

Monmonier How To Lie With Maps

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How to Lie with Statistics - Darrell Huff 2010-12-07

If you want to outsmart a crook, learn his tricks—Darrell Huff explains exactly how in the classic *How to Lie with Statistics*. From distorted graphs and biased samples to misleading averages, there are countless statistical dodges that lend cover to anyone with an ax to grind or a product to sell. With abundant examples and illustrations, Darrell Huff's lively and engaging primer clarifies the basic principles of statistics and explains how they're used to present information in honest and not-so-honest ways. Now even more indispensable in our data-driven world than it was when first published, *How to Lie with Statistics* is the book that generations of readers have relied on to keep from being fooled.

Cartography - Borden D. Dent 1999

"This introductory textbook introduces students to the different types of map projections, map design, and map production." -Amazon.com.

[Ethics in Everyday Places](#) - Tom Koch 2018-01-12

An exploration of moral stress, distress, and injuries inherent in modern society through the maps that pervade academic and public communications worlds. In *Ethics in Everyday Places*, ethicist and geographer Tom Koch considers what happens when, as he puts it, "you do everything right but know you've done something wrong." The resulting moral stress and injury, he argues, are pervasive in modern Western society. Koch makes his argument "from the ground up," from

the perspective of average persons, and through a revealing series of maps in which issues of ethics and morality are embedded. The book begins with a general grounding in both moral stress and mapping as a means of investigation. The author then examines the ethical dilemmas of mapmakers and others in the popular media and the sciences, including graphic artists, journalists, researchers, and social scientists. Koch expands from the particular to the general, from mapmaker and journalist to the readers of maps and news. He explores the moral stress and injury in educational funding, poverty, and income inequality ("Why aren't we angry that one in eight fellow citizens lives in federally certified poverty?"), transportation modeling (seen in the iconic map of the London transit system and the hidden realities of exclusion), and U.S. graft organ transplantation. This uniquely interdisciplinary work rewrites our understanding of the nature of moral stress, distress and injury, and ethics in modern life. Written accessibly and engagingly, it transforms how we think of ethics—personal and professional—amid the often conflicting moral injunctions across modern society. Copublished with Esri Press

How to Make Maps - Peter Anthamatten 2020-12-28

The goal of *How to Make Maps* is to equip readers with the foundational knowledge of concepts they need to conceive, design, and produce maps in a legible, clear, and coherent manner, drawing from both classical and

modern theory in cartography. This book is appropriate for graduate and undergraduate students who are beginning a course of study in geospatial sciences or who wish to begin producing their own maps. While the book assumes no a priori knowledge or experience with geospatial software, it may also serve GIS analysts and technicians who wish to explore the principles of cartographic design. The first part of the book explores the key decisions behind every map, with the aim of providing the reader with a solid foundation in fundamental cartography concepts. Chapters 1 through 3 review foundational mapping concepts and some of the decisions that are a part of every map. This is followed by a discussion of the guiding principles of cartographic design in Chapter 4—how to start thinking about putting a map together in an effective and legible form. Chapter 5 covers map projections, the process of converting the curved earth's surface into a flat representation appropriate for mapping. Chapters 6 and 7 discuss the use of text and color, respectively. Chapter 8 reviews trends in modern cartography to summarize some of the ways the discipline is changing due to new forms of cartographic media that include 3D representations, animated cartography, and mobile cartography. Chapter 9 provides a literature review of the scholarship in cartography. The final component of the book shifts to applied, technical concepts important to cartographic production, covering data quality concepts and the acquisition of geospatial data sources (Chapter 10), and an overview of software applications particularly relevant to modern cartography production: GIS and graphics software (Chapter 11). Chapter 12 concludes the book with examples of real-world cartography projects, discussing the planning, data collection, and design process that lead to the final map products. This book aspires to introduce readers to the foundational concepts—both theoretical and applied—they need to start the actual work of making maps. The accompanying website offers hands-on exercises to guide readers through the production of a map—from conception through to the final version—as well as PowerPoint slides that accompany the text.

