100 Diagrams That Changed The World From Earliest Cave Paintings To Innovation Of Ipod Scott Christianson

From the fury of the Punic Wars to the icy waters of Dunkirk, relive 5,000 years of world-changing combat with this guide to the most famous battles in history, including a foreword from TV presenter and historian Sir Tony Robinson. This military history book takes you on a journey through the battlefields of history, from the ancient world to the American Civil War, World War 1, World War 2, the Cold War, and beyond. Maps, paintings, and photographs reveal the stories behind more than 90 of the most important battles ever to take place, and show how fateful decisions led to glorious victories and crushing defeats. From medieval battles and great naval battles to the era of high-tech air battles, key campaigns are illustrated and analysed in detail - the weapons, the soldiers, and the military strategy. Famous military leaders are profiled, including Alexander the Great, Napoleon, and Rommel, and crucial arms, armour, and equipment are explained. Whether at Marathon, Agincourt, Gettysburg, or Stalingrad, Battles that Changed History takes you into the thick of combat and shows how kingdoms and empires have been won and lost on the battlefield.

Radical Candor is the sweet spot between managers who are obnoxiously aggressive on the one side and ruinously empathetic on the other. It is about providing guidance, which involves a mix of praise as well as criticism, delivered to produce better results and help employees develop their skills and boundaries of success. Great bosses have a strong relationship with their employees, and Kim Scott Malone has identified three simple principles for building better relationships with your employees: make it personal, get stuff done, and understand why it matters. Radical Candor offers a guide to those bewildered or exhausted by management, written for bosses and those who manage bosses. Drawing on years of first-hand experience, and distilled clearly to give actionable lessons to the reader, Radical Candor shows how to be successful while retaining your integrity and humanity. Radical Candor is the perfect handbook for those who are looking to find meaning in their job and create an environment where people both love their work, their colleagues and are motivated to strive to ever greater success.

Get up to speed on the latest Ethernet capabilities for building and maintaining networks for everything from homes and offices to data centers and server machine rooms. This thoroughly revised, comprehensive guide covers a wide range of Ethernet technologies, from basic operation to network management, based on the authors' many years of field experience. When should you upgrade to higher speed Ethernet? How do you use switches to build larger networks? How do you troubleshoot the system? This book provides the answers. If you're looking to build a scalable network with Ethernet to satisfy greater bandwidth and market requirements, this book is indeed the definitive guide. Examine the most widely used media systems, as well as advanced 40 and 100 gigabit Ethernet Learn about Ethernet's four basic elements and the IEEE standards Explore full-duplex Ethernet, Power over Ethernet, and Energy Efficient Ethernet Understand structured cabling systems and the components you need to build your Ethernet system Use Ethernet switches to expand and improve network design Delve into Ethernet performance, from specific channels to the entire network Get troubleshooting techniques for problems common to twisted-pair and fiber optic systems

One of the most time-consuming tasks in clinical medicine is seeking the opinions of specialist colleagues. There is a pressure not only to make referrals appropriate but also to summarize the case in the language of the specialist. This book explains basic physiologic and pathophysiologic mechanisms of cardiovascular disease in a straightforward manner, gives guidelines as to when referral is appropriate, and, uniquely, explains what the specialist is likely to do. It is ideal for any hospital doctor, generalist, or even senior medical student who may need a cardiology opinion, or for that ma.

INSTANT NEW YORK TIMES BESTSELLER A NEW YORK TIMES NOTABLE BOOK OF 2018 ONE OF THE ECONOMIST'S BOOKS OF THE YEAR "My new favorite book of all time." --Bill Gates If you think the world is coming to an end, think again: people are living longer, healthier, freer, and happier lives, and while our problems are formidable, the solutions lie in the Enlightenment ideal of using reason and science. By the author of the new book, Rationality. Is the world really falling apart? Is the ideal of progress obsolete? In this elegant assessment of the human condition in the third millennium, cognitive scientist and public intellectual Steven Pinker urges us to step back from the gory headlines and prophecies of doom, which play to our psychological biases. Instead, follow the data: In seventy-five jaw-dropping graphs, Pinker shows that life, health, prosperity, safety, peace, knowledge, and happiness are on the rise, not just in the West, but worldwide. This progress is not the result of some cosmic force. It is a gift of the Enlightenment: the conviction that reason and science can enhance human flourishing. Far from being a naïve hope, the Enlightenment, we now know, has worked. But more than ever, it needs a vigorous defense. The Enlightenment project swims against currents of human nature--tribalism, authoritarianism, demonization, magical thinking--which demagogues are all too willing to exploit. Many commentators, committed to political, religious, or romantic ideologies, fight a rearguard action against it. The result is a corrosive fatalism and a willingness to wreck the precious institutions of liberal democracy and global cooperation. With intellectual depth and literary flair, Enlightenment Now makes the case for reason, science, and humanism: the ideals we need to confront our problems and continue our progress.

