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DGELMI - DEACON WILLIAMSON

Get started with Dart and learn to program with this language suitable for high-performing, modern applications. You'll gain the basics and be ready to move to the next level: web and mobile apps. While you won't learn the specifics of programming web and mobile apps, you will have the foundation to take your Dart skills in that direction. This book starts with an introduction to the Dart IDE, after which you will take a look at the various components of the Dart programming language. You will look at types and variables, and get to know the significance of collections and arrays in Dart. Once you've familiarized yourself with the initial components of Dart, you will see how flow of control and looping can be achieved by using if, else, and conditional expressions. Moving on to func-

tions and objects, you will dig deeper into the concepts of object oriented programming to gauge the importance of constructors in Dart. You will then discover more about inheritance and mixins, seeing how they contain methods for use by other classes. After gauging the importance of abstract classes and methods, you will learn more about anonymous functions such as lambdas and closures. You will then take a look at key data structures including lists and maps to aid you in organizing your information for storage and retrieval. After all this you'll move on to managing exceptions arising from executing your program. Finally, Dart programming relies heavily on libraries to perform a variety of functions. You will cover some of these packages and libraries, including dart:core and dart:math, and also build a backend

server with the help of the Dart core libraries. What You Will Learn Use variables and conditionals in DartWork with arrays and collections Apply flow control and loopingExplore data structures and their useHandle exceptionsUse Dart packages and libraries to build a backend server Who This Book Is For Those new to Dart programming who aim to get a quick introduction to its concepts and programming principles. Readers with no coding experience can also take advantage of this book.

Web Scraping techniques are getting more popular, since data is as valuable as oil in 21st century. Through this book get some key knowledge about using XPath, regEX; web scraping libraries for R like rvest and RSelenium technologies. Key FeaturesTechniques, tools and frameworks for web scraping with RScrape data effortlessly from a variety of websites Learn how to selectively choose the data to scrape, and build your datasetBook Description Web scraping is a technique to extract data from websites. It simulates the behavior of a website user to turn the website itself into a web service to retrieve or introduce new data. This book gives you all you need to get started with scraping web pages using R programming. You will learn about the rules of RegEx and Xpath, key components for scraping website data. We will show you web scraping techniques, methodologies, and frameworks. With this book's guidance, you will become comfortable with the tools to write and test RegEx and XPath rules. We will focus on examples of dynamic websites for scraping data and how to implement the techniques learned. You will learn how to collect URLs and then create XPath rules for your first web scraping script using rvest library. From the data you collect, you will be able to calcu-

late the statistics and create R plots to visualize them. Finally, you will discover how to use Selenium drivers with R for more sophisticated scraping. You will create AWS instances and use R to connect a PostgreSQL database hosted on AWS. By the end of the book, you will be sufficiently confident to create end-to-end web scraping systems using R. What you will learnWrite and create regEX rulesWrite XPath rules to query your dataLearn how web scraping methods workUse rvest to crawl web pagesStore data retrieved from the webLearn the key uses of Rselenium to scrape dataWho this book is for This book is for R programmers who want to get started quickly with web scraping, as well as data analysts who want to learn scraping using R. Basic knowledge of R is all you need to get started with this book.

Learn quick and effective techniques to get up and running with building blockchain including Ethereum and Hyperledger Fabric. Key FeaturesUnderstand the key concepts of decentralized applications and consensus algorithmsLearn key concepts of Ethereum and Solidity programmingPractical guide to get started with build efficient Blockchain applications with Ethereum and HyperledgerBook Description Blockchain is a technology that powers the development of decentralized applications.This technology allows the construction of a network with no single control that enables participants to make contributions to and receive benefits from the network directly. This book will give you a thorough overview of blockchain and explain how a blockchain works.You will begin by going through various blockchain consensus mechanisms and cryptographic hash functions. You will then learn the fundamentals of programming in Solidity – the defacto language for developing decen-

tralize, applications in Ethereum. After that, you will set up an Ethereum development environment and develop, package, build, and test campaign-decentralized applications. The book also shows you how to set up Hyperledger composer tools, analyze business scenarios, design business models, and write a chain code. Finally, you will get a glimpse of how blockchain is actually used in different real-world domains. By the end of this guide, you will be comfortable working with basic blockchain frameworks, and develop secure, decentralized applications in a hassle-free manner. What you will learn

Understand how blockchain hashing works
Write and test a smart contract using Solidity
Develop and test a decentralized application
Build and test your application using Hyperledger Fabric
Implement business network using Hyperledger Composer
Test and interact with business network applications

Who this book is for
The book is for developers, analysts, or anyone looking to learn about Blockchain in a quick and easy manner.

Get Projects Done Quickly & Add Value Immediately Through Agile Project Management! Agile Project Management is simply shifting the world of project management at its core and there's a reason why. With an approach to projects that is quite different from the traditional waterfall methodology, Agile Project Management focuses on added value fast while staying on track to achieve a defined business goal. Completing projects in small chunks, piece by piece, allows project stakeholders to implement deliverables much faster than waiting for all phases of the project to be completed as well as allowing for modifications to project items based on changing needs. Often overlooked as a project management style that is only for IT related projects,

Agile methodology can be utilized to complete projects across any industry including company reorganization, improving upon or redefining business processes and simply any project that does have short production and implementation times.

Resource added for the Accounting program 101011.

Get familiar with writing programs in the trending new systems programming language that brings together the powerful performance of low-level languages with the advanced features like thread safety in multi-threaded code

Key Features

Learn the semantics of Rust, which can be significantly different from other programming languages

Understand clearly how to work with the Rust compiler which strictly enforces rules that may not be obvious

Examples and insights beyond the Rust documentation

Book Description

Rust is an emerging programming language applicable to areas such as embedded programming, network programming, system programming, and web development. This book will take you from the basics of Rust to a point where your code compiles and does what you intend it to do! This book starts with an introduction to Rust and how to get set for programming, including the rustup and cargo tools for managing a Rust installation and development workflow. Then you'll learn about the fundamentals of structuring a Rust program, such as functions, mutability, data structures, implementing behavior for types, and many more. You will also learn about concepts that Rust handles differently from most other languages. After understanding the Basics of Rust programming, you will learn about the core ideas, such as variable ownership, scope, lifetime, and borrowing. After th-

ese key ideas, you will explore making decisions in Rust based on data types by learning about match and if let expressions. After that, you'll work with different data types in Rust, and learn about memory management and smart pointers. What you will learn Install Rust and write your first program with it Understand ownership in Rust Handle different data types Make decisions by pattern matching Use smart pointers Use generic types and type specialization Write code that works with many data types Tap into the standard library Who this book is for This book is for people who are new to Rust, either as their first programming language or coming to it from somewhere else. Familiarity with computer programming in any other language will be helpful in getting the best out of this book.

