The Of Trees Visualizing Branches Of Knowled

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Information Design for the Common Good - Courtney Marchese 2021-08-12
This book explores the increasing altruistic impulse of the design community to address some of the world's most difficult problems including social, political, environmental, and global health causes at the local, national, and global scale. Each chapter strategically combines theory and practice to examine how to identify causes and locate accurate data, truth and integrity in information design, the information design/data visualization process, understanding audiences, crafting meaningful narratives, and measuring the impact of a design. A variety of international case studies and interviews with practitioners illustrate the challenges and impact of designing for social agendas. These range from traditional media outlets like The New York Times and The Guardian, popular science organizations like National Geographic and Scientific America, to health institutes like The World Health Organization and The Center for Disease Control. This book allows the novice information designer to create compelling human-centered information narratives which make a difference in our world.

Graph Algorithms - Mark Needham 2019-05-16
Discover how graph algorithms can help you leverage the relationships within your data to develop more intelligent solutions and enhance your machine learning models. You'll learn how graph analytics are uniquely suited to unfold complex structures and reveal difficult-to-find patterns lurking in your data. Whether you are trying to build dynamic network models or forecast real-world behavior, this book illustrates how graph algorithms deliver value—from finding vulnerabilities and bottlenecks to detecting communities and improving machine learning predictions. This practical book walks you through hands-on examples of how to use graph algorithms in Apache Spark and Neo4j—two of the most common choices for graph analytics. Also included: sample code and tips for over 20 practical graph algorithms that cover optimal pathfinding, importance through centrality, and community detection. Learn how graph analytics vary from conventional statistical analysis Understand how classic graph algorithms work, and how they are applied Get guidance on which algorithms to use for different types of questions Explore algorithm examples with working code and sample datasets from Spark and Neo4j See how connected feature extraction can increase machine learning accuracy and precision Walk through creating an ML workflow for link prediction combining Neo4j and Spark

The Book Tree - Paul Czajak 2020-02
When young Arlo accidentally drops a book on the Mayor's head, the Mayor decides books are dangerous and destroys all the books in town! But thanks to Arlo's imagination and perseverance, the Mayor finds that suppressing stories cannot stop them from blossoming more beautifully than ever. This timely allegorical tale will be a useful tool for starting conversations with children about the power of activism and the written word.

Interpretable Machine Learning - Christoph Molnar 2020
This book is about making machine learning models and their decisions interpretable. After exploring the concepts of interpretability, you will learn about simple, interpretable models such as decision trees, decision rules and linear regression. Later chapters focus on general model-agnostic methods for interpreting black box models like feature importance and accumulated local effects and explaining individual predictions with Shapley values and LIME. All interpretation methods are explained in depth and discussed critically. How do they work under the hood? What are their strengths and weaknesses? How can their outputs be interpreted? This book will enable you to select and correctly apply the interpretation method that is most suitable for your machine learning project.

Rise of the Balloon Goons - Troy Cummings 2013
Discovering an old notebook after moving to a new hometown, Alexander reads top-secret information about monsters while tackling a wacky band of arm-waving, balloon-wielding brutes. Simultaneous.

Geometry of Grief - Michael Frame 2021-09-08
Geometry -- Grief -- Beauty -- Story -- Fractal -- Beyond -- Appendix: More Math.

Cosmigraphics - Michael Benson 2014-10-14
Collects illustrations and maps that visualize the vast expanse of the universe, chronicling three thousand years of human observation of the universe.

Steve Lacy - Jason Weiss 2006-08-09
A collection of thirty-four interviews with the innovative soprano saxophonist and jazz composer Steve Lacy (1934&–2004).