In the years following her role as the lead author of the international bestseller, Limits to Growth—the first book to show the consequences of unchecked growth on a finite planet— Donella Meadows remained a pioneer of environmental and social analysis until her untimely death in 2001. Thinking in Systems, is a concise and crucial book offering insight for problem solving on scales ranging from the personal to the global. Edited by the Sustainability Institute's Diana Wright, this essential primer brings systems thinking out of the realm of computers and equations and into the tangible world, showing readers how to develop the systems-thinking skills that thought leaders across the globe consider critical for 21st-century life. Some of the biggest problems facing the world—war, hunger, poverty, and environmental degradation—are essentially system failures. They cannot be solved by fixing one piece in isolation from the others, because even seemingly minor details have enormous power to undermine the best efforts of too-narrow thinking. While readers will learn the conceptual tools and methods of systems thinking, the heart of the book is grander than methodology. Donella Meadows was known as much for nurturing positive outcomes as she was for delving into the science behind global dilemmas. She reminds readers to pay attention to what is important, not just what is quantifiable, to stay humble, and to stay a learner. In a world growing ever more complicated, crowded, and interdependent, Thinking in Systems helps readers avoid confusion and helplessness, the first step toward finding proactive and effective solutions.

100 Diagrams That Changed The World is a fascinating collection of the most significant plans, sketches, drawings and illustrations that have changed the way we think about the world. From primitive cave paintings to the complicated DNA double helix drawn by Crick and Watson, they chart dramatic breakthroughs in our understanding of the world and its history. This fascinating book encompasses everything from the triple spirals found on prehistoric megalithic tombs dating right up to the drawings sent out on the side of space exploration probes. Discover Leonardo da Vinci's beautiful technical drawings, pre-empting the invention of manned flight, Copernicus's bold diagrams that dared to tell us that Earth was not at the centre of the Universe, as well as the history of the more everyday diagrams that we now take for granted. Every diagram is clearly illustrated and placed into context with very accessible text even for the lay reader. Diagrams include: Egyptian Book of the Dead, Chauvet cave drawings, Aztec Calendar, sheet music, Vitruvian Man, Galileo's telescope, Hooke's Micrographia, the Porphyrian Tree, Dunhuang Star Map, Newcomen's steam engine, the Morse Code, Brooks Slave Ship, William Playfair's bar chart, Thomas Edison's light bulb, Nazi propaganda map, sewing patterns, Feynman Diagrams, the DNA double helix, IKEA flat-pack furniture instructions, the World Wide Web schematic, Carl Sagan's Pioneer Plaque.

• New York Times bestseller • The 100 most substantive solutions to reverse global warming, based on meticulous research by leading

scientists and policymakers around the world “At this point in time, the Drawdown book is exactly what is needed; a credible, conservative solution-by-solution narrative that we can do it. Reading it is an effective inoculation against the widespread perception of doom that humanity cannot and will not solve the climate crisis. Reported by-effects include increased determination and a sense of grounded hope.” —Per Espen Stoknes, Author, What We Think About When We Try Not To Think About Global Warming “There’s been no real way for ordinary people to get an understanding of what they can do and what impact it can have. There remains no single, comprehensive, reliable compendium of carbon-reduction solutions across sectors. At least until now. . . . The public is hungry for this kind of practical wisdom.” —David Roberts, Vox “This is the ideal environmental sciences textbook—only it is too interesting and inspiring to be called a textbook.” —Peter Kareiva, Director of the Institute of the Environment and Sustainability, UCLA In the face of widespread fear and apathy, an international coalition of researchers, professionals, and scientists have come together to offer a set of realistic and bold solutions to climate change. One hundred techniques and practices are described here—some are well known; some you may have never heard of. They range from clean energy to educating girls in lower-income countries to land use practices that pull carbon out of the air. The solutions exist, are economically viable, and communities throughout the world are currently enacting them with skill and determination. If deployed collectively on a global scale over the next thirty years, they represent a credible path forward, not just to slow the earth’s warming but to reach drawdown, that point in time when greenhouse gases in the atmosphere peak and begin to decline. These measures promise cascading benefits to human health, security, prosperity, and well-being—giving us every reason to see this planetary crisis as an opportunity to create a just and livable world.

