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Design, implement, and publish custom Splunk applications by following best practices About This Book This is the most up-to-date guide on the market and will help you finish your tasks faster, easier, and more efficiently. Highly practical guide that addresses common and not-so-common pain points in Splunk. Want to explore shortcuts to perform tasks more efficiently with Splunk? This is the book for you! Who This Book Is For This book is for administrators, developers, and search ninjas who have been using Splunk for some time. A comprehensive coverage makes this book great for Splunk veterans and newbies alike. What You Will Learn Use Splunk effectively to gather, analyze, and report on operational data throughout your environment Expedite your reporting, and be empowered to present data in a meaningful way Create robust searches, reports, and charts using Splunk Modularize your programs for better reusability. Build your own Splunk apps and learn why they are important Learn how to integrate with enterprise systems Summarize data for longer term trending, reporting, and analysis In Detail This book will give you an edge over others through insights that will help you in day-to-day instances. When you're working with data from various sources in Splunk and performing analysis on this data, it can be a bit tricky. With this book, you will learn the best practices of working with Splunk. You'll learn about tools and techniques that will ease your life with Splunk, and will ultimately save you time. In some cases, it will adjust your thinking of what Splunk is, and what it can and

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cannot do. To start with, you'll get to know the best practices to get data into Splunk, analyze data, and package apps for distribution. Next, you'll discover the best practices in logging, operations, knowledge management, searching, and reporting. To finish off, we will teach you how to troubleshoot Splunk searches, as well as deployment, testing, and development with Splunk. Style and approach If you're stuck or want to find a better way to work with Splunk environment, this book will come handy. This easy-to-follow, insightful book contains step-by-step instructions and examples and scenarios that you will connect to.

Deliver enterprise data analytics success by following Prashanth's prescriptive and practical techniques. Today, organizations across the globe are looking at ways to glean insights from data analytics and make good business decisions. However, not many business enterprises are successful in data analytics. According to Gartner, 80% of analytics programs do not deliver business outcomes. Mckinsey consulting says, less than 20% of the companies have achieved analytics at scale. So, how can a business enterprise avoid analytics failure and deliver business results? This book provides ten key analytics best practices that will improve the odds of delivering enterprise data analytics solutions successfully. It is intended for anyone who has a stake and interest in deriving insights from data analytics. The three key differentiating aspects of this book are:

- Practicality. This book offers prescriptive, superior, and practical guidance.
- Completeness. This book looks at data analytics holistically across the four key data analytics domains - data management, data engineering, data science, and data visualization.
- Neutrality. This book is technologically agnostic and looks at analytics concepts without any reference to commercial analytics products and technologies.

Dr. SoutheKal proves why he is one of the

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leading thinkers on data and analytics today. 'Analytics Best Practices' is an indispensable guide for business leaders and those looking to get into the analytics field on the nuances, challenges, and immense opportunities with data. Douglas B. Laney Principal, Data & Analytics Strategy, Caserta, and author of "Infonomics" Dr. Southekal's book is a treasure trove of best practices and practical examples from the field of Data Analytics. Upen Varanasi CEO & Co-Founder, Riversand Technologies What I like about this book is its focus on real-world best practices with an extensive set of practical tips and tricks. It provides an important bridge between the data management and business operations sides of a business. Michael Wade Professor of Innovation & Strategy, IMD Business School Prashanth's book is accessible and practical – an excellent guide for corporate leaders who want to produce meaningful business results from the use of data and analytics to create true business value. Irina Pelphrey Senior Director, Walmart Corporation This book is a must on the desks of business executives and decision makers at all levels in an organization who want to truly understand what it takes to become a successful data driven organization. Ram Kumar Senior Vice President, Quantum Dr. Prashanth Southekal has created a practical guidebook for realizing business value from data and analytics investments. Highly recommended. Randy Bean Founder & CEO, NewVantage Partners Prashanth's second book starts with the right title – it is always about BUSINESS VALUE. The practices explored here will help anyone interested to achieve these goals. Mario Faria Gartner Research Board The Analytics Best Practices book is one of the most comprehensive and well-researched books I have come across on data analytics. Ameet Shetty Former Chief Data and Analytics Officer, McDonald's Corporation I would encourage all professionals to read this easy to navigate,

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thoughtful and pragmatic book as it is relevant to all of us seeking to maximize the ROI for our organizations. Lisa M. Wardlaw Former EVP, Global Chief Digital Strategy Officer, MunichRe Deriving actionable insights from data requires that linkage to be clear between art and science and this book does just that. Chris Leonard, Director, Digital Strategy & Transformation, Plains Midstream Prashanth's book simplifies the complex world of data analytics, and one to understand the drivers of bringing valued results to an organization. Matthew Joyce Senior Solution Architect, SAS-Institute

