

A Hands-On Guide for Programmers and Data Scientists



Data Analysis

with Open Source Tools

O'REILLY™

Philipp K. Janert

Data Analysis With Open Source Tools Philipp K Janert

Mark Steyvers



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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 [D3 for the Impatient](#) Philipp K. Janert, 2019-05-02 If you re in a hurry to learn D3 js the leading JavaScript library for web based graphics and visualization this book is for you Written for technically savvy readers with a background in programming or data science the book moves quickly emphasizing unifying concepts and patterns Anticipating common difficulties author Philipp K Janert teaches you how to apply D3 to your own problems Assuming only a general programming background but no previous experience with contemporary web development this book explains supporting technologies such as SVG HTML5 CSS and the DOM as needed making it a convenient one stop resource for a technical audience Understand D3 selections the library s fundamental organizing principle Learn how to create data driven documents with data binding Create animated graphs and interactive user interfaces Draw figures with curves shapes and colors Use the built in facilities for heatmaps tree graphs and networks Simplify your work by writing your own reusable components **Gnuplot in Action** Philipp K. Janert, 2016-03-08 Summary Gnuplot in Action Second Edition is a major revision of this popular and authoritative guide for developers engineers and scientists who want to learn and use gnuplot effectively Fully updated for gnuplot version 5 the book includes four pages of color illustrations and four bonus appendixes available in the eBook Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Gnuplot is an open source graphics program that helps you analyze interpret and present numerical data Available for Unix Mac and Windows it is well maintained mature and totally free About the Book Gnuplot in Action Second Edition is a major revision of this authoritative

guide for developers engineers and scientists The book starts with a tutorial introduction followed by a systematic overview of gnuplot s core features and full coverage of gnuplot s advanced capabilities Experienced readers will appreciate the discussion of gnuplot 5 s features including new plot types improved text and color handling and support for interactive web based display formats The book concludes with chapters on graphical effects and general techniques for understanding data with graphs It includes four pages of color illustrations 3D graphics false color plots heatmaps and multivariate visualizations are covered in chapter length appendixes available in the eBook What s Inside Creating different types of graphs in detail Animations scripting batch operations Extensive discussion of terminals Updated to cover gnuplot version 5 About the Reader No prior experience with gnuplot is required This book concentrates on practical applications of gnuplot relevant to users of all levels About the Author Philipp K Janert PhD is a programmer and scientist He is the author of several books on data analysis and applied math and has been a gnuplot power user and developer for over 20 years Table of Contents PART 1 GETTING STARTED Prelude understanding data with gnuplot Tutorial essential gnuplot The heart of the matter the plot command PART 2 CREATING GRAPHS Managing data sets and files Practical matters strings loops and history A catalog of styles Decorations labels arrows and explanations All about axes PART 3 MASTERING TECHNICALITIES Color style and appearance Terminals and output formats Automation scripting and animation Beyond the defaults workflow and styles PART 4 UNDERSTANDING DATA Basic techniques of graphical analysis Topics in graphical analysis Coda understanding data with graphs

Feedback Control for Computer Systems Philipp K. Janert, 2013-09-19 How can you take advantage of feedback control for enterprise programming With this book author Philipp K Janert demonstrates how the same principles that govern cruise control in your car also apply to data center management and other enterprise systems Through case studies and hands on simulations you ll learn methods to solve several control issues including mechanisms to spin up more servers automatically when web traffic spikes Feedback is ideal for controlling large complex systems but its use in software engineering raises unique issues This book provides basic theory and lots of practical advice for programmers with no previous background in feedback control Learn feedback concepts and controller design Get practical techniques for implementing and tuning controllers Use feedback design patterns for common control scenarios Maintain a cache s hit rate by automatically adjusting its size Respond to web traffic by scaling server instances automatically Explore ways to use feedback principles with queueing systems Learn how to control memory consumption in a game engine Take a deep dive into feedback control theory

Interactive Data Visualization for the Web Scott Murray, 2013-03-15 Create and publish your own interactive data visualization projects on the Web even if you have no experience with either web development or data visualization It s easy with this hands on guide You ll start with an overview of data visualization concepts and simple web technologies and then learn how to use D3 a JavaScript library that lets you express data as visual elements in a web page Interactive Data Visualization for the Web makes these skills available at an introductory level for designers and visual

artists without programming experience journalists interested in the emerging data journalism processes and others keenly interested in visualization and publicly available data sources Get a practical introduction to data visualization accessible for beginners Focus on web based tools that help you publish your creations quickly to a wide audience Learn about interactivity so you can engage users in exploring your data [Handbook of Artificial Intelligence and Wearables](#) Hemachandran

