

# Math for Programmers

3D graphics, machine learning,  
and simulations with Python

Paul Orland

MEAP



MANNING



# Meap Edition Manning Early Access Program

**Chao Zhang**



## **Meap Edition Manning Early Access Program:**

Elixir in Action, Third Edition Saša Juric, 2024-03-19 Fully updated to Elixir 1.15 this authoritative bestseller reveals how Elixir tackles problems of scalability, fault tolerance, and high availability. Thousands of developers have learned to build applications in Elixir by using Saša Juric's *Elixir in Action*. You'll skip the programming basics or 101 introductions; this book builds on your existing knowledge to get you quickly writing real Elixir code. Along the way, you'll develop an appreciation for and considerable skill in functional and concurrent programming. Inside *Elixir in Action, Third Edition*, you'll find updates for Elixir 1.15, Elixir modules, functions, and type system, functional and concurrent programming, introduction to distributed system design, creating deployable releases. Fully updated to Elixir 1.15, this book contains new coverage of working with application configuration and the latest OTP releases. It teaches you the underlying principles and functional concepts of Elixir and how each piece fits into the bigger picture of building production-ready systems with Elixir, Erlang, and the OTP framework. Foreword by Francesco Cesarini. About the technology: With best-in-class fault tolerance and concurrency, a pragmatic approach to functional programming, and the power to operate at scale, Elixir is the perfect choice for mission-critical software. Start reading *Elixir in Action*, and you'll quickly understand why Elixir creator Jos Valim says it tops the list of Elixir books. About the book: *Elixir in Action, Third Edition* teaches you how to create distributed applications and server-side systems using Elixir and the Erlang VM. This Third Edition from Elixir expert Saša Juric is fully updated to include the latest features of Elixir 1.15. In it, you'll master the foundations of the language, discover how the OTP framework minimizes tedious boilerplate code, and explore numerous examples that ensure you're learning hands-on. What's inside: Elixir modules, functions, and type system, functional and concurrent programming, introduction to distributed system design, creating deployable releases. About the reader: For programmers comfortable with client-server applications. No experience with Elixir, Erlang, or functional programming required. About the author: Saša Juric uses Elixir and Erlang to build fault-tolerant, scalable, highly concurrent systems. Technical editor on this book was Marius Butuc. Table of Contents: PART 1: Functional Elixir 1. First steps 2. Building blocks 3. Control flow 4. Data abstractions. PART 2: CONCURRENT ELIXIR 5. Concurrency primitives 6. Generic server processes 7. Building a concurrent system 8. Fault tolerance basics 9. Isolating error effects 10. Beyond GenServer. PART 3: PRODUCTION 11. Working with components 12. Building a distributed system 13. Running the system.

ASP.NET Core in Action, Third Edition Andrew Lock, 2023-11-14 Build professional-grade full-stack web applications using C# and ASP.NET Core. In *ASP.NET Core in Action, Third Edition*, you'll learn how to build minimal APIs for serving JSON to client-side applications, create dynamic server-side rendered applications using Razor Pages, user authentication and authorization, store data using Entity Framework Core, unit and integration tests for ASP.NET Core applications, write custom middleware, and components. Fully updated to ASP.NET Core 7.0. In *ASP.NET Core in Action, Third Edition*, Microsoft MVP Andrew Lock teaches you how you can use your C# and .NET skills to build amazing cross-platform web applications. This

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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

null safety Domain specific languages Kotlin coroutines and flows Mastering the kotlinx coroutines library Kotlin in Action Second Edition is a complete guide to the Kotlin language written especially for readers familiar with Java or another OO language Its authors all core Kotlin language developers and Kotlin team members share their unique insights along with practical techniques and hands on examples This new second edition is fully updated to include the latest innovations and it adds new chapters dedicated to coroutines flows and concurrency About the technology Kotlin is a low hassle high productivity programming language flexible enough to handle any web mobile cloud and enterprise application Java developers will appreciate the simple syntax intuitive type system excellent tooling and support for functional style programming Plus since Kotlin runs on the JVM it integrates seamlessly with existing Java code libraries and frameworks including Spring and Android About the book Kotlin in Action Second Edition teaches you Kotlin techniques you can use for almost any type of application from enterprise services to Android apps The authors are all members of the Kotlin team so you can trust that even the gnarly details are dead accurate You ll start with Kotlin fundamentals learning how the language handles everything from statements and functions to classes and types and about its unique features that make Kotlin programming so seamless As you progress through this masterful book you ll get hands on with the Kotlin standard library functional programming in Kotlin and advanced features such as generics and reflection And this updated second edition now covers coroutines and structured concurrency to help you create efficient high performance applications What s inside Guidance from members of the Kotlin team Domain specific languages Kotlin coroutines and flows About the reader For readers familiar with Java or another OO language About the author Sebastian Aigner is a Developer Advocate at JetBrains and host of the Talking Kotlin podcast Roman Elizarov was the lead designer of the Kotlin language JetBrains Developer Advocate Svetlana Isakova was a member of the Kotlin compiler team Dmitry Jemerov is one of Kotlin s initial developers