Information visualization is a language. Like any language, it can be used for multiple purposes. A poem, a novel, and an essay all share the same language, but each one has its own set of rules. The same is true with information visualization: a product manager, statistician, and graphic designer each approach visualization from different perspectives. Data at Work was written with you, the spreadsheet user, in mind. This book will teach you how to think about and organize data in ways that directly relate to your work, using the skills you already have. In other words, you don't need to be a graphic designer to create functional, elegant charts: this book will show you how. Although all of the examples in this book were created in Microsoft Excel, this is not a book about how to use Excel. Data at Work will help you to know which type of chart to use and how to format it, regardless of which spreadsheet application you use and whether or not you have any design experience. In this book, you'll learn how to extract, clean, and transform data; sort data points to identify patterns and detect outliers; and understand how and when to use a variety of data visualizations including bar charts, slope charts, strip charts, scatter plots, bubble charts, boxplots, and more. Because this book is not a manual, it never specifies the steps required to make a chart, but the

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relevant charts will be available online for you to download, with brief explanations of how they were created.

State transportation agencies deal with numerous technical and organizational challenges in building integrated data and information systems to provide high-quality information for supporting analysis, control, and decision making in asset management. There is a need to identify the approaches that work and to develop guidelines for agencies working to achieve data integration. This project seeks to identify relevant metrics for performance measurement and the underlying factors and best practices that contribute to successful approaches. The research was comprised of six tasks: literature review; design of data collection instruments; pilot testing of data collection instruments; collection of data--interviews; identification and analysis of key success factors, best practices, and performance measures; and preparation of the guidelines document. Comprehensive case studies of data integration issues and best practices regarding asset management and information systems development were conducted on the Wisconsin, Michigan and Ohio Departments of Transportation.

Go ahead, be skeptical about big data. The author was—at first. When the term “big data” first came on the scene, bestselling author Tom Davenport (Competing on Analytics, Analytics at Work) thought it was just another example of technology hype. But his research in the years that followed changed his mind. Now, in clear, conversational language, Davenport explains what big data means—and why everyone in business needs to know about it. Big Data at Work covers all the bases: what big data means from a technical, consumer, and management perspective; what its opportunities and costs are; where it can have real business impact; and which aspects of this hot topic have been oversold. This book will help you understand: • Why big data

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is important to you and your organization • What technology you need to manage it • How big data could change your job, your company, and your industry • How to hire, rent, or develop the kinds of people who make big data work • The key success factors in implementing any big data project • How big data is leading to a new approach to managing analytics With dozens of company examples, including UPS, GE, Amazon, United Healthcare, Citigroup, and many others, this book will help you seize all opportunities—from improving decisions, products, and services to strengthening customer relationships. It will show you how to put big data to work in your own organization so that you too can harness the power of this ever-evolving new resource.

Dataviz—the new language of business A good visualization can communicate the nature and potential impact of information and ideas more powerfully than any other form of communication. For a long time “dataviz” was left to specialists—data scientists and professional designers. No longer. A new generation of tools and massive amounts of available data make it easy for anyone to create visualizations that communicate ideas far more effectively than generic spreadsheet charts ever could. What’s more, building good charts is quickly becoming a need-to-have skill for managers. If you’re not doing it, other managers are, and they’re getting noticed for it and getting credit for contributing to your company’s success. In *Good Charts*, dataviz maven Scott Berinato provides an essential guide to how visualization works and how to use this new language to impress and persuade. Dataviz today is where spreadsheets and word processors were in the early 1980s—on the cusp of changing how we work. Berinato lays out a system for thinking visually and building better charts through a process of talking, sketching, and prototyping. This book is much more than a set of static rules for making visualizations. It taps into

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both well-established and cutting-edge research in visual perception and neuroscience, as well as the emerging field of visualization science, to explore why good charts (and bad ones) create “feelings behind our eyes.” Along the way, Berinato also includes many engaging vignettes of dataviz pros, illustrating the ideas in practice. Good Charts will help you turn plain, uninspiring charts that merely present information into smart, effective visualizations that powerfully convey ideas.

In *How to Lead in Data Science* you'll master techniques for leading data science at every seniority level, from heading up a single project to overseeing a whole company's data strategy. To lead a data science team, you need to expertly articulate technology roadmaps, support a data-driven culture, and plan a data strategy that drives a competitive business plan. In this practical guide, you'll learn leadership techniques the authors have developed building multiple high-performance data teams. In *How to Lead in Data Science* you'll master techniques for leading data science at every seniority level, from heading up a single project to overseeing a whole company's data strategy. You'll find advice on plotting your long-term career advancement, as well as quick wins you can put into practice right away. Throughout, carefully crafted assessments and interview scenarios encourage introspection, reveal personal blind spots, and show development areas to help advance your career. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. Deliver enterprise data analytics success by following Prashanth's prescriptive and practical techniques. Today, organizations across the globe are looking at ways to glean insights from data analytics and make good business decisions. However, not many business enterprises are successful in data analytics. According to Gartner, 80% of

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analytics programs do not deliver business outcomes.

