Visualize This The Flowingdata Guide To Design Visualization And Statistics 1st First Edition By Yau Nathan Published By Wiley 2011

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<u>The Accidental Analyst</u> - Eileen Mcdaniel 2012-10-01
The Accidental Analyst: Show Your Data Who's Boss Are you drowning in a sea of data? Would you like to take control of your data and analysis to quickly answer your business questions and make critical decisions? Do you want to confidently present results and solutions to your managers, colleagues and clients? If so, The Accidental Analyst is for you! Although you didn't plan for a career as a data analyst, you're now in a position where you have to analyze data to be successful. Whether you've been working with data for a few years or are just getting started, you can learn how to analyze your data to find answers to real-world questions. Using illustrated examples, we'll walk you through a clear, step-by-step framework that we call The Seven C's of Data Analysis. Read this book for inspiration, ideas and confidence to begin tackling the problems you face at work. Keep it by your desk as a reference on how to organize, analyze and display your data. Don't worry, you can continue to use your favorite spreadsheet or data analysis software—this information is not tied to any particular application. Throughout the book, we also include expert tips, tricks, and shortcuts that took years of analyzing data to discover and understand! Please visit us at www.AccidentalAnalyst.com for articles, our free newsletter and upcoming training events. Quotes This is a wonderful book, filled with practical advice. Business people who are struggling to make sense of their data will find it accessible and directly applicable to their work— a great resource for building analytical prowess. Stephen Few, best-selling author of "Show Me the Numbers" and "Now You See It" Finally, a book that clearly explains the fundamentals of business analytics! I wish that I had this book at the start of my career as a data analyst. Tim Latendress, Financial Analyst This book is an amazing resource for regular business people who want to make sense of their data and take charge of their business! It provides simple yet comprehensive coverage of business analytics. Diego Saenz, President, Petplace and former CIO of Pepsi Latin America Authors Eileen McDaniel, PhD, is Co-Founder and Managing Partner of Freakalytics, LLC, specializing in analytical training and short-term projects that empower people to get the most out of their data and take decisive action to solve problems in their daily work. She is co-author of Rapid Graphs with Tableau Software 7 and the Rapid Dashboards Reference Card, also available as a mobile app, and leads the development of course training materials. Working in both scientific research and business, Eileen realized that business analysts needed a formal, step-by-step method similar to the one scientists use to collect and analyze their data. This inspired her to develop the seven-step framework for data analysis found in The Accidental Analyst. Stephen McDaniel is passionate about helping people understand, present and take action with their data. He is co-author of multiple books and courses including SAS® for Dummies and Rapid Graphs with Tableau Software 7. Stephen has been on the Faculty of The American Marketing Association and The Data Warehouse Institute and is currently Director of Analytic Product Management at Tableau Software and Principal Analyst at Freakalytics, LLC.

FlowingData.com Data Visualization Set - Nathan Yau 2014-03-17
Visualize This is a guide on how to visualize and tell stories with data, providing practical design tips complemented with step-by-step tutorials. It begins with a description of the huge growth of data and visualization in industry, news, and gov't and opportunities for those who tell stories with data. Logically it moves on to actual stories in data-statistical ones with trends and human stories. the technical part comes up quickly with how to gather, parse and format data with Python, R, Excel, Google docs, etc and details tools to visualize data-native graphics for the Web like ActionScript, Flash libraries, PHP, JavaScript, CSS, HTML. Every chapter provides an example as well. Patterns over time and kinds of data charts are followed by proportions, chart types and examples. Next, examples and descriptions of outliers and how to show them, different kinds of maps, how to guide your readers and explain the data "in the visualization". The book ends with a value-add appendix on graphical perception. Data Points focuses on the approach to visualization and data. Visualization is a medium that can be used as a tool, art, a way to tell stories, etc., Data Points guides readers through making data approachable through visualization techniques and best practices. The focus is on designing with a purpose in mind. Data Points discusses why recipes (from the rules) work and expands on how readers can make their own recipes. The book is example-driven, featuring work from people in areas of art, design, business, statistics, computer science, cartography, and online media, as well as many of the author's own illustrations. The major sections of the book cover: Visualization as Medium -- In the same way not all movies are documentaries, not all visualization is about optimal visual perception. Data Representation -- There are rules across all visualization applications, such as the use of appropriate shapes to accurately represent values. Design with Purpose -- Rules can be broken though. It all depends on who and what you're designing for. Data Points digs deep into the foundations of data visualization: Understanding Data and Visualization Representing Data Exploring Data Visually Designing for an Audience Visualizing with Clarity Putting Everything Into Practice with Tools and Resources

Now You See it - Stephen Few 2009
"Teaches simple, fundamental, and practical techniques that anyone can use to make sense of numbers." - cover.

