[Book] Beautiful Data The Stories Behind Elegant Data Solutions

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Beautiful Data-Toby Segaran 2009-07-14 In this insightful book, you'll learn from the best data practitioners in the field just how wide-ranging -- and beautiful -- working with data can be. Join 39 contributors as they explain how they developed simple and elegant solutions on projects ranging from the Mars lander to a Radiohead video. With Beautiful Data, you will: Explore the opportunities and challenges involved in working with the vast number of datasets made available by the Web Learn how to visualize trends in urban crime, using maps and data mashups Discover the challenges of designing a data processing system that works within the constraints of space travel Learn how crowdsourcing and transparency have combined to advance the state of drug research Understand how new data can automatically trigger alerts when it matches or overlaps pre-existing data Learn about the massive infrastructure required to create, capture, and process DNA data That's only small sample of what you'll find in Beautiful Data. For anyone who handles data, this is a truly fascinating book. Contributors include: Nathan Yau Jonathan Follett and Matt Holm J.M. Hughes Raghu Ramakrishnan, Brian Cooper, and Utkarsh Srivastava Jeff Hammerbacher Jason Dykes and Jo Wood Jeff Jonas and Lisa Sokol Jud Valeski Alon Halevy and Jayant Madhavan Aaron Koblin with Valdean Klump Michal Migurski Jeff Heer Coco Krumme Peter Norvig Matt Wood and Ben Blackburne Jean-Claude Bradley, Rajarshi Guha, Andrew Lang, Pierre Lindenbaum, Cameron Neylon, Antony Williams, and Egon Willighagen Lukas Biewald and Brendan O'Connor Hadley Wickham, Deborah Swayne, and David Poole Andrew Gelman, Jonathan P. Kastellec, and Yair Ghitza Toby Segaran

Storytelling with Data-Cole Nussbaumer Knaflic 2015-10-26 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!

Knowledge is Beautiful-David McCandless 2014-09-25 A fascinating and thoroughly modern glimpse of world knowledge. It offers a deeper, more ranging look at the world and its history, and an entirely democratic, global look at key issues bedded into the foundations of world knowledge - from questions and facts on history and politics to science, literature and more.

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.

Data Sketches-Nadieh Bremer 2021-02-09 In Data Sketches, Nadieh Bremer and Shirley Wu document the deeply creative process behind 24 unique data visualization projects, and they combine this with powerful technical insights which reveal the mindset behind coding creatively. Exploring 12 different themes – from the Olympics to Presidents & Royals and from Movies to Myths & Legends – each pair of visualizations explores different technologies and forms, blurring the boundary between

visualization as an exploratory tool and an artform in its own right. This beautiful book provides an intimate, behind-the-scenes account of all 24 projects and shares the authors' personal notes and drafts every step of the way. The book features: Detailed information on data gathering, sketching, and coding data visualizations for the web, with screenshots of works-in-progress and reproductions from the authors' notebooks Never-before-published technical write-ups, with beginner-friendly explanations of core data visualization concepts Practical lessons based on the data and design challenges overcome during each project Full-color pages, showcasing all 24 final data visualizations This book is perfect for anyone interested or working in data visualization and information design, and especially those who want to take their work to the next level and are inspired by unique and compelling data-driven storytelling.

Beautiful Data-Orit Halpern 2015-01-05 Beautiful Data is both a history of big data and interactivity, and a sophisticated meditation on ideas about vision and cognition in the second half of the twentieth century. Contending that our forms of attention, observation, and truth are contingent and contested, Orit Halpern historicizes the ways that we are trained, and train ourselves, to observe and analyze the world. Tracing the postwar impact of cybernetics and the communication sciences on the social and human sciences, design, arts, and urban planning, she finds a radical shift in attitudes toward recording and displaying information. These changed attitudes produced what she calls communicative objectivity: new forms of observation, rationality, and economy based on the management and analysis of data. Halpern complicates assumptions about the value of data and visualization, arguing that changes in how we manage and train perception, and define reason and intelligence, are also transformations in governmentality. She also challenges the paradoxical belief that we are experiencing a crisis of attention caused by digital media, a crisis that can be resolved only through intensified media consumption.