#1 NEW YORK TIMES BEST SELLER • In this urgent, authoritative book, Bill Gates sets out a wide-ranging, practical—and accessible—plan for how the world can get to zero greenhouse gas emissions in time to avoid a climate catastrophe. Bill Gates has spent a decade investigating the causes and effects of climate change. With the help of experts in the fields of physics, chemistry, biology, engineering, political science, and finance, he has focused on what must be done in order to stop the planet's slide to certain environmental disaster. In this book, he not only explains why we need to work toward net-zero emissions of greenhouse gases, but also details what we need to do to achieve this profoundly important goal. He gives us a clear-eyed description of the challenges we face. Drawing on his understanding of innovation and what it takes to get new ideas into the market, he describes the areas in which technology is already helping to reduce emissions, where and how the current technology can be made to function more effectively, where breakthrough technologies are needed, and who is working on these essential innovations. Finally, he lays out a concrete, practical plan for achieving the goal of zero emissions—suggesting not only policies that governments should adopt, but what we as individuals can do to keep our government, our employers, and ourselves accountable in this crucial enterprise. As Bill Gates makes clear, achieving zero emissions will not be simple or easy to do, but if we follow the plan he sets out here, it is a goal firmly within our reach.

100 Documents That Changed the World brings together the most important written agreements, declarations and statements in history. The documents included here have changed the course of history by rewriting laws, granting freedoms and laying out constitutions. But as well as official charters and presidential proclamations, there are also the hand-written documents that have gone on to shape the way we think, the scrawled notes that mark breakthroughs in the worlds of science and technology, and the annotated manuscripts that have become literary landmarks. Documents included: Magna Carta (1215); Shakespeare’s First Folio (1623); Declaration of independence (1776); Constitution of the United States (1787); Louisiana Purchase (1803); Darwin’s Evolutionary Tree (1837); Gettysburg Address (1863); Treaty of Versailles (1919); German Surrender (1945); Martin Luther King, Jr's “I Have A Dream” speech (1963); First Website (1991); Edward Snowden Files (2013).

INSTANT NEW YORK TIMES BESTSELLER! Now being developed as a television series with Eva Longoria and ABC! “Rarely have I read a book that challenged me to see myself in an entirely new light, and was at the same time laugh-out-loud funny and utterly absorbing.”—Katie Couric “This is a daring, delightful, and transformative book.”—Arianna Huffington, Founder, Huffington Post and Founder & CEO, Thrive Global “Wise, warm, smart, and funny. You must read this book.”—Susan Cain, New York Times best-selling author of Quiet From a New York Times best-selling author, psychotherapist, and national advice columnist, a hilarious, thought-provoking, and surprising new book that takes us behind the scenes of a therapist’s world—where her patients are looking for answers (and so is she). One day, Lori Gottlieb is a therapist who helps patients in her Los Angeles practice. The next, a crisis causes her world to come crashing down. Enter Wendell, the quirky but seasoned therapist in whose office she suddenly lands. With his balding head, cardigan, and khakis, he seems to have come straight from Therapist Central Casting. Yet he will turn out to be anything but. As Gottlieb explores the inner chambers of her patients’ lives — a self-absorbed Hollywood producer, a young newlywed diagnosed with a terminal illness, a senior citizen threatening to end her life on her birthday if nothing gets better, and a twenty-something who can’t stop hooking up with the wrong guys — she finds that the questions they are struggling with are the very ones she is now bringing to Wendell. With startling wisdom and humor, Gottlieb invites us into her world as both clinician and patient, examining the truths and fictions we tell ourselves and others as we teeter on the tightrope between love and desire, meaning and mortality, guilt and redemption, terror and courage, hope and change. Maybe You Should Talk to Someone is revolutionary in its candor, offering a deeply personal yet universal tour of our hearts and minds and providing the rarest of gifts: a boldly revealing portrait of what it means to be human, and a disarmingly funny and illuminating account of our own mysterious lives and our power to transform them.

"A 22-volume, highly illustrated, A-Z general encyclopedia for all ages, featuring sections on how to use World Book, other research aids, pronunciation key, a student guide to better writing, speaking, and research skills, and comprehensive index"--

New York Times Bestseller A Summer Reading Pick for President Barack Obama, Bill Gates, and Mark Zuckerberg From a renowned historian comes a groundbreaking narrative of humanity’s creation and evolution—a #1 international bestseller—that explores the ways in which biology and history have defined us and enhanced our understanding of what it means to be “human.” One hundred thousand years ago, at least six different species of humans inhabited Earth. Yet today there is only one—homo sapiens. What happened to the others? And what may happen to us? Most books about the history of humanity pursue either a historical or a biological approach, but Dr. Yuval Noah Harari breaks the mold with this highly original book that begins about 70,000 years ago with the appearance of modern cognition. From examining the role evolving humans have played in the global ecosystem to charting the rise of empires, Sapiens integrates history and science to reconsider accepted narratives, connect past developments with contemporary concerns, and examine specific events within the context of larger ideas. Dr. Harari also compels us to look ahead, because over the last few decades humans have begun to bend laws of natural selection that have governed life for the past four billion years. We are acquiring the ability to design not only the world around us, but also ourselves. Where is this leading us, and what do we want to become? Featuring 27 photographs, 6 maps, and 25 illustrations/diagrams, this provocative and insightful work is sure to spark debate and is essential reading for aficionados of Jared Diamond, James Gleick, Matt Ridley, Robert Wright, and Sharon Moalem.