Bushmanders and Bullwinkles - Mark Monmonier 2001-02-15

For years Mark Monmonier, "a prose stylist of no mean ability or charm" according to the Washington Post, has delighted readers with his insightful understanding of cartography as an art and technology that is both deceptive and revealing. Now he turns his focus to the story of political cartography and the redrawing of congressional districts. His title *Bushmanders and Bullwinkles* combines gerrymander with the surname of the president who actively tolerated racial gerrymandering and draws attention to the ridiculously shaped congressional districts that evoke the antlers of the moose who shared the cartoon spotlight with Rocky the Flying Squirrel. Written from the perspective of a cartographer rather than a political scientist, *Bushmanders and Bullwinkles* examines the political tales maps tell when votes and power are at stake. Monmonier shows how redistricting committees carve out favorable election districts for themselves and their allies; how disgruntled politicians use shape to challenge alleged racial gerrymanders; and how geographic information systems can make reapportionment a controversial process with outrageous products. He also explores controversies over the proper roles of natural boundaries, media maps, census enumeration, and ethnic identity. Raising important questions about Supreme Court decisions in regulating redistricting, Monmonier asks if the focus on form rather than function may be little more than a distraction from larger issues like election reform. Characterized by the same wit and clarity as Monmonier's previous books, *Bushmanders and Bullwinkles* is essential background for understanding what might prove the most contentious political debate of the new decade.

[Connections and Content](#) - Mark Monmonier 2019-08-30

Cartographic cogitator Mark Monmonier shares his insights about the relationships between networks and maps in a collection of essays.

[Designing Better Maps](#) - Cynthia A. Brewer 2016

Designing Better Maps: A Guide for GIS Users, second edition, breaks down the myriad decisions involved in creating maps that communicate effectively. The second edition includes updated material and a new chapter on map publishing.

Principles of Map Design - Judith A. Tyner 2017-09-12

This authoritative, reader-friendly text presents core principles of good map design that apply regardless of production methods or technical approach. The book addresses the crucial questions that arise at each step of making a map: Who is the audience? What is the purpose of the map? Where and how will it be used? Students get the knowledge needed to make sound decisions about data, typography, color, projections, scale, symbols, and nontraditional mapping and advanced visualization techniques. Pedagogical Features: *Over 200 illustrations (also available at the companion website as PowerPoint slides), including 23 color plates *Suggested readings at the end of each chapter.

*Recommended Web resources. *Instructive glossary

Ground Truth - John Pickles 1995-01-01

Professionals who work with grieving families, including psychiatrists, psychologists, social workers, family therapists, physicians and nurses who work with dying patients and their families, hospice and patient home-care workers, clergy. The book also serves as a text in courses on bereavement, family development, family and child therapy, and child developmental psychopathology.

Lake Effect - Mark Monmonier 2012-09-13

Blending meteorological history with the history of scientific cartography, Monmonier charts the phenomenon of lake-effect snow and explores the societal impacts of extreme weather. Along the way, he introduces readers to natural philosophers who gradually identified this distinctive weather pattern, to tales of communities adapting to notoriously disruptive storms, and to some of the snowiest regions of the country. Characterized by intense snowfalls lasting from a couple of minutes to several days, lake-effect snow is deposited by narrow bands of clouds formed when cold, dry arctic air passes over a large, relatively warm inland lake. With perhaps only half the water content of regular snow, lake snow is typically light, fluffy, and relatively easy to shovel. Intriguing stories of lake effect's quirky behavior and diverse impacts include widespread ignorance of the phenomenon in the nineteenth and early twentieth centuries. Since then a network of systematic observers

have collected several decades of data worth mapping, and reliable shortterm predictions based on satellites, Doppler radar, and computer models are now available. Moving effortlessly from atmospheric science to anecdotes, Monmonier offers a richly detailed account of a type of weather that has long been misunderstood. Residents of lake-effect regions, history buffs, and weather junkies alike will relish this entertaining and informative book.

The Power of Maps - Denis Wood 1992-01-01

This volume ventures into terrain where even the most sophisticated map fails to lead--through the mapmaker's bias. Denis Wood shows how maps are not impartial reference objects, but rather instruments of communication, persuasion, and power. Like paintings, they express a point of view. By connecting us to a reality that could not exist in the absence of maps--a world of property lines and voting rights, taxation districts and enterprise zones--they embody and project the interests of their creators. Sampling the scope of maps available today, illustrations include Peter Gould's AIDS map, Tom Van Sant's map of the earth, U.S. Geological Survey maps, and a child's drawing of the world. THE POWER OF MAPS was published in conjunction with an exhibition at the Cooper Hewitt Museum, the Smithsonian Institution's National Museum of Design.

