

Camel IN ACTION



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Forewords by
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SAMPLE CHAPTER



MANNING

Sample Chapter 9 Manning Publications

Benjamin Bengfort, Jenny Kim



Sample Chapter 9 Manning Publications:

Data Analysis with Open Source Tools Philipp K. Janert, 2010-11-11 Collecting data is relatively easy but turning raw information into something useful requires that you know how to extract precisely what you need With this insightful book intermediate to experienced programmers interested in data analysis will learn techniques for working with data in a business environment You ll learn how to look at data to discover what it contains how to capture those ideas in conceptual models and then feed your understanding back into the organization through business plans metrics dashboards and other applications Along the way you ll experiment with concepts through hands on workshops at the end of each chapter Above all you ll learn how to think about the results you want to achieve rather than rely on tools to think for you Use graphics to describe data with one two or dozens of variables Develop conceptual models using back of the envelope calculations as well as scaling and probability arguments Mine data with computationally intensive methods such as simulation and clustering Make your conclusions understandable through reports dashboards and other metrics programs Understand financial calculations including the time value of money Use dimensionality reduction techniques or predictive analytics to conquer challenging data analysis situations Become familiar with different open source programming environments for data analysis Finally a concise reference for understanding how to conquer piles of data Austin King Senior Web Developer Mozilla An indispensable text for aspiring data scientists Michael E Driscoll CEO Founder Dataspora

Bootstrapping Microservices with Docker, Kubernetes, and Terraform Ashley Davis, 2021-03-09 Summary The best way to learn microservices development is to build something Bootstrapping Microservices with Docker Kubernetes and Terraform guides you from zero through to a complete microservices project including fast prototyping development and deployment You ll get your feet wet using industry standard tools as you learn and practice the practical skills you ll use for every microservices application Following a true bootstrapping approach you ll begin with a simple familiar application and build up your knowledge and skills as you create and deploy a real microservices project Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology Taking microservices from proof of concept to production is a complex multi step operation relying on tools like Docker Terraform and Kubernetes for packaging and deployment The best way to learn the process is to build a project from the ground up and that s exactly what you ll do with this book About the book In Bootstrapping Microservices with Docker Kubernetes and Terraform author Ashley Davis lays out a comprehensive approach to building microservices You ll start with a simple design and work layer by layer until you ve created your own video streaming application As you go you ll learn to configure cloud infrastructure with Terraform package microservices using Docker and deploy your finished project to a Kubernetes cluster What s inside Developing and testing microservices applications Working with cloud providers Applying automated testing Implementing infrastructure as code and setting up a continuous delivery pipeline Monitoring managing and troubleshooting About the reader Examples are

in JavaScript No experience with microservices Kubernetes Terraform or Docker required About the author Ashley Davis is a software developer entrepreneur stock trader and the author of Manning s Data Wrangling with JavaScript Table of Contents 1 Why microservices 2 Creating your first microservice 3 Publishing your first microservice 4 Data management for microservices 5 Communication between microservices 6 Creating your production environment 7 Getting to continuous delivery 8 Automated testing for microservices 9 Exploring FlixTube 10 Healthy microservices 11 Pathways to scalability