THE ULTIMATE GUIDE TO ACCOUNTING FOR STUDENTS, BUSINESS OWNERS, & FINANCE PROFESSIONALS! Meet Josh Bauerle, reluctant accounting student turned super CPA and author of the Accounting QuickStart Guide, 3rd Edition. This revolutionary book expertly simplifies accounting fundamentals and is an invaluable resource for accounting students, business owners, bookkeepers, and other finance and record keeping professionals everywhere! Whether you are a business owner looking to boost your bottom line or an accounting student looking to boost your grade, this book will prove indispensable on your journey. Why do accounting students, business owners, and finance professionals love this book so much? The Accounting QuickStart Guide smashes the myth that says accounting must be dry, dense, and difficult to learn. Josh Bauerle simplifies the core principles of accounting with entertaining stories and examples as well as clarifying illustrations and

practice problems—all of which combine to provide learners a path to fast and effective mastery of the material. FOR BUSINESS OWNERS: Learn how to control your cash flow, audit-proof your business, and increase your profits. The Accounting QuickStart Guide will teach you the key insights to boost your bottom line in an easy-to-read, informative format. FOR ACCOUNTING STUDENTS: Learn the fundamental principles of both financial and managerial accounting in an engaging and educating format that you simply will not find in any textbook. Understand core accounting concepts such as the fundamental accounting equation, financial statements, managerial accounting and more through practical, real-world examples. Utilize the Accounting QuickStart Guide to supplement existing material for high school, undergraduate, or graduate courses. *FREE ACCOUNTING DIGITAL RESOURCES: Each book includes tons of online resources including workbooks, cheat sheets, calculators reference guides, chapter summaries and more! Follow the instructions in the book to receive your free digital resources.*

"Whether you're a newcomer to options trading or a grizzled veteran looking for a fresh take on basic strategy, you'll enjoy the plain-spoken style and colorful scenarios illustrated in this book. In addition to providing a solid beginner's course in options trading, Options Trading QuickStart Guide walks you through a multitude of strategic trading decisions, showing you how a trader thinks and how he arrives at critical decisions. This book wasn't written for someone who wants to stay on the sidelines, but for the ambitious trader looking to become a formidable, sharp, and cunning options trader"--Page 4 of cover.

The MERN stack is a collection of great tools – MongoDB, ExpressJS, React, and Node – that provide a strong base for a developer to build easily maintainable web applications. With each of them a JavaScript or JavaScript-based technology, the shared programming language means it takes less time to develop web applications.

Explore the different data mining techniques using the libraries and packages offered by Python Key Features Grasp the basics of data loading, cleaning, analysis, and visualization Use the popular Python libraries such as NumPy, pandas, matplotlib, and scikit-learn for data mining Your one-stop guide to build efficient data mining pipelines without going into too much theory Book Description Data mining is a necessary and predictable response to the dawn of the information age. It is typically defined as the pattern and/ or trend discovery phase in the data mining pipeline, and Python is a popular tool for performing these tasks as it offers a wide variety of tools for data mining. This book will serve as a quick introduction to the concept of data mining and putting it to practical use with the help of popular Python packages and libraries. You will get a hands-on demonstration of working with different real-world datasets and extracting useful insights from them using popular Python libraries such as NumPy, pandas, scikit-learn, and matplotlib. You will then learn the different stages of data mining such as data loading, cleaning, analysis, and visualization. You will also get a full conceptual description of popular data transformation, clustering, and classification techniques. By the end of this book, you will be able to build an efficient data mining pipeline using Python without any hassle. What you will learn Explore the methods for summarizing datasets and

visualizing/plotting data Collect and format data for analytical work Assign data points into groups and visualize clustering patterns Learn how to predict continuous and categorical outputs for data Clean, filter noise from, and reduce the dimensions of data Serialize a data processing model using scikit-learn's pipeline feature Deploy the data processing model using Python's pickle module Who this book is for Python developers interested in getting started with data mining will love this book. Budding data scientists and data analysts looking to quickly get to grips with practical data mining with Python will also find this book to be useful. Knowledge of Python programming is all you need to get started.

Apply functional Reactive programming for simple and scalable state management with MobX Key Features The easiest way to learn MobX to enhance your client-side state-management Understand how the concepts and components fit together Work through different state management scenarios with MobX Book Description MobX is a simple and highly scalable state management library in JavaScript. Its abstractions can help you manage state in small to extremely large applications. However, if you are just starting out, it is essential to have a guide that can help you take the first steps. This book aims to be that guide that will equip you with the skills needed to use MobX and effectively handle the state management aspects of your application. You will first learn about observables, actions, and reactions: the core concepts of MobX. To see how MobX really shines and simplifies state management, you'll work through some real-world use cases. Building on these core concepts and use cases, you will learn about advanced MobX, its APIs, and libraries that extend MobX. By the end of

this book, you will not only have a solid conceptual understanding of MobX, but also practical experience. You will gain the confidence to tackle many of the common state management problems in your own projects. What you will learn Explore the fundamental concepts of MobX, such as observables, actions, and reactions Use observables to track state and react to its changes with validations and visual feedback (via React Components) Create a MobX observable from different data types Define form data as an observable state and tackle sync and async form validations Use the special APIs to directly manipulate observables, tracking its changes, and discovering the reasons behind a change Tackle any state management issue you may have in your app by combining mobx-utils and mobx-state-tree Explore the internals of the MobX reactive system by diving into its inner workings Who this book is for This book is for web developers who want to implement easy and scalable state management for their apps. Knowledge of HTML, CSS, and JavaScript is assumed

A brief, beautiful introduction to Design Thinking that inspires business creativity and innovative solutions The Design Thinking Quick Start Guide: A 6-Step Process for Generating and Implementing Creative Solutions shows you how you and your team can become more creative. This book presents methods you can use to innovate playfully and enjoyably. The Design Thinking Quick Start Guide is full of practical tools and activities, like the 6-3-5 method of brainstorming, to help you and your team get creative. For each of the six steps in the design thinking process, the authors offer two warm-ups that get teams ready to contribute and arrive at innovative solutions. Spur innovation with checklists for

brainstorming and implementation Learn how to generate new ideas Lead your team in a proven process for doing creative work Whether you're new to design thinking or experienced, the clearly outlined steps in this guide will inspire you to create and implement great ideas.

THE ULTIMATE BEGINNER'S GUIDE TO STARTING A BUSINESS! Have you ever dreamt of starting your own business and living life on your terms? This book shows you EXACTLY what you need to know to stand out from the crowd! Do you have an idea for an amazing product or service but you aren't sure how to build a business around it? Then you NEED this book. Buy now and start reading today! Are you a current business owner who struggles to identify your customers and deliver true world-class value? Everything you need to know is included in these pages! Do you want to build your hobby business into a fully-fledged venture that will help you build the life you deserve? Then you NEED this book. Buy now and start reading today! The most comprehensive guide ever developed for starting and growing a business! In the highly competitive world of business, what makes or breaks a new entrepreneur? Sourced from over twenty years of firsthand experience working with entrepreneurs, new ventures, and high-growth startups, author Ken Colwell, PHD, MBA has the answers. In his comprehensive Starting a Business QuickStart Guide, Ken Colwell concisely presents the core fundamentals that all new entrepreneurs need to know to get started, find success, and live the life of their dreams. Business and entrepreneurship students, small business owners, managers, and soon-to-be entrepreneurs will all find a wealth of value within the pages of the Starting a Busi-