Rhumb Lines and Map Wars - Mark Monmonier 2010-11-15

In *Rhumb Lines and Map Wars*, Mark Monmonier offers an insightful, richly illustrated account of the controversies surrounding Flemish cartographer Gerard Mercator's legacy. He takes us back to 1569, when Mercator announced a clever method of portraying the earth on a flat surface, creating the first projection to take into account the earth's roundness. As Monmonier shows, mariners benefited most from Mercator's projection, which allowed for easy navigation of the high seas with rhumb lines—clear-cut routes with a constant compass bearing—for true direction. But the projection's popularity among nineteenth-century sailors led to its overuse—often in inappropriate, non-navigational ways—for wall maps, world atlases, and geopolitical propaganda. Because it distorts the proportionate size of countries, the Mercator map

was criticized for inflating Europe and North America in a promotion of colonialism. In 1974, German historian Arno Peters proffered his own map, on which countries were ostensibly drawn in true proportion to one another. In the ensuing "map wars" of the 1970s and 1980s, these dueling projections vied for public support—with varying degrees of success. Widely acclaimed for his accessible, intelligent books on maps and mapping, Monmonier here examines the uses and limitations of one of cartography's most significant innovations. With informed skepticism, he offers insightful interpretations of why well-intentioned clerics and development advocates rallied around the Peters projection, which flagrantly distorted the shape of Third World nations; why journalists covering the controversy ignored alternative world maps and other key issues; and how a few postmodern writers defended the Peters worldview with a self-serving overstatement of the power of maps. *Rhumb Lines and Map Wars* is vintage Monmonier: historically rich, beautifully written, and fully engaged with the issues of our time.

[How to Lie with Maps](#) - Mark Monmonier 2014-12-10

Originally published to wide acclaim, this lively, cleverly illustrated essay on the use and abuse of maps teaches us how to evaluate maps critically and promotes a healthy skepticism about these easy-to-manipulate models of reality. Monmonier shows that, despite their immense value, maps lie. In fact, they must. The second edition is updated with the addition of two new chapters, 10 color plates, and a new foreword by renowned geographer H. J. de Blij. One new chapter examines the role of national interest and cultural values in national mapping organizations, including the United States Geological Survey, while the other explores the new breed of multimedia, computer-based maps. To show how maps distort, Monmonier introduces basic principles of mapmaking, gives entertaining examples of the misuse of maps in situations from zoning disputes to census reports, and covers all the typical kinds of distortions from deliberate oversimplifications to the misleading use of color.

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ourselves on the facile screen. His is an artful and funny book, which like any good map, packs plenty in little space."—Scientific American "A useful guide to a subject most people probably take too much for granted. It shows how map makers translate abstract data into eye-catching cartograms, as they are called. It combats cartographic illiteracy. It fights cartophobia. It may even teach you to find your way. For that alone, it seems worthwhile."—Christopher Lehmann-Haupt, *The New York Times* ". . . witty examination of how and why maps lie. [The book] conveys an important message about how statistics of any kind can be manipulated. But it also communicates much of the challenge, aesthetic appeal, and sheer fun of maps. Even those who hated geography in grammar school might well find a new enthusiasm for the subject after reading Monmonier's lively and surprising book."—Wilson Library Bulletin "A reading of this book will leave you much better defended against cheap atlases, shoddy journalism, unscrupulous advertisers, predatory special-interest groups, and others who may use or abuse maps at your expense."—John Van Pelt, *Christian Science Monitor* "Monmonier meets his goal admirably. . . . [His] book should be put on every map user's 'must read' list. It is informative and readable . . . a big step forward in helping us to understand how maps can mislead their readers."—Jeffrey S. Murray, *Canadian Geographic*