Mckinsey consulting says, less than 20% of the companies have achieved analytics at scale. So, how can a business enterprise avoid analytics failure and deliver business results? This book provides ten key analytics best practices that will improve the odds of delivering enterprise data analytics solutions successfully. It is intended for anyone who has a stake and interest in deriving insights from data analytics. The three key differentiating aspects of this book are: Practicality. This book offers prescriptive, superior, and practical guidance. Completeness. This book looks at data analytics holistically across the four key data analytics domains - data management, data engineering, data science, and data visualization. Neutrality. This book is technologically agnostic and looks at analytics concepts without any reference to commercial analytics products and technologies. Dr. Southehal proves why he is one of the leading thinkers on data and analytics today. 'Analytics Best Practices' is an indispensable guide for business leaders and those looking to get into the analytics field on the nuances, challenges, and immense opportunities with data. Douglas B. Laney Principal, Data & Analytics Strategy, Caserta, and author of "Infonomics"

Many researchers jump from data collection directly into testing hypothesis without realizing these tests can go profoundly wrong without clean data. This book provides a clear, accessible, step-by-step process of important best practices in preparing for data collection, testing assumptions, and examining and cleaning data in order to decrease error rates and increase both the power and replicability of results. Jason W. Osborne, author of the handbook Best Practices in Quantitative Methods (SAGE, 2008) provides easily-implemented suggestions

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that are evidence-based and will motivate change in practice by empirically demonstrating—for each topic—the benefits of following best practices and the potential consequences of not following these guidelines.

Summary Big Data teaches you to build big data systems using an architecture that takes advantage of clustered hardware along with new tools designed specifically to capture and analyze web-scale data. It describes a scalable, easy-to-understand approach to big data systems that can be built and run by a small team. Following a realistic example, this book guides readers through the theory of big data systems, how to implement them in practice, and how to deploy and operate them once they're built. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Book Web-scale applications like social networks, real-time analytics, or e-commerce sites deal with a lot of data, whose volume and velocity exceed the limits of traditional database systems. These applications require architectures built around clusters of machines to store and process data of any size, or speed. Fortunately, scale and simplicity are not mutually exclusive. Big Data teaches you to build big data systems using an architecture designed specifically to capture and analyze web-scale data. This book presents the Lambda Architecture, a scalable, easy-to-understand approach that can be built and run by a small team. You'll explore the theory of big data systems and how to implement them in practice. In addition to discovering a general framework for processing big data, you'll learn specific

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technologies like Hadoop, Storm, and NoSQL databases. This book requires no previous exposure to large-scale data analysis or NoSQL tools. Familiarity with traditional databases is helpful. What's Inside

Introduction to big data systems Real-time processing of web-scale data Tools like Hadoop, Cassandra, and Storm Extensions to traditional database skills About the Authors Nathan Marz is the creator of Apache Storm and the originator of the Lambda Architecture for big data systems. James Warren is an analytics architect with a background in machine learning and scientific computing. Table of Contents A new paradigm for Big Data PART 1 BATCH LAYER Data model for Big Data Data model for Big Data: Illustration Data storage on the batch layer Data storage on the batch layer: Illustration Batch layer Batch layer: Illustration An example batch layer: Architecture and algorithms An example batch layer: Implementation PART 2 SERVING LAYER Serving layer Serving layer: Illustration PART 3 SPEED LAYER Realtime views Realtime views: Illustration Queuing and stream processing Queuing and stream processing: Illustration Micro-batch stream processing Micro-batch stream processing: Illustration Lambda Architecture in depth

If you are looking to significantly upgrade your management practices to better meet the needs of today's increasingly volatile, complex, competitive, and global markets, look no further. Best Practices in Planning and Performance Management Reporting, Second Edition provides you with an accessible framework to help any business unite its reporting and

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budgeting functions to achieve its strategic objectives. Don't simply show your data—tell a story with it! Storytelling with Data teaches you the fundamentals of data visualization and how to communicate effectively with data. You'll discover the power of storytelling and the way to make data a pivotal point in your story. The lessons in this illuminative text are grounded in theory, but made accessible through numerous real-world examples—ready for immediate application to your next graph or presentation. Storytelling is not an inherent skill, especially when it comes to data visualization, and the tools at our disposal don't make it any easier. This book demonstrates how to go beyond conventional tools to reach the root of your data, and how to use your data to create an engaging, informative, compelling story. Specifically, you'll learn how to: Understand the importance of context and audience Determine the appropriate type of graph for your situation Recognize and eliminate the clutter clouding your information Direct your audience's attention to the most important parts of your data Think like a designer and utilize concepts of design in data visualization Leverage the power of storytelling to help your message resonate with your audience Together, the lessons in this book will help you turn your data into high impact visual stories that stick with your audience. Rid your world of ineffective graphs, one exploding 3D pie chart at a time. There is a story in your data—Storytelling with Data will give you the skills and power to tell it!

