
How To Lie With Statistics

*How To Lie
With
Statistics*

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How to Lie with Statistics W. W.

Norton & Company

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.

How to Lie with Statistics W. W.

Norton & Company

Over Half a Million Copies Sold--an Honest-to-Goodness Bestseller Darrell Huff runs the gamut of every popularly used type of statistic, probes such things as the sample study, the tabulation method, the interview technique, or the way the results are

derived from the figures, and points up the countless number of dodges which are used to fool rather than to inform.

How to Lie with Statistics W. W. Norton

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 axe 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

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How to Lie With Statistics by Darrell Huff (Summary)

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Do you want more free book summaries like this? Download our app for free at <https://www.QuickRead.com/App> and get access to hundreds of free book and audiobook summaries. Learn to identify how companies use statistics to deceive and manipulate the public. Today our news is bombarded with

statistical information. We are given averages, percentages, and more, and are simply expected to trust these numbers without question. H.G. Wells understood the importance of understanding this information by stating, "Statistical thinking will one day be as necessary for efficient citizenship as the ability to read and write." Unfortunately, many in society don't have a strong sense of statistical thinking, and writers take advantage of this by using the necessary vocabulary and numbers to dupe their readers. At first glance, numbers seem credible and trustworthy, but if you take a deeper look, you might find that there is more than meets the eye. Throughout *How*

to Lie With Statistics, Darrell Huff shares the tricks writers use in statistics to their advantage. As you read, you'll learn when it is statistically safest to drive, how to create the best sample in a study, and why counting all the beans is simply too hard.

How to Lie with Numbers, Stats & Graphs

A Book Containing Truth, Lies & Statistics and Graphs Don't Lie *Lee Baker*

How to Lie with Numbers, Stats & Graphs is a book that contains two of our best sellers – and by far our funniest! In this eye-opening book, award-winning statistician and author Lee Baker uncovers the

key tricks of the trade used by politicians, corporations and other statistical conmen to deceive, hoodwink and otherwise dupe the unwary. Blurb: Truth, Lies & Statistics Pirates, cats, Mexican lemons and North Carolina lawyers. Cheese consumption, margarine and drowning by falling out of fishing boats. This book has got it all. A roller coaster of a book in 8 witty chapters, this might just be the most entertaining statistics book you'll read this year. Did you know that pirates caused global warming, and that a statistical lie gave rise to one of the fastest growing religions on the planet? Probably not - you might have missed the memo that day. Did you also know that

organic food is the real cause of autism, and that Mexican lemons are a major cause of deaths on American roads? They're true, honest - and this book has got the stats to prove it. In this eye-opening book, award winning statistician and author Lee Baker uncovers the key tricks of the trade used by politicians, corporations and other statistical conmen to deceive, hoodwink and otherwise dupe the unwary. Like how the ex-Chancellor of the Exchequer attempted to persuade us that 5 lots of 10 make 150, or how the President of the United States tried to convince us that 420,000 is a larger number than 782,000. Nice try boys, but we were awake that day! In his trademark

sardonic style, the author reveals the secrets of how the statistical hustlers manipulate and misrepresent data for political or commercial gain – and often get away with it. Blurb: Graphs Don't Lie Sarah Palin, abortions, global warming and Usain Bolt. The CEO of Apple, 35 trillion gun deaths in 1995, Fox News and 193%. This book has got scandals galore! With 9 witty chapters taking you on a roller coaster tour of graphical lies, pictorial deceits and pie charts of mayhem, this might just be the most entertaining book about graphs you'll read this year. Did you know that between them, Sarah Palin, Mike Huckabee and Mitt Romney enjoyed a total of 193% support from Republican candidates in the 2012 US primaries? It must be true – it was on a pie chart broadcast on Fox News. Did you also know that the number 34 is smaller than 14, and zero is much bigger than 22? Honest, it's true, it was published in a respectable national newspaper after the 2017 UK General Election. There can't have been any kind of misdirection here because they were all shown on a pie chart. In this astonishing book, award winning statistician and author Lee Baker uncovers how politicians, the press, corporations and other statistical conmen use graphs and charts to deceive their unwitting audience. Like how a shocking, and yet

seemingly innocuous statement as “Every year since 1950, the number of children gunned down has doubled”, meant that there should have been at least 35 trillion gun deaths in 1995 alone, the year the quote was printed in a reputable journal. Or how an anti-abortion group made their point by trying to convince us all that 327,000 is actually a larger number than 935,573. Nice try, but no cigar – we weren’t born yesterday. In his trademark sardonic style, the author reveals the secrets of how the statistical hustlers use graphs and charts to manipulate and misrepresent for political or commercial gain – and often get away with it. Written as

a layman’s guide to lying, cheating and deceiving with data, statistics and graphs, in this book there’s not a dull page in sight! And there are elephants too... Discover the exciting world of lying with data, statistics and graphs. Get this book, TODAY!

The Fair Society

The Science of Human Nature and the Pursuit of Social Justice *University of Chicago Press*

We’ve been told, again and again, that life is unfair. But what if we’re wrong simply to resign ourselves to this situation? What if we have the power—and more, the duty—to change society for the better? We do. And our very nature inclines us

to do so. That's the provocative argument Peter Corning makes in *The Fair Society*. Drawing on the evidence from our evolutionary history and the emergent science of human nature, Corning shows that we have an innate sense of fairness. While these impulses can easily be subverted by greed and demagoguery, they can also be harnessed for good. Corning brings together the latest findings from the behavioral and biological sciences to help us understand how to move beyond the Madoffs and Enrons in our midst in order to lay the foundation for a new social contract—a Biosocial Contract built on a deep understanding of human nature and a

commitment to fairness. He then proposes a sweeping set of economic and political reforms based on three principles of fairness—equality, equity, and reciprocity—that together could transform our society and our world. At this crisis point for capitalism, Corning reveals that the proper response to bank bailouts and financial chicanery isn't to get mad—it's to get fair.