The Politics of Maps - Christine Leuenberger 2020-07-18

The land between the Mediterranean Sea and the Jordan Valley has been one of the most disputed territories in history. Since the establishment of the state of Israel in 1948, Palestinians and Israelis have each sought claim to the national identity of the land through various martial, social and scientific tactics, but no method has offered as much legitimacy and national controversy as that of the map. *The Politics of Maps* delves beneath the battlefield to unearth the cartographic strife behind the Israel/Palestine conflict. Blending science and technology studies, sociology, and geography with a host of archival material, in-depth interviews and ethnographies, this book explores how the geographical sciences came to be entangled with the politics, territorial claim-making, and nation-state building of Israel/Palestine. Chapters chart the

cartographic history of the region, from the introduction of Western scientific and legal paradigms that seemingly legitimized and depoliticized new land regimes to the rise of new mapping technologies and software that expanded access to cartography into the public sphere. Maps produced by various sectors like the "peace camps" or the Jewish community enhanced national belonging, while others, like that of the Green Line, served largely to divide. The stories of Israel's many boundaries reveal that there is no absolute, technocratic solution to boundary-making. As boundaries continue to be controversial and the Israeli-Palestinian conflict remains intractable and unresolved, *The Politics of Maps* uses nationally-based cartographic discourses to provide insight into the complexity, fissures and frictions within internal political debates, illuminating the persistent power of the nation-state as a framework for forging identities, citizens, and alliances.

Better Data Visualizations - Jonathan Schwabish 2021-02-09

Now more than ever, content must be visual if it is to travel far. Readers everywhere are overwhelmed with a flow of data, news, and text. Visuals can cut through the noise and make it easier for readers to recognize and recall information. Yet many researchers were never taught how to present their work visually. This book details essential strategies to create more effective data visualizations. Jonathan Schwabish walks readers through the steps of creating better graphs and how to move beyond simple line, bar, and pie charts. Through more than five hundred examples, he demonstrates the do's and don'ts of data visualization, the principles of visual perception, and how to make subjective style decisions around a chart's design. Schwabish surveys more than eighty visualization types, from histograms to horizon charts, ridgeline plots to choropleth maps, and explains how each has its place in the visual toolkit. It might seem intimidating, but everyone can learn how to create compelling, effective data visualizations. This book will guide you as you define your audience and goals, choose the graph that best fits for your data, and clearly communicate your message.

[Data Visualization for Design Thinking](#) - Winifred E. Newman 2017-06-26

Data Visualization for Design Thinking helps you make better maps.

Treating maps as applied research, you'll be able to understand how to map sites, places, ideas, and projects, revealing the complex relationships between what you represent, your thinking, the technology you use, the culture you belong to, and your aesthetic practices. More than 100 examples illustrated with over 200 color images show you how to visualize data through mapping. Includes five in-depth cases studies and numerous examples throughout.

[From Squaw Tit to Whorehouse Meadow](#) - Mark Monmonier 2008-09-15
Brassiere Hills, Alaska. Mollys Nipple, Utah. Outhouse Draw, Nevada. In the early twentieth century, it was common for towns and geographical features to have salacious, bawdy, and even derogatory names. In the age before political correctness, mapmakers readily accepted any local preference for place names, prizing accurate representation over standards of decorum. Thus, summits such as Squaw Tit—which towered above valleys in Arizona, New Mexico, Nevada, and California—found their way into the cartographic annals. Later, when sanctions prohibited local use of racially, ethnically, and scatalogically offensive toponyms, town names like Jap Valley, California, were erased from the national and cultural map forever. *From Squaw Tit to Whorehouse Meadow* probes this little-known chapter in American cartographic history by considering the intersecting efforts to computerize mapmaking, standardize geographic names, and respond to public concern over ethnically offensive appellations. Interweaving cartographic history with tales of politics and power, celebrated geographer Mark Monmonier locates his story within the past and present struggles of mapmakers to create an orderly process for naming that avoids confusion, preserves history, and serves different political aims. Anchored by a diverse selection of naming controversies—in the United States, Canada, Cyprus, Israel, Palestine, and Antarctica; on the ocean floor and the surface of the moon; and in other parts of our solar system—*From Squaw Tit to Whorehouse Meadow* richly reveals the map's role as a mediated portrait of the cultural landscape. And unlike other books that consider place names, this is the first to reflect on both the real cartographic and political imbroglios they engender. *From Squaw Tit to Whorehouse Meadow* is Mark Monmonier

at his finest: a learned analysis of a timely and controversial subject rendered accessible—and even entertaining—to the general reader.