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."

Jay Shetty, social media superstar and host of the #1 podcast On Purpose, distills the timeless wisdom he learned as a monk into practical steps anyone can take every day to live a less anxious, more meaningful life. When you think like a monk, you'll understand: -How to overcome negativity -How to stop overthinking -Why comparison kills love -How to use your fear -Why you can't find happiness by looking for it -How to learn from everyone you meet -Why you are not your thoughts -How to find your purpose -Why kindness is crucial to success -And much more... Shetty grew up in a family where you could become one of three things—a doctor, a lawyer, or a failure. His family was convinced he had chosen option three: instead of attending his college graduation ceremony, he headed to India to become a monk, to meditate every day for four to eight hours, and devote his life to helping others. After three years, one of his teachers told him that he would have more impact on the world if he left the monk's path to share his experience and wisdom with others. Heavily in debt, and with no recognizable skills on his re?sume?, he moved back home in north London with his parents. Shetty reconnected with old school friends—many working for some of the world's largest corporations—who were experiencing tremendous stress, pressure, and unhappiness, and they invited Shetty to coach them on well-being, purpose, and mindfulness. Since then, Shetty has become one of the world's most popular influencers. In 2017, he was named in the Forbes magazine 30-under-30 for being a game-changer in the world of media. In 2018, he had the #1 video on Facebook with over 360 million views. His social media following totals over 38 million, he has produced over 400 viral videos which have amassed more than 8 billion views, and his podcast, On Purpose, is consistently ranked the world's #1 Health and Wellness podcast. In this inspiring, empowering book, Shetty draws on his time as a monk to show us how we can clear the roadblocks to our potential and power. Combining ancient wisdom and his own rich experiences in the ashram, Think Like a Monk reveals how to overcome negative thoughts and habits, and access the calm and purpose that lie within all of us. He transforms abstract lessons into advice and exercises we can all apply to reduce stress, improve relationships, and give the gifts we find in ourselves to the world. Shetty proves that everyone can—and should—think like a monk.

Customers who have inconsistent experiences with products and services are understandably frustrated. But it's worse for organizations that can't pinpoint the causes of these problems because they're too focused on processes. This updated book shows your team how to use alignment diagrams to turn valuable customer observations into actionable insight. With this powerful technique, you can visually map existing customer experience and envision future solutions. Designers, product and brand managers, marketing specialists, and business owners will discover how experience diagramming helps you determine where business goals and customer perspectives intersect. Armed with this insight, you can provide the people you serve with real value. Mapping experiences isn't just about product and service design; it's about understanding the human condition. Emphasize recent changes in business using the latest mapping techniques Create diagrams that account for multichannel experiences as well as ecosystem design Understand how facilitation is increasingly becoming part of mapping efforts, shifting the focus from a deliverable to actionability Explore ways to apply mapping of all kinds to noncommercial settings, such as helping victims of domestic violence

Originally published: London: Pavilion Books, 2015.

Named one of the Best Fall Cookbooks 2020 by The New York Times, Eater, Epicurious, Food & Wine, Forbes, Saveur, Serious Eats, The Smithsonian, The San Francisco Chronicle, The Los Angeles Times, The Boston Globe, The Chicago Tribune, CNN Travel, The Kitchn, Chowhound, NPR, The Art of Eating Longlist 2021 and many more; plus international media attention including The Financial times, The Globe and Mail, The Telegraph, The Guardian, The Independent, The Times (U.K.), Delicious Magazine (U.K.), The Times (Ireland), and Vogue India and winner of The Guild of U.K. Food Writers (General Cookbook). Finalist for the 2021 IACP Cookbook Award. "The Flavor Equation" deserves space on the shelf right next to "Salt, Fat, Acid, Heat" as a titan of the how-and-why brigade."– The New Yorker "Deep and illuminating, fresh and highly informative... a most brilliant achievement." – Yotam Ottolenghi "[A] beautiful and intelligent book." – J. Kenji López-Alt, author The Food Lab and Chief Consultant for Serious Eats.com Aroma, texture, sound, emotion—these are just a few of the elements that play into our perceptions of flavor. The Flavor Equation demonstrates how to convert approachable spices, herbs, and commonplace pantry items into tasty, simple dishes. In this groundbreaking book, Nik Sharma, scientist, food blogger, and author of the buzz-generating cookbook Season, guides home cooks on an exploration of flavor in more than 100 recipes. • Provides inspiration and knowledge to both home cooks and seasoned chefs • An in-depth exploration into the science of taste • Features Nik Sharma's evocative, trademark photography style The Flavor Equation is an accessible guide to elevating elemental ingredients to make delicious dishes that hit all the right notes, every time. Recipes include Brightness: Lemon-Lime Mintade, Saltiness: Roasted Tomato and Tamarind Soup, Sweetness: Honey Turmeric Chicken Kebabs with Pineapple, Savoriness: Blistered Shishito Peppers with Bonito Flakes, and Richness: Coconut Milk Cake. • A global, scientific approach to cooking from bestselling cookbook author Nik Sharma • Dives deep into the most basic of our pantry items—salts, oils, sugars, vinegars, citrus, peppers, and more • Perfect gift for home cooks who want to learn more beyond recipes, those interested in the science of food and flavor, and readers of Lucky Peach, Serious Eats, Indian-Ish, and Koreatown • Add it to the shelf with cookbooks like The Food Lab: Better Home Cooking Through Science by J. Kenji López-Alt; Ottolenghi Flavor: A Cookbook by Yotam Ottolenghi; and Salt, Fat, Acid, Heat: Mastering the Elements of Good Cooking by Samin Nosrat.