Info We Trust-RJ Andrews 2019-01-17 How do we create new ways of looking at the world? Join award-winning data storyteller RJ Andrews as he pushes beyond the usual how-to, and takes you

on an adventure into the rich art of informing. Creating Info We Trust is a craft that puts the world into forms that are strong and true. It begins with maps, diagrams, and charts — but must push further than dry defaults to be truly effective. How do we attract attention? How can we offer audiences valuable experiences worth their time? How can we help people access complexity? Dark and mysterious, but full of potential, data is the raw material from which new understanding can emerge. Become a hero of the information age as you learn how to dip into the chaos of data and emerge with new understanding that can entertain, improve, and inspire. Whether you call the craft data storytelling, data visualization, data journalism, dashboard design, or infographic creation — what matters is that you are courageously confronting the chaos of it all in order to improve how people see the world. Info We Trust is written for everyone who straddles the domains of data and people: data visualization professionals, analysts, and all who are enthusiastic for seeing the world in new ways. This book draws from the entirety of human experience, quantitative and poetic. It teaches advanced techniques, such as visual metaphor and data transformations, in order to create more human presentations of data. It also shows how we can learn from print advertising, engineering, museum curation, and mythology archetypes. This human-centered approach works with machines to design information for people. Advance your understanding beyond by learning from a broad tradition of putting things "in formation" to create new and wonderful ways of opening our eyes to the world. Info We Trust takes a thoroughly original point of attack on the art of informing. It builds on decades of best practices and adds the creative enthusiasm of a world-class data storyteller. Info We Trust is lavishly illustrated with hundreds of original compositions designed to illuminate the craft, delight the reader, and inspire a generation of data storytellers.

The Software Arts-Warren Sack 2019-04-09 An alternative history of software that places the liberal arts at the very center of software's evolution. In The Software Arts, Warren Sack offers an alternative history of computing that places the arts at the very center of software's evolution. Tracing the origins of software to eighteenth-century French encyclopedists' step-by-step descriptions of how things were made in the workshops of artists and artisans, Sack shows that programming languages are the offspring of an effort to describe the mechanical arts in the language of the liberal arts. Sack offers a reading of the texts of computing—code, algorithms, and technical papers—that emphasizes continuity between prose and programs. He translates concepts and categories from the liberal and mechanical arts—including logic, rhetoric, grammar, learning, algorithm, language, and simulation—into terms of computer science and then considers their further translation into popular culture, where they circulate as forms of digital life. He considers, among other topics, the "arithmetization" of knowledge that presaged digitization; today's multitude of logics; the history of demonstration, from deduction to newer forms of persuasion; and the post-Chomsky absence of meaning in grammar. With The Software Arts, Sack invites artists and humanists to see how their ideas are at the root of software and invites computer scientists to envision themselves as artists and humanists.

Information is Beautiful-David McCandless 2009 A visual guide to the way the world really works Every day, every hour, every minute we are bombarded by information - from television, from newspapers, from the internet, we're steeped in it, maybe even lost in it. We need a new way to relate to it, to discover the beauty and the fun of information for information's sake. No dry facts, theories or statistics. Instead, Information is Beautiful contains visually stunning displays of information that blend the facts with their connections, their context and their relationships - making information meaningful, entertaining and beautiful. This is information like you have never seen it before - keeping text to a minimum and using unique visuals that offer a blueprint of modern life - a map of beautiful colour illustrations that are tactile to hold and easy to flick through but intriguing and engaging enough to study for hours.

Data Visualization in Society-Martin Engebretsen 2020-03-21 Today we are witnessing an increased use of data visualization in society. Across domains such as work, education and the news, various forms of graphs, charts and maps are used to explain, convince and tell stories. In an era in which more and more data are produced and circulated digitally,

and digital tools make visualization production increasingly accessible, it is important to study the conditions under which such visual texts are generated, disseminated and thought to be of societal benefit. This book is a contribution to the multi-disciplined and multi-faceted conversation concerning the forms, uses and roles of data visualization in society. Do data visualizations do 'good' or 'bad'? Do they promote understanding and engagement, or do they do ideological work, privileging certain views of the world over others? The contributions in the book engage with these core questions from a range of disciplinary perspectives.