ness QuickStart Guide. From the very first steps conceptualizing your venture to winning your first customers, delivering value, and turning a profit, this book acts as an invaluable blueprint for your path to entrepreneurial success. Colwell's clear voice, extensive experience, and easy-to-understand presentation come together to make this book a must-have resource in the library of every budding entrepreneur! Starting a Business QuickStart Guide is Perfect For: - Would-Be Entrepreneurs With a Ton of Passion! - Entrepreneurial Students of All Ages! - Beginners with Zero Prior Experience! - Managers, Business Owners, and Decisions Makers Growing into a New Role! You'll Discover: - The Difference Between an Idea and an Opportunity! - What Makes an Entrepreneurial Opportunity Great! - The Very First Steps You Need To Take To Get Your Venture Off The Ground! - Pricing, Competition, Customer Identification, Marketing, and Distribution Demystified! - The REAL Components of an Entrepreneurial Mindset! - Exactly How To Craft Your Value Proposition! - How to Write a Comprehensive Business Plan! **LIFETIME ACCESS TO FREE RESOURCES & BUSINESS SUPPORT* Each book comes with free lifetime access to tons of exclusive online resources to help you become a better business owner such as workbooks, cheat sheets and reference guides. You also receive lifetime access to our online coaching community to help you achieve all of your financial goals!.* *GIVING BACK: * ClydeBank Media proudly supports the non-profit AdoptAClassroom whose mission is to advance equity in K-12 education by supplementing dwindling school funding for vital classroom materials and resources.* *CLASSROOM ADOPTION:* Teachers and professors are encouraged to contact the publisher for test banks

and classroom presentation materials. This book gives readers the tools they need to create beautiful, functional WordPress-powered sites with minimal hassle. Using the WordPress user interface as a baseline, authors Jessica Neuman Beck and Matt Beck walk new users through the installation and setup process while providing valuable tips and tricks for more experienced users. With no other resource but this guide, readers can set up a fully-functional and well-designed WordPress site that takes advantage of all the features WordPress has to offer. THE ULTIMATE BEGINNER'S GUIDE TO TAKING CONTROL OF YOUR FINANCES INCLUDES FILLABLE SIMPLIFIED BUDGET SPREADSHEET AND OTHER ESSENTIAL DIGITAL ASSETS Are you tired of feeling stressed out and overwhelmed when you think about your finances? Have you gotten frustrated with personal finance advice from "experts" that doesn't feel like it speaks to your unique financial situation? No matter where you are in your financial journey Personal Finance QuickStart Guide covers everything you need to know to make a positive financial change in your life. At a time when 80% of US workers live paycheck to paycheck and as many as 40% of Americans can't afford a surprise \$400 expense it has never been more important to take control of your financial wellbeing. In Personal Finance QuickStart Guide author, podcaster, and financial advisor Morgen B. Rochard CFA, CFP®, RLP® pulls back the personal finance curtain to present personal finance wisdom that is so simple anyone can start putting it to use today. Morgen has distilled a career's worth of experience in the financial world into an uncommonly helpful guide to the common money problems we all face. Filled with personal stories told in her straightforward and candid style, this book is the

missing ingredient for anyone who wants to take control of their finances and live their most fulfilled life. It doesn't matter where you are on your financial journey, how much experience you have, or how much money you have in the bank—you can make the financial changes needed to build the fulfilling life you deserve with the time-tested and proven personal finance wisdom enclosed in this book. Personal Finance QuickStart Guide Is Perfect For: - Millennials who feel like they never got a handle on their finances and want to catch up - Young adults who want to build a good financial foundation for the future - Working professionals who are thinking about retirement - Anyone looking to make a financial change in their life and build wealth Personal Finance QuickStart Guide Covers: - How to think about money and craft your own positive money mindset - Repairing your credit score to increase your buying power and provide more freedom in your life - The difference between good and bad debt and how to pay down and manage debt - Financial goal setting with actionable steps to accomplish your goals - How to prepare for retirement and secure your own financially independent future Personal Finance QuickStart Guide Will Teach You: - How to build a positive money mindset, analyze your own money habits, and secure your own financial freedom for good times and bad - How to effectively manage and pay down debt, the difference between good and bad debt, and how to raise your credit score (and keep it high) - How to translate your dreams into a financial reality without restrictive budgeting or beating yourself up over daily spending - The best way to prepare for major life events like home buying, weddings, and sending kids off to college - Yes, you need to invest—how to put your money to work for you with-

out assuming a mountain of risk or learning complicated charts - How to prepare for retirement the smart way, what to do if you come into money, how to reduce your tax burden and more—your entire personal finance journey is in these pages! *LIFETIME ACCESS TO FREE PERSONAL FINANCE DIGITAL ASSETS* Easy to use Simplified Budget Spreadsheet - 1 Page Personal Finance Plan - Effective Goal Setting Workbook - Additional visual aids, infographics and more!

Step through loading GIS data, creating GIS data, styling GIS and making maps with QGIS following a simple narrative that will allow you to build confidence as you progress. Key Features Work with GIS data, a step by step guide from creation to making a map Perform geoprocessing tasks and automate them using model builder Explore a range of features in QGIS 3.4, discover the power behind open source desktop GIS Book Description QGIS is a user friendly, open source geographic information system (GIS). The popularity of open source GIS and QGIS, in particular, has been growing rapidly over the last few years. This book is designed to help beginners learn about all the tools required to use QGIS 3.4. This book will provide you with clear, step-by-step instructions to help you apply your GIS knowledge to QGIS. You begin with an overview of QGIS 3.4 and its installation. You will learn how to load existing spatial data and create vector data from scratch. You will then be creating styles and labels for maps. The final two chapters demonstrate the Processing toolbox and include a brief investigation on how to extend QGIS. Throughout this book, we will be using the GeoPackage format, and we will also discuss how QGIS can support many different types of data. Finally, you will learn where to get help and how to be-

come engaged with the GIS community. What you will learn Use existing data to interact with the canvas via zoom/pan/selection Create vector data and a GeoPackage and build a simple project around it Style data, both vector and raster data, using the Layer Styling Panel Design, label, save, and export maps using the data you have created Analyze spatial queries using the Processing toolbox Expand QGIS with the help of plugins, model builder, and the command line Who this book is for If you know the basic functions and processes of GIS, and want to learn to use QGIS to analyze geospatial data and create rich mapping applications, then this is the book for you.

Get Started Fast with Apache Hadoop® 2, YARN, and Today's Hadoop Ecosystem With Hadoop 2.x and YARN, Hadoop moves beyond MapReduce to become practical for virtually any type of data processing. Hadoop 2.x and the Data Lake concept represent a radical shift away from conventional approaches to data usage and storage. Hadoop 2.x installations offer unmatched scalability and breakthrough extensibility that supports new and existing Big Data analytics processing methods and models. Hadoop® 2 Quick-Start Guide is the first easy, accessible guide to Apache Hadoop 2.x, YARN, and the modern Hadoop ecosystem. Building on his unsurpassed experience teaching Hadoop and Big Data, author Douglas Eadline covers all the basics you need to know to install and use Hadoop 2 on personal computers or servers, and to navigate the powerful technologies that complement it. Eadline concisely introduces and explains every key Hadoop 2 concept, tool, and service, illustrating each with a simple "beginning-to-end" example and identifying trustworthy, up-to-date resources for

learning more. This guide is ideal if you want to learn about Hadoop 2 without getting mired in technical details. Douglas Eadline will bring you up to speed quickly, whether you're a user, admin, devops specialist, programmer, architect, analyst, or data scientist. Coverage Includes Understanding what Hadoop 2 and YARN do, and how they improve on Hadoop 1 with MapReduce Understanding Hadoop-based Data Lakes versus RDBMS Data Warehouses Installing Hadoop 2 and core services on Linux machines, virtualized sandboxes, or clusters Exploring the Hadoop Distributed File System (HDFS) Understanding the essentials of MapReduce and YARN application programming Simplifying programming and data movement with Apache Pig, Hive, Sqoop, Flume, Oozie, and HBase Observing application progress, controlling jobs, and managing workflows Managing Hadoop efficiently with Apache Ambari—including recipes for HDFS to NFSv3 gateway, HDFS snapshots, and YARN configuration Learning basic Hadoop 2 troubleshooting, and installing Apache Hue and Apache Spark