Effective Data Visualization - Stephanie D. H. Evergreen 2019-04-03
NOW IN FULL COLOR! Written by sought-after speaker, designer, and researcher Stephanie D. H. Evergreen, Effective Data Visualization shows readers how to create Excel charts and graphs that best communicate their data findings. This comprehensive how-to guide functions as a set of blueprints—supported by both research and the author's extensive experience with clients in industries all over the world—for conveying data in an impactful way. Delivered in Evergreen's humorous and approachable style, the book covers the spectrum of graph types available beyond the default options, how to determine which one most appropriately fits specific data stories, and easy steps for building the chosen graph in Excel. Now in full color with new examples throughout, the Second Edition includes a revamped chapter on qualitative data, nine new quantitative graph types, new shortcuts in Excel, and an entirely new chapter on Sharing Your Data With the World, which provides advice on using dashboards. New from Stephanie Evergreen! The Data Visualization Sketchbook provides advice on getting started with sketching and offers tips, guidance, and completed sample sketches for a number of reporting formats. Bundle Effective Data Visualization, 2e, and The Data Visualization Sketchbook, using ISBN 978-1-5443-7178-8!

Comics and Narration - Thierry Groensteen 2013-02-18

This book is the follow-up to Thierry Groensteen's groundbreaking The System of Comics, in which the leading French-language comics theorist set out to investigate how the medium functions, introducing the principle of iconic solidarity, and showing the systems that underlie the articulation between panels at three levels: page layout, linear sequence, and nonsequential links woven through the comic book as a whole. He now develops that analysis further, using examples from a very wide range of comics, including the work of American artists such as Chris Ware and Robert Crumb. He tests out his theoretical framework by bringing it up against cases that challenge it, such as abstract comics, digital comics and shojo manga, and offers insightful reflections on these innovations. In addition, he includes lengthy chapters on three areas not covered in the first book. First, he explores the role of the narrator, both verbal and visual, and the particular issues that arise out of narration in autobiographical comics. Second, Groensteen tackles the question of rhythm in comics, and the skill demonstrated by virtuoso artists in intertwining different rhythms over and above the basic beat provided by the discontinuity of the panels. And third he resets the relationship of comics to contemporary art, conditioned by cultural history and aesthetic traditions but evolving recently as comics artists move onto avant-garde terrain.

Data Visualization Made Simple - Kristen Sosulski 2018-09-27
Data Visualization Made Simple is a practical guide to the fundamentals, strategies, and real-world cases for data visualization, an essential skill required in today's information-rich world. With foundations rooted in statistics, psychology, and computer science, data visualization offers practitioners in almost every field a coherent way to share findings from original research, big data, learning analytics, and more. In nine appealing chapters, the book: examines the role of data graphics in decision-making, sharing information, sparking discussions, and inspiring future research; scrutinizes data graphics, deliberates on the messages they convey, and looks at options for design visualization; and includes cases and interviews to provide a contemporary view of how data graphics are used by professionals across industries Both novices and seasoned designers in education, business, and other areas can use this book's effective, linear process to develop data visualization literacy and promote exploratory, inquiry-based approaches to visualization problems.

The Truthful Art - Alberto Cairo 2016-02-08
No matter what your actual job title, you are—or soon will be—a data worker. Every day, at work, home, and school, we are bombarded with vast amounts of free data collected and shared by everyone and everything from our co-workers to our calorie counters. In this highly anticipated follow-up to The Functional Art—Alberto Cairo's foundational guide to understanding information graphics and visualization—the respected data visualization professor explains in clear terms how to work with data, discover the stories hidden within, and share those stories with the world in the form of charts, maps, and infographics. In The Truthful Art, Cairo transforms elementary principles of data and scientific reasoning into tools that you can use in daily life to interpret data sets and extract stories from them. The Truthful Art explains: • The role infographics and data visualization play in our world • Basic principles of data and scientific reasoning that anyone can master • How to become a better critical thinker • Step-by-step processes that will help you evaluate any data visualization (including your own) • How to create and use effective charts, graphs, and data maps to explain data to any audience The Truthful Art is also packed with inspirational and educational real-world examples of data visualizations from such leading publications as The New York Times, The Wall Street Journal, Estado de São Paulo (Brazil), Berliner Morgenpost (Germany), and many more.