Library Resources & Technical Services-1993

Data Insights-Hunter Whitney 2012-11-27 Data Insights: New Ways to Visualize and Make Sense of Data offers thought-provoking insights into how visualization can foster a clearer and more comprehensive understanding of data. The book offers perspectives from people with different backgrounds, including data scientists, statisticians, painters, and writers. It argues that all data is useless, or misleading, if we do not know what it means. Organized into seven chapters, the book explores some of the ways that data visualization and other emerging approaches can make data meaningful and therefore useful. It also discusses some fundamental ideas and basic questions in the data lifecycle; the process of interactions between people, data, and displays that lead to better questions and more useful answers; and the fundamentals, origins, and purposes of the basic building blocks that are used in data visualization. The reader is introduced to tried and true approaches to understanding users in the context of user interface design, how communications can get distorted, and how data visualization is related to thinking machines. Finally, the book looks at the future of data visualization by assessing its strengths and weaknesses. Case studies from business analytics, healthcare, network monitoring, security, and games, among others, as well as illustrations, thought-provoking quotes, and real-world examples are included. This book will prove useful to computer professionals, technical marketing professionals, content strategists, Web and product designers, and researchers. Demonstrates, with a variety of case studies, how

visualizations can foster a clearer and more comprehensive understanding of data Answers the question, "How can data visualization help me?" with discussions of how it fits into a wide array of purposes and situations Makes the case that data visualization is not just about technology; it also involves a deeply human process

Dear Data-Giorgia Lupi 2016-09-13 Equal parts mail art, data visualization, and affectionate correspondence, Dear Data celebrates "the infinitesimal, incomplete, imperfect, yet exquisitely human details of life," in the words of Maria Popova (Brain Pickings), who introduces this charming and graphically powerful book. For one year, Giorgia Lupi, an Italian living in New York, and Stefanie Posavec, an American in London, mapped the particulars of their daily lives as a series of hand-drawn postcards they exchanged via mail weekly—small portraits as full of emotion as they are data, both mundane and magical. Dear Data reproduces in pinpoint detail the full year's set of cards, front and back, providing a remarkable portrait of two artists connected by their attention to the details of their lives—including complaints, distractions, phone addictions, physical contact, and desires. These details illuminate the lives of two remarkable young women and also inspire us to map our own lives, including specific suggestions on what data to draw and how. A captivating and unique book for designers, artists, correspondents, friends, and lovers everywhere.

The Beautiful Badge-Martyn Routledge 2018-08 The Beautiful Badge is the first book to explore the history of football club badges. From the original Red Devil to the £10 canary, it looks at what inspired them, who crafted them and how fans reacted. Extensive illustrations show how badges followed fashion, negotiated copyright, and expressed the aspirations of owners, managers, and fans.

A Man of the People-Chinua Achebe 2004 I en ny selvstændig afrikansk stat bekæmper en ung lærer landets korrupte og kvindeglade kulturminister for at få hævn over ham

Beautiful Trouble-Andrew Boyd 2013-05-01 Banksy, the Yes Men, Gandhi, Starhawk: the

accumulated wisdom of decades of creative protest is now in the hands of the next generation of change-makers, thanks to Beautiful Trouble. Sophisticated enough for veteran activists, accessible enough for newbies, this compact pocket edition of the bestselling Beautiful Trouble is a book that's both handy and inexpensive. Showcasing the synergies between artistic imagination and shrewd political strategy, this generously illustrated volume can easily be slipped into your pocket as you head out to the streets. This is for everyone who longs for a more beautiful, more just, more livable world – and wants to know how to get there. Includes a new introduction by the editors. Contributors include: Celia Alario • Andy Bichlbaum • Nadine Bloch • L. M. Bogad • Mike Bonnano • Andrew Boyd • Kevin Buckland • Doyle Canning • Samantha Corbin • Stephen Duncombe • Simon Enoch • Janice Fine • Lisa Fithian • Arun Gupta • Sarah Jaffe • John Jordan • Stephen Lerner • Zack Malitz • Nancy L. Mancias • Dave Oswald Mitchell • Tracey Mitchell • Mark Read • Patrick Reinsborough • Joshua Kahn Russell • Nathan Schneider • John Sellers • Matthew Skomarovsky • Jonathan Matthew Smucker • Starhawk • Eric Stoner • Harsha Walia