The contributors to Best Practices in Quantitative Methods envision quantitative methods in the 21st

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century, identify the best practices, and, where possible, demonstrate the superiority of their recommendations empirically. Editor Jason W. Osborne designed this book with the goal of providing readers with the most effective, evidence-based, modern quantitative methods and quantitative data analysis across the social and behavioral sciences. The text is divided into five main sections covering select best practices in Measurement, Research Design, Basics of Data Analysis, Quantitative Methods, and Advanced Quantitative Methods. Each chapter contains a current and expansive review of the literature, a case for best practices in terms of method, outcomes, inferences, etc., and broad-ranging examples along with any empirical evidence to show why certain techniques are better. Key Features: Describes important implicit knowledge to readers: The chapters in this volume explain the important details of seemingly mundane aspects of quantitative research, making them accessible to readers and demonstrating why it is important to pay attention to these details. Compares and contrasts analytic techniques: The book examines instances where there are multiple options for doing things, and make recommendations as to what is the "best" choice—or choices, as what is best often depends on the circumstances. Offers new procedures to update and explicate traditional techniques: The featured scholars present and explain new options for data analysis, discussing the advantages and disadvantages of the new procedures in depth, describing how to perform them, and demonstrating their use. Intended Audience: Representing the vanguard of research

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methods for the 21st century, this book is an invaluable resource for graduate students and researchers who want a comprehensive, authoritative resource for practical and sound advice from leading experts in quantitative methods.

As data management and integration continue to evolve rapidly, storing all your data in one place, such as a data warehouse, is no longer scalable. In the very near future, data will need to be distributed and available for several technological solutions. With this practical book, you'll learn how to migrate your enterprise from a complex and tightly coupled data landscape to a more flexible architecture ready for the modern world of data consumption. Executives, data architects, analytics teams, and compliance and governance staff will learn how to build a modern scalable data landscape using the Scaled Architecture, which you can introduce incrementally without a large upfront investment. Author Piethen Strengholt provides blueprints, principles, observations, best practices, and patterns to get you up to speed. Examine data management trends, including technological developments, regulatory requirements, and privacy concerns Go deep into the Scaled Architecture and learn how the pieces fit together Explore data governance and data security, master data management, self-service data marketplaces, and the importance of metadata

Provides recommendations on ways to improve school performance.

The amount of data in our world has been exploding, and analyzing large data sets—so called big data—will become

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a key basis of competition in business. Statisticians and researchers will be updating their analytic approaches, methods and research to meet the demands created by the availability of big data. The goal of this book is to show how advances in data science have the ability to fundamentally influence and improve organizational science and practice. This book is primarily designed for researchers and advanced undergraduate and graduate students in psychology, management and statistics. The book provides a unique contribution to the literature in this field in that the studies of decision theory and data-based decision making are integrated. Focusing on educators assuming leadership roles in school improvement, the book's content is equally relevant for administrators, supervisors, and teachers. The book, however, is centered on data-driven decision making, both as a requirement of the No Child Left Behind Act and as a normative professional standard. Issues related to accumulating, storing, and protecting data in districts and schools also are covered. Applications in administration, supervision, and teaching are demonstrated. Delve deep into various security aspects of AWS to build and maintain a secured environment Key Features ?Learn to secure your network, infrastructure, data, and applications in AWS cloud ?Use AWS managed security services to automate security ?Dive deep into various aspects such as the security model, compliance, access management and much more to build and maintain a secured environment ?Explore Cloud Adoption Framework (CAF) and its components ?Embedded with assessments that will help you revise the concepts you have learned in this book Book Description With organizations moving their workloads, applications, and infrastructure to the cloud at an unprecedented pace, security of all these resources has been

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a paradigm shift for all those who are responsible for security; experts, novices, and apprentices alike. This book focuses on using native AWS security features and managed AWS services to help you achieve continuous security. Starting with an introduction to Virtual Private Cloud (VPC) to secure your AWS VPC, you will quickly explore various components that make up VPC such as subnets, security groups, various gateways, and many more. You will also learn to protect data in the AWS platform for various AWS services by encrypting and decrypting data in AWS. You will also learn to secure web and mobile applications in AWS cloud. This book is ideal for all IT professionals, system administrators, security analysts, solution architects, and chief information security officers who are responsible for securing workloads in AWS for their organizations. This book is embedded with useful assessments that will help you revise the concepts you have learned in this book. What you will learn ?Get familiar with VPC components, features, and benefits ?Learn to create and secure your private network in AWS ?Explore encryption and decryption fundamentals ?Understand monitoring, logging, and auditing in AWS ?Ensure data security in AWS ?Secure your web and mobile applications in AWS ?Learn security best practices for IAM, VPC, shared security responsibility model, and so on Who this book is for This book is for all IT professionals, system administrators, security analysts, solution architects, and chief information security officers who are responsible for securing workloads in AWS for their organizations.