*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 S nchez is a software engineer with over 13 years of experience

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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 need About the book Machine Learning with TensorFlow Second Edition is a fully revised guide to building machine learning models using Python and TensorFlow You ll apply core ML concepts to real world challenges such as sentiment analysis text classification and image recognition Hands on examples illustrate neural network techniques for deep speech processing facial identification and auto encoding with CIFAR 10 What s inside Machine Learning with TensorFlow Choosing the best ML approaches Visualizing algorithms with TensorBoard Sharing results with collaborators Running models in Docker About the reader Requires intermediate Python skills and knowledge of general algebraic concepts like vectors and matrices Examples use the super stable 1 15 x branch of TensorFlow and TensorFlow 2 x About the author Chris Mattmann is the Division Manager of

the Artificial Intelligence Analytics and Innovation Organization at NASA Jet Propulsion Lab The first edition of this book was written by Nishant Shukla with Kenneth Fricklas Table of Contents PART 1 YOUR MACHINE LEARNING RIG 1 A machine learning odyssey 2 TensorFlow essentials PART 2 CORE LEARNING ALGORITHMS 3 Linear regression and beyond 4 Using regression for call center volume prediction 5 A gentle introduction to classification 6 Sentiment classification Large movie review dataset 7 Automatically clustering data 8 Inferring user activity from Android accelerometer data 9 Hidden Markov models 10 Part of speech tagging and word sense disambiguation PART 3 THE NEURAL NETWORK PARADIGM 11 A peek into autoencoders 12 Applying autoencoders The CIFAR 10 image dataset 13 Reinforcement learning 14 Convolutional neural networks 15 Building a real world CNN VGG Face ad VGG Face Lite 16 Recurrent neural networks 17 LSTMs and automatic speech recognition 18 Sequence to sequence models for chatbots 19 Utility landscape

**Getting MEAN with Mongo, Express, Angular, and Node** Simon Holmes, Clive Harber, 2019-04-22 Summary Getting MEAN Second Edition teaches you how to develop full stack web applications using the MEAN stack This edition was completely revised and updated to cover MongoDB 4 Express 4 Angular 7 Node 11 and the latest mainstream release of JavaScript ES2015 Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Juggling languages mid application can radically slow down a full stack web project The MEAN stack MongoDB Express Angular and Node uses JavaScript end to end maximizing developer productivity and minimizing context switching And you ll love the results MEAN apps are fast powerful and beautiful About the Book Getting MEAN Second Edition teaches you how to develop full stack web applications using the MEAN stack Practical from the very beginning the book helps you create a static site in Express and Node Expanding on that solid foundation you ll integrate a MongoDB database build an API and add an authentication system Along the way you ll get countless pro tips for building dynamic and responsive data driven web applications What s inside MongoDB 4 Express 4 Angular 7 and Node js 11 MEAN stack architecture Mobile ready web apps Best practices for efficiency and reusability About the Reader Readers should be comfortable with standard web application designs and ES2015 style JavaScript About the Author Simon Holmes and Clive Harber are full stack developers with decades of experience in JavaScript and other leading edge web technologies Table of Contents PART 1 SETTING THE BASELINE Introducing full stack development Designing a MEAN stack architecture PART 2 BUILDING A NODE WEB APPLICATION Creating and setting up a MEAN project Building a static site with Node and Express Building a data model with MongoDB and Mongoose Writing a REST API Exposing the MongoDB database to the application Consuming a REST API Using an API from inside Express PART 3 ADDING A DYNAMIC FRONT END WITH ANGULAR Creating an Angular application with TypeScript Building a single page application with Angular Foundations Building a single page application with Angular The next level PART 4 MANAGING AUTHENTICATION AND USER SESSIONS Authenticating users managing sessions and securing APIs Using an authentication API in Angular applications