Data Flow - Robert Klanten 2008
"The eight comprehensive chapters in Data Flow 2 expand the definition of contemporary information graphics. Wide-ranging examples introduce new techniques and forms of expression. In addition to the inspiring visuals, interviews with the New York Times's Steve Duenes, Infosthetic's Andrew Vande Moere, Visualcomplexity's Manuel Lima, Art+Com's Joachim Sauter, and passionate cartographer Menno-Jan Kraak as well as text features by Johannes Schardt provide insight into the challenges of creating effective work."--Cover.

Knowledge Is Beautiful - David McCandless 2014-11-25
Impossible ideas, invisible patterns, hidden connections—visualized Deepen your understanding of the world with these mind-blowing infographics from the bestselling author of The Visual Miscellaneum

Reasoning with Data - Jeffrey M. Stanton 2017-05-19
Engaging and accessible, this book teaches readers how to use inferential statistical thinking to check their assumptions, assess evidence about their beliefs, and avoid overinterpreting results that may look more promising than they really are. It provides step-by-step guidance for using both classical (frequentist) and Bayesian approaches to inference. Statistical techniques covered side by side from both frequentist and Bayesian approaches include hypothesis testing, replication, analysis of variance, calculation of effect sizes, regression, time series analysis, and more. Students also get a complete introduction to the open-source R programming language and its key packages. Throughout the text, simple commands in R demonstrate essential data analysis skills using real-data examples. The companion website provides annotated R code for the book's examples, in-class exercises, supplemental reading lists, and links to online videos, interactive materials, and other resources. ÿ Pedagogical Features *Playful, conversational style and gradual approach; suitable for students without strong math backgrounds. *End-of-chapter exercises based on real data supplied in the free R package. *Technical explanation and equation/output boxes. *Appendices on how to install R and work with the sample datasets.ÿ

Learning Tableau - Joshua N. Milligan 2015-04-27
If you want to understand your data using data visualization and don't know where to start, then this is the book for you. Whether you are a beginner or have years of experience, this book will help you to quickly acquire the skills and techniques used to discover, analyze, and communicate data visually. Some familiarity with databases and data structures is helpful, but not required.

Interactive Data Visualization for the Web - Scott Murray 2013-03-11
Author Scott Murray teaches you the fundamental concepts and methods of D3, a JavaScript library that lets you express data visually in a web browser

Data Fluency - Zach Gemignani 2014-11-03
A dream come true for those looking to improve their data fluency Analytical data is a powerful tool for growing companies, but what good is it if it hides in the shadows? Bring your data to the forefront with effective visualization and communication approaches, and let Data Fluency: Empowering Your Organization with Effective Communication show you the best tools and strategies for getting the job done right. Learn the best practices of data presentation and the ways that reporting and dashboards can help organizations effectively gauge performance, identify areas for improvement, and communicate results. Topics covered in the book include data reporting and communication, audience and user needs, data presentation tools, layout and styling, and common design failures. Those responsible for analytics, reporting, or BI implementation will find a refreshing take on data and visualization in this resource, as will report, data visualization, and dashboard designers. Conquer the challenge of making valuable data approachable and easy to understand Develop unique skills required to shape data to the needs of different audiences Full color book links to bonus content at juiceanalytics.com Written by well-known and highly esteemed authors in the data presentation community Data Fluency: Empowering Your Organization with Effective Communication focuses on user experience, making reports approachable, and presenting data in a compelling, inspiring way. The book helps to dissolve the disconnect between your data and those who might use it and can help make an impact on the people who are most affected by data. Use Data Fluency today to develop the skills necessary to turn data into effective displays for decision-making.

The Data Science Design Manual - Steven S. Skiena 2017-07-01
This engaging and clearly written textbook/reference provides a must-have introduction to the rapidly emerging interdisciplinary field of data science. It focuses on the principles fundamental to becoming a good data scientist and the key skills needed to build systems for collecting, analyzing, and interpreting data. The Data Science Design Manual is a source of practical insights that highlights what really matters in analyzing data, and provides an intuitive understanding of how these core concepts can be used. The book does not emphasize any particular programming language or suite of data-analysis tools, focusing instead on high-level discussion of important design principles. This easy-to-read text ideally serves the needs of undergraduate and early graduate students embarking on an "Introduction to Data Science" course. It reveals how this discipline sits at the intersection of statistics, computer science, and machine

learning, with a distinct heft and character of its own. Practitioners in these and related fields will find this book perfect for self-study as well. Additional learning tools: Contains "War Stories," offering perspectives on how data science applies in the real world Includes "Homework Problems," providing a wide range of exercises and projects for self-study Provides a complete set of lecture slides and online video lectures at www.data-manual.com Provides "Take-Home Lessons," emphasizing the big-picture concepts to learn from each chapter Recommends exciting "Kaggle Challenges" from the online platform Kaggle Highlights "False Starts," revealing the subtle reasons why certain approaches fail Offers examples taken from the data science television show "The Quant Shop" (www.quant-shop.com)