Business VisualizationEffective Charts for OrganizationsNew Riders Publishing

An accessible primer on how to create effective graphics from data This book provides students and researchers a hands-on introduction to the principles and practice of data visualization. It explains what makes some graphs succeed

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while others fail, how to make high-quality figures from data using powerful and reproducible methods, and how to think about data visualization in an honest and effective way. Data Visualization builds the reader's expertise in ggplot2, a versatile visualization library for the R programming language. Through a series of worked examples, this accessible primer then demonstrates how to create plots piece by piece, beginning with summaries of single variables and moving on to more complex graphics. Topics include plotting continuous and categorical variables; layering information on graphics; producing effective "small multiple" plots; grouping, summarizing, and transforming data for plotting; creating maps; working with the output of statistical models; and refining plots to make them more comprehensible. Effective graphics are essential to communicating ideas and a great way to better understand data. This book provides the practical skills students and practitioners need to visualize quantitative data and get the most out of their research findings. Provides hands-on instruction using R and ggplot2 Shows how the "tidyverse" of data analysis tools makes working with R easier and more consistent Includes a library of data sets, code, and functions

Migrate your data to Salesforce and build low-maintenance and high-performing data integrations to get the most out of Salesforce and make it a "go-to" place for all your organization's customer information. When companies choose to roll out Salesforce, users expect it to be the place to find any and all Information related to a customer—the coveted Client 360° view. On the day you go live, users expect to see all their accounts, contacts, and historical data in the system. They also expect that data entered in other systems will be exposed in Salesforce automatically and in a timely manner. This book shows you how to migrate all your legacy data to Salesforce and then design integrations to

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your organization's mission-critical systems. As the Salesforce platform grows more powerful, it also grows in complexity. Whether you are migrating data to Salesforce, or integrating with Salesforce, it is important to understand how these complexities need to be reflected in your design. Developing Data Migrations and Integrations with Salesforce covers everything you need to know to migrate your data to Salesforce the right way, and how to design low-maintenance, high-performing data integrations with Salesforce. This book is written by a practicing Salesforce integration architect with dozens of Salesforce projects under his belt. The patterns and practices covered in this book are the results of the lessons learned during those projects. What You'll Learn Know how Salesforce's data engine is architected and why Use the Salesforce Data APIs to load and extract data Plan and execute your data migration to Salesforce Design low-maintenance, high-performing data integrations with Salesforce Understand common data integration patterns and the pros and cons of each Know real-time integration options for Salesforce Be aware of common pitfalls Build reusable transformation code covering commonly needed Salesforce transformation patterns Who This Book Is For Those tasked with migrating data to Salesforce or building ongoing data integrations with Salesforce, regardless of the ETL tool or middleware chosen; project sponsors or managers nervous about data tracks putting their projects at risk; aspiring Salesforce integration and/or migration specialists; Salesforce developers or architects looking to expand their skills and take on new challenges

Combining best reporting practices with the latest information technology Finance professionals need to constantly search for more efficient ways to increase the scope and effectiveness of the reporting process, while at the same time

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minimizing operational costs. Performance Management and Reporting Best Practices weds best practices to the ultimate measures—better business decisions and better results—defining clear action plans for successfully developing, implementing, and profiting from the strategic application of key performance metrics. David Axson's reader-friendly guide combines reporting best practices with the most recent developments in information technology, allowing managers to automate and streamline the reporting process to meet their unique needs. Drawing upon real-world examples, he explains how leading-edge companies are redesigning the financial planning process, making it more responsive, adaptive, useful, simple, powerful, and able to deliver a sustainable competitive advantage. David Axson (Akron, OH) is Managing Director of AnswerThink Consulting Group's CEO/Solutions practice area.

Grounded in experiential learning with modern cases and examples, *Management Today: Best Practices for the Modern Workplace* cuts through the noise by introducing students to evidence-based management theories, models, and strategies.