A practical guide for solving complex data processing challenges by applying the best optimizations techniques in Apache Spark. Key Features Learn about the core concepts and the latest developments in Apache Spark Master writing efficient big data applications with Spark's built-in modules for SQL, Streaming, Machine Learning and Graph analysis Get introduced to a variety of optimizations based on the actual experience Book Description Apache Spark is a flexible framework that allows processing of batch and real-time data. Its unified engine has made it quite popular for big data use cases. This book will help you to get started with Apache Spark 2.0 and write big data applications for a variety

of use cases. It will also introduce you to Apache Spark – one of the most popular Big Data processing frameworks. Although this book is intended to help you get started with Apache Spark, but it also focuses on explaining the core concepts. This practical guide provides a quick start to the Spark 2.0 architecture and its components. It teaches you how to set up Spark on your local machine. As we move ahead, you will be introduced to resilient distributed datasets (RDDs) and DataFrame APIs, and their corresponding transformations and actions. Then, we move on to the life cycle of a Spark application and learn about the techniques used to debug slow-running applications. You will also go through Spark's built-in modules for SQL, streaming, machine learning, and graph analysis. Finally, the book will lay out the best practices and optimization techniques that are key for writing efficient Spark applications. By the end of this book, you will have a sound fundamental understanding of the Apache Spark framework and you will be able to write and optimize Spark applications. What you will learn

Learn core concepts such as RDDs, DataFrames, transformations, and more.

Set up a Spark development environment.

Choose the right APIs for your applications.

Understand Spark's architecture and the execution flow of a Spark application.

Explore built-in modules for SQL, streaming, ML, and graph analysis.

Optimize your Spark job for better performance.

Who this book is for

If you are a big data enthusiast and love processing huge amount of data, this book is for you. If you are data engineer and looking for the best optimization techniques for your Spark applications, then you will find this book helpful. This book also helps data scientists who want to implement their machine learning algorithms

in Spark. You need to have a basic understanding of any one of the programming languages such as Scala, Python or Java.

Build and train scalable neural network models on various platforms by leveraging the power of Caffe2.

Key Features

- Migrate models trained with other deep learning frameworks on Caffe2.
- Integrate Caffe2 with Android or iOS and implement deep learning models for mobile devices.
- Leverage the distributed capabilities of Caffe2 to build models that scale easily.

Book Description

Caffe2 is a popular deep learning library used for fast and scalable training and inference of deep learning models on various platforms. This book introduces you to the Caffe2 framework and shows how you can leverage its power to build, train, and deploy efficient neural network models at scale. It will cover the topics of installing Caffe2, composing networks using its operators, training models, and deploying models to different architectures. It will also show how to import models from Caffe and from other frameworks using the ONNX interchange format. It covers the topic of deep learning accelerators such as CPU and GPU and shows how to deploy Caffe2 models for inference on accelerators using inference engines. Caffe2 is built for deployment to a diverse set of hardware, using containers on the cloud and resource constrained hardware such as Raspberry Pi, which will be demonstrated. By the end of this book, you will be able to not only compose and train popular neural network models with Caffe2, but also be able to deploy them on accelerators, to the cloud and on resource constrained platforms such as mobile and embedded hardware. What you will learn

- Build and install Caffe2.
- Compose neural networks.
- Train neural network on CPU or GPU.
- Import a neural network from Caffe.
- Import

deep learning models from other frameworks
Deploy models on CPU or GPU accelerators using inference engines
Deploy models at the edge and in the cloud
Who this book is for Data scientists and machine learning engineers who wish to create fast and scalable deep learning models in Caffe2 will find this book to be very useful. Some understanding of the basic machine learning concepts and prior exposure to programming languages like C++ and Python will be useful.

Spannende neue Ecke: Physical Computing; Der neu entwickelte Raspberry Pi bietet für wenig Geld viele Bastellmöglichkeiten; deutsche Fassung wird um weitere Bastelkapitel ergänzt!

Get started with Kotlin programming for building real world applications
Key Features
Start programming with Kotlin
Explore Kotlin language syntax, standard libraries and Java Interoperability
Builds an example application with what you learn
Book Description
Kotlin is a general purpose, object-oriented language that primarily targets the JVM and Android. Intended as a better alternative to Java, its main goals are high interoperability with Java and increased developer productivity. Kotlin is still a new language and this book will help you to learn the core Kotlin features and get you ready for developing applications with Kotlin. This book covers Kotlin features in detail and explains them with practical code examples. You will learn how to set up the environment and take your first steps with Kotlin and its syntax. We will cover the basics of the language, including functions, variables, and basic data types. With the basics covered, the next chapters show how functions are first-class citizens in Kotlin and deal with the object-oriented side of Kotlin. You will move on to more advanced features of

Kotlin. You will explore Kotlin's Standard Library and learn how to work with the Collections API. The book finishes by putting Kotlin in to practice, showing how to build a desktop app. By the end of this book, you will be confident enough to use Kotlin for your next project. What you will learn
Programming in Kotlin language syntax, basic types, control flow, classes, and OOP
Writing functions and functional programming in Kotlin
Defining and importing from packages in Kotlin
Running Kotlin on JVMs and Android runtimes
Working with the Kotlin Standard Library and advanced features of Kotlin programming
Setting up a Kotlin development environment with JetBrains tools
Building real-world applications with Kotlin
Who this book is for
This book is intended for anybody who wants to learn the most important Kotlin features. No experience of Kotlin is expected.

Port projects over from GitHub and convert SVN projects to GitLab hosted git projects
Key Features
Effective guide for GitLab migration from GitHub and SVN
Learn to implement DevOps with GitLab
11 Manage projects with issue boards and time tracking
Book Description
GitLab is an open source repository management and version control toolkit with an enterprise offering. This book is the ideal guide to GitLab as a version control system (VCS), issue management tool, and a continuous integration platform. The book starts with an introduction to GitLab, a walkthrough of its features, and explores concepts such as version control systems, continuous integration, and continuous deployment. It then takes you through the process of downloading and installing a local copy of the on-premise version of GitLab in Ubuntu and/or CentOS. You will look at some common workflows associated with GitLab workflow and learn about project ma-

agement in GitLab. You will see tools and techniques for migrating your code base from various version control systems such as GitHub and SVN to GitLab. By the end of the book, you will be using Gitlab for repository management, and be able to migrate projects from other VCSs to GitLab. What you will learn Set up CI and test builds for your projects Understand the benefits and limitations of GitLab workflow Migrate from other common VCS platforms to Gitlab Create, review, and merge code changes Learn to branch local code and create a new branch in GitLab Configure sequential stages and simultaneous stages for CI/CD Access Mattermost for on-premise GitLab Discover the issue tracking features of GitLab Who this book is for The book is intended for the developers, SREs, and DevOps professionals who are looking for techniques to port their codebase to GitLab from GitHub or are looking to work with GitLab as their version control system of choice. If you've used other VCSs before, that will help with this book.