A More Beautiful and Terrible History-Jeanne Theoharis 2018 The civil rights movement has become national legend, lauded by presidents from Reagan to Obama to Trump, as proof of the power of American democracy. This fable, featuring dreamy heroes and accidental heroines, has shuttered the movement firmly in the past, whitewashed the forces that stood in its way, and diminished its scope. And it is used perniciously in our own times to chastise present-day movements and obscure contemporary injustice. In A More Beautiful and Terrible History award-winning historian Jeanne Theoharis dissects this national myth-making, teasing apart the accepted stories to show them in a strikingly different light. We see Rosa Parks not simply as a bus lady but a lifelong criminal justice activist and radical; Martin Luther King, Jr. as not only challenging Southern sheriffs but Northern liberals, too; and Coretta Scott King not only as a "helpmate" but a lifelong economic justice and peace activist who pushed her husband's activism in these directions. Moving from "the histories we get" to "the histories we need," Theoharis challenges nine key aspects of the fable to reveal the diversity of people, especially women and young

people, who led the movement; the work and disruption it took; the role of the media and "polite racism" in maintaining injustice; and the immense barriers and repression activists faced. Theoharis makes us reckon with the fact that far from being acceptable, passive or unified, the civil rights movement was unpopular, disruptive, and courageously persevering. Activists embraced an expansive vision of justice - which a majority of Americans opposed and which the federal government feared. By showing us the complex reality of the movement, the power of its organizing, and the beauty and scope of the vision, Theoharis proves that there was nothing natural or inevitable about the progress that occurred.

Fullstack D3 and Data Visualization-Amelia Wattenberger 2019-02 Build beautiful data visualizations with D3 The Fullstack D3 book is the complete guide to D3. With dozens of code examples showing each step, you can gain new insights into your data by creating visualizations. Learn how to quickly turn data into insights with D3 We have the data. But it needs to be understood by humans. The best way to convert this data into an understandable format is to mold it into a data visualization. And D3 is the best tool for job if you need to create custom data visualizations. With Fullstack D3 and Data Visualization you and your team will be able to share key insights, uncover problems before they start, and impress your boss by creating gorgeous visualizations. What's Inside Chapter 0: Introduction When would you want to use D3.js? There is a spectrum of libraries to create charts on the web: on one end, you have easy-to-use, basic libraries that will create a standard chart type. Chapter 1: Making your first chart In this chapter we make a line chart. Line charts are a great starting place because of their popularity, but also because of their simplicity. Chapter 2: Making a scatterplot When looking at the relationship between two metrics, a scatterplot is a good choice. In this chapter we show how to create a scatterplot. Chapter 3: Making a bar chart In this chapter we cover how to create a histogram, which is a bar chart that shows the distribution of one metric, with the metric values on the x axis and the frequency of values on the y axis. Chapter 4: Animations and Transitions When we update our charts, we can animate elements from their old to their new positions. These animations can be visually exciting, but more importantly, they have functional benefits.

Chapter 5: Interactions The biggest advantage of creating charts with JavaScript is the ability to respond to user input. Chapter 6: Making a map Maps are also uniquely good at answering geography-based questions. In this chapter, we'll build a map and learn how to plot values within a location. Chapter 7: Data Visualization Basics Now that we're comfortable with how to create a chart, we should zoom out a bit and talk about what chart to create. Chapter 8: Common Charts In this chapter, we talk about common chart types and when to use them. Chapter 9: Dashboard Design A dashboard is any web interface that makes sense out of dynamic data, and in this chapter we learn how to make one. Chapter 10: Advanced Visualization: Marginal Histogram First, we'll focus on enhancing a chart we've already made: our scatter plot. This chart will have multiple goals, all exploring the daily temperature ranges in our weather dataset. Chapter 11: Advanced Visualization: Radial Weather Chart We talked about radar charts in Chapter 10. For this project, we'll build a more complex radar chart. Chapter 12: Advanced Visualization: Animated Sankey Diagram In this project, we'll be simulating real data and creating an animated diagram to engage our viewers. Chapter 13: D3 and React What's the best way to draw a chart within React? It turns out that there is a fair bit of overlap in functionality between a React and D3 - we'll discuss how we can create blazing fast charts using the two together. Chapter 14: D3 and Angular In this chapter we show how to create optimized SVG charts using D3 and Angular.