Rules of Play - Katie Salen Tekinbas 2003-09-25
An impassioned look at games and game design that offers the most ambitious framework for understanding them to date. As pop culture, games are as important as film or television—but game design has yet to develop a theoretical framework or critical vocabulary. In Rules of Play Katie Salen and Eric Zimmerman present a much-needed primer for this emerging field. They offer a unified model for looking at all kinds of games, from board games and sports to computer and video games. As active participants in game culture, the authors have written Rules of Play as a catalyst for innovation, filled with new concepts, strategies, and methodologies for creating and understanding games. Building an aesthetics of interactive systems, Salen and Zimmerman define core concepts like "play," "design," and "interactivity." They look at games through a series of eighteen "game design schemas," or conceptual frameworks, including games as systems of emergence and information, as contexts for social play, as a storytelling medium, and as sites of cultural resistance. Written for game scholars, game developers, and interactive designers, Rules of Play is a textbook, reference book, and theoretical guide. It is the first comprehensive attempt to establish a solid theoretical framework for the emerging discipline of game design.

Infographics For Dummies - Justin Beegel, MBA 2014-06-10
Create stunning infographics with this hands-on guide Infographics For Dummies is a comprehensive guide to creating data visualization with viral appeal. Written by the founder of Infographic World, a New York City based infographic agency, and his top designers, the book focuses on the how-to of data, design, and distribution to create stunning, shareable infographics. Step-by-step instruction allows you to handle data like a pro, while creating eye-catching graphics with programs like Adobe Illustrator and Photoshop. The book walks you through the different types of infographics, explaining why they're so effective, and when they're appropriate. Ninety percent of the information transmitted to your brain is visual, so it's important to tickle the optic nerves to get people excited about your data. Infographics do just that. Much more exciting than a spreadsheet, infographics can add humor, interest, and flash while imparting real information. Putting your data in graphic form makes it more likely to be shared via Twitter, Facebook, Pinterest, and other social media sites, and the visual interest makes it less likely to be ignored. Infographics For Dummies provides a tried-and-true method for creating infographics that tell a story and get people excited. Topics include: Talking to clients about the data Discovering trends, outliers, and patterns Designing with mood boards and wireframes Launching and promoting your infographic The book, written by Justin Beegel, MBA, founder of Infographic World, Inc., describes the elements of a successful infographic, and stresses the must-have ingredients that get your data noticed. Humans are visual creatures, telling stories in a visual way. In today's world filled with data and messaging, an infographic is one of the best ways to get your point across.

Data Science and Big Data Analytics - EMC Education Services 2015-01-05
Data Science and Big Data Analytics is about harnessing the power of data for new insights. The book covers the breadth of activities and methods and tools that Data Scientists use. The content focuses on concepts, principles and practical applications that are applicable to any industry and technology environment, and the learning is supported and explained with examples that you can replicate using open-source software. This book will help you: Become a contributor on a data science team Deploy a structured lifecycle approach to data analytics problems Apply appropriate analytic techniques and tools to analyzing big data Learn how to tell a compelling story with data to drive business action Prepare for EMC Proven Professional Data Science Certification Corresponding data sets are available from the book's page at Wiley which you can find on the Wiley site by searching for the ISBN 9781118876138. Get started discovering, analyzing, visualizing, and presenting data in a meaningful way today!

Data Visualisation - Andy Kirk 2019-07-08
One of the "six best books for data geeks" - Financial Times With over 200 images and extensive how-to and how-not-to examples, this new edition has everything students and scholars need to understand and create effective data visualisations. Combining 'how to think' instruction with a 'how to produce' mentality, this book takes readers step-by-step through analysing, designing, and curating information into useful, impactful tools of communication. With this book and its extensive collection of online support, readers can: - Decide what visualisations work best for their data and their audience using the chart gallery - See data visualisation in action and learn the tools to try it themselves - Follow online checklists, tutorials, and exercises to build skills and confidence - Get advice from the UK's leading data visualisation trainer on everything from getting started to honing the craft. Explore more resources about data visualisation and Andy Kirk.