Deep Learning with Structured Data Mark Ryan,2020-12-29 Deep Learning with Structured Data teaches you powerful data analysis techniques for tabular data and relational databases Summary Deep learning offers the potential to identify complex patterns and relationships hidden in data of all sorts Deep Learning with Structured Data shows you how to apply powerful deep learning analysis techniques to the kind of structured tabular data you ll find in the relational databases that real world businesses depend on Filled with practical relevant applications this book teaches you how deep learning can augment your existing machine learning and business intelligence systems Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology Here s a dirty secret Half of the time in most data science projects is spent cleaning and preparing data But there s a better way Deep learning techniques optimized for tabular data and relational databases deliver insights and analysis without requiring intense feature engineering Learn the skills to unlock deep learning performance with much less data filtering validating and scrubbing About the book Deep Learning with Structured Data teaches you powerful data analysis techniques for tabular data and relational databases Get started using a dataset based on the Toronto transit system As you work through the book you ll learn how easy it is to set up tabular data for deep learning while solving crucial production concerns like deployment and performance monitoring What s inside When and where to use deep learning The architecture of a Keras deep learning model Training deploying and maintaining models Measuring performance About the reader For readers with intermediate Python and machine learning skills About the author Mark Ryan is a Data Science Manager at Intact Insurance He holds a Master s degree in Computer Science from the University of Toronto Table of Contents 1 Why deep learning with structured data 2 Introduction to the example problem and Pandas dataframes 3 Preparing the data part 1 Exploring and cleansing the data 4 Preparing the data part 2 Transforming the data 5 Preparing and building the model 6 Training the model and running experiments 7 More experiments with the trained model 8 Deploying the model 9 Recommended next steps [.NET in Action, Second Edition](#) Dustin Metzgar,2024-07-23 Learn to build standout line of business applications using Microsoft s NET Framework the premier platform for enterprise business development Based on the bestselling NET Core in Action the new NET in Action Second Edition has been completely rewritten and updated by original author Dustin Metzgar an industry veteran who helped develop both the original NET Framework and NET Core NET in Action Second Edition presents the big picture of NET application development introducing core concepts like Designing applications to take full advantage of NET 8

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how the system you're building fits its competitive strategy Use DDD's strategic and tactical tools to architect effective software solutions that address business needs Build a shared understanding of the business domains you encounter Decompose a system into bounded contexts Coordinate the work of multiple teams Gradually introduce DDD to brownfield projects

The Programmer's Brain Felienne Hermans, 2021-09-07 The Programmer's Brain explores the way your brain works when it's thinking about code In it you'll master practical ways to apply these cognitive principles to your daily programming life You'll improve your code comprehension by turning confusion into a learning tool and pick up awesome techniques for reading code and quickly memorizing syntax This practical guide includes tips for creating your own flashcards and study resources that can be applied to any new language you want to master By the time you're done you'll not only be better at teaching yourself you'll be an expert at bringing new colleagues and junior programmers up to speed

Data Analytics with Hadoop Benjamin Bengfort, Jenny Kim, 2016-06 Ready to use statistical and machine learning techniques across large data sets This practical guide shows you why the Hadoop ecosystem is perfect for the job Instead of deployment operations or software development usually associated with distributed computing you'll focus on particular analyses you can build the data warehousing techniques that Hadoop provides and higher order data workflows this framework can produce Data scientists and analysts will learn how to perform a wide range of techniques from writing MapReduce and Spark applications with Python to using advanced modeling and data management with Spark MLlib Hive and HBase You'll also learn about the analytical processes and data systems available to build and empower data products that can handle and actually require huge amounts of data Understand core concepts behind Hadoop and cluster computing Use design patterns and parallel analytical algorithms to create distributed data analysis jobs Learn about data management mining and warehousing in a distributed context using Apache Hive and HBase Use Sqoop and Apache Flume to ingest data from relational databases Program complex Hadoop and Spark applications with Apache Pig and Spark DataFrames Perform machine learning techniques such as classification clustering and collaborative filtering with Spark's MLlib

Facilities Engineering Management Handbook United States. Department of the Army, 1978

Go by Example Inanc Gumus, 2025-10-07 Go beyond Go syntax into the language's unique perspective on program design Through engaging hands-on examples Go by Example will teach you to think differently about programming in Go You'll get to grips with the Go mindset writing code that's simple straightforward and easy to understand for your fellow Go developers You'll discover how Go's tooling helps you write code that's robust and testable and see just how productive you can be with Go's rich set of built-in packages In Go by Example you will learn how to Understand what makes Go different and adopt its philosophy for simple pragmatic and straightforward code Write idiomatic code that's robust efficient maintainable and inherently testable by design Identify common Go mistakes and apply proven patterns for higher quality code Structure and organize effective Go packages and APIs Build performant concurrent programs with Go's unique concurrency Go by Example explores what