The Book of Trees - Manuel Lima 2014-04-08
Our critically acclaimed bestseller Visual Complexity was the first in-depth examination of the burgeoning field of information visualization. Particularly noteworthy are the numerous historical examples of past efforts to make sense of complex systems of information. In this new companion volume, The Book of Trees, data viz expert Manuel Lima examines the more than eight hundred year history of the tree diagram, from its roots in the illuminated manuscripts of medieval monasteries to its current resurgence as an elegant means of visualization. Lima presents two hundred intricately detailed tree diagram illustrations on a remarkable variety of subjects—from some of the earliest known examples from ancient Mesopotamia to the manuscripts of medieval monasteries to contributions by leading contemporary designers. A timeline of capsule biographies on key figures in the development of the tree diagram rounds out this one-of-a-kind visual compendium.

Data Management for Researchers - Kristin Briney 2015-09-01
A comprehensive guide to everything scientists need to know about data management, this book is essential for researchers who need to learn how to organize, document and take care of their own data. Researchers in all disciplines are faced with the challenge of managing the growing amounts of digital data that are the foundation of their research. Kristin Briney offers practical advice and clearly explains policies and principles, in an accessible and in-depth text that will allow researchers to understand and achieve the goal of better research data management. Data Management for Researchers includes sections on: * The data problem – an introduction to the growing importance and challenges of using digital data in research. Covers both the inherent problems with managing digital information, as well as how the research landscape is changing to give more value to research datasets and code. * The data lifecycle – a framework for data's place within the research process and how data's role is changing. Greater emphasis on data sharing and data reuse will not only change the way we conduct research but also how we manage research data. * Planning for data management – covers the many aspects of data management and how to put them together in a data management plan. This section also includes sample data management plans. * Documenting your data – an often overlooked part of the data management process, but one that is critical to good management; data without documentation are frequently unusable. * Organizing your data – explains how to keep your data in order using organizational systems and file naming conventions. This section also covers using a database to organize and analyze content. * Improving data analysis – covers managing information through the analysis process. This section starts by comparing the management of raw and analyzed data and then describes ways to make analysis easier, such as spreadsheet best practices. It also examines practices for research code, including version control systems. * Managing secure and private data – many researchers are dealing with data that require extra security. This section outlines what data falls into this category and some of the

policies that apply, before addressing the best practices for keeping data secure. * Short-term storage – deals with the practical matters of storage and backup and covers the many options available. This section also goes through the best practices to insure that data are not lost. * Preserving and archiving your data – digital data can have a long life if properly cared for. This section covers managing data in the long term including choosing good file formats and media, as well as determining who will manage the data after the end of the project. * Sharing/publishing your data – addresses how to make data sharing across research groups easier, as well as how and why to publicly share data. This section covers intellectual property and licenses for datasets, before ending with the altmetrics that measure the impact of publicly shared data. * Reusing data – as more data are shared, it becomes possible to use outside data in your research. This chapter discusses strategies for finding datasets and lays out how to cite data once you have found it. This book is designed for active scientific researchers but it is useful for anyone who wants to get more from their data: academics, educators, professionals or anyone who teaches data management, sharing and preservation. "An excellent practical treatise on the art and practice of data management, this book is essential to any researcher, regardless of subject or discipline." —Robert Buntrock, Chemical Information Bulletin

The Brain That Changes Itself - Norman Doidge 2007-03-15
"Fascinating. Doidge's book is a remarkable and hopeful portrait of the endless adaptability of the human brain."—Oliver Sacks, MD, author of The Man Who Mistook His Wife for a Hat What is neuroplasticity? Is it possible to change your brain? Norman Doidge's inspiring guide to the new brain science explains all of this and more An astonishing new science called neuroplasticity is overthrowing the centuries-old notion that the human brain is immutable, and proving that it is, in fact, possible to change your brain. Psychoanalyst, Norman Doidge, M.D., traveled the country to meet both the brilliant scientists championing neuroplasticity, its healing powers, and the people whose lives they've transformed—people whose mental limitations, brain damage or brain trauma were seen as unalterable. We see a woman born with half a brain that rewired itself to work as a whole, blind people who learn to see, learning disorders cured, IQs raised, aging brains rejuvenated, stroke patients learning to speak, children with cerebral palsy learning to move with more grace, depression and anxiety disorders successfully treated, and lifelong character traits changed. Using these marvelous stories to probe mysteries of the body, emotion, love, sex, culture, and education, Dr. Doidge has written an immensely moving, inspiring book that will permanently alter the way we look at our brains, human nature, and human potential.