Data Visualization - Kieran Healy 2018-12-18
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 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

Exam Ref 70-779 Analyzing and Visualizing Data with Microsoft Excel - Chris Sorensen 2018-06-07
Prepare for Microsoft Exam 70-779–and help demonstrate your real-world mastery of Microsoft Excel data analysis and visualization. Designed for BI professionals, data analysts, and others who analyze business data with Excel, this Exam Ref focuses on the critical thinking and decision-making acumen needed for success at the MCSA level. Focus on the expertise measured by these objectives: Consume and transform data by using Microsoft Excel Model data, from building and optimizing data models through creating performance KPIs, actual and target calculations, and hierarchies Visualize data, including creating and managing PivotTables and PivotCharts, and interacting with PowerBI This Microsoft Exam Ref: Organizes its coverage by exam objectives Features strategic, what-if scenarios to challenge you Assumes you have a strong understanding of how to use Microsoft Excel to perform data analysis

Cross-Cultural Design. Applications in Health, Learning, Communication, and Creativity - Pei-Luen Patrick Rau 2020-07-10
This two-volume set LNCS 12192 and 12193 constitutes the refereed proceedings of the 12th International Conference on Cross-Cultural Design, CCD 2020, held as part of HCI International 2020 in Copenhagen, Denmark in July 2020.The conference was held virtually due to the corona pandemic. The total of 1439 papers and 238 posters included in the 40 HCII 2020 proceedings volumes was carefully reviewed and selected from 6326 submissions. The regular papers of Cross-Cultural Design CCD 2020 presented in this volume were organized in topical sections named: Health, Well-being and Social Design Across Cultures, Culture, Learning and Communication, and Culture and Creativity.

Designing Data Visualizations - Noah Iliinsky 2011-09-16
Data visualization is an efficient and effective medium for communicating large amounts of information, but the design process can often seem like an unexplainable creative endeavor. This concise book aims to demystify the design process by showing you how to use a linear decision-making process to encode your

information visually. Delve into different kinds of visualization, including infographics and visual art, and explore the influences at work in each one. Then learn how to apply these concepts to your design process. Learn data visualization classifications, including explanatory, exploratory, and hybrid Discover how three fundamental influences—the designer, the reader, and the data—shape what you create Learn how to describe the specific goal of your visualization and identify the supporting data Decide the spatial position of your visual entities with axes Encode the various dimensions of your data with appropriate visual properties, such as shape and color See visualization best practices and suggestions for encoding various specific data types

Visualization Analysis and Design - Tamara Munzner 2014-12-01
Learn How to Design Effective Visualization SystemsVisualization Analysis and Design provides a systematic, comprehensive framework for thinking about visualization in terms of principles and design choices. The book features a unified approach encompassing information visualization techniques for abstract data, scientific visualization techniques

Matplotlib for Python Developers - Sandro Tosi 2009-11-09
This is a practical, hands-on book, with a lot of code and images. It presents the real code that generates every image and describes almost every single line of it, so that you know exactly what's going on. Introductory, descriptive, and theoretical parts are mixed with examples, so that reading and understanding them is easy. All of the examples build gradually with code snippets, their explanations, and plot images where necessary with the complete code and output presented at the end. This book is essentially for Python developers who have a good knowledge of Python; no knowledge of Matplotlib is required. You will be creating 2D plots using Matplotlib in no time at all.

Applied Predictive Analytics - Dean Abbott 2014-04-14
Learn the art and science of predictive analytics — techniques that get results Predictive analytics is what translates big data into meaningful, usable business information. Written by a leading expert in the field, this guide examines the science of the underlying algorithms as well as the principles and best practices that govern the art of predictive analytics. It clearly explains the theory behind predictive analytics, teaches the methods, principles, and techniques for conducting predictive analytics projects, and offers tips and tricks that are essential for successful predictive modeling. Hands-on examples and case studies are included. The ability to successfully apply predictive analytics enables businesses to effectively interpret big data; essential for competition today This guide teaches not only the principles of predictive analytics, but also how to apply them to achieve real, pragmatic solutions Explains methods, principles, and techniques for conducting predictive analytics projects from start to finish Illustrates each technique with hands-on examples and includes as series of in-depth case studies that apply predictive analytics to common business scenarios A companion website provides all the data sets used to generate the examples as well as a free trial version of software Applied Predictive Analytics arms data and business analysts and business managers with the tools they need to interpret and capitalize on big data.

VISUALIZE THIS - NATHAN. YAU 2014

Data Points - Nathan Yau 2013-03-25
A fresh look at visualization from the author of Visualize This Whether it's statistical charts, geographic maps, or the snappy graphical statistics you see on your favorite news sites, the art of data graphics or visualization is fast becoming a movement of its own. In Data Points: Visualization That Means Something, author Nathan Yau presents an intriguing complement to his bestseller Visualize This, this time focusing on the graphics side of data analysis. Using examples from art, design, business, statistics, cartography, and online media, he explores both standard-and not so standard-concepts and ideas about illustrating data. Shares intriguing ideas from Nathan Yau, author of Visualize This and creator of flowingdata.com, with over 66,000 subscribers Focuses on visualization, data graphics that help viewers see trends and patterns they might not otherwise see in a table Includes examples from the author's own illustrations, as well as from professionals in statistics, art, design, business, computer science, cartography, and more Examines standard rules across all visualization applications, then explores when and where you can break those rules Create visualizations that register at all levels, with Data Points: Visualization That Means Something.