Arduino is an open-source platform that makes DIY electronics projects easier than ever. Gone are the days when you had to learn electronics theory and arcane programming languages before you could even get an LED to blink. Now, with this new edition of the bestselling *Arduino: A Quick-Start Guide*, readers with no electronics experience can create their first gadgets quickly. This book is up-to-date for the new Arduino Zero board, with step-by-step instructions for building a universal remote, a motion-sensing game controller, and many other fun, useful projects. This Quick-Start Guide is packed with fun, useful devices to create, with step-by-step instructions and photos throughout. You'll learn how to connect your Arduino to the Inter-

net and program both client and server applications. You'll build projects such as your own motion-sensing game controller with a three-axis accelerometer, create a universal remote with an Arduino and a few cheap parts, build your own burglar alarm that emails you whenever someone's moving in your living room, build binary dice, and learn how to solder. In one of several new projects in this edition, you'll create your own video game console that you can connect to your TV set. This book is completely updated for the new Arduino Zero board and the latest advances in supporting software and tools for the Arduino. Sidebars throughout the book point you to exciting real-world projects using the Arduino, exercises extend your skills, and "What If It Doesn't Work" sections help you troubleshoot common problems. With this book, beginners can quickly join the worldwide community of hobbyists and professionals who use the Arduino to prototype and develop fun, useful inventions. What You Need: This is the full list of all parts you'd need for all projects in the book; some of these are provided as part of various kits that are available on the web, or you can purchase individually. Sources include adafruit.com, makershed.com, radioshack.com, sparkfun.com, and mouser.com. Please note we do not support or endorse any of these vendors, but we list them here as a convenience for you. Arduino Zero (or Uno or Duemilanove or Diecimila) board USB cable Half-size breadboard Pack of LEDs (at least 3, 10 or more is a good idea) Pack of 100 ohm, 10k ohm, and 1k ohm resistors Four pushbuttons Breadboard jumper wire / connector wire Parallax Ping))) sensor Passive Infrared sensor An infrared LED A 5V servo motor Analog Devices TMP36 temperature sensor ADXL335 accelerometer breakout board

6 pin 0.1" standard header (might be included with the ADXL335) Nintendo Nunchuk Controller Arduino Ethernet shield Arduino Proto shield and a tiny breadboard (optional but recommended) Piezo speaker/buzzer (optional) Tilt sensor (optional) A 25-30 Watts soldering iron with a tip (preferably 1/16") A soldering stand and a sponge A standard 60/40 solder (rosin-core) spool for electronics work

An action plan for working as a consultant Management consulting is a \$250 billion industry and growing at a rate of over four percent annually. Many predict that more than 40 percent of the U.S. workforce will soon be contingent, freelance, or consulting members of the workforce—making this book more relevant than ever. Individuals become independent consultants out of necessity or preference: necessity because they lost their job or the company offered an attractive exit package; preference because they want a career change, more control over their time, or an enriched, varied work situation. Consulting also appeals to the Millennial workforce who are searching for careers that offer a good salary as well as meaningful work. The New Consultant's Quick Start Guide:

- Serves as a companion to *The New Business of Consulting*
- Provides you with a place to plan your transition into consulting
- Helps you identify your niche, develop a business plan, charge what you're worth, and create a marketing strategy to ensure a steady stream of clients
- Prepares you for changes you will encounter beyond your professional life, including social, family, and financial aspects

The New Consultant's Quick Start Guide helps you work through the challenges of consulting such as working alone, deciding on necessary insurance coverage, finding your first clients, strug-

gling with cash flow, and understanding market trends.

An accessible fast paced introduction to all aspects of Power BI for new or aspiring BI professionals, data analysts, and data visualizers Key Features Updated with the latest features in Power BI including Dataflow, AI insights, visuals and row level security Get faster and more intuitive data insights using Microsoft Power BI and its business intelligence capabilities Build accurate analytical models, reports, and dashboards Book Description This revised edition has been fully updated to reflect the latest enhancements to Power BI. It includes a new chapter dedicated to dataflow, and covers all the essential concepts such as installation, designing effective data models, as well as building basic dashboards and visualizations to help you and your organization make better business decisions. You'll learn how to obtain data from a variety of sources and clean it using Power BI Query Editor. You'll then find out how you can design your data model to navigate and explore relationships within it and build DAX formulas to make your data easier to work with. Visualizing your data is a key element in this book, and you'll get to grips rapidly with data visualization styles and enhanced digital storytelling techniques. In addition, you will acquire the skills to build your own dataflows, understand the Common Data Model, and automate data flow refreshes to eradicate data cleansing inefficiency. This guide will help you understand how to administer your organization's Power BI environment so that deployment can be made seamless, data refreshes can run properly, and security can be fully implemented. By the end of this Power BI book, you'll have a better understanding of how to get the most out of Power BI to

perform effective business intelligence. What you will learn

- Connect to data sources using import and DirectQuery options
- Use Query Editor for data transformation and data cleansing processes, including writing M and R scripts and dataflows to do the same in the cloud
- Design optimized data models by designing relationships and DAX calculations
- Design effective reports with built-in and custom visuals
- Adopt Power BI Desktop and Service to implement row-level security
- Administer a Power BI cloud tenant for your organization
- Use built-in AI capabilities to enhance Power BI data transformation techniques
- Deploy your Power BI desktop files into the Power BI Report Server

Who this book is for

Aspiring business intelligence professionals who want to learn Power BI will find this book useful. If you have a basic understanding of BI concepts and want to learn how to apply them using Microsoft Power BI, this book is for you.

This textbook provides a starter's guide to Verilog, to be used in conjunction with a one-semester course in Digital Systems Design, or on its own for readers who only need an introduction to the language. This book is designed to match the way the material is actually taught in the classroom. Topics are presented in a manner which builds foundational knowledge before moving onto advanced topics. The author has designed the presentation with learning goals and assessment at its core. Each section addresses a specific learning outcome that the student should be able to "do" after its completion. The concept checks and exercise problems provide a rich set of assessment tools to measure student performance on each outcome. Written the way the material is taught, enabling a bottom-up approach to learning which culminates with a high-level of learning,

with a solid foundation; Emphasizes examples from which students can learn; contains a solved example for nearly every section in the book; Includes more than 200 exercise problems, as well as concept check questions for each section, tied directly to specific learning outcomes.

The easiest way to learn Lua programming

Key Features

The easiest way to learn Lua coding

- Use the Lua standard libraries and debug Lua code
- Embed Lua as a scripting language using the Lua C API

Book Description

Lua is a small, powerful and extendable scripting/programming language that can be used for learning to program, and writing games and applications, or as an embedded scripting language. There are many popular commercial projects that allow you to modify or extend them through Lua scripting, and this book will get you ready for that. This book is the easiest way to learn Lua. It introduces you to the basics of Lua and helps you to understand the problems it solves. You will work with the basic language features, the libraries Lua provides, and powerful topics such as object-oriented programming. Every aspect of programming in Lua, variables, data types, functions, tables, arrays and objects, is covered in sufficient detail for you to get started. You will also find out about Lua's module system and how to interface with the operating system. After reading this book, you will be ready to use Lua as a programming language to write code that can interface with the operating system, automate tasks, make playable games, and much more. This book is a solid starting point for those who want to learn Lua in order to move onto other technologies such as Love2D or Roblox. A quick start guide is a focused, shorter title that provides a faster paced introduction to a

technology. It is designed for people who don't need all the details at this point in their learning curve. This presentation has been streamlined to concentrate on the things you really need to know. What you will learn Understand the basics of programming the Lua language Understand how to use tables, the data structure that makes Lua so powerful Understand object-oriented programming in Lua using metatables Understand standard LUA libraries for math, file io, and more Manipulate string data using Lua Understand how to debug Lua applications quickly and efficiently Understand how to embed Lua into applications with the Lua C API Who this book is for This book is for developers who want to get up and running with Lua. This book is ideal for programmers who want to learn to embed Lua in their own applications, as well as for beginner programmers who have never coded before.