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.

The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

The former graphics director of TIME magazine offers a unique look at everyday activities, depicting them through clear and precise step-by-step pictures that shed fascinating new light on common actions. 50,000 first printing.

This presentation describes various aspects of the regulation of tissue oxygenation, including the roles of the circulatory system, respiratory system, and blood, the carrier of oxygen within these components of the cardiorespiratory system. The respiratory system takes oxygen from the atmosphere and transports it by diffusion from the air in the alveoli to the blood flowing through the pulmonary capillaries. The cardiovascular system then moves the oxygenated blood from the heart to the microcirculation of the various organs by convection, where oxygen is released from hemoglobin in the red blood cells and moves to the parenchymal cells of each tissue by diffusion. Oxygen that has diffused into cells is then utilized in the mitochondria to produce adenosine triphosphate (ATP), the energy currency of all cells. The mitochondria are able to produce ATP until the oxygen tension or PO2 on the cell surface falls to a critical level of about 4–5 mm Hg. Thus, in order to meet the energetic needs of cells, it is important to maintain a continuous supply of oxygen to the mitochondria at or above the critical PO2 . In order to accomplish this desired outcome, the cardiorespiratory system, including the blood, must be capable of regulation to ensure survival of all tissues under a wide range of circumstances. The purpose of this presentation is to provide basic information about the operation and regulation of the cardiovascular and respiratory systems, as well as the properties of the blood and parenchymal cells, so that a fundamental understanding of the regulation of tissue oxygenation is achieved.

In his New York Times bestseller Steal Like an Artist, Austin Kleon showed readers how to unlock their creativity by “stealing” from the community of other movers and shakers. Now, in an even more forward-thinking and necessary book, he shows how to take that critical next step on a creative journey—getting known. Show Your Work! is about why generosity trumps genius. It’s about getting findable, about using the network instead of wasting time “networking.” It’s not self-promotion, it’s self-discovery—let others into your process, then let them steal from you. Filled with illustrations, quotes, stories, and examples, Show Your Work! offers ten transformative rules for being open, generous, brave, productive. In chapters such as You Don’t Have to Be a Genius; Share Something Small Every Day; and Stick Around, Kleon creates a user’s manual for embracing the communal nature of creativity— what he calls the “ecology of talent.” From broader life lessons about work (you can’t find your voice if you don’t use it) to the etiquette of sharing—and the dangers of oversharing—to the practicalities of Internet life (build a good domain name; give credit when credit is due), it’s an inspiring manifesto for succeeding as any kind of artist or entrepreneur in the digital age.

Business transformation typically involves a wide range of visualisation techniques, from the templates and diagrams used by managers to make better strategic choices, to the experience maps used by designers to understand customer needs, the technical models used by architects to propose possible solutions, and the pictorial representations used by change managers to engage stakeholder groups in dialogue. Up until now these approaches have always been dealt with in isolation, in the literature as well as in practice. This is surprising, because although they can look very different, and tend to be produced by distinct groups of people, they are all modelling different aspects of the same thing. Visualising Business Transformation draws them together for the first time into a coherent whole, so that readers from any background can expand their repertoire and understand the context and rationale for each technique across the transformation lifecycle. The book will appeal to a broad spectrum of readers involved in change, whether that is by creating change models themselves (strategists, architects, designers, engineers, business analysts, developers, illustrators, graphic facilitators, etc.), interpreting and using them (sponsors, business change managers, portfolio/programme/project managers, communicators, change champions, etc.), or supporting those involved in change indirectly (trainers, coaches, mentors, higher education establishments and professional training facilities).