makes Go so dramatically different from other languages Through hands on and realistic project examples like command line tools web services and scalable concurrent programs it helps experienced developers unlearn habits and quickly become productive in crafting truly Go like high quality code About the technology You can't appreciate the simplicity explicitness and pragmatism of Go until you see it with your own eyes Even a quick glance at an elegant interface or a bit of clean error handling code reveals why Go was the language of choice for Kubernetes Docker and Terraform About the book Go by Example unpacks real Go programs to highlight the language features and idiomatic coding practices used by the pros In it you'll dissect and explore examples of command line tools concurrent programs web services and more as you learn to write Go code that's simple efficient and testable What's inside Acquire the Go mindset Write idiomatic reliable and maintainable code Structure Go projects and packages Best practices and antipatterns About the reader For experienced programmers About the author Inanc Gumus is a veteran programmer who has specialized in Go since 2012 Inanc has educated over 100 000 developers through his social presence GitHub repositories online courses and his popular blog Table of Contents 1 Getting started 2 Idioms and testing 3 Test coverage and optimization 4 Command line interfaces 5 Dependency injection 6 Synchronous APIs for concurrency 7 Responsive and efficient programs 8 Structuring packages and services 9 Composition patterns 10 Polymorphic storage

Re-Engineering Legacy Software Chris Birchall, 2016-04-15 Summary As a developer you may inherit projects built on existing codebases with design patterns usage assumptions infrastructure and tooling from another time and another team Fortunately there are ways to breathe new life into legacy projects so you can maintain improve and scale them without fighting their limitations Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Book Re Engineering Legacy Software is an experience driven guide to revitalizing inherited projects It covers refactoring quality metrics toolchain and workflow continuous integration infrastructure automation and organizational culture You'll learn techniques for introducing dependency injection for code modularity quantitatively measuring quality and automating infrastructure You'll also develop practical processes for deciding whether to rewrite or refactor organizing teams and convincing management that quality matters Core topics include deciphering and modularizing awkward code structures integrating and automating tests replacing outdated build systems and using tools like Vagrant and Ansible for infrastructure automation What's Inside Refactoring legacy codebases Continuous inspection and integration Automating legacy infrastructure New tests for old code Modularizing monolithic projects About the Reader This book is written for developers and team leads comfortable with an OO language like Java or C About the Author Chris Birchall is a senior developer at the Guardian in London working on the back end services that power the website Table of Contents PART 1 GETTING STARTED Understanding the challenges of legacy projects Finding your starting point PART 2 REFACTORING TO IMPROVE THE CODEBASE Preparing to refactor Refactoring Re architecting The Big Rewrite PART 3 BEYOND REFACTORING IMPROVING PROJECT WORKFLOW AND INFRASTRUCTURE Automating the

development environment Extending automation to test staging and production environments Modernizing the development building and deployment of legacy software Stop writing legacy code *Lift Cookbook* Richard Dallaway, 2013-06-24

Annotation If you need help building web applications with the Lift framework this cookbook provides scores of concise ready to use code solutions Youll find recipes for everything from setting up a coding environment to creating REST web services and deploying your application to production Built on top of the Scala JVM programming language Lift takes a different yet ultimately easier approach to development than MVC frameworks such as Rails Each recipe in this book includes a discussion of how and why each solution works not only to help you complete the task at hand but also to illustrate how Lift works Set up an environment and run your first Lift application Generate HTML using Lifts View First approach Submit forms and work with form elements Build REST web services with the frameworks RestHelper trait Take advantage of Lifts support for Ajax and Comet Get examples for modifying Lifts request pipeline Convert Scala classes into tables rows and columns in a relational database Send email call URLs and schedule tasks from your application Package and deploy your application to various hosted services [OpenStack in Action](#) Cody Bumgardner, 2016-03-15 Summary OpenStack in Action offers the real world use cases and step by step instructions you can take to develop your own cloud platform from from inception to deployment This book guides you through the design of both the physical hardware cluster and the infrastructure services you ll need to create a custom cloud platform Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology OpenStack is an open source framework that lets you create a private or public cloud platform on your own physical servers You build custom infrastructure platform and software services without the expense and vendor lock in associated with proprietary cloud platforms like Amazon Web Services and Microsoft Azure With an OpenStack private cloud you can get increased security more control improved reliability and lower costs About the Book OpenStack in Action offers real world use cases and step by step instructions on how to develop your own cloud platform This book guides you through the design of both the physical hardware cluster and the infrastructure services you ll need You ll learn how to select and set up virtual and physical servers how to implement software defined networking and technical details of designing deploying and operating an OpenStack cloud in your enterprise You ll also discover how to best tailor your OpenStack deployment for your environment Finally you ll learn how your cloud can offer user facing software and infrastructure services What s Inside Develop and deploy an enterprise private cloud Private cloud technologies from an IT perspective Organizational impact of self service cloud computing About the Reader No prior knowledge of OpenStack or cloud development is assumed About the Author Cody Bumgardner is the Chief Technology Architect at a large university where he is responsible for the architecture deployment and long term strategy of OpenStack private clouds and other cloud computing initiatives Table of Contents PART 1 GETTING STARTED Introducing OpenStack Taking an OpenStack test drive Learning basic OpenStack operations Understanding private cloud building blocks PART 2 WALKING