Hooker & Brown - Jerry Auld 2011-02-01

Set in the Canadian Rockies, *Hooker & Brown* is an evocative adventure story about one man's quest to put to rest a historical mystery. While reading a history book of the area, Rumi—a trail crewman in the Rocky Mountain Parks system—learns of two mysterious mountains, and their story is re-entered into the climber's imagination. Excited by the idea of seeing the mountains and retracing the steps of earlier mountaineers, Rumi begins a pursuit to reach these peaks and to find out if they truly do exist. Based on a true story from the Rocky Mountains and filled with exhilarating descriptions of one climber's attempt to tackle some of the world's greatest peaks, *Hooker & Brown* explores the effect of mystery and historical inaccuracies in our lives.

How to Lie with Maps - Mark S. Monmonier 1991-01

Why North is Up - Mick Ashworth 2019

Many people have a love of maps. But what lies behind the process of map-making? How have cartographers through the centuries developed their craft and established a language of maps which helps them to better represent our world and help users to understand it? This book tells the story of how widely accepted mapping conventions originated and evolved—from map orientation, projections, typography, and scale, to the use of color, symbols, ways of representing relief, and the treatment of boundaries and place names. It charts the fascinating story of how conventions have changed in response to new technologies and ever-changing mapping requirements, how symbols can be a matter of life or death, why universal acceptance of conventions can be difficult to achieve, and how new mapping conventions are developing to meet the needs of modern cartography. *Why North is Up* offers an accessible and enlightening guide to the sometimes hidden techniques of map-making through the centuries.

The Red Atlas - John Davies 2017-10-17

From 1950 to 1990, the Soviet Army conducted a global topographic

mapping program, creating large-scale maps for much of the world that included a diversity of detail that would have supported a full range of military planning. For big cities like New York, DC, and London to towns like Pontiac, MI and Galveston, TX, the Soviets gathered enough information to create street-level maps. What they chose to include on these maps can seem obvious like locations of factories and ports, or more surprising, such as building heights, road widths, and bridge capacities. Some of the detail suggests early satellite technology, while other specifics, like detailed depictions of depths and channels around rivers and harbors, could only have been gained by actual Soviet feet on the ground. *The Red Atlas* includes over 350 extracts from these Cold War maps, exploring their provenance and cartographic techniques as well as what they can tell us about their makers and the Soviet initiatives that were going on all around us.

Spying with Maps - Mark Monmonier 2004-04

Maps, as we know, help us find our way around. But they're also powerful tools for someone hoping to find you. Widely available in electronic and paper formats, maps offer revealing insights into our movements and activities, even our likes and dislikes. In *Spying with Maps*, the "mapmatician" Mark Monmonier looks at the increased use of geographic data, satellite imagery, and location tracking across a wide range of fields such as military intelligence, law enforcement, market research, and traffic engineering. Could these diverse forms of geographic monitoring, he asks, lead to grave consequences for society? To assess this very real threat, he explains how geospatial technology works, what it can reveal, who uses it, and to what effect. Despite our apprehension about surveillance technology, *Spying with Maps* is not a jeremiad, crammed with dire warnings about eyes in the sky and invasive tracking. Monmonier's approach encompasses both skepticism and the acknowledgment that geospatial technology brings with it unprecedented benefits to governments, institutions, and individuals, especially in an era of asymmetric warfare and bioterrorism. Monmonier frames his explanations of what this new technology is and how it works with the question of whether locational privacy is a fundamental right.

Does the right to be left alone include not letting Big Brother (or a legion of Little Brothers) know where we are or where we've been? What sacrifices must we make for homeland security and open government? With his usual wit and clarity, Monmonier offers readers an engaging, even-handed introduction to the dark side of the new technology that surrounds us—from traffic cameras and weather satellites to personal GPS devices and wireless communications.

[On the Map](#) - Simon Garfield 2013-11-05

Examines the pivotal relationship between mapping and civilization, demonstrating the unique ways that maps relate and realign history, and shares engaging cartography stories and map lore.