Essentials of Business Analytics - Jeffrey D. Camm 2016-03-24
ESSENTIALS OF BUSINESS ANALYTICS, 2e can be used by students who have previously taken a course on basic statistical methods as well as students who have not had a prior course in statistics. The expanded material in the second edition of Essentials of Business Analytics also makes it amenable to a two-course sequence in business statistics and analytics. All statistical concepts contained in this textbook are presented from a business analytics perspective using practical business examples. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Naked Statistics: Stripping the Dread from the Data - Charles Wheelan 2013-01-07
"Brilliant, funny . . . the best math teacher you never had."—San Francisco Chronicle Once considered tedious, the field of statistics is rapidly evolving into a discipline Hal Varian, chief economist at Google, has actually called "sexy." From batting averages and political polls to game shows and medical research, the real-world application of statistics continues to grow by leaps and bounds. How can we catch schools that cheat on standardized tests? How does Netflix know which movies you'll like? What is causing the rising incidence of autism? As best-selling author Charles Wheelan shows us in Naked Statistics, the right data and a few well-chosen statistical tools can help us answer these questions and more. For those who slept through Stats 101, this book is a lifesaver. Wheelan strips away the arcane and technical details and focuses on the underlying intuition that drives statistical analysis. He clarifies key concepts such as inference, correlation, and regression analysis, reveals how biased or careless parties can manipulate or misrepresent data, and shows us how brilliant and creative researchers are exploiting the valuable data from natural experiments to tackle thorny questions. And in Wheelan's trademark style, there's not a dull page in sight. You'll encounter clever Schlitz Beer marketers leveraging basic probability, an International Sausage Festival illuminating the tenets of the central limit theorem, and a head-scratching choice from the famous game show Let's Make a Deal—and you'll come away with insights each time. With the wit, accessibility, and sheer fun that turned Naked Economics into a bestseller, Wheelan defies the odds yet again by bringing another essential, formerly unglamorous discipline to life.

The Best American Infographics 2016 - Gareth Cook 2016-10-04
"When it comes to infographics...the best work in this field grabs those eyes, keeps them glued, and the grip is sensual—and often immediate. A good graphic says 'See what I see!' and either you do or you don't. The best ones...pull you right in, and won't let you go." —From the introduction by Robert Krulwich The year's most "awesome" (RedOrbit) infographics reveal aspects of our world in often startling ways—from a haunting graphic mapping the journey of 15,790 slave ships over 315 years, to a yearlong data drawing project on postcards that records and cements a trans-Atlantic friendship. The Best American Infographics 2016 covers the realms of social issues, health, sports, arts and culture, and politics—including crisp visual data on the likely Democratic/Republican leanings of an array of professions (proving that your urologist is far more likely to be a Republican than your pediatrician). Here once again are the most innovative print and electronic infographics—"the full spectrum of the genre—from authoritative to playful" (Scientific American). ROBERT KRULWICH is the cohost of Radiolab and a science correspondent for NPR. He writes, draws, and cartoons at Curiously Krulwich, where he synthesizes scientific concepts into colorful, one-of-a-kind blog posts. He has won several Emmy awards for his work on television, and has been called "the most inventive network reporter in television" by TV Guide.

Storytelling with Data - Cole Nussbaumer Knaflic 2015-10-09
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!

Envisioning Information - Edward R. Tufte 1990

Escaoping flatland. Micro/Macro readings. Layering and separation. Small multiples. Color and information. Narratives of Space and time. Epilogue.

Visualizing Data - Ben Fry 2008

Provides information on the methods of visualizing data on the Web, along with example projects and code.

Design for Information - Isabel Meirelles 2013-10-01

The visualization process doesn't happen in a vacuum; it is grounded in principles and methodologies of design, cognition, perception, and human-computer-interaction that are combined to one's personal knowledge and creative experiences. Design for Information critically examines other design solutions —current and historic— helping you gain a larger understanding of how to solve specific problems. This book is designed to help you foster the development of a repertoire of existing methods and concepts to help you overcome design problems. Learn the ins and outs of data visualization with this informative book that provides you with a series of current visualization case studies. The visualizations discussed are analyzed for their design principles and methods, giving you valuable critical and analytical tools to further develop your design process. The case study format of this book is perfect for discussing the histories, theories and best practices in the field through real-world, effective visualizations. The selection represents a fraction of effective visualizations that we encounter in this burgeoning field, allowing you the opportunity to extend your study to other solutions in your specific field(s) of practice. This book is also helpful to students in other disciplines who are involved with visualizing information, such as those in the digital humanities and most of the sciences.