Visual Complexity - Manuel Lima 2013-09-10
Manuel Lima's smash hit Visual Complexity is now available in paperback. This groundbreaking 2011 book—the first to combine a thorough history of information visualization with a detailed look at today's most innovative applications—clearly illustrates why making meaningful connections inside complex data networks has emerged as one of the biggest challenges in twenty-first-century design. From diagramming networks of friends on Facebook to depicting interactions among proteins in a human cell, Visual Complexity presents one hundred of the most interesting examples of informationvisualization by the field's leading practitioners.

The Giving Tree - Shel Silverstein 2014-02-18
As The Giving Tree turns fifty, this timeless classic is available for the first time ever in ebook format. This digital edition allows young readers and lifelong fans to continue the legacy and love of a classic that will now reach an even wider audience. "Once there was a tree...and she loved a little boy." So begins a story of unforgettable perception, beautifully written and illustrated by the gifted and versatile Shel Silverstein. This moving parable for all ages offers a touching interpretation of the gift of giving and a serene acceptance of another's capacity to love in return. Every day the boy would come to the tree to eat her apples, swing from her branches, or slide down her trunk...and the tree was happy. But as the boy grew older he began to want more from the tree, and the tree gave and gave and gave. This is a tender story, touched with sadness, aglow with consolation. Shel Silverstein's incomparable career as a bestselling children's book author and illustrator began with Lafcadio, the Lion Who Shot Back. He is also the creator of picture books including A Giraffe and a Half, Who Wants a Cheap Rhinoceros?, The Missing Piece, The Missing Piece Meets the Big O, and the perennial favorite The Giving Tree, and of classic poetry collections such as Where the Sidewalk Ends, A Light in the Attic, Falling Up, Every Thing On It, Don't Bump the Glump!, and Runny Babbit. And don't miss the other Shel Silverstein ebooks, Where the Sidewalk Ends and A Light in the Attic!

The context of natural forest management and FSC certification in Brazil - Claudia Romero 2015-12-30
Management decisions on appropriate practices and policies regarding tropical forests often need to be made in spite of innumerable uncertainties and complexities. Among the uncertainties are the lack of formalization of lessons learned regarding the impacts of previous programs and projects. Beyond the challenges of generating the proper information on these impacts, there are other difficulties that relate with how to socialize the information and knowledge gained so that change is transformational and enduring. The main complexities lie in understanding the interactions of social-ecological systems at different scales and how they varied through time in response to policy and other processes. This volume is part of a broad research effort to develop an independent evaluation of certification impacts with stakeholder input, which focuses on FSC certification of natural tropical forests. More specifically, the evaluation program aims at building the evidence base of the empirical biophysical, social, economic, and policy effects that FSC certification of natural forest has had in Brazil as well as in other tropical countries. The contents of this volume highlight the opportunities and constraints that those responsible for managing natural forests for timber production have experienced in their efforts to improve their practices in Brazil. As such, the goal of the studies in this volume is to serve as the foundation to design an impact evaluation framework of the impacts of FSC certification of natural forests in a participatory manner with interested parties, from institutions and organizations, to communities and individuals.