Summary Entity Framework Core in Action teaches you how to access and update relational data from .NET applications. Following the crystal-clear explanations, real-world examples, and around 100 diagrams, you'll discover time-saving patterns and best practices for security, performance tuning, and unit testing. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology There's a

mismatch in the way OO programs and relational databases represent data. Entity Framework is an object-relational mapper (ORM) that bridges this gap, making it radically easier to query and write to databases from a .NET application. EF creates a data model that matches the structure of your OO code so you can query and write to your database using standard LINQ commands. It will even automatically generate the model from your database schema. About the Book Using crystal-clear explanations, real-world examples, and around 100 diagrams, Entity Framework Core in Action teaches you how to access and update relational data from .NET applications. You'l start with a clear breakdown of Entity Framework, long with the mental model behind ORM. Then you'll discover time-saving patterns and best practices for security, performance tuning, and even unit testing. As you go, you'll address common data access challenges and learn how to handle them with Entity Framework. What's Inside Querying a relational database with LINQ Using EF Core in business logic Integrating EF with existing C# applications Applying domain-driven design to EF Core Getting the best performance out of EF Core Covers EF Core 2.0 and 2.1 About the Reader For .NET developers with some awareness of how relational databases work. About the Author Jon P Smith is a full-stack developer with special focus on .NET Core and Azure. Table of Contents Part 1 - Getting started Introduction to Entity FrameworkCore Querying the database Changing the database content Using EF Core in business logic Using EF Core in ASP.NET Core web applications Part 2 - Entity Framework in depth Configuring nonrelational properties Configuring relationships Configuring advanced features and handling concurrency conflicts Going deeper into the DbContext Part 3 - Using Entity Framework Core in real-world applications Useful software patterns for EF Core applications Handling database migrations EF Core performance tuning A worked example of performance tuning Different database types and EF Core services Unit testing EF Core applications Appendix A - A brief introduction to LINQ Appendix B - Early information on EF Core version 2.1

The sole survivor on a desperate, last-chance mission to save both humanity and the earth, Ryland Grace is hurtled into the depths of space when he must conquer an extinction-level threat to our species.

A deeply-reported examination of why "doing what you love" is a recipe for exploitation, creating a new tyranny of work in which we cheerily acquiesce to doing jobs that take over our lives. You're told that if you "do what you love, you'll never work a day in your life." Whether it's working for "exposure" and "experience," or enduring poor treatment in the name of "being part of the family," all employees are pushed to make sacrifices for the privilege of being able to do what we love. In Work Won't Love You Back, Sarah Jaffe, a preeminent voice on labor, inequality, and social movements, examines this "labor of love" myth -- the idea that certain work is not really work, and therefore should be done out of passion instead of pay. Told through the lives and experiences of workers in various industries -- from the unpaid intern, to the overworked teacher, to the nonprofit worker and even the professional athlete -- Jaffe reveals how all of us have been tricked into buying into a new tyranny of work. As Jaffe argues, understanding the trap of the labor of love will empower us to work less and demand what our work is worth. And once freed from those binds, we can finally figure out what actually gives us joy, pleasure, and satisfaction.

For thousands of years, tracking animals meant following footprints. Now satellites, drones, camera traps, cellphone networks, apps and accelerometers allow us to see the natural world like never before. Geographer James Cheshire and designer Oliver Uberti take you to the forefront of this animal-tracking revolution. Meet the scientists gathering wild data - from seals mapping the sea to baboons making decisions, from birds dodging tornadoes to jaguars taking selfies. Join the journeys of sharks, elephants, bumblebees, snowy owls, and a wolf looking for love. Find an armchair, cancel your plans and go where the animals go.

A chronological survey of the world's most influential books. Many books have become classics, must-reads or overnight publishing sensations, but how many can genuinely claim to have changed the way we see and think? In 100 Books that Changed the World, authors Scott Christianson and Colin Salter bring together an exceptional collection of truly groundbreaking books – from scriptures that founded religions, to scientific treatises that challenged beliefs, to novels that kick-started literary genres. This elegantly designed book offers a chronological survey of the most important books from around the globe, from the earliest illuminated manuscripts to the age of the ebook publication. Entries include: The Iliad and The Odyssey, Homer (750 BC), Gutenberg Bible (1450s), The Quran (AD 609–632), On the Revolutions of the Heavenly Spheres, Nicolaus Copernicus (1543), Shakespeare’s First Folio (1623), Philosophae Naturalis Principia Mathematica, Isaac Newton (1687), The Wealth of Nations, Adam Smith (1776), The Vindication of the Rights of Woman, Mary Wollstonecraft (1792), On the Origin of Species, Charles Darwin (1859), Das Kapital, Karl Marx (1867), The Interpretation of Dreams, Sigmund Freud (1899), The Diary of a Young Girl, Anne Frank (1947), Quotations from Chairman Mao Tse-tung (1964), A Brief History of Time, Stephen Hawking (1988).