Leverage Jira's powerful task management and workflow features to better manage your business processes Key Features The book covers all major applications of Jira, which are Jira Software, Jira Core, Jira Service Desk. Configure project workflows and the fields that will be used in the project with the help of Jira's features Create tickets for issues and manage your projects using the Jira software Book Description Jira is an issue tracker and project management system. With their latest release, the Jira team has now expanded their user base to agile teams as well as business teams. This book provides a comprehensive explanation covering all major components of Jira, including Jira Software, Jira Core, and Jira Service Desk. This book starts with an introduction to Jira's unique features and how it can be used as an issue-tracking tool. It will then teach you about how a new project is created by a Jira adminis-

trator, what responsibilities there are, and using correct and relevant schemes in your project. You will then learn how to configure project workflows and fields for project screens. You will understand the various permissions used in projects and the importance of project roles in Jira. Then, the book talks about the concepts of versions acting as milestones and using components when handling issues in your projects. It will then focus on analysing data using built-in reports and creating dashboards in Jira. At the end, it will discuss various best practices for users as well as project managers or project administrators. What you will learn Implement Jira as a project administrator or project manager Get familiar with various functionalities of Jira Configure projects and boards in your organisation's Jira instance Understand how and when to use components and versions in your projects Manage project configurations and Jira schemes Learn the best practices to manage your Jira instance Who this book is for This book will be especially useful for project managers but it's also intended for other Jira users, including developers, and any other industry besides software development, who would like to use Jira for project management.

THE ULTIMATE BEGINNER'S GUIDE TO REAL ESTATE INVESTING IN THE POST-PANDEMIC ECONOMY INCLUDES 8 HOURS OF FREE ONLINE REAL ESTATE COURSES FROM THE AUTHOR + MULTIPLE FREE REAL ESTATE INVESTING TOOLS Do you want to know to create passive income, build real long-term wealth, and achieve financial freedom all through real estate investing? Have you attended real estate 'seminars' with so-called 'gurus' only to leave with a hole in your pocket and still unsure of how to get started in real es-

tate investing? If so, look no further than Real Estate Investing QuickStart Guide, the most comprehensive, practical, beginner friendly Real Estate Investing book ever written. Real estate investing, often considered the number one creator of lasting wealth in today's economy can be started with significantly less money, less time, and less expertise than most people imagine. In Real Estate Investing QuickStart Guide, author, best-selling course instructor, licensed real estate broker, and consultant Symon He lays out the simplest, most practical and most straightforward path for new investors eager to ink their first deals and start their journey to building a real estate empire. With over 300,000 students in nearly 180 countries, Symon knows exactly what new investors need to get right, what they should avoid, and how they can protect themselves from risk while breaking into the real estate market on their own terms. Symon's clear and casual writing style make the sometimes complicated world of real estate investing infinitely more approachable and understandable. No matter how much money you think you need, how much time you think it takes, or if you think all the "good deals" have already been snapped up, Real Estate Investing QuickStart Guide will show you that anyone can get started once they are armed with the knowledge contained in this book. Real Estate Investing QuickStart Guide Is Perfect For: - Complete newcomers to the world of real estate investing or anyone looking to create real, lasting wealth through real estate investing - Existing real estate investors who are looking to expand their portfolios and learn new way to create wealth through real estate - Anyone who has struggled to find success in the past with complicated books or expensive real estate programs

and seminars Real Estate Investing QuickStart Guide Covers: - How to generate sustainable passive income through rental property investing - How to produce lasting profits through commercial real estate investing - How to complete profile real estate wholesale deals with little to no money - How to successfully 'flip' properties for quick & predictable profits - How to grow your income producing portfolio quickly with multifamily properties - How to create 100% hands-off income streams from indirect real estate investments like REITs Real Estate Investing QuickStart Guide Will Teach You: - The Secrets of Profitable Deal Making—Where to Find Deals, How to Structure Your Deals, and How to Avoid Losses - The Inner Workings of the Residential, Commercial, and Raw Land Real Estate Markets, Along with Which One Is Right for You - How to Use Leverage, Smart Financing Options, and Low Capital to Fund Your Growing Investments (No Math Skills Required) *LIFE-TIME ACCESS TO FREE REAL ESTATE INVESTING DIGITAL ASSETS* - Valuation, terminal value, and rental comparison worksheets - Advanced Rental Income Analyzer, Wholesaling Deal Analyzer, Symon's Exclusive Fix & FlipProperty Analyzer, and more! *GIVING BACK* ClydeBank Media proudly supports the non-profit AdoptAClassroom

A fast paced guide that will help you to create, read, update and delete data using MongoDB Key FeaturesCreate secure databases with MongoDBManipulate and maintain your databaseModel and use data in a No SQL environment with MongoDBBook Description MongoDB has grown to become the de facto NoSQL database with millions of users, from small start-ups to Fortune 500 companies. It can solve problems that are considered difficult, if not impossible, for ag-

ing RDBMS technologies. Written for version 4 of MongoDB, this book is the easiest way to get started with MongoDB. You will start by getting a MongoDB installation up and running in a safe and secure manner. You will learn how to perform mission-critical create, read, update, and delete operations, and set up database security. You will also learn about advanced features of MongoDB such as the aggregation pipeline, replication, and sharding. You will learn how to build a simple web application that uses MongoDB to respond to AJAX queries, and see how to make use of the MongoDB programming language driver for PHP. The examples incorporate new features available in MongoDB version 4 where appropriate. What you will learn

Get a standard MongoDB database up and running quickly
Perform simple CRUD operations on the database using the MongoDB command shell
Set up a simple aggregation pipeline to return subsets of data grouped, sorted, and filtered
Safeguard your data via replication and handle massive amounts of data via sharding
Publish data from a web form to the database using a program language driver
Explore the basic CRUD operations performed using the PHP MongoDB driver
Who this book is for
Web developers, IT professionals and Database Administrators (DBAs) who want to learn how to create and manage MongoDB databases.