Cartographies of Time - Daniel Rosenberg 2013-07-02
Our critically acclaimed smash hit Cartographies of Time is now available in paperback. In this first comprehensive history of graphic representations of time, authors Daniel Rosenberg and Anthony Grafton have crafted a lively history featuring fanciful characters and unexpected twists and turns. From medieval manuscripts to websites, Cartographies of Time features a wide variety of timelines that in their own unique ways, curving, crossing, branching, defy conventional thinking about the form. A fifty-four-foot-long timeline from 1753 is mounted on a scroll and encased in a protective box. Another timeline uses the different parts of the human body to show the genealogies of Jesus Christ and the rulers of Saxony. Ladders created by missionaries in eighteenth-century Oregon illustrate Bible stories in a vertical format to convert Native Americans. Also included is the April 1912 Marconi North Atlantic Communication chart, which tracked ships, including the Titanic, at points in time rather than by their geographic location, alongside little-known works by famous figures, including a historical chronology by the mapmaker Gerardus Mercator and a chronological board game patented by Mark Twain. Presented in a lavishly illustrated edition, Cartographies of Time is a revelation to anyone interested in the role visual forms have played in our evolving conception of history

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.

Diagrammatic Representation and Inference - Amrita Basu 2021-09-21
This book constitutes the refereed proceedings of the 12th International Conference on the Theory and Application of Diagrams, Diagrams 2021, held virtually in September 2021. The 16 full papers and 25 short papers presented together with 16 posters were carefully reviewed and selected from 94 submissions. The papers are organized in the following topical

sections: design of concrete diagrams; theory of diagrams; diagrams and mathematics; diagrams and logic; new representation systems; analysis of diagrams; diagrams and computation; cognitive analysis; diagrams as structural tools; formal diagrams; and understanding thought processes. 10 chapters are available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

Domination of Nature - William Leiss 1994
A revision of the author's thesis, University of California, San Diego. Bibliography: p. 223-231.

Lucene in Action - Otis Gospodnetic 2010-07-08
When Lucene first hit the scene five years ago, it was nothing short ofamazing. By using this open-source, highly scalable, super-fast search engine,developers could integrate search into applications quickly and efficiently.A lot has changed since then-search has grown from a "nice-to-have" featureinto an indispensable part of most enterprise applications. Lucene now powerssearch in diverse companies including Akamai, Netflix, LinkedIn,Technorati, HotJobs, Epiphany, FedEx, Mayo Clinic, MIT, New ScientistMagazine, and many others. Some things remain the same, though. Lucene still delivers high-performancesearch features in a disarmingly easy-to-use API. Due to its vibrant and diverseopen-source community of developers and users, Lucene is relentlessly improving,with evolutions to APIs, significant new features such as payloads, and ahuge increase (as much as 8x) in indexing speed with Lucene 2.3. And with clear writing, reusable examples, and unmatched advice on bestpractices, Lucene in Action, Second Edition is still the definitive guide todeveloping with Lucene. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

Data Integration, Manipulation and Visualization of Phylogenetic Trees - Guangchuang Yu 2022
"Data Integration, Manipulation and Visualization of Phylogenetic Trees introduces and demonstrates data integration, manipulation and visualization of phylogenetic trees using a suite of R packages, tidytree, treeio, ggtree and ggtreeExtra. Using the most comprehensive packages for phylogenetic data integration and visualization, contains numerous examples that can be used for teaching and learning. Ideal for undergraduate readers and researchers with a working knowledge of R and ggplot2"--

Git Pocket Guide - Richard E. Silverman 2013-06-25
This pocket guide is the perfect on-the-job companion to Git, the distributed version control system. It provides a compact, readable introduction to Git for new users, as well as a reference to common commands and procedures for those of you with Git experience. Written for Git version 1.8.2, this handy task-oriented guide is organized around the basic version control functions you need, such as making commits, fixing mistakes, merging, and searching history. Examine the state of your project at earlier points in time Learn the basics of creating and making changes to a repository Create branches so many people can work on a project simultaneously Merge branches and reconcile the changes among them Clone an existing repository and share changes with push/pull commands Examine and change your repository's commit history Access remote repositories, using different network protocols Get recipes for accomplishing a variety of common tasks

The Book of the Tree - Angus Hyland 2021-03-04
From stately old oaks to beautiful forests and woods, The Book of the Tree is a collection of depictions of trees by artists, photographers and illustrators. Interspersed throughout the illustrations are short texts about the artists and their interest in particular trees, from Egon Shiele's delicate watercolors of chestnut trees, to Rousseau's exotic forests and Hockney's tree-lined groves. A wonderful collection for both art-lovers and lovers of the great outdoors.

