tools including features like interacting with the browser optional typing classes libraries and concurrency with isolates After you master the core concepts you ll move on to running Dart on the server and creating single page HTML5 web applications About the Technology Dart is a web programming language developed by Google It has modern OO features just like Java or C while keeping JavaScript s dynamic and functional characteristics Dart applications are transpiled to JavaScript and they run natively in Dart enabled browsers With production quality libraries and tools Dart operates on both the client and the server for a consistent development process About this Book Dart in Action introduces the Dart language and teaches you to use it in browser based desktop and mobile applications Not just a language tutorial this book gets quickly into the nitty gritty of using Dart Most questions that pop up while you re reading are answered on the spot OO newbies will appreciate the gentle pace in the early chapters Later chapters take a test first approach and encourage you to try Dart hands on To benefit from this book you ll need experience with HTML and JavaScript a Java or C background is helpful but not required Purchase of the print book comes with an offer of a free PDF ePub and Kindle eBook from Manning Also available is all code from the book What s Inside Dart from the ground up Numerous code samples and diagrams Creating single page web apps Transitioning from Java C or JavaScript Running Dart in the browser and on the server About the Author Chris Buckett builds enterprise scale web applications He runs Dartwatch com and is an active contributor to the dartlang list Includes numerous examples of core language features as well as more advanced HTML5 features From the Foreword by Seth Ladd Developer Advocate Google Table of Contents PART 1 INTRODUCING DART Hello Dart Hello World with Dart tools Building and testing your own Dart

app PART 2 CORE DART Functional first class functions and closures Understanding libraries and privacy Constructing classes and interfaces Extending classes and interfaces Collections of richer classes Asynchronous programming with callbacks and futures PART 3 CLIENT SIDE DART APPS Building a Dart web app Navigating offline data Communicating with other systems and languages PART 4 SERVER SIDE DART Server interaction with files and HTTP Sending syncing and storing data Concurrency with isolates

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