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100 Java Mistakes and How to Avoid Them Tagir Valeev, 2024-04-30 Whenever you make a mistake writing Java it's almost guaranteed that someone else has made it before In 100 Java Mistakes and How To Avoid Them you'll learn about the common and the not so common antipatterns errors and tricky bits that trip up almost every Java developer

Deep Learning with PyTorch Luca Pietro Giovanni Antiga, Eli Stevens, Thomas Viehmann, 2020-07-01 We finally have the definitive treatise on PyTorch It covers the basics and abstractions in great detail I hope this book becomes your extended reference document Soumith Chintala co creator of PyTorch Key Features Written by PyTorch's creator and key contributors Develop deep learning models in a familiar Pythonic way Use PyTorch to build an image classifier for cancer detection Diagnose problems with your neural network and improve training with data augmentation Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About The Book Every other day we hear about new ways to put deep learning to good use improved medical imaging accurate credit card fraud detection long range weather forecasting and more PyTorch puts these superpowers in your hands Instantly familiar to anyone who knows Python data tools like NumPy and Scikit learn PyTorch simplifies deep learning without sacrificing advanced features It's great for building quick models and it scales smoothly from laptop to enterprise Deep Learning with PyTorch teaches you to create deep learning and neural network systems with PyTorch This practical book gets you to work right away building a tumor image classifier from scratch After covering the basics you'll learn best practices for the entire deep learning pipeline tackling advanced projects as your PyTorch skills become more sophisticated All code samples are easy to explore in downloadable Jupyter notebooks What You Will Learn Understanding deep learning data structures such as tensors and neural networks Best practices for the PyTorch Tensor API loading data in Python and visualizing results Implementing modules and loss functions Utilizing pretrained models from PyTorch Hub Methods for training networks with limited inputs Sifting through unreliable results to diagnose and fix problems in your neural network Improve your results with augmented data better model architecture and fine tuning This Book Is Written For Python programmers with an interest in machine learning No experience with PyTorch or other deep learning frameworks is required About The Authors Eli Stevens has worked in Silicon Valley for the past 15 years as a software engineer and the past 7 years as Chief Technical Officer of a startup making medical device software Luca Antiga is co founder and CEO of an AI engineering company located in Bergamo Italy and a regular contributor to PyTorch Thomas Viehmann is a Machine Learning and PyTorch speciality trainer and consultant based in Munich Germany and a PyTorch core developer Table of Contents PART 1 CORE PYTORCH 1 Introducing deep learning and the PyTorch Library 2 Pretrained networks 3 It starts