Encouragement in the Classroom-Joan Young 2014 We all know the factors that can threaten a positive classroom environment: stress from testing, lack of motivation, and problems that students bring from home, for a start. What if we could implement some simple practices to buffer against these factors' negative effects? The good news is that we can. Encouragement in the Classroom explores the small yet high-impact changes that teachers can make to transform students' school experience every day. Drawing from positive psychology research, educator Joan Young explains how fostering humor, mindfulness, resilience, curiosity, and gratitude in the classroom empowers students to learn from their mistakes, celebrate successes, and actively engage in learning. Filled with examples, this publication offers practical, classroom-tested strategies, routines, and rituals that teachers can use immediately to defuse the negative effects of stress and create a stimulating and supportive classroom culture.

Data Visualization-Frits H. Post 2012-12-06 Data visualization is currently a very active and vital area of research, teaching and development. The term unites the established field of scientific visualization and the more recent field of information visualization. The success of data visualization is due to the soundness of the basic idea behind it: the use of computer-generated images to gain insight and knowledge from data and its inherent patterns and relationships. A second premise is the utilization of the broad bandwidth of the human sensory system in steering and interpreting complex processes, and simulations involving data sets from diverse scientific disciplines and large collections of abstract data from many sources. These concepts are extremely important and have a profound and widespread impact on the methodology of computational science and engineering, as well as on management and administration. The interplay between various application areas and their specific problem solving visualization techniques is emphasized in this book. Reflecting the heterogeneous structure of Data Visualization, emphasis was placed on these topics: -Visualization Algorithms and Techniques; -Volume Visualization; -Information Visualization; -Multiresolution Techniques; -Interactive Data Exploration. Data Visualization: The State of the Art presents the state of the art in scientific and information visualization techniques by experts in this field. It can serve as an overview for the inquiring scientist, and as a basic foundation for developers. This edited volume contains chapters dedicated to surveys of specific topics, and a great deal of original work not previously published illustrated by examples from a wealth of applications. The book will also provide basic material for teaching the state of the art techniques in data visualization. Data Visualization: The State of the Art is designed to meet the needs of practitioners and researchers in scientific and information visualization. This book is also suitable as a secondary text for graduate level students in computer science and engineering.

Envisioning Information-Edward R. Tufte 1998

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.

How We Became Our Data-Colin Koopman 2019-06-19 We are now acutely aware, as if all of the sudden, that data matters enormously to how we live. How did information come to be so integral to what we can do? How did we become people who effortlessly present our lives in social media profiles and who are meticulously recorded in state surveillance dossiers and online marketing databases? What is the story behind data coming to matter so much to who we are? In How We Became Our Data, Colin Koopman excavates early moments of our rapidly accelerating data-tracking technologies and their consequences for how we think of and express our selfhood today. Koopman explores the emergence of mass-scale record keeping systems like birth certificates and social security numbers, as well as new data techniques for categorizing personality traits, measuring intelligence, and even racializing subjects. This all culminates in what Koopman calls the "informational person" and the "informational power" we are now subject to. The recent explosion of digital technologies that are turning us into a series of algorithmic data points is shown to have a deeper and more turbulent past

than we commonly think. Blending philosophy, history, political theory, and media theory in conversation with thinkers like Michel Foucault, Jürgen Habermas, and Friedrich Kittler, Koopman presents an illuminating perspective on how we have come to think of our personhood—and how we can resist its erosion.

The Wonderful Wizard of Oz-L. Frank Baum 2013-01-25 Travel to the land of Oz with Dorothy and find out what inspired the forthcoming film blockbuster Oz: The Great and Powerful

Structural Macroeconometrics-David N. DeJong 2011-10-03 The revised edition of the essential resource on macroeconometrics Structural Macroeconometrics provides a thorough overview and in-depth exploration of methodologies, models, and techniques used to analyze forces shaping national economies. In this thoroughly revised second edition, David DeJong and Chetan Dave emphasize time series econometrics and unite theoretical and empirical research, while taking into account important new advances in the field. The authors detail strategies for solving dynamic structural models and present the full range of methods for characterizing and evaluating empirical implications, including calibration exercises, method-of-moment procedures, and likelihood-based procedures, both classical and Bayesian. The authors look at recent strides that have been made to enhance numerical efficiency, consider the expanded applicability of dynamic factor models, and examine the use of alternative assumptions involving learning and rational inattention on the part of decision makers. The treatment of methodologies for obtaining nonlinear model representations has been expanded, and linear and nonlinear model representations are integrated throughout the text. The book offers a rich array of implementation algorithms, sample empirical applications, and supporting computer code. Structural Macroeconometrics is the ideal textbook for graduate students seeking an introduction to macroeconomics and econometrics, and for advanced students pursuing applied research in macroeconomics. The book's historical perspective, along with its broad presentation of alternative methodologies, makes it an indispensable resource for academics and professionals.