[Clock and Compass](#) - Mark Monmonier 2022-04-12

"A city guy who aspired to be a farmer, John Byron Plato took a three-month winter course in agriculture at Cornell before starting high school, which he left a year before graduation to fight with US troops during the Spanish-American War. After the war he worked as a draftsman, ran a veneers business, patented and manufactured a parking brake for horse-drawn delivery wagons, taught school, and ran a lumber yard. In his early thirties he bought some farmland north of Denver and began raising Guernsey cattle, which he advertised for sale in the local paper. When an interested buyer eager to see his calves couldn't find his farm, Plato realized that an RFD postal address was only good for delivering mail. Farmers had started buying cars and trucks, but without adequate maps and signage townsfolk couldn't visit them and they couldn't easily find each other. Plato's solution was a map-and-directory combo that used direction and distance from a local business center to give farmers a real address, just like city folk. He patented his invention and tried to sell it to the Post Office, which took a pass—their business was delivering mail, not facilitating travel. Because the clockface's hours provided the directions, he called his strategy the "Clock System." Some Chicago promoters became intrigued but after their plans failed to gel, he decided to produce the maps himself. Rural sociologists at Cornell, who considered the Clock System an antidote for rural isolation, encouraged him to start a business in Ithaca, where he mapped a dozen

New York counties until the Great Depression intervened and he left to work as a government mapmaker in Washington. Between 1936 (after his patent had expired) and 1940, some Ithaca businessmen validated the concept by making "Compass System" maps for half the state's counties"-

Picturing America - Stephen J. Hornsby 2017-03-23

Shows maps of the United States of America and other geographical areas of the world.

[Cartography](#) - Kenneth Field 2018

Winner of the 2019 International Cartographic Conference - Educational Products award: A comprehensive, one-stop-shop cartography guide, Cartography. serves as a reference and an inspiration for anyone who is required to make a map, but it does so using a modern visual style.

[How to Lie with Maps](#) - Mark Monmonier 2018-04-13

An instant classic when first published in 1991, How to Lie with Maps revealed how the choices mapmakers make—consciously or unconsciously—mean that every map inevitably presents only one of many possible stories about the places it depicts. The principles Mark Monmonier outlined back then remain true today, despite significant technological changes in the making and use of maps. The introduction and spread of digital maps and mapping software, however, have added new wrinkles to the ever-evolving landscape of modern mapmaking. Fully updated for the digital age, this new edition of How to Lie with Maps examines the myriad ways that technology offers new opportunities for cartographic mischief, deception, and propaganda. While retaining the same brevity, range, and humor as its predecessors, this third edition includes significant updates throughout as well as new chapters on image maps, prohibitive cartography, and online maps. It also includes an expanded section of color images and an updated list of sources for further reading.

Air Apparent - Mark Monmonier 2000-11-15

Traces the development of the weather map and its ability to make the atmosphere visible and predictable, and examines the interaction and relationship between technology and weather forecasting.

A History of Spaces - John Pickles 2004

It also considers the use of maps for military purposes, maps that have coded modern conceptions of health, disease and social character, and maps of the transparent human body and the transparent earth." "The final chapters of the book turn to the rapid pace of change in mapping technologies, the forms of visualization and representation that are now possible, and what the author refers to as 'the possibilities for post-representational cartographies'."--Jacket.

Historical Atlases - Walter Goffart 2011-04-15

Today we can walk into any well-stocked bookstore or library and find an array of historical atlases. The first thorough review of the source material, Historical Atlases traces how these collections of "maps for history"—maps whose sole purpose was to illustrate some historical moment or scene—came into being. Beginning in the sixteenth century, and continuing down to the late nineteenth, Walter Goffart discusses milestones in the origins of historical atlases as well as individual maps illustrating historical events in alternating, paired chapters. He focuses on maps of the medieval period because the development of maps for history hinged particularly on portrayals of this segment of the postclassical, "modern" past. Goffart concludes the book with a detailed catalogue of more than 700 historical maps and atlases produced from 1570 to 1870. Historical Atlases will immediately take its place as the single most important reference on its subject. Historians of cartography, medievalists, and anyone seriously interested in the role of maps in portraying history will find it invaluable.

Patents and Cartographic Inventions - Mark Monmonier 2017-03-28

This book explores the US patent system, which helped practical minded innovators establish intellectual property rights and fulfill the need for achievement that motivates inventors and scholars alike. In this sense, the patent system was a parallel literature: a vetting institution similar to the conventional academic-scientific-technical journal insofar as the patent examiner was both editor and peer reviewer, while the patent attorney was a co-author or ghost writer. In probing evolving notions of novelty, non-obviousness, and cumulative innovation, Mark Monmonier

examines rural address guides, folding schemes, world map projections, diverse improvements of the terrestrial globe, mechanical route-following machines that anticipated the GPS navigator, and the early electrical you-are-here mall map, which opened the way for digital cartography and provided fodder for patent trolls, who treat the patent largely as a license to litigate.