Data Visualization For Dummies - Mico Yuk 2014-01-21

A straightforward, full-color guide to showcasing data so your audience can see what you mean, not just read about it Big data is big news! Every company, industry, not-for-profit, and government agency wants and needs to analyze and leverage datasets that can quickly become ponderously large. Data visualization software enables different industries to present information in ways that are memorable and relevant to their mission. This full-color guide introduces you to a variety of ways to handle and synthesize data in much more interesting ways than mere columns and rows of numbers. Learn meaningful ways to show trending and relationships, how to convey complex data in a clear, concise diagram, ways to create eye-catching visualizations, and much more! Effective data analysis involves learning how to synthesize data, especially big data, into a story and present that story in a way that resonates with the audience This full-color guide shows you how to analyze large amounts of data, communicate complex data in a meaningful way, and quickly slice data into various views Explains how to automate redundant reporting and analyses, create eye-catching visualizations, and use statistical graphics and thematic cartography Enables you to present vast amounts of data in ways that won't overwhelm your audience Part technical manual and part analytical guidebook, Data Visualization For Dummies is the perfect tool for transforming dull tables and charts into high-impact visuals your audience will notice...and remember.

Atlas of Science - Katy Borner 2010-09-17

Science maps that can help us understand and navigate the immense amount of results generated by today's science and technology. Cartographic maps have guided our explorations for centuries, allowing us to navigate the world. Science maps have the potential to guide our search for knowledge in the same way, allowing us to visualize scientific results. Science maps help us navigate, understand, and communicate the dynamic and changing structure of science and technology—help us make sense of the avalanche of data generated by scientific research today. Atlas of Science, featuring more than thirty full-page science maps, fifty data charts, a timeline of science-mapping milestones, and 500 color images, serves as a sumptuous visual index to the evolution of modern science and as an introduction to "the science of science"—charting

the trajectory from scientific concept to published results. Atlas of Science, based on the popular exhibit, "Places & Spaces: Mapping Science", describes and displays successful mapping techniques. The heart of the book is a visual feast: Claudius Ptolemy's Cosmographia World Map from 1482; a guide to a PhD thesis that resembles a subway map; "the structure of science" as revealed in a map of citation relationships in papers published in 2002; a visual periodic table; a history flow visualization of the Wikipedia article on abortion; a globe showing the worldwide distribution of patents; a forecast of earthquake risk; hands-on science maps for kids; and many more. Each entry includes the story behind the map and biographies of its makers. Not even the most brilliant minds can keep up with today's deluge of scientific results. Science maps show us the landscape of what we know.

The Functional Art - Alberto Cairo 2012-08-22

Unlike any time before in our lives, we have access to vast amounts of free information. With the right tools, we can start to make sense of all this data to see patterns and trends that would otherwise be invisible to us. By transforming numbers into graphical shapes, we allow readers to understand the stories those numbers hide. In this practical introduction to understanding and using information graphics, you'll learn how to use data visualizations as tools to see beyond lists of numbers and variables and achieve new insights into the complex world around us. Regardless of the kind of data you're working with–business, science, politics, sports, or even your own personal finances–this book will show you how to use statistical charts, maps, and explanation diagrams to spot the stories in the data and learn new things from it. You'll also get to peek into the creative process of some of the world's most talented designers and visual journalists, including Condé Nast Traveler's John Grimwade, National Geographic Magazine's Fernando Baptista, The New York Times' Steve Duenes, The Washington Post's Hannah Fairfield, Hans Rosling of the Gapminder Foundation, Stanford's Geoff McGhee, and European superstars Moritz Stefaner, Jan Willem Tulp, Stefanie Posavec, and Gregor Aisch. The book also includes a DVD-ROM containing over 90 minutes of video lessons that expand on core concepts explained within the book and includes even more inspirational information graphics from the world's leading designers. The first book to offer a broad, hands-on introduction to information graphics and visualization, The Functional Art reveals: • Why data visualization should be thought of as "functional art" rather than fine art • How to use color, type, and other graphic tools to make your information graphics more effective, not just better looking • The science of how our brains perceive and remember information ¿ • Best practices for creating interactive information graphics • A comprehensive look at the creative process behind successful information graphics ¿ • An extensive gallery of inspirational work from the world's top designers and visual artists On the DVD-ROM: In this introductory video course on information graphics, Alberto Cairo goes into greater detail with even more visual examples of how to create effective information graphics that function as practical tools for aiding perception. You'll learn how to: incorporate basic design principles in your visualizations, create simple interfaces for interactive graphics, and choose the appropriate type of graphic forms for your data. Cairo also deconstructs successful information graphics from The New York Times and National Geographic magazine with sketches and images not shown in the book. All of Peachpit's eBooks contain the same content as the print edition. You will find a link in the last few pages of your eBook that directs you to the media files. Helpful tips: If you are able to search the book, search for "Where are the lesson files?" Go to the very last page of the book and scroll backwards. You will need a web-enabled device or computer in order to access the media files that accompany this ebook. Entering the URL supplied into a computer with web access will allow you to get to the files. Depending on your device, it is possible that your display settings will cut off part of the URL. To make sure this is not the case, try reducing your font size and turning your device to a landscape view. This should cause the full URL to appear.