The Jungle Book-Rudyard Kipling 1894

The Accidental Public Servant-Nasir Ahmed El-Rufai 2013 This is a story of Nigeria, told from the inside. After a successful career in the private sector, Nasir El-Rufai rose to the top ranks of Nigeria's political hierarchy, serving first as the privatization czar at the Bureau for Public Enterprises and then as Minister of the Federal Capital Territory of Abuja under former President Olesegun Obasanjo. In this tell-all memoir, El-Rufai reflects on a life in public service to Nigeria, the enormous challenges faced by the country, and what can be done while calling on a new generation of leaders to take the country back from the brink of destruction. The shocking revelations disclosed by El-Rufai about the formation of the current leadership and the actions of prominent statesmen make this memoir required reading for anyone seeking to understand the dynamics of power politics in Africa's most populous nation.

Something Beautiful-Gloria Gaither 2008-12-14 What began 50 years ago, when two high-school English teachers in an Indiana farm community began writing songs to express spiritual insights, has become a volume of church standards sung the world over. Bill and Gloria Gaither's songs have found permanent homes in people's hearts and hymnals, making this couple among the most prolific and popular in Christian music history. Now fans and music lovers can see inside the inspiration and life events that created the songs they sing most, including Because He Lives, There's Something About That Name, and The Family of God. In her trademark elegant prose, Gloria has created a beautiful keepsake for all those who love Christian music and its history.

Modeling and Analysis of Communicating Systems-Jan Friso Groote 2014-08-29 Rigorous theory and real-world applications for modeling and analysis of the behavior of complex communicating computer systems Complex communicating computer systems—computers connected by data networks and in constant communication with their environments—do not always behave as expected. This book introduces behavioral modeling, a rigorous approach to behavioral specification and verification of concurrent and distributed systems. It is among the very few techniques capable of modeling systems interaction at a level of abstraction sufficient for the interaction to be understood and analyzed. Offering both a mathematically grounded theory and real-world applications, the book is suitable for classroom use and as a reference for system architects. The book covers the foundation of behavioral modeling using process algebra, transition systems, abstract data types, and modal logics. Exercises and examples augment the theoretical discussion. The book introduces a modeling language, mCRL2, that enables concise descriptions of even the most intricate distributed algorithms and protocols. Using behavioral axioms and such proof methods as confluence, cones, and foci, readers will learn how to prove such algorithms equal to their specifications. Specifications in mCRL2 can be simulated, visualized, or verified against their requirements. An extensive mCRL2 toolset for mechanically verifying the requirements is freely available online; this toolset has been successfully used to design and analyze industrial software that ranges from healthcare applications to particle accelerators at CERN. Appendixes offer material on equations and notation as well as exercise solutions.

The Better Angels of Our Nature-Steven Pinker 2012 Presents a controversial history of violence which argues that today's world is the most peaceful time in human existence, drawing on psychological insights into intrinsic values that are causing people to condemn violence as an acceptable measure.

Behind the Beautiful Forevers-Katherine Boo 2012-02-07 NEW YORK TIMES BESTSELLER • NATIONAL BOOK AWARD WINNER • NAMED ONE OF TIME'S TEN BEST NONFICTION BOOKS OF THE DECADE "Inspiring . . . extraordinary . . . [Katherine Boo] shows us how people in the most desperate circumstances can find the resilience to hang on to their humanity. Just as important, she makes us care."—People "A tour de force of social justice reportage and a literary masterpiece."—Judges, PEN/John Kenneth Galbraith Award ONE OF THE TEN BEST BOOKS OF THE YEAR BY The New York Times • The Washington Post • O: The Oprah Magazine • USA Today • New York • The Miami Herald • San Francisco Chronicle • Newsday In this breathtaking book by Pulitzer Prize winner Katherine Boo, a bewildering age of global