100 Diagrams That Changed The WorldBatsford

Customers who have inconsistent, broken experiences with products and services are understandably frustrated. But it’s worse when people inside these companies can’t pinpoint the problem because they’re too focused on business processes. This practical book shows your company how to use alignment diagrams to turn valuable customer observations into actionable insight. With this unique tool, you can visually map your existing customer experience and envision future solutions. Product and brand managers, marketing specialists, and business owners will learn how experience diagramming can help determine where business goals and customer perspectives intersect. Once you’re armed with this data, you can provide users with real value. Mapping Experiences is divided into three parts: Understand the underlying principles of diagramming, and discover how these diagrams can inform strategy Learn how to create diagrams with the four iterative modes in the mapping process: setting up a mapping initiative, investigating the evidence, visualizing the process, and using diagrams in workshops and experiments See key diagrams in action, including service blueprints, customer journey maps, experience maps, mental models, and spatial maps and ecosystem models

Authored by two of the leading authorities in the field, this guide offers readers the knowledge and skills needed to achieve proficiency with embedded software.

A bestselling modern classic—both poignant and funny—about a boy with autism who sets out to solve the murder of a neighbor's dog and discovers unexpected truths about himself and the world. Nominated as one of America’s best-loved novels by PBS’s The Great American Read Christopher John Francis Boone knows all the countries of the world and their capitals and every prime number up to 7,057. He relates well to animals but has no understanding of human emotions. He cannot stand to be touched. And he detests the color yellow. This improbable story of Christopher's quest to investigate the suspicious death of a neighborhood dog makes for one of the most captivating, unusual, and widely heralded novels in recent years.

INSTANT NEW YORK TIMES BESTSELLER “One of the most important books I’ve ever read—an indispensable guide to thinking clearly

about the world." – Bill Gates "Hans Rosling tells the story of 'the secret silent miracle of human progress' as only he can. But Factfulness does much more than that. It also explains why progress is so often secret and silent and teaches readers how to see it clearly." —Melinda Gates "Factfulness by Hans Rosling, an outstanding international public health expert, is a hopeful book about the potential for human progress when we work off facts rather than our inherent biases." - Former U.S. President Barack Obama Factfulness: The stress-reducing habit of only carrying opinions for which you have strong supporting facts. When asked simple questions about global trends—what percentage of the world's population live in poverty; why the world's population is increasing; how many girls finish school—we systematically get the answers wrong. So wrong that a chimpanzee choosing answers at random will consistently outguess teachers, journalists, Nobel laureates, and investment bankers. In Factfulness, Professor of International Health and global TED phenomenon Hans Rosling, together with his two long-time collaborators, Anna and Ola, offers a radical new explanation of why this happens. They reveal the ten instincts that distort our perspective—from our tendency to divide the world into two camps (usually some version of us and them) to the way we consume media (where fear rules) to how we perceive progress (believing that most things are getting worse). Our problem is that we don't know what we don't know, and even our guesses are informed by unconscious and predictable biases. It turns out that the world, for all its imperfections, is in a much better state than we might think. That doesn't mean there aren't real concerns. But when we worry about everything all the time instead of embracing a worldview based on facts, we can lose our ability to focus on the things that threaten us most. Inspiring and revelatory, filled with lively anecdotes and moving stories, Factfulness is an urgent and essential book that will change the way you see the world and empower you to respond to the crises and opportunities of the future. --- "This book is my last battle in my life-long mission to fight devastating ignorance...Previously I armed myself with huge data sets, eye-opening software, an energetic learning style and a Swedish bayonet for sword-swallowing. It wasn't enough. But I hope this book will be." Hans Rosling, February 2017.

A beautifully designed guidebook to the unnoticed yet essential elements of our cities, from the creators of the wildly popular 99% Invisible podcast

Detailed summary and analysis of The Power of Habit.

Presents recipes ranging in difficulty with the science and technology-minded cook in mind, providing the science behind cooking, the physiology of taste, and the techniques of molecular gastronomy.