The Things That I LOVE about TREES - Chris [VNVB] Butterworth 2019-04
A very young non-fiction picture book that looks at how a tree changes with the seasons, with charming illustrations from an internationally acclaimed artist. Learn how a plum tree changes with the seasons in this charming non-fiction picture book. Chris Butterworth's gentle, lyrical text describes how the buds of the plum tree bloom in the spring and how its leaves grow green and lush in the summer. Time goes by, and soon we see those same leaves fall in the autumn - now the branches are bare for the cold winter-months. With exquisite watercolour illustrations by Charlotte Voake, this is a book to treasure.

Bulletproof Problem Solving - Charles Conn 2019-03-04
Complex problem solving is the core skill for 21st Century Teams Complex problem solving is at the very top of the list of essential skills

for career progression in the modern world. But how problem solving is taught in our schools, universities, businesses and organizations comes up short. In Bulletproof Problem Solving: The One Skill That Changes Everything you'll learn the seven-step systematic approach to creative problem solving developed in top consulting firms that will work in any field or industry, turning you into a highly sought-after bulletproof problem solver who can tackle challenges that others balk at. The problem-solving technique outlined in this book is based on a highly visual, logic-tree method that can be applied to everything from everyday decisions to strategic issues in business to global social challenges. The authors, with decades of experience at McKinsey and Company, provide 30 detailed, real-world examples, so you can see exactly how the technique works in action. With this bulletproof approach to defining, unpacking, understanding, and ultimately solving problems, you'll have a personal superpower for developing compelling solutions in your workplace. Discover the time-tested 7-step technique to problem solving that top consulting professionals employ Learn how a simple visual system can help you break down and understand the component parts of even the most complex problems Build team brainstorming techniques that fight cognitive bias, streamline workplanning, and speed solutions Know when and how to employ modern analytic tools and techniques from machine learning to game theory Learn how to structure and communicate your findings to convince audiences and compel action The secrets revealed in Bulletproof Problem Solving will transform the way you approach problems and take you to the next level of business and personal success.

Gyn/Ecology - Mary Daly 2016-07-26
This revised edition includes a New Intergalactic Introduction by the Author. Mary Daly's New Intergalactic Introduction explores her process as a Crafty Pirate on the Journey of Writing Gyn/Ecology and reveals the autobiographical context of this "Thunderbolt of Rage" that she first hurled against the patriarchs in 1979 and no hurls again in the Re-Surging Movement of Radical Feminism in the Be-Dazzling Nineties.

Witness Tree - Lynda Mapes 2017-04-11
An intimate look at one majestic hundred-year-old oak tree through four seasons--and the reality of global climate change it reveals. In the life of this one grand oak, we can see for ourselves the results of one hundred years of rapid environmental change. It's leafing out earlier, and dropping its leaves later as the climate warms. Even the inner workings of individual leaves have changed to accommodate more CO2 in our atmosphere. Climate science can seem dense, remote, and abstract. But through the lens of this one tree, it becomes immediate and intimate. In Witness Tree, environmental reporter Lynda V. Mapes takes us through her year living with one red oak at the Harvard Forest. We learn about carbon cycles and leaf physiology, but also experience the seasons as people have for centuries, watching for each new bud, and listening for each new bird and frog call in spring. We savor the cadence of falling autumn leaves, and glory of snow and starry winter nights. Lynda takes us along as she climbs high into the oak's swaying boughs, and scientists core deep into the oak's heartwood, dig into its roots and probe the teeming life of the soil. She brings us eye-level with garter snakes and newts, and alongside the squirrels and jays devouring the oak's acorns. Season by season she reveals the secrets of trees, how they work, and sustain a vast community of lives, including our own. The oak is a living timeline and witness to climate change. While stark in its implications, Witness Tree is a beautiful and lyrical read, rich in detail, sweeps of weather, history, people, and animals. It is a story rooted in hope, beauty, wonder, and the possibility of renewal in people's connection to nature.