change and inequality is made human through the dramatic story of families striving toward a better life in Annawadi, a makeshift settlement in the shadow of luxury hotels near the Mumbai airport. As India starts to prosper, the residents of Annawadi are electric with hope. Abdul, an enterprising teenager, sees "a fortune beyond counting" in the recyclable garbage that richer people throw away. Meanwhile Asha, a woman of formidable ambition, has identified a shadier route to the middle class. With a little luck, her beautiful daughter, Annawadi's "most-everything girl," might become its first female college graduate. And even the poorest children, like the young thief Kalu, feel themselves inching closer to their dreams. But then Abdul is falsely accused in a shocking tragedy; terror and global recession rock the city; and suppressed tensions over religion, caste, sex, power, and economic envy turn brutal. With intelligence, humor, and deep insight into what connects people to one another in an era of tumultuous change, Behind the Beautiful Forevers, based on years of uncompromising reporting, carries the reader headlong into one of the twenty-first century's hidden worlds—and into the hearts of families impossible to forget. WINNER OF: The PEN Nonfiction Award • The Los Angeles Times Book Prize • The American Academy of Arts and Letters Award • The New York Public Library's Helen Bernstein Book Award NAMED ONE OF THE BEST BOOKS OF THE YEAR BY The New Yorker • People • Entertainment Weekly • The Wall Street Journal • The Boston Globe • The Economist • Financial Times • Foreign Policy • The Seattle Times • The Nation • St. Louis Post-Dispatch • The Denver Post • Minneapolis Star Tribune • The Week • Kansas City Star • Slate • Publishers Weekly

Better Data Visualizations-Jonathan Schwabish 2021-02-09 Now more than ever, content must be visual if it is to travel far. Readers everywhere are overwhelmed with a flow of data, news, and text. Visuals can cut through the noise and make it easier for readers to recognize and recall information. Yet many researchers were never taught how to present their work visually. This book details essential strategies to create more effective data visualizations. Jonathan Schwabish walks readers through the steps of creating better graphs and how to move beyond simple line, bar, and pie charts. Through more than five hundred examples, he demonstrates the do's and don'ts of

data visualization, the principles of visual perception, and how to make subjective style decisions around a chart's design. Schwabish surveys more than eighty visualization types, from histograms to horizon charts, ridgeline plots to choropleth maps, and explains how each has its place in the visual toolkit. It might seem intimidating, but everyone can learn how to create compelling, effective data visualizations. This book will guide you as you define your audience and goals, choose the graph that best fits for your data, and clearly communicate your message.

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!

Teaching About Evolution and the Nature of Science-National Academy of Sciences 1998-05-06 Today many school students are shielded from one of the most important concepts in modern science: evolution. In engaging and conversational style, Teaching About Evolution and the Nature of Science provides a well-structured framework for understanding and

teaching evolution. Written for teachers, parents, and community officials as well as scientists and educators, this book describes how evolution reveals both the great diversity and similarity among the Earth's organisms; it explores how scientists approach the question of evolution; and it illustrates the nature of science as a way of knowing about the natural world. In addition, the book provides answers to frequently asked questions to help readers understand many of the issues and misconceptions about evolution. The book includes sample activities for teaching about evolution and the nature of science. For example, the book includes activities that investigate fossil footprints and population growth that teachers of science can use to introduce principles of evolution. Background information, materials, and step-by-step presentations are provided for each activity. In addition, this volume: Presents the evidence for evolution, including how evolution can be observed today. Explains the nature of science through a variety of examples. Describes how science differs from other human endeavors and why evolution is one of the best avenues for helping students understand this distinction. Answers frequently asked questions about evolution. Teaching About Evolution and the Nature of Science builds on the 1996 National Science Education Standards released by the National Research Council--and offers detailed guidance on how to evaluate and choose instructional materials that support the standards. Comprehensive and practical, this book brings one of today's educational challenges into focus in a balanced and reasoned discussion. It will be of special interest to teachers of science, school administrators, and interested members of the community.