Visualize This - Nathan Yau 2011-06-13

Practical data design tips from a data visualization expert ofthe modern age Data doesn?t decrease; it is ever-increasing and can beoverwhelming to organize in a way that makes sense to its intendedaudience. Wouldn?t it be wonderful if we could actually visualizedata in such a way that we could maximize its potential and tell astory in a clear, concise manner? Thanks to the creative genius ofNathan Yau, we can. With this full-color book, data visualizationguru and author Nathan Yau uses step-by-step tutorials to show youhow to visualize and tell stories with data. He explains how togather, parse, and format data and then

design high qualitygraphics that help you explore and present patterns, outliers, andrelationships. Presents a unique approach to visualizing and telling storieswith data, from a data visualization expert and the creator offlowingdata.com, Nathan Yau Offers step-by-step tutorials and practical design tips forcreating statistical graphics, geographical maps, and informationdesign to find meaning in the numbers Details tools that can be used to visualize data-nativegraphics for the Web, such as ActionScript, Flash libraries, PHP,and JavaScript and tools to design graphics for print, such as Rand Illustrator Contains numerous examples and descriptions of patterns andoutliers and explains how to show them Visualize This demonstrates how to explain data visually so thatyou can present your information in a way that is easy tounderstand and appealing.

The Essential R Reference - Mark Gardener 2012-11-16
An essential library of basic commands you can copy and pasteinto R The powerful and open-source statistical programming language Ris rapidly growing in popularity, but it requires that you type incommands at the keyboard rather than use a mouse, so you have tolearn the language of R. But there is a shortcut, and that's wherethis unique book comes in. A companion book to Visualize This:The FlowingData Guide to Design, Visualization, and Statistics,this practical reference is a library of basic R commands that youcan copy and paste into R to perform many types of statisticalanalyses. Whether you're in technology, science, medicine, business, orengineering, you can quickly turn to your topic in this handy bookand find the commands you need. Comprehensive command reference for the R programming languageand a companion book to Visualize This: The FlowingData Guide toDesign, Visualization, and Statistics Combines elements of a dictionary, glossary, and thesaurus forthe R language Provides easy accessibility to the commands you need, by topic,which you can cut and paste into R as needed Covers getting, saving, examining, and manipulating data;statistical test and math; and all the things you can do withgraphs Also includes a collection of utilities that you'll finduseful Simplify the complex statistical R programming language withThe Essential R Reference. .

Design for Hackers - David Kadavy 2011-08-08
Discover the techniques behind beautiful design by deconstructing designs to understand them The term 'hacker' has been redefined to consist of anyone who has an insatiable curiosity as to how things work—and how they can try to make them better. This book is aimed at hackers of all skill levels and explains the classical principles and techniques behind beautiful designs by deconstructing those designs in order to understand what makes them so remarkable. Author and designer David Kadavy provides you with the framework for understanding good design and places a special emphasis on interactive mediums. You'll explore color theory, the role of proportion and geometry in design, and the relationship between medium and form. Packed with unique reverse engineering design examples, this book inspires and encourages you to discover and create new beauty in a variety of formats. Breaks down and studies the classical principles and techniques behind the creation of beautiful design Illustrates cultural and contextual considerations in communicating to a specific audience Discusses why design is important, the purpose of design, the various constraints of design, and how today's fonts are designed with the screen in mind Dissects the elements of color, size, scale, proportion, medium, and form Features a unique range of examples, including the graffiti in the ancient city of Pompeii, the lack of the color black in Monet's art, the style and sleekness of the iPhone, and more By the end of this book, you'll be able to apply the featured design principles to your own web designs, mobile apps, or other digital work.