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CoreOS in Action Matt Bailey, 2017-05-11 Summary CoreOS in Action is a clear tutorial for deploying container based systems on CoreOS Container Linux Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Traditional Linux server distributions include every component required for anything you might be hosting most of which you don't need if you've containerized your apps and services CoreOS Container Linux is a bare bones distro with only the essential bits needed to run containers like Docker Container Linux is a fast secure base layer for any container centric distributed application including microservices And say goodbye to patch scheduling when Container Linux needs an update you just hot swap the whole OS About the Book CoreOS in Action is a clear tutorial for deploying container based systems on CoreOS Container Linux Inside you'll follow along with examples that teach you to set up CoreOS on both private and cloud systems and to practice common sense monitoring and upgrade techniques with real code You'll also explore important container aware application designs including microservices web and Big Data examples with real world use cases to put your learning into perspective Summary Handling scaling and failures gracefully Container driven application designs Cloud on premises and hybrid deployment Smart logging and backup practices About the Reader Written for readers familiar with Linux and the basics of Docker About the Author Matt Bailey is currently a technical lead at ZeniMax He has worked in higher education and with scientific computing medical and networking technology companies as well as a few startups You can find him online via <https://mdb.io> Table of Contents PART 1 GETTING TO KNOW COREOS Introduction to the CoreOS family Getting started on your workstation Expecting failure fault tolerance in CoreOS PART 2 APPLICATION ARCHITECTURE CoreOS in production Application architecture and workflow Web stack application example Big Data stack PART 3 COREOS IN PRODUCTION CoreOS on AWS Bringing it together deployment System administration

Building the Web of Things Dominique Dom Guinard, Vlad M. Trifa, 2016-06-06 Summary A hands on guide that will teach how to design and implement scalable flexible and open IoT solutions using web technologies This book focuses on providing the right balance of theory code samples and practical examples to enable you to successfully connect all sorts of devices to the web and to expose their services and data over REST APIs Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Because the Internet of Things is still new there is no universal application protocol Fortunately the IoT can take advantage of the web where IoT protocols connect applications thanks to universal and

open APIs About the Book Building the Web of Things is a guide to using cutting edge web technologies to build the IoT This step by step book teaches you how to use web protocols to connect real world devices to the web including the Semantic and Social Webs Along the way you ll gain vital concepts as you follow instructions for making Web of Things devices By the end you ll have the practical skills you need to implement your own web connected products and services What s Inside Introduction to IoT protocols and devices Connect electronic actuators and sensors GPIO to a Raspberry Pi Implement standard REST and Pub Sub APIs with Node js on embedded systems Learn about IoT protocols like MQTT and CoAP and integrate them to the Web of Things Use the Semantic Web JSON LD RDFa etc to discover and find Web Things Share Things via Social Networks to create the Social Web of Things Build a web based smart home with HTTP and WebSocket Compose physical mashups with EVERYTHING Node RED and IFTTT About the Reader For both seasoned programmers and those with only basic programming skills About the Authors Dominique Guinard and Vlad Trifa pioneered the Web of Things and cofounded EVERYTHING a large scale IoT cloud powering billions of Web Things Table of Contents PART 1 BASICS OF THE IOT AND THE WOT From the Internet of Things to the Web of Things Hello World Wide Web of Things Node js for the Web of Things Getting started with embedded systems Building networks of Things PART 2 BUILDING THE WOT Access Web APIs for Things Implementing Web Things Find Describe and discover Web Things Share Securing and sharing Web Things

Hydraulic Design Series United States. Bureau of Public Roads,1961 *Researching Child-Dog Relationships and Narratives in the Classroom* Donna Carlyle,2024-02-13 This interdisciplinary book explores posthuman and psychological approaches to childhood education and well being by examining animal assisted education using qualitative approaches to understand the nuanced mechanisms which unfold in child dog interactions Mapping the lives of children in a primary school setting and the relationships they share with their school and classroom dog Ted the book provides insight into everyday child dog encounters the importance of touch in middle childhood and how bodiment offers a corporeal and compassionate means to understand the rhythm and musicality in interspecies communication In doing so the book uses the unique orientation of rhythmanalysis a posthuman critical theory and new materialist orientation in multispecies empathic childhood flourishing in the future Reflecting contemporary interest in child dog companionship picture books children s flourishing and children s well being the book provides a nuanced multi disciplinary overview of the field Using creative methods as well as spatial sensory and movement theory this book will appeal to scholars researchers and academics in the fields of cognitive psychology child and adolescent psychiatry and primary and elementary education Those interested in the early years will also benefit from this volume JSTL in Action Shawn Bayern,2002-07-01 Introducing Web page authors and programmers to the JSP Standard Tag Library JSTL this guide covers all features of the JSTL 1 0 standard Whether users need to add dynamic content to a static Web page or are in need of providing back end code nonprogrammers are shown how to manipulate XML access relational databases format text internationalize Web applications and introduce general flow logic

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