K,Manjeet Rege,Zita Zoltay Paprika,K. V. Rajesh Kumar,Shahid Mohammad Ganie,2024-04-04 The ever changing world of wearable technologies makes it difficult for experts and practitioners to keep up with the most recent developments This handbook provides a solid understanding of the significant role that AI plays in the design and development of wearable technologies along with applications and case studies Handbook of Artificial Intelligence and Wearables Applications and Case Studies presents a deep understanding of AI and its involvement in wearable technologies The book discusses the key role that AI plays and goes on to discuss the challenges and possible solutions It highlights the more recent advances along with real world approaches for the design and development of the most popular AI enabled wearable devices such as smart fitness trackers AI enabled glasses sports wearables disease diagnostic devices and more complete with case studies This book will be a valuable source for researchers academics technologists industrialists practitioners and all people who wish to explore the applications of AI and the part it plays in wearable technologies **Digital Twin Technology and**

Applications A. Daniel,Srinivasan Sriramulu,N. Partheeban,SANTHOSH JAYAGOPALAN,2024-09-18 The Fourth Industrial Revolution is being accelerated by the digital twin technological revolution which converges intelligent technologies and defines the connectivity between physical and digital items The Internet of Things IoT connects the real and digital worlds allowing connected items to deliver a vast array of services to internet users IoT devices create large amounts of data that may be fed into AI systems for decision making In a decentralized architecture digital twin technology may be utilized to protect platforms and create smart contracts Digital twins decentralized ledger immutability self sovereign identification and consensus procedures hold a lot of promise for improving AI algorithms Furthermore leveraging smart contracts in a digital twin system to facilitate user interaction via IoT might have a big influence and this integrated platform is expected to revolutionize many fields Digital Twin Technology and Applications examines the problems issues and solutions for using big data to enable streaming services using IoT and AI with digital twin technology The IoT network concept is the key to success and to establish a solid IoT platform on which large data transmission may take place it must handle protocol standards and architecture The book provides insight into the principles and techniques of IoT and AI It explores the idea of using blockchain to provide security in a variety of sectors The book also covers the application of integrated technologies to strengthen data models improve insights and discoveries innovate audit systems as well as digital twin technology application to intelligent forecasting smart finance smart retail global verification and transparent governance *Graphing*

Data with R John Jay Hilfiger,2015-10-19 It s much easier to grasp complex data relationships with a graph than by scanning

numbers in a spreadsheet This introductory guide shows you how to use the R language to create a variety of useful graphs for visualizing and analyzing complex data for science business media and many other fields You ll learn methods for highlighting important relationships and trends reducing data to simpler forms and emphasizing key numbers at a glance Anyone who wants to analyze data will find something useful here even if you don t have a background in mathematics statistics or computer programming If you want to examine data related to your work this book is the ideal way to start Get started with R by learning basic commands Build single variable graphs such as dot and pie charts box plots and histograms Explore the relationship between two quantitative variables with scatter plots high density plots and other techniques Use scatterplot matrices 3D plots clustering heat maps and other graphs to visualize relationships among three or more variables

Missiological Research Marvin Gilbert, Alan R. Johnson, Paul W. Lewis, 2018-01-15 Interdisciplinary Foundations Methods and Integration This comprehensive volume is one you will pull off your shelf again and again as you delve into missiological study The editors could not have made a more thorough or straight forward volume that will serve researchers across disciplines Each chapter succinctly defines the method summarizes its process suggests resources for more advanced interaction and provides an exemplar journal article with abstract Features to look forward to include 13 significant issues in missiological research 8 theological frameworks defined 10 quantitative methods defined with examples 12 quantitative methods defined with examples 25 appendices of invaluable tools from quotable citable information to open access journals interview techniques and so much more Enjoy the benefits of 14 veteran practitioner scholars who provide clear and concise guidance to empirical research methodology biblical theological inquiry and the integration of the two interdisciplinary approaches

Digital Asset Ecosystems Tobias Blanke, 2014-07-07 Digital asset management is undergoing a fundamental transformation Near universal availability of high quality web based assets makes it important to pay attention to the new world of digital ecosystems and what it means for managing using and publishing digital assets The Ecosystem of Digital Assets reflects on these developments and what the emerging web of things could mean for digital assets The book is structured into three parts each covering an important aspect of digital assets Part one introduces the emerging ecosystems of digital assets Part two examines digital asset management in a networked environment The third part covers media ecosystems Looks to the future of digital asset management focussing on the next generation web Includes up to date developments in the field crowd sourcing and cloud services Details case studies to demonstrate how generic requirements are met in particular cases

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