Living in Data-Jer Thorp 2021-05-04 A provocative, eye-opening, example-laden exploration of our current and future relationship with data In the fall of 2009, the data artist Jer Thorp wrote a pair of algorithms to inscribe names on the 9/11 Memorial in Manhattan. The project involved designing a layout that allowed for "meaningful adjacencies"—family members, business partners, coworkers—to be etched into the bronze in close proximity. Thorp presented his results in competition against another team, a group of financial analysts who had also been working on the problem. The analysts were confident they'd found the most highly optimized solution—a maximum of about 93 percent of the

adjacencies could be satisfied—when Thorp, a long-haired artist working on an old broken laptop, presented his layout: it was 99.99 percent solved. The analysts, it turned out, had looked at the data but not at how the data was to be represented. But Thorp considered each name as a unique unit in a real system. He'd solved a data problem by honoring the people from whom the data came, as well as the world in which that data would live. The memorial project represents Thorp's approach to data as a rich medium for personal and community growth. This human-centered approach has defined his work, from The New York Times to the Museum of Modern Art to the Library of Congress; from a submarine at the bottom of the Gulf of Mexico to a boat in the middle of Africa's Okavango Delta; from Manchester's town hall to an abandoned school in St. Louis's north side. In Living in Data, Thorp proves that thinking about data in a human context makes us better problem solvers and builds a healthier relationship between us and our data—one that puts our well-being front and center—and that there is a path forward beyond the extractive, impersonal nature of the "big data" era.

The ArcGIS Book-Christian Harder 2017 This is a hands-on book about ArcGIS that you work with as much as read. By the end, using Learn ArcGIS lessons, you'll be able to say you made a story map, conducted geographic analysis, edited geographic data, worked in a 3D web scene, built a 3D model of Venice, and more.

Stories from Hazrat Data Ganj Baksh-ʿAlī ibn ʿUs̱mān Hujvīrī 1972

How to Tell the Truth with Statistics-David Spiegelhalter 2019-03-26 Statistics has played a leading role in our scientific understanding of the world for centuries, yet we are all familiar with the way statistical claims can be sensationalized, particularly in the media. In the age of big data, as data science becomes established as a discipline, a basic grasp of statistical literacy is more important than ever. In How to Tell the Truth with Statistics, David Spiegelhalter guides the reader through the essential principles we need in order to derive knowledge from data. Drawing on real world problems to introduce conceptual issues, he shows us how statistics can help us determine the luckiest passenger on the

Titanic, whether serial killer Harold Shipman could have been caught earlier, and if a screening for ovarian cancer is beneficial. How many trees are there on the planet? Do busier hospitals have higher survival rates? Why do old men have big ears? Spiegelhalter reveals the answers to these and many other questions - questions that can only be addressed using statistical science.

Datastory-Nancy Duarte 2019-09-17 Readers will learn to understand the story behind the data and how to influence the people with a DataStory.

The Numbers Game-Danielle Steel 2020-03-03 NEW YORK TIMES BESTSELLER • In Danielle Steel's stunning novel, modern relationships come together, fall apart, and are reinvented over time, proving that age is just a number. Eileen Jackson was happy to set aside her own dreams to raise a family with her husband, Paul. Together they built an ordinary life in a Connecticut town, the perfect place for their kids to grow up. But when Eileen discovers that Paul's late nights in the city are hiding an affair with a younger woman, she begins to question all those years of sacrifice and compromise. On the brink of forty and wondering what she's going to do with the rest of her life, is it too late for her to start over? Meanwhile, as Paul is thrust back into the role of suburban fatherhood, his girlfriend, Olivia, is in Manhattan, struggling to find herself in the shadow of her mother, a famous actress, and her grandmother, a fiercely independent ninety-two-year-old artist. With their unique brands of advice ringing in her head, Olivia takes a major step, expanding her art gallery business internationally. Seeing her mother pursue old dreams and even find new love, Olivia realizes that there is so much she must learn about herself before committing her life to someone else. Ultimately, Eileen decides to chase her own dreams as well. She's off to Paris to attend Le Cordon Bleu cooking school. What awaits is an adventure that reinvents her life and redefines her. At every age, there are challenges to be met and new worlds to discover. In this surprising, illuminating novel, Danielle Steel gives us a warmhearted portrait of people driven by their emotions, life experiences, and loyalties, who realize that it's never too late to turn a new page and start again.