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.

Aristotle's Ladder, Darwin's Tree - J. David Archibald 2014-08-19
Leading paleontologist J. David Archibald explores the rich history of visual metaphors for biological order from ancient times to the present and their influence on humans' perception of their place in nature, offering uncommon insight into how we went from standing on the top rung of the biological ladder to embodying just one tiny twig on the tree of life. He begins with the ancient but still misguided use of ladders to show biological order, moving then to the use of trees to represent seasonal life cycles and genealogies by the Romans. The early Christian Church then appropriated trees to represent biblical genealogies. The late eighteenth century saw the tree reclaimed to visualize relationships in the natural world, sometimes with a creationist view, but in other instances suggesting evolution. Charles Darwin's On the Origin of Species (1859) exorcised the exclusively creationist view of the "tree of life," and his ideas sparked an explosion of trees, mostly by younger acolytes in Europe. Although Darwin's influence waned in the early twentieth century, by midcentury his ideas held sway once again in time for another and even greater explosion of tree building, generated by the development of new theories on how to assemble trees, the birth of powerful computing, and the emergence of molecular technology. Throughout Archibald's far-reaching study, and with the use of many figures, the evolution of "tree of life" iconography becomes entwined with our changing perception of the world and ourselves.

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

The Book of Circles - Manuel Lima 2017-05-02
In this follow-up to his hugely popular The Book of Trees and Visual Complexity, Manuel Lima takes us on a lively tour through millennia of circular information design. Three hundred detailed and colorful illustrations from around the world cover an encyclopedic array of subjects—architecture, urban planning, fine art, design, fashion, technology, religion, cartography, biology, astronomy, and physics, all based on the circle, the universal symbol of unity, wholeness, infinity, enlightenment, and perfection. Clay tokens used by ancient Sumerians as a system of recording trade are juxtaposed with logos of modern retailers like Target; Venn diagrams are discussed alongside the trefoil biohazard symbol, symbols of the Christian trinity, and the Olympic rings; and a diagram revealing the characteristics of ten thousand porn stars displays structural similarities to early celestial charts placing the earth at the center of the universe. Lima's introduction provides an authoritative history of the circle, and a preface describes his unique taxonomy of the many varieties of circle diagrams, rounding out this visual feast for infographics enthusiasts.

Modern Statistics for Modern Biology - SUSAN. HUBER HOLMES (WOLFGANG.) 2018

Compartmentalization of Decay in Trees - Alex L. Shigo 1977
The purpose of this publication is to show how most columns of discolored and decayed wood associated with trunk wounds in trees are compartmentalized.

Visualizing Data - Ben Fry 2008
Provides information on the methods of visualizing data on the Web, along with example projects and code.

Patterns in Nature - Philip Ball 2016-04-05
The acclaimed science writer "curates a visually striking, riotously colorful photographic display...of physical patterns in the natural world" (Publishers Weekly, starred review). Though at first glance the natural world may appear overwhelming in its diversity and complexity, there are regularities running through it, from the hexagons of a honeycomb to the spirals of a seashell and the branching veins of a leaf. Revealing the order at the foundation of the seemingly chaotic natural world, Patterns in Nature explores not only the math and science but also the beauty and artistry behind nature's awe-inspiring designs. Unlike the patterns we create, natural patterns are formed spontaneously from the forces that act in the physical world. Very often the same types of pattern and form—such as spirals, stripes, branches, and fractals—recur in places that seem to have nothing in common, as when the markings of a zebra mimic the ripples in windblown sand. But many of these patterns can be described using the same mathematical and physical principles, giving a surprising unity to the kaleidoscope of the natural world. Richly illustrated with 250 color photographs and anchored by accessible and insightful chapters by esteemed science writer Philip Ball, Patterns in