ACCOUNTING BEST PRACTICES Seventh Edition Today's accounting staffs are called on to work magic: process transactions, write reports, improve efficiency, create new processes—all at the lowest possible cost, using an ever-shrinking proportion of total corporate expenses. Sound impossible? Not if your staff is using the best practices for accounting. Fully updated in a new edition, *Accounting Best Practices, Seventh Edition* draws from renowned accounting leader Steven Bragg's extensive experience in successfully developing, operating, and consulting various accounting departments. This invaluable resource has the at-your-fingertips information you need, whether you've been searching for ways to cut costs in your accounting

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department, or just want to offer more services without the added expense. The best practices featured in this excellent step-by-step manual constitute need-to-know information concerning the most advanced techniques and strategies for increasing productivity, reducing costs, and monitoring existing accounting systems. This new edition boasts over 400 best practices, with fifty new to this edition in the areas of taxation, finance, collections, general ledger, accounts payable, and billing. Now featuring a corresponding seven-minute podcast for each chapter found on the book's companion website, Accounting Best Practices is the perfect, do-it-yourself book for the manager who wants to significantly boost their accounting department.

The healthcare industry is in a state of accelerated transition. The proliferation of data and its assimilation, access, use, and security are ever-increasing challenges. Finding ways to operationalize business and clinical data management in the face of government and market mandates is enough to keep most chief officers up at night! Leveraging Data in Healthcare: Best Practices for Controlling, Analyzing, and Using Data argues that the key to survival for any healthcare organization in today's data-saturated market is to fundamentally redefine the roles of chief information executives—CIOs, CFOs, CMIOs, CTOs, CNIOs, CTOs and CDOs—from suppliers of data to drivers of data intelligence. This book presents best practices for controlling, analyzing, and using data. The elements of preparing an actionable data strategy are exemplified on subjects such as revenue integrity, revenue management, and patient engagement. Further, the book illustrates how to operationalize the electronic integration of health and financial data within patient financial services, information management services, and patient engagement activities. An integrated environment will activate a data-driven intelligent decision support infrastructure. The

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Increasing impact of consumer engagement will continue to affect the organization's bottom line. Success in this new world will need collaboration among the chiefs, users, and data creators.

The second edition of the Impact Evaluation in Practice handbook is a comprehensive and accessible introduction to impact evaluation for policy makers and development practitioners. First published in 2011, it has been used widely across the development and academic communities. The book incorporates real-world examples to present practical guidelines for designing and implementing impact evaluations. Readers will gain an understanding of impact evaluations and the best ways to use them to design evidence-based policies and programs. The updated version covers the newest techniques for evaluating programs and includes state-of-the-art implementation advice, as well as an expanded set of examples and case studies that draw on recent development challenges. It also includes new material on research ethics and partnerships to conduct impact evaluation. The handbook is divided into four sections: Part One discusses what to evaluate and why; Part Two presents the main impact evaluation methods; Part Three addresses how to manage impact evaluations; Part Four reviews impact evaluation sampling and data collection. Case studies illustrate different applications of impact evaluations. The book links to complementary instructional material available online, including an applied case as well as questions and answers. The updated second edition will be a valuable resource for the international development community, universities, and policy makers looking to build better evidence around what works in development.

Research funders in the UK, USA and across Europe are implementing data management and sharing policies to maximize openness of data, transparency and accountability

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of the research they support. Written by experts from the UK Data Archive with over 20 years experience, this book gives post-graduate students, researchers and research support staff the data management skills required in today's changing research environment. The book features guidance on: how to plan your research using a data management checklist how to format and organize data how to store and transfer data research ethics and privacy in data sharing and intellectual property rights data strategies for collaborative research how to publish and cite data how to make use of other people's research data, illustrated with six real-life case studies of data use.

"This book introduces you to R, RStudio, and the tidyverse, a collection of R packages designed to work together to make data science fast, fluent, and fun. Suitable for readers with no previous programming experience"--

Today's databases can handle velocity, variety, and volume well beyond the traditional data warehouse, but the problems and architectures to handle them are not yet well-established. Drawing on years of experience in a wide variety of industries, Douglas Moore and Jeffrey Breen identify common big data patterns and guide users through solving tough problems that are well defined in the more traditional data warehouse space. This book is an essential resource as you plan for the entire data lifecycle, from data ingest, processing and enhancement, to publication, avoiding pitfalls and dead-ends and future-proofing your data storage and analysis. With an eye on the big picture of data analysis and the end goal of access and actionable intelligence, Moore and Breen cover all types of data—across the spectrum from batch to realtime, and the varieties of structured and unstructured data sources—in both general terms and the problems and potential pitfalls specific to each type.