The #1 New York Times bestseller. Over 3 million copies sold! Tiny Changes, Remarkable Results No matter your goals, Atomic Habits offers a proven framework for improving--every day. James Clear, one of the world's leading experts on habit formation, reveals practical strategies that will teach you exactly how to form good habits, break bad ones, and master the tiny behaviors that lead to remarkable results. If you're having trouble changing your habits, the problem isn't you. The problem is your system. Bad habits repeat themselves again and again not because you don't want to change, but because you have the wrong system for change. You do not rise to the level of your goals. You fall to the level of your systems. Here, you'll get a proven system that can take you to new heights. Clear is known for his ability to distill complex topics into simple behaviors that can be easily applied to daily life and work. Here, he draws on the most proven ideas from biology, psychology, and neuroscience to create an easy-to-understand guide for making good habits inevitable and bad habits impossible. Along the way, readers will be inspired and entertained with true stories from Olympic gold medalists, award-winning artists, business leaders, life-saving physicians, and star comedians who have used the science of small habits to master their craft and vault to the top of their field. Learn how to: • make time for new habits (even when life gets crazy); • overcome a lack of motivation and willpower; • design your environment to make success easier; • get back on track when you fall off course; ...and much more. Atomic Habits will reshape the way you think about progress and success, and give you the tools and strategies you need to transform your habits--whether you are a team looking to win a championship, an organization hoping to redefine an industry, or simply an individual who wishes to quit smoking, lose weight, reduce stress, or achieve any other goal.

Discusses the techniques, uses, and aesthetics of medieval drawings; and reproduces work from more than fifty manuscripts produced between the ninth and early fourteenth century.

"We finally have the definitive treatise on PyTorch! It covers the basics and abstractions in great detail. I hope this book becomes your extended reference document." —Soumith Chintala, co-creator of PyTorch Key Features Written by PyTorch's creator and key contributors Develop deep learning models in a familiar Pythonic way Use PyTorch to build an image classifier for cancer detection Diagnose problems with your neural network and improve training with data augmentation Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About The Book Every other day we hear about new ways to put deep learning to good use: improved medical imaging, accurate credit card fraud detection, long range weather forecasting, and more. PyTorch puts these superpowers in your hands. Instantly familiar to anyone who knows Python data tools like NumPy and Scikit-learn, PyTorch simplifies deep learning without sacrificing advanced features. It's great for building quick models, and it scales smoothly from laptop to enterprise. Deep Learning with PyTorch teaches you to create deep learning and neural network systems with PyTorch. This practical book gets you to work right away building a tumor image classifier from scratch. After covering the basics, you'll learn best practices for the entire deep learning pipeline, tackling advanced projects as your PyTorch skills become more sophisticated. All code samples are easy to explore in downloadable Jupyter notebooks. What You Will Learn Understanding deep learning data structures such as tensors and neural networks Best practices for the PyTorch Tensor API, loading data in Python, and visualizing results Implementing modules and loss functions Utilizing pretrained models from PyTorch Hub Methods for training networks with limited inputs Sifting through unreliable results to diagnose and fix problems in your neural network Improve your results with augmented data, better model architecture, and fine tuning This Book Is Written For For Python programmers with an interest in machine learning. No experience with PyTorch or other deep learning frameworks is required. About The Authors Eli Stevens has worked in Silicon Valley for the past 15 years as a software engineer, and the past 7 years as Chief Technical Officer of a startup making medical device software. Luca Antiga is co-founder and CEO of an AI engineering company located in Bergamo, Italy, and a regular contributor to PyTorch. Thomas Viehmann is a Machine Learning and PyTorch speciality trainer and consultant based in Munich, Germany and a PyTorch core developer. Table of Contents PART 1 - CORE PYTORCH 1 Introducing deep learning and the PyTorch Library 2 Pretrained networks 3 It starts with a tensor 4 Real-world data representation using tensors 5 The mechanics of learning 6 Using a neural network to fit the data 7 Telling birds from airplanes: Learning from images 8 Using convolutions to generalize PART 2 - LEARNING FROM IMAGES IN THE REAL WORLD: EARLY DETECTION OF LUNG CANCER 9 Using PyTorch to fight cancer 10 Combining data sources into a unified dataset 11 Training a classification model to detect suspected tumors 12 Improving training with metrics and augmentation 13 Using segmentation to find suspected nodules 14 End-to-end nodule analysis, and where to go next PART 3 - DEPLOYMENT 15 Deploying to production

When Einstein said we only use 10 percent of our brain, he was inviting us to explore all those capabilities that are waiting to be awakened. This book finally explains how to do just that. Mental diagrams are a simple, efficient means of activating all our potential. Upon sketching a mental diagram, we create a blueprint with shapes, colors, and figures to process information faster and to increase our ability to synthesize. This excellent, creative system of thinking allows us to obtain a joint vision of life’s daily problems in addition to strengthening all the areas in which our mind operates, like memory, concentration, logic, or intuition. In the pages of this book, you will discover: • The function of the human brain • How to create mental diagrams • Exercises to strengthen memory • Intelligence regarding personal decisions • Tests to develop intuition and creativity • Secrets of the great lecturers