Nature reveals the organization at work in vast and ancient forests, powerful rivers, massing clouds, and coastlines carved out by the sea. By exploring similarities such as the branches of a tree and those of a river network, this spectacular visual tour conveys the wonder, beauty, and richness of natural pattern formation.

How Charts Lie: Getting Smarter about Visual Information - Alberto Cairo 2019-10-15
A leading data visualization expert explores the negative—and positive—influences that charts have on our perception of truth. We've all heard that a picture is worth a thousand words, but what if we don't understand what we're looking at? Social media has made charts, infographics, and diagrams ubiquitous—and easier to share than ever. We associate charts with science and reason; the flashy visuals are both appealing and persuasive. Pie charts, maps, bar and line graphs, and scatter plots (to name a few) can better inform us, revealing patterns and trends hidden behind the numbers we encounter in our lives. In short, good charts make us smarter—if we know how to read them. However, they can also lead us astray. Charts lie in a variety of ways—displaying incomplete or inaccurate data, suggesting misleading patterns, and concealing uncertainty—or are frequently misunderstood, such as the confusing cone of uncertainty maps shown on TV every hurricane season. To make matters worse, many of us are ill-equipped to interpret the visuals that politicians, journalists, advertisers, and even our employers present each day, enabling bad actors to easily manipulate them to promote their own agendas. In How Charts Lie, data visualization expert Alberto Cairo teaches us to not only spot the lies in deceptive visuals, but also to take advantage of good ones to understand complex stories. Public conversations are increasingly propelled by numbers, and to make sense of them we must be able to decode and use visual information. By examining contemporary examples ranging from election-result infographics to global GDP maps and box-office record charts, How Charts Lie demystifies an essential new literacy, one that will make us better equipped to navigate our data-driven world.

Pro Git - Scott Chacon 2014-11-18
Pro Git (Second Edition) is your fully-updated guide to Git and its usage in the modern world. Git has come a long way since it was first developed by Linus Torvalds for Linux kernel development. It has taken the open source world by storm since its inception in 2005, and this book teaches you how to use it like a pro. Effective and well-implemented version control is a necessity for successful web projects, whether large or small. With this book you'll learn how to master the world of distributed version workflow, use the distributed features of Git to the full, and extend Git to meet your every need. Written by Git pros Scott Chacon and Ben Straub, Pro Git (Second Edition) builds on the hugely successful first edition, and is now fully updated for Git version 2.0, as well as including an indispensable chapter on GitHub. It's the best book for all your Git needs.

Little Tree - Loren Long 2015-10-27
For graduates, for their parents, for anyone facing change, here is a gorgeously illustrated and stunningly heartfelt ode to the challenges of growing up and letting go. A story of the seasons and stepping stones as poignant for parents as for their kids, from the creator of Otis the tractor and illustrator of Love by Matt de la Pena. "Long's gentle but powerful story about a young tree who holds tight to his leaves, even as everyone else lets theirs drop, takes on nothing less than the pain and sorrow of growing up. . . . As in Long's unaccountably profound books about Otis the tractor, a pure white background somehow adds to the depth."—The New York Times Book Review In the middle of a little forest, there lives a Little Tree who loves his life and the splendid leaves that keep him cool in the heat of long summer days. Life is perfect just the way it is. Autumn arrives, and with it the cool winds that ruffle Little Tree's leaves. One by one the other trees drop their leaves, facing the cold of winter head on. But not Little Tree—he hugs his leaves as tightly as he can. Year after year Little Tree remains unchanged, despite words of encouragement from a squirrel, a fawn, and a fox, his leaves having long since turned brown and withered. As Little Tree sits in the shadow of the other trees, now grown sturdy and tall as though to touch the sun, he remembers when they were all the same size. And he knows he has an important decision to make. From #1 New York Times bestselling Loren Long comes a gorgeously-illustrated story that challenges each of us to have the courage to let go and to reach for the sun. Praise for Little Tree * "The illustrations are beautifully rendered . . . Understated and inviting, young readers will be entranced by Little Tree's difficult but ultimately rewarding journey."—Booklist, starred review "Long's gentle but powerful story about a young tree who holds tight to his leaves, even as