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.

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Originally published to wide acclaim, this lively, cleverly illustrated essay on the use and abuse of maps teaches us how to evaluate maps critically and promotes a healthy skepticism about these easy-to-manipulate models of reality. Monmonier shows that, despite their immense value, maps lie. In fact, they must. The second edition is updated with the addition of two new chapters, 10 color plates, and a new foreword by renowned geographer H. J. de Blij. One new chapter examines the role of national interest and cultural values in national mapping organizations, including the United States Geological Survey, while the other explores the new breed of multimedia, computer-based maps. To show how maps distort, Monmonier introduces basic principles of mapmaking, gives entertaining examples of the misuse of maps in situations from zoning disputes to census reports, and covers all the typical kinds of distortions from deliberate oversimplifications to the misleading use of color.

"Professor Monmonier himself knows how to gain our attention; it is not in fact the lies in maps but their truth, if always approximate and incomplete, that he wants us to admire and use, even to draw for ourselves on the facile screen. His is an artful and funny book, which like any good map, packs plenty in little space."—Scientific American "A useful guide to a subject most people probably take too much for granted. It shows how map makers translate abstract data into eye-catching cartograms, as they are called. It combats cartographic illiteracy. It fights cartophobia. It may even teach you to find your way. For that alone, it seems worthwhile."—Christopher Lehmann-Haupt, The New York Times ". . . witty examination of how and why maps lie. [The book] conveys an important message about how statistics of any kind can be manipulated. But it also communicates much of the challenge, aesthetic appeal, and sheer fun of maps. Even those who hated geography in grammar school might well find a new enthusiasm for the subject after reading Monmonier's lively and surprising book."—Wilson Library Bulletin "A reading of this book will leave you much better defended against cheap atlases, shoddy journalism, unscrupulous advertisers, predatory special-interest groups, and others who may use

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Cartography - Matthew H. Edney 2019-04-12

Over the past four decades, the volumes published in the landmark History of Cartography series have both chronicled and encouraged scholarship about maps and mapping practices across time and space. As the current director of the project that has produced these volumes, Matthew H. Edney has a unique vantage point for understanding what "cartography" has come to mean and include. In this book Edney disavows the term cartography, rejecting the notion that maps represent an undifferentiated category of objects for study. Rather than treating maps as a single, unified group, he argues, scholars need to take a processual approach that examines specific types of maps—sea charts versus thematic maps, for example—in the context of the unique circumstances of their production, circulation, and consumption. To illuminate this bold argument, Edney chronicles precisely how the ideal of cartography that has developed in the West since 1800 has gone astray. By exposing the flaws in this ideal, his book challenges everyone who studies maps and mapping practices to reexamine their approach to the topic. The study of cartography will never be the same.

Mapping It Out - Mark Monmonier 2015-07-27

Writers know only too well how long it can take—and how awkward it can be—to describe spatial relationships with words alone. And while a map might not always be worth a thousand words, a good one can help writers communicate an argument or explanation clearly, succinctly, and effectively. In his acclaimed *How to Lie with Maps*, Mark Monmonier showed how maps can distort facts. In *Mapping it Out: Expository Cartography for the Humanities and Social Sciences*, he shows authors and scholars how they can use expository cartography—the visual, two-dimensional organization of information—to heighten the impact of their books and articles. This concise, practical book is an introduction to the

fundamental principles of graphic logic and design, from the basics of scale to the complex mapping of movement or change. Monmonier helps writers and researchers decide when maps are most useful and what formats work best in a wide range of subject areas, from literary criticism to sociology. He demonstrates, for example, various techniques for representing changes and patterns; different typefaces and how they can either clarify or confuse information; and the effectiveness of less traditional map forms, such as visibility base maps, frame-rectangle symbols, and complementary scatterplot designs for conveying complex spatial relationships. There is also a wealth of practical information on map compilation, cartobibliographies, copyright and permissions, facsimile reproduction, and the evaluation of source materials.