The Ultimate Beginner's Guide to Day Trading The ONLY Day Trading Book Complete With a Library of FREE Digital Trading Tools + \$1,000 Trading Commission Rebate to One of the Largest Trading Brokers Online! Trade for FREE with your \$1,000 commission rebate as you learn how to become a successful day trader using the techniques and strategies inside Day Trading QuickStart

Guide. Don't be fooled by fake 'gurus' and fly-by-night 'books' written by anonymous authors. Author Troy Noonan has already made hundreds of successful day traders using the exact information in this book. Are you ready to be the next success story? If you are SERIOUS about achieving financial freedom through day trading than look no further than Day Trading QuickStart Guide! Day Trading QuickStart Guide smashes the myth that successful day traders are math experts, careless risk junkies, or compulsive gamblers. Using the tactics and enclosed in these chapters, you'll learn the exact skills needed to find real success while keeping your risk to an absolute bare minimum. Author Troy Noonan is a professional full-time trader and day trading coach with over 25 years of experience. The original 'Backpack Trader', Noonan has helped thousands of students in over 100 countries become successful traders using the exact methods and strategies shared in this book. His story, and the success stories of his students, is living proof that anyone can take advantage of the freedom (financial and otherwise) that day trading offers. Low-cost trading platforms, the ability to trade from anywhere at any time, and the comprehensive education you'll receive Day Trading QuickStart Guide means that there has NEVER been a better time to learn how to day trade. Use the knowledge gained from reading this book to hobby day trade, supplement your current income, or day trade as a business; getting started takes less capital than you might think! Day Trading QuickStart Guide Is Perfect For: - Complete beginners - even if you've never bought a single stock before! - People who tried day trading in the past but didn't find success because of phony gurus and courses - Existing traders who want

to hone their skills & increase their earning potential - Anyone who wants the freedom of making full-time income with part-time effort! Day Trading QuickStart Guide Explains: - The Inner Workings of the Derivatives Market - Futures Trading Contracts, How They Work and How to Maximize their Efficiency - How to Day Trade Options and Use Options Contracts to Hedge Against Risk - The Mechanics of Forex Trading and How to Use Foreign Currency Markets to Your Benefit You Will Learn: - Day Trading Fundamentals, from the Anatomy of a Trade to Powerful Trade Plans For Serious Returns - Technical Analysis, the Backbone of Finding and Executing Winning Trades - Trading Psychology, a Key Aspect That Allows Traders to Rise to the Top - The Surprisingly Simple Way to Interpret Market Charts and Act Based on Your Findings Before Anyone Else - Technical Indicators, Patterns, Trade Plans, and Mistakes New Traders Must Avoid *LIFETIME ACCESS TO FREE DAY TRADING DIGITAL ASSETS* Day Trading QuickStart Guide comes with lifetime access to a library of exclusive tools and videos designed to help you get started quickly and become a better trader faster. *GIVING BACK* ClydeBank Media proudly supports nonprofit AdoptAClassroom, whose mission is to advance equity in K-12 education by supplementing school funding of vital classroom material

The award-winning New York Times best-selling author of the New Fat Flush series is back with a foolproof way to melt fat faster than ever Go beyond Keto and Paleo with Radical Metabolism, which reveals the secrets to reviving a sluggish over-40 metabolism--secrets that work even faster if you're in your 20s and 30s, or you suffer from thyroid issues. No matter your age, if you're a "slow loser" who wants to speed off stubborn pounds and

keep those pounds off for good, then this book is for you. Inside Radical Metabolism you'll discover which "forbidden fats," forgotten flavors, and fat-busting beverages you must eat and drink in order to supercharge your metabolism---making weight loss easier than ever before. But weight loss is just the beginning. With this easy-to-follow program you'll also enjoy greater energy, balanced mood, healthier skin, and protection against autoimmunity, gallbladder issues, type II diabetes, and other devastating health problems. A breeze to use, the Radical Metabolism program consists of: a 4-day Radical Intensive Cleanse designed to rest your digestive tract and detoxify your body a 21-Day Radical Reboot where you'll learn exactly what combinations of foods to eat for results you can feel and see a Maintenance Plan for a radically healthy life With menu plans, 50 sumptuous recipes, an extensive resource section, Radical Metabolism has everything you need to supercharge your metabolism and transform your body into a fat-burning dynamo in just 21 days.

Learn the pytest way to write simple tests which can also be used to write complex tests Key Features Become proficient with pytest from day one by solving real-world testing problems Use pytest to write tests more efficiently Scale from simple to complex and functional testing Book Description Python's standard unittest module is based on the xUnit family of frameworks, which has its origins in Smalltalk and Java, and tends to be verbose to use and not easily extensible. The pytest framework on the other hand is very simple to get started, but powerful enough to cover complex testing integration scenarios, being considered by many the true Pythonic ap-

proach to testing in Python. In this book, you will learn how to get started right away and get the most out of pytest in your daily workflow, exploring powerful mechanisms and plugins to facilitate many common testing tasks. You will also see how to use pytest in existing unittest-based test suites and will learn some tricks to make the jump to a pytest-style test suite quickly and easily. What you will learn Write and run simple and complex tests Organize tests in files and directories Find out how to be more productive on the command line Markers and how to skip, xfail and parametrize tests Explore fixtures and techniques to use them effectively, such as tmpdir, pytestconfig, and monkeypatch Convert unittest suites to pytest using little-known techniques Use third-party plugins Who this book is for This book is for Python programmers that want to learn more about testing. This book is also for QA testers, and those who already benefit from programming with tests daily but want to improve their existing testing tools.

Learn how to write shell script effectively with Bash, to quickly and easily write powerful scripts to manage processes, automate tasks, and to redirect and filter program input and output in useful and novel ways. Key Features Demystify the Bash command line Write shell scripts safely and effectively Speed up and automate your daily work Book Description Bash and shell script programming is central to using Linux, but it has many peculiar properties that are hard to understand and unfamiliar to many programmers, with a lot of misleading and even risky information online. Bash Quick Start Guide tackles these problems head on, and shows you the best practices of shell script programming. This book teaches effective shell script program-

ming with Bash, and is ideal for people who may have used its command line but never really learned it in depth. This book will show you how even simple programming constructs in the shell can speed up and automate any kind of daily command-line work. For people who need to use the command line regularly in their daily work, this book provides practical advice for using the command-line shell beyond merely typing or copy-pasting commands into the shell. Readers will learn techniques suitable for automating processes and controlling processes, on both servers and workstations, whether for single command lines or long and complex scripts. The book even includes information on configuring your own shell environment to suit your workflow, and provides a running start for interpreting Bash scripts written by others. What you will learn Understand where the Bash shell fits in the system administration and programming world- Use the interactive Bash command line effectively Get to grips with the structure of a Bash command line Master pattern-matching and transforming text with Bash Filter and redirect program input and output Write shell scripts safely and effectively Who this book is for People who use the command line on Unix and Linux servers already, but don't write primarily in Bash. This book is ideal for people who've been using a scripting language such as Python, JavaScript or PHP, and would like to understand and use Bash more effectively.

Perform efficient fast text representation and classification with Facebook's fastText library Key Features Introduction to Facebook's fastText library for NLP Perform efficient word representations, sentence classification, vector representation Build better, more scalable solutions for text representation and classification

Book Description Facebook's fastText library handles text representation and classification, used for Natural Language Processing (NLP). Most organizations have to deal with enormous amounts of text data on a daily basis, and gaining efficient data insights requires powerful NLP tools such as fastText. This book is your ideal introduction to fastText. You will learn how to create fastText models from the command line, without the need for complicated code. You will explore the algorithms that fastText is built on and how to use them for word representation and text classification. Next, you will use fastText in conjunction with other popular libraries and frameworks such as Keras, TensorFlow, and PyTorch. Finally, you will deploy fastText models to mobile devices. By the end of this book, you will have all the required knowledge to use fastText in your own applications at work or in projects. What you will learn Create models using the default command line options in fastText Understand the algorithms used in fastText to create word vectors Combine command line text transformation capabilities and the fastText library to implement a training, validation, and prediction pipeline Explore word representation and sentence classification using fastText Use Gensim and spaCy to load the vectors, transform, lemmatize, and perform other NLP tasks efficiently Develop a fastText NLP classifier using popular frameworks, such as Keras, Tensorflow, and PyTorch Who this book is for This book is for data analysts, data scientists, and machine learning developers who want to perform efficient word representation and sentence classification using Facebook's fastText library. Basic knowledge of Python programming is required. Integrate open source data analytics and build business intelligence on SQL