Developers, designers, engineers, and creators can no longer

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afford to pass responsibility for identity and data security onto others. Web developers who don't understand how to obscure data in transmission, for instance, can open security flaws on a site without realizing it. With this practical guide, you'll learn how and why everyone working on a system needs to ensure that users and data are protected. Authors Jonathan LeBlanc and Tim Messerschmidt provide a deep dive into the concepts, technology, and programming methodologies necessary to build a secure interface for data and identity—without compromising usability. You'll learn how to plug holes in existing systems, protect against viable attack vectors, and work in environments that sometimes are naturally insecure. Understand the state of web and application security today Design security password encryption, and combat password attack vectors Create digital fingerprints to identify users through browser, device, and paired device detection Build secure data transmission systems through OAuth and OpenID Connect Use alternate methods of identification for a second factor of authentication Harden your web applications against attack Create a secure data transmission system using SSL/TLS, and synchronous and asynchronous cryptography

Information visualization is a language. Like any language, it can be used for multiple purposes. A poem, a novel, and an essay all share the same language, but each one has its own set of rules. The same is true with information visualization: a product manager, statistician, and graphic designer each approach visualization from different perspectives. Data at Work was written with you, the spreadsheet user, in mind. This book will teach you how to think about and organize data in ways that directly relate to your work, using the skills you already have. In other words, you don't need to be a graphic designer to create functional, elegant charts, this book will show you how. Although all of the examples in this book were

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created in Microsoft Excel, this is not a book about how to use Excel. Data at Work will help you to know which type of chart to use and how to format it, regardless of which spreadsheet application you use and whether or not you have any design experience. In this book, you'll learn how to extract, clean, and transform data; sort data points to identify patterns and detect outliers; and understand how and when to use a variety of data visualizations including bar charts, slope charts, strip charts, scatterplots, bubble charts, boxplots, and more. Because this book is not a manual, it never specifies the steps required to make a chart, but the relevant charts will be available online for you to download, with brief explanations of how they were created.

Influence action through data! This is not a book. It is a one-of-a-kind immersive learning experience through which you can become—or teach others to be—a powerful data storyteller. Let's practice! helps you build confidence and credibility to create graphs and visualizations that make sense and weave them into action-inspiring stories. Expanding upon best seller storytelling with data's foundational lessons, Let's practice! delivers fresh content, a plethora of new examples, and over 100 hands-on exercises. Author and data storytelling maven Cole Nussbaumer Knaflic guides you along the path to hone core skills and become a well-practiced data communicator. Each chapter includes: ? Practice with Cole: exercises based on real-world examples first posed for you to consider and solve, followed by detailed step-by-step illustration and explanation ? Practice on your own: thought-provoking questions and even more exercises to be assigned or worked through individually, without prescribed solutions ? Practice at work: practical guidance and hands-on exercises for applying storytelling with data lessons on the job, including instruction on when and how to solicit useful feedback and refine for greater impact The lessons and exercises found within this

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comprehensive guide will empower you to master—or develop in others—data storytelling skills and transition your work from acceptable to exceptional. By investing in these skills for ourselves and our teams, we can all tell inspiring and influential data stories!

Contents: Characteristics of Credible Cost Estimates & a Reliable Process for Creating Them; Why Cost Estimates Are Required for Gov;t. Programs & Challenges in Developing Results; Criteria for Cost Estimating, EVM, & Data Reliability; Cost Analysis Overview; The Cost Estimate;s Purpose, Scope, & Schedule; The Cost Assessment Team; Technical Baseline Description; Work Breakdown Structure; Ground Rules & Assumptions; Data; Developing a Point Estimate; Estimating Software Costs; Sensitivity Analysis; Cost Risk & Uncertainty; Validating the Estimate; Documenting the Estimate; Presenting the Estimate to Mgmt.; Managing Program Costs: Planning, Execution, & Updating; & Appendixes. Tables, Figures, & Checklists.

As organizations drive to transform and virtualize their IT infrastructures to reduce costs, and manage risk, networking is pivotal to success. Optimizing network performance, availability, adaptability, security, and cost is essential to achieving the maximum benefit from your infrastructure. In this IBM® Redbooks® publication, we address these requirements: Expertise to plan and design networks with holistic consideration of servers, storage, application performance, and manageability Networking solutions that enable investment protection with performance and cost options that match your environment Technology and expertise to design and implement and manage network security and resiliency Robust network management software for integrated, simplified management that lowers operating costs of complex networks IBM and Brocade have entered into an agreement to provide expanded network technology

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choices with the new IBM b-type Ethernet Switches and Routers, to provide an integrated end-to-end resiliency and security framework. Combined with the IBM vast data center design experience and the Brocade networking expertise, this portfolio represents the ideal convergence of strength and intelligence. For organizations striving to transform and virtualize their IT infrastructure, such a combination can help you reduce costs, manage risks, and prepare for the future. This book is meant to be used along with "IBM b-type Data Center Networking: Product Introduction and Initial Setup," SG24-7785.