Appendixes discuss the benefits and limitations of electronic graphics and pen-and-ink drafting, and how to work with a cartographic illustrator. Clearly written, and filled with real-world examples, *Mapping it Out* demystifies mapmaking for anyone writing in the humanities and social sciences. "A useful guide to a subject most people probably take too much for granted. It shows how map makers translate abstract data into eye-catching cartograms, as they are called. It combats cartographic illiteracy. It fights cartophobia. It may even teach you to find your way."—Christopher Lehmann-Haupt, *The New York Times*

New Lines - Matthew W. Wilson 2017-11-15

New Lines takes the pulse of a society increasingly drawn to the power of the digital map, examining the conceptual and technical developments of the field of geographic information science as this work is refracted through a pervasive digital culture. Matthew W. Wilson draws together archival research on the birth of the digital map with a reconsideration of the critical turn in mapping and cartographic thought. Seeking to bridge a foundational divide within the discipline of geography—between cultural and human geographers and practitioners of Geographic Information Systems (GIS)—Wilson suggests that GIS practitioners may operate within a critical vacuum and may not fully contend with their placement within broader networks, the politics of mapping, the rise of the digital humanities, the activist possibilities of appropriating GIS

technologies, and more. Employing the concept of the drawn and traced line, Wilson treads the theoretical terrain of Deleuze, Guattari, and Gunnar Olsson while grounding their thoughts with the hybrid impulse of the more-than-human thought of Donna Haraway. What results is a series of interventions—fractures in the lines directing everyday life—that provide the reader with an opportunity to consider the renewed urgency of forceful geographic representation. These five fractures are criticality, digitality, movement, attention, and quantification. *New Lines* examines their traces to find their potential and their necessity in the face of our frenetic digital life.

Drawing the Line - Mark S. Monmonier 1995

Argues that maps can be manipulated to distort the truth, and shows how they have been used for propaganda in international affairs, political districting, and finding toxic dump sites

Flattening the Earth - John P. Snyder 1997-12-05

Cartographers have long grappled with the impossibility of portraying the earth in two dimensions. To solve this problem, mapmakers have created map projections. This work discusses and illustrates the known map projections from before 500BC to the present, with facts on their origins and use.

No Dig, No Fly, No Go - Mark Monmonier 2010-05-15

Some maps help us find our way; others restrict where we go and what we do. These maps control behavior, regulating activities from flying to fishing, prohibiting students from one part of town from being schooled on the other, and banishing certain individuals and industries to the periphery. This restrictive cartography has boomed in recent decades as governments seek regulate activities as diverse as hiking, building a residence, opening a store, locating a chemical plant, or painting your house anything but regulation colors. It is this aspect of mapping—its power to prohibit—that celebrated geographer Mark Monmonier tackles in *No Dig, No Fly, No Go*. Rooted in ancient Egypt's need to reestablish property boundaries following the annual retreat of the Nile's floodwaters, restrictive mapping has been indispensable in settling the American West, claiming slices of Antarctica, protecting fragile ocean

fisheries, and keeping sex offenders away from playgrounds. But it has also been used for opprobrium: during one of the darkest moments in American history, cartographic exclusion orders helped send thousands of Japanese Americans to remote detention camps. Tracing the power of prohibitive mapping at multiple levels—from regional to international—and multiple dimensions—from property to cyberspace—Monmonier demonstrates how much boundaries influence our experience—from homeownership and voting to taxation and airline travel. A worthy successor to his critically acclaimed *How to Lie with Maps*, the book is replete with all of the hallmarks of a Monmonier classic, including the wry observations and witty humor. In the end, Monmonier looks far beyond the lines on the page to observe that mapped boundaries, however persuasive their appearance, are not always as permanent and impermeable as their cartographic lines might

suggest. Written for anyone who votes, owns a home, or aspires to be an informed citizen, *No Dig, No Fly, No Go* will change the way we look at maps forever.

Rethinking the Power of Maps - Denis Wood 2010-04-16

A contemporary follow-up to the groundbreaking *Power of Maps*, this book takes a fresh look at what maps do, whose interests they serve, and how they can be used in surprising, creative, and radical ways. Denis Wood describes how cartography facilitated the rise of the modern state and how maps continue to embody and project the interests of their creators. He demystifies the hidden assumptions of mapmaking and explores the promises and limitations of diverse counter-mapping practices today. Thought-provoking illustrations include U.S. Geological Survey maps; electoral and transportation maps; and numerous examples of critical cartography, participatory GIS, and map art.