everyone else lets theirs drop, takes on nothing less than the pain and sorrow of growing up. Season after season, Little Tree clings to his brown-leaved self until he can take a leap and shed his protection. He feels 'the harsh cold of winter,' but soon grows tall and green, and it's not bad at all. As in Long's unaccountably profound books about Otis the tractor, a pure white background somehow adds to the depth."—The New York Times Book Review * "[Long's] willingness to take his time and even test the audience's patience with his arboreal hero's intransigence results in an ending that's both a big relief and an authentic triumph. Long's earnest-eloquent narrative voice and distilled, single-plane drawings, both reminiscent of an allegorical pageant, acknowledge the reality of the struggle while offering the promise of brighter days ahead."—Publishers Weekly, starred review "Long is sparing with the text, keeping it simple and beautifully descriptive. Brilliantly colored illustrations done in acrylic, ink, and pencil stand out on bright white pages, with Little Tree taking the center position in each double-page spread. Tender and gentle and altogether lovely."—Kirkus Reviews "Children will see the tree facing the scariness of change; adult readers may well feel wistful as the story underscores the need to let their babies grow toward independence. Beautiful. Grade: A"—Cleveland Plain Dealer
The Complete Pattern Directory - Elizabeth Wilhide 2018-11-06
An essential resource for any designer, crafter, artist, or historian, THE COMPLETE PATTERN DIRECTORY is the most comprehensive, practical, and beautiful directory of patterns throughout history, covering all periods, styles, and cultures. Throughout history, patterns have come in countless permutations of motif, color, and scale. From the first rhythmic marks pressed onto clay vessels, to the latest digital design, pattern-making has been an essential part of the decorative arts since time immemorial. With 1500 illustrations of patterns from all ages and cultures, THE COMPLETE PATTERN DIRECTORY is not only a visual feast, it is the most comprehensive resource available on the subject. The book is arranged thematically according to pattern type, with chapters on Flora, Fauna, Pictorial, Geometric, and Abstract designs. Each pattern includes the name of the pattern, the year of its creation, and a brief description. The categories are supplemented by in-depth features highlighting the work of key designers including William Morris, Sonia Delaunay, Charles and Ray Eames, Lucienne Day, and Orla Kiely, as well as sections detailing the characteristic motifs of key period styles from Baroque to Art Deco.
Info We Trust - RJ Andrews 2019-01-03
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.
W. E. B. Du Bois's Data Portraits - The W.E.B. Du Bois Center at the University of Massachusetts Amherst 2018-11-06
The colorful charts, graphs, and maps presented at the 1900 Paris Exposition by famed sociologist and black rights activist W. E. B. Du Bois offered a view into the lives of black Americans, conveying a literal and figurative representation of "the color line." From advances in education to the lingering effects of slavery, these prophetic infographics —beautiful in design and powerful in content—make visible a wide spectrum of black experience. W. E. B. Du Bois's Data Portraits collects the complete set of graphics in full color for the first time, making their insights and innovations available to a contemporary imagination. As Maria Popova wrote, these data portraits shaped how "Du Bois himself thought about sociology, informing the ideas with which he set the world ablaze three years later in The Souls of Black Folk."