**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 Introducing Clojure Clojure elements Data structures and functions Building blocks of Clojure Multimethod polymorphism Exploring Clojure and Java interop State and the concurrent world Evolving Clojure through macros More on functional programming Protocols records and types Test driven development and more More macros and DSL

**Shipping Go** Joel Holmes, 2023-08-01 Build and upgrade an automated software delivery pipeline that supports containerization integration testing semantic versioning automated deployment and more In Shipping Go you will learn how to Develop better software based on feedback from customers Create a development pipeline that turns feedback into features Reduce bugs with pipeline automation that validates code before it is deployed Establish continuous testing for exceptional code quality Serverless container based and server based deployments Scale your deployment in a cost effective way Deliver a culture of continuous improvement Shipping Go is a hands on guide to shipping Go based software Author Joel Holmes shows you the easy way to set up development pipelines fully illustrated with practical examples in the powerful Go language You ll put continuous delivery and continuous integration into action and discover instantly useful guidance on automating your team s build and reacting with agility to customer demands Your new pipelines will ferry your projects through production and deployment and also improve your testing code quality and production applications Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology An effective software delivery pipeline automates all stages from initial design through development deployment and ultimately the usage experience that feeds back into new features and releases Go embraces the best practices of Continuous Delivery and adds a few language specific tools and twists of its own About the Book Shipping Go shows you how to build Go specific software development pipelines You ll have a basic CI CD process up and running by the time you finish



Chapter 3 along with an iterative process for designing releasing and revising your applications Then you ll systematically upgrade your pipeline to support containerization integration testing semantic versioning and automated deployment A set of handy appendices help you translate these valuable practices to Kotlin Python and JavaScript applications What s Inside Create a development pipeline that turns feedback into features Automatically validate code before it is deployed Serverless container based and server based deployments Scale your deployment in a cost effective way About the Reader For Go developers About the Author Joel Holmes builds cloud native applications helping to architect design and develop them A Golang tech lead Ali nor Latour was the technical editor for this book Table of Contents PART 1 STARTUP 1 Delivering value 2 Introducing continuous integration 3 Introducing continuous testing 4 Introducing continuous deployment PART 2 SCALING 5 Code quality enforcement 6 Testing frameworks mocking and dependencies 7 Containerized deployment PART 3 GOING PUBLIC 8 Configuration management and stable releases 9 Integration testing 10 Advanced deployment 11 The loop

**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

**Privacy-Preserving Machine Learning** J. Morris Chang,Di Zhuang,G. Dumindu Samaraweera,2023-05-02 Keep sensitive user data safe and secure without sacrificing theaccuracy of your machine learning models In Privacy Preserving Machine Learning you will learn Differential privacy techniques and their application insupervised 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

**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

*Graph-Powered Machine Learning* Alessandro Nego,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      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

*Hello App Inventor!* Paula Beer, Carl Simmons, 2014-10-26 Summary Hello App Inventor introduces creative young readers to the world of mobile programming no experience required Featuring more than 30 fun invent it yourself projects this full color fun to read book starts with the building blocks you need to create a few practice apps Then you ll learn the skills you need to bring your own app ideas to life Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Book Have you ever wondered how apps are made Do you have a great idea for an app that you want to make reality This book can teach you how to create apps for any Android device even if you have never programmed before With App Inventor if you can imagine it you can create it Using this free friendly tool you can decide what you want your app to do and then click together colorful jigsaw puzzle blocks to make it happen App Inventor turns your project into an Android app that you can test on your computer run on your phone share with your friends and even sell in the Google Play store Hello App Inventor introduces young readers to the world of mobile programming It assumes no previous experience Featuring more than 30 invent it yourself projects this book starts with basic apps and gradually builds the skills you need to bring your own ideas to life We ve provided the graphics and sounds to get you started right away And a special Learning Points feature connects the example you re following to important computing concepts you ll use in any programming language App Inventor is developed and maintained by MIT What s Inside Covers MIT App Inventor 2 How to create animated characters games experiments magic tricks and a Zombie Alarm clock Use advanced phone features like Movement sensors Touch screen interaction GPS Camera Text Web connectivity About the Authors Paula Beer and Carl Simmons are professional educators and authors who spend most of their time training new teachers and introducing children to programming Table of Contents Getting to know App Inventor Designing the user interface Using the screen layouts and the canvas Flung touch and drag user interaction with the touch screen Variables decisions and procedures Lists and loops Clocks and timers Animation Position sensors Barcodes and scanners Using speech and storing data on your phone Web enabled apps Location aware apps From idea to app Publishing and beyond [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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