databases with Apache Superset. The quick, intuitive nature for data visualization in a web application makes it easy for creating interactive dashboards. Key Features Work with Apache Superset's rich set of data visualizations Create interactive dashboards and data storytelling Easily explore data Book Description Apache Superset is a modern, open source, enterprise-ready business intelligence (BI) web application. With the help of this book, you will see how Superset integrates with popular databases like Postgres, Google BigQuery, Snowflake, and MySQL. You will learn to create real time data visualizations and dashboards on modern web browsers for your organization using Superset. First, we look at the fundamentals of Superset, and then get it up and running. You'll go through the requisite installation, configuration, and deployment. Then, we will discuss different columnar data types, analytics, and the visualizations available. You'll also see the security tools available to the administrator to keep your data safe. You will learn how to visualize relationships as graphs instead of coordinates on plain orthogonal axes. This will help you when you upload your own entity relationship dataset and analyze the dataset in new, different ways. You will also see how to analyze geographical regions by working with location data. Finally, we cover a set of tutorials on dashboard designs frequently used by analysts, business intelligence professionals, and developers. What you will learn Get to grips with the fundamentals of data exploration using Superset Set up a working instance of Superset on cloud services like Google Compute Engine Integrate Superset with SQL databases Build dashboards with Superset Calculate statistics in Superset for numerical, categorical, or text data Understand visualization techniques, filter-

ing, and grouping by aggregation Manage user roles and permissions in Superset Work with SQL Lab Who this book is for This book is for data analysts, BI professionals, and developers who want to learn Apache Superset. If you want to create interactive dashboards from SQL databases, this book is what you need. Working knowledge of Python will be an advantage but not necessary to understand this book.

Develop and build your Docker images and deploy your Docker containers securely. Key Features Learn Docker installation on different types of OS Get started with developing Docker images Use Docker with your Jenkins CI/CD system Book Description Docker is an open source software platform that helps you with creating, deploying, and running your applications using containers. This book is your ideal introduction to Docker and containerization. You will learn how to set up a Docker development environment on a Linux, Mac, or Windows workstation, and learn your way around all the commands to run and manage your Docker images and containers. You will explore the Dockerfile and learn how to build your own enterprise-grade Docker images. Then you will learn about Docker networks, Docker swarm, and Docker volumes, and how to use these features with Docker stacks in order to define, deploy, and maintain highly-scalable, fault-tolerant multi-container applications. Finally, you will learn how to leverage Docker with Jenkins to automate the building of Docker images and the deployment of Docker containers. By the end of this book, you will be well prepared when it comes to using Docker for your next project. What you will learn Set up your Docker workstation on various platforms Utilize a number of Docker com-

mands with parameters Create Docker images using Dockerfiles Learn how to create and use Docker volumes Deploy multi-node Docker swarm infrastructure Create and use Docker local and remote networks Deploy multi-container applications that are HA and FT Use Jenkins to build and deploy Docker images Who this book is for This guide is for anyone who needs to make a quick decision about using Docker for their next project. It is for developers who want to get started using Docker right away.

Bring your data to life with Power BI Key Features Get to grips with the fundamentals of Microsoft Power BI and its Business Intelligence capabilities Build accurate analytical models, reports and dashboards Get faster and more intuitive insights from your data using Microsoft Power BI Book Description Microsoft Power BI is a cloud-based service that helps you easily visualize and share insights using your organization's data. This book will get you started with business intelligence using the Power BI toolset, covering essential concepts such as installation, designing effective data models, as well as building basic dashboards and visualizations to make your data come to life You will learn how to get your data the way you want - connecting to data sources sources and how to clean your data with the Power BI Query Editor. You will next learn how to properly design your data model to make your data easier to work with.. You will next learn how to properly design your data model to navigate table relationships and build DAX formulas to make your data easier to work with. Visualizing your data is another key element of this book, and you will learn how to follow proper data visualization styles and enhanced digital storytelling techniques. By the end of this book, you will understand how to ad-

minister your organization's Power BI environment so deployment can be made seamless, data refreshes can run properly, and security can be fully implemented. What you will learn: Connect to data sources using both import and DirectQuery options. Use the Query Editor to apply data transformations and data cleansing processes, including learning how to write M and R scripts. Design optimized data models by designing relationships and DAX calculations. Leverage built-in and custom visuals to design effective reports. Use the Power BI Desktop and Power BI Service to implement Row Level Security on your model. Administer a Power BI cloud tenant for your organization. Deploy your Power BI Desktop files into the Power BI Report Server. Who this book is for: This book is for aspiring Business Intelligence professionals who want to get up and running with Microsoft Power BI. If you have a basic understanding of BI concepts and want to learn how to apply them using Microsoft Power BI, this book is for you.

THE ULTIMATE BEGINNER'S GUIDE TO INVESTING! The ONLY investing book that is written by a CFP® practitioner with 30+ years of investment experience helping others to invest wisely to achieve all of their financial goals in life. ->Do you want to learn how to create real wealth in the stock market? Then you NEED this book. Buy now and start reading today! ->Do you want to learn how to create passive income and retire early? Then you NEED this book. Buy now and start reading today! ->Do you want to learn how to day trade stocks and avoid costly mistakes that beginners make? Then you NEED this book. Buy now and start reading today! ->Do you want to learn how to create financial freedom and live the life you deserve?? Then you NEED this book. Buy now and start

reading today! Best-selling author Ted D. Snow, CFP®, MBA has a knack for making complex ideas clear while endowing his readers with a wealth of powerful new knowledge. Whether you are a newcomer to investing or a veteran looking for a fresh perspective, you will enjoy the unique and practical vision for investing success offered in the Investing QuickStart Guide. Bringing the wisdom of 30+ years in the finance industry to bear--much to the benefit of novice learners and experienced investors alike. Snow's intrepid but practical asset-allocation investment philosophy is masterfully communicated and highly appropriate for market newcomers. The key insights of Warren Buffet, Peter Lynch, Burton Malkiel, and James Altucher all play important roles in this seminal investment resource. But unlike most of today's books on investing, the Investing QuickStart Guide is as simple as it is comprehensive. Investing QuickStart Guide is Perfect For: Companion to The Intelligent Investor! Stock Market Education for Teen & Kids! Beginners with Zero Prior Experience! Experienced Investors who Want to Go to the Next Level! Discover the Secrets of Successfully Investing In: Stocks! (Including Dividend Paying Stocks!) Mutual Funds! ETFs! Bonds! Index Funds! REITS! Commodities! Investing QuickStart Guide Covers: Everything You Need to Know Before You Make Your First Trade! How To Take Advantage Of Opportunities In The Market Without Relying On Guesswork! How to Evaluate and Compare Stocks and Other Securities! How Disciplined Approaches to Investing Can Lead to Early Retirement and Financial Freedom! How National And Global Economic And Geopolitical Factors Can Influence Investment Prospects! This book has been reviewed by The Financial Industry Regulatory Au-

thority (FINRA). *LIFETIME ACCESS TO FREE INVESTING DIGITAL ASSETS*: Investing QuickStart Guide comes with free lifetime access to a library of exclusive tools and videos designed to help you get started quickly and become a

better trader faster, including: - Stock Selection Tool - Portfolio Tracker Workbook - Goal Setting Workbook And Many More! *GIVING BACK*: ClydeBank Media proudly supports One Tree Planted as a reforestation partner.