What is data governance? And what are the principles and techniques you can leverage as a business or IT professional to make data governance successful within your organization? Data Governance will answer these questions and provide you with insights and approaches to improve the "data fitness" of your organization. Gain control of your data and assign responsible parties to ensure the data remains well-understood and protected, by applying the content within this book's six chapters: · Chapter 1, Understanding Data Governance, looks at the broad definitions of data governance along with issues within data governance. · Chapter 2, Owning Data Governance, looks at Ownership, Wider Perspectives, and Roles, and explores how transparent data governance can simplify the complexities of data ownership. · Chapter 3, Data Confidence, explores using tools (e.g., standards, strategies, and policies) to clearly align business objectives with realistic IT deliverables and produce meaningful outcomes. · Chapter 4, Getting Data Fit, covers the basic elements required to make data governance work for your specific organization. There are five steps required to achieve a basic level of data fitness and effective governance. · Chapter 5, Approach and Stakeholders, covers various ways to implement data governance to ensure there

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are clear milestones and trigger points for key stakeholders to approve each phase. A data scorecard is introduced as a tool to help guide an organization through the data governance process. · Chapter 6, A Case Study, concerns a fictitious company, D474, used to illustrate the various examples and scenarios for implementing data governance.

This book presents persuasive arguments in support of public service and those who work within it. Clearly, some services should come under government control: public safety, highways, armed and emergency service, water, sewage, parks, schools. Others, however, are operating in answer to problems that society fails to solve. The public sector requires complex problem-solving processes - never simple solutions - and, despite the negative image imprinted on the public consciousness, Government at Work shows how so-called bureaucrats do a difficult job well. Marc Holzer and Kathe Callahan compile evidence that creativity, productivity and excellence are not strangers to government programmes. The publ

Development Research in Practice leads the reader through a complete empirical research project, providing links to continuously updated resources on the DIME Wiki as well as illustrative examples from the Demand for Safe Spaces study. The handbook is intended to train users of development data how to handle data effectively, efficiently, and ethically. “In the DIME Analytics Data Handbook, the DIME team has produced an extraordinary public good: a detailed, comprehensive, yet easy-to-read manual for how to manage a data-oriented research project from beginning to end. It offers everything from big-picture guidance on the determinants of high-quality empirical research, to specific practical guidance on how to implement specific workflows—and includes computer code! I think it will prove durably useful to a broad range of researchers in international

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development and beyond, and I learned new practices that I plan on adopting in my own research group.†? —Marshall Burke, Associate Professor, Department of Earth System Science, and Deputy Director, Center on Food Security and the Environment, Stanford University “Data are the essential ingredient in any research or evaluation project, yet there has been too little attention to standardized practices to ensure high-quality data collection, handling, documentation, and exchange. Development Research in Practice: The DIME Analytics Data Handbook seeks to fill that gap with practical guidance and tools, grounded in ethics and efficiency, for data management at every stage in a research project. This excellent resource sets a new standard for the field and is an essential reference for all empirical researchers.†? —Ruth E. Levine, PhD, CEO, IDinsight “Development Research in Practice: The DIME Analytics Data Handbook is an important resource and a must-read for all development economists, empirical social scientists, and public policy analysts. Based on decades of pioneering work at the World Bank on data collection, measurement, and analysis, the handbook provides valuable tools to allow research teams to more efficiently and transparently manage their work flows—yielding more credible analytical conclusions as a result.†? —Edward Miguel, Oxfam Professor in Environmental and Resource Economics and Faculty Director of the Center for Effective Global Action, University of California, Berkeley “The DIME Analytics Data Handbook is a must-read for any data-driven researcher looking to create credible research outcomes and policy advice. By meticulously describing detailed steps, from project planning via ethical and responsible code and data practices to the publication of research papers and associated replication packages, the DIME handbook makes the complexities of transparent and credible research easier.†? —Lars Vilhuber, Data Editor, American Economic

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Association, and Executive Director, Labor Dynamics
Institute, Cornell University

This book provides a complete and modern guide to web scraping, using Python as the programming language, without glossing over important details or best practices. Written with a data science audience in mind, the book explores both scraping and the larger context of web technologies in which it operates, to ensure full understanding. The authors recommend web scraping as a powerful tool for any data scientist's arsenal, as many data science projects start by obtaining an appropriate data set. Starting with a brief overview on scraping and real-life use cases, the authors explore the core concepts of HTTP, HTML, and CSS to provide a solid foundation. Along with a quick Python primer, they cover Selenium for JavaScript-heavy sites, and web crawling in detail. The book finishes with a recap of best practices and a collection of examples that bring together everything you've learned and illustrate various data science use cases. What You'll Learn Leverage well-established best practices and commonly-used Python packages Handle today's web, including JavaScript, cookies, and common web scraping mitigation techniques Understand the managerial and legal concerns regarding web scraping Who This Book is For A data science oriented audience that is probably already familiar with Python or another programming language or analytical toolkit (R, SAS, SPSS, etc). Students or instructors in university courses may also benefit. Readers unfamiliar with Python will appreciate a quick Python primer in chapter 1 to catch up with the basics and provide pointers to other guides as well.

"Covering both data architecture and data management issues, the book describes the impact of poor data practices, demonstrates more effective approaches, and reveals implementation pointers for quick results."--Jacket.

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