How to Lie with Statistics

Understanding Statistics and Experimental Design

How to Not Lie with Statistics *Springer*

This open access textbook provides the background needed to

correctly use, interpret and understand statistics and statistical data in diverse settings. Part I makes key concepts in statistics readily clear. Parts I and II give an overview of the most common tests (t-test, ANOVA, correlations) and work out their statistical principles. Part III provides insight into meta-statistics (statistics of statistics) and demonstrates why experiments often do not replicate. Finally, the textbook shows how complex statistics can be avoided by using clever experimental design. Both non-scientists and students in Biology, Biomedicine and Engineering will benefit from the book by learning the statistical basis of scientific claims and by

discovering ways to evaluate the quality of scientific reports in academic journals and news outlets.

A Field Guide to Lies

Critical Thinking with Statistics and the Scientific Method *Penguin*

Winner of the National Business Book Award
From the New York Times bestselling author of *The Organized Mind* and *This Is Your Brain on Music*, a primer to the critical thinking that is more necessary now than ever We are bombarded with more information each day than our brains can process—especially in election season. It's raining bad data, half-truths, and even outright lies. New York Times bestselling

author Daniel J. Levitin shows how to recognize misleading announcements, statistics, graphs, and written reports, revealing the ways lying weasels can use them. It's becoming harder to separate the wheat from the digital chaff. How do we distinguish misinformation, pseudo-facts, and distortions from reliable information? Levitin groups his field guide into two categories—statistical information and faulty arguments—ultimately showing how science is the bedrock of critical thinking. Infoliteracy means understanding that there are hierarchies of source quality and bias that variously distort our information feeds via every media channel,

including social media. We may expect newspapers, bloggers, the government, and Wikipedia to be factually and logically correct, but they so often aren't. We need to think critically about the words and numbers we encounter if we want to be successful at work, at play, and in making the most of our lives. This means checking the plausibility and reasoning—not passively accepting information, repeating it, and making decisions based on it. Readers learn to avoid the extremes of passive gullibility and cynical rejection. Levitin's charming, entertaining, accessible guide can help anyone wake up to a whole lot of things that aren't so. And

catch some weasels in their tracks!

Standard Deviations

Flawed Assumptions, Tortured Data, and Other Ways to Lie with Statistics

Abrams

Did you know that baseball players whose names begin with the letter “D” are more likely to die young? Or that Asian Americans are most susceptible to heart attacks on the fourth day of the month? Or that drinking a full pot of coffee every morning will add years to your life, but one cup a day increases the risk of pancreatic cancer? All of these “facts” have been argued with a straight face by credentialed researchers and

backed up with reams of data and convincing statistics. As Nobel Prize-winning economist Ronald Coase once cynically observed, “If you torture data long enough, it will confess.” Lying with statistics is a time-honored con. In *Standard Deviations*, economics professor Gary Smith walks us through the various tricks and traps that people use to back up their own crackpot theories. Sometimes, the unscrupulous deliberately try to mislead us. Other times, the well-intentioned are blissfully unaware of the mischief they are committing. Today, data is so plentiful that researchers spend precious little time distinguishing between

good, meaningful indicators and total rubbish. Not only do others use data to fool us, we fool ourselves. With the breakout success of Nate Silver's *The Signal and the Noise*, the once humdrum subject of statistics has never been hotter. Drawing on breakthrough research in behavioral economics by luminaries like Daniel Kahneman and Dan Ariely and taking to task some of the conclusions of *Freakonomics* author Steven D. Levitt, *Standard Deviations* demystifies the science behind statistics and makes it easy to spot the fraud all around. London Times Book of the Week (2014)

How to Lie with Maps *University of*

Chicago Press

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 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

HBR Guide to Data Analytics Basics for Managers (HBR Guide Series)

Harvard Business Press

Don't let a fear of numbers hold you back. Today's business environment brings with it an onslaught of data. Now more than ever, managers must know how to tease insight from data--to understand where the numbers come from, make sense of them, and use them to inform tough decisions. How do you get started? Whether you're working with data experts or running your own tests, you'll find answers in the *HBR Guide to Data Analytics Basics for Managers*. This book describes three key steps in the data analysis process,

so you can get the information you need, study the data, and communicate your findings to others. You'll learn how to: Identify the metrics you need to measure Run experiments and A/B tests Ask the right questions of your data experts Understand statistical terms and concepts Create effective charts and visualizations Avoid common mistakes

Graphs Don't Lie

How to Lie with Graphs and Get Away With It... *Lee Baker*

Sarah Palin, abortions, global warming and Usain Bolt. The CEO of Apple, 35 trillion gun deaths in 1995, Fox News and 193%. This book has got scandals galore! With 9 witty

chapters taking you on a roller coaster tour of graphical lies, pictorial deceits and pie charts of mayhem, this might just be the most entertaining book about graphs you'll read this year. Did you know that between them, Sarah Palin, Mike Huckabee and Mitt Romney enjoyed a total of 193% support from Republican candidates in the 2012 US primaries? It must be true - it was on a pie chart broadcast on Fox News. Did you also know that the number 34 is smaller than 14, and zero is much bigger than 22? Honest, it's true, it was published in a respectable national newspaper after the 2017 UK General Election. There can't have been any kind of misdirection here

because they were all shown on a pie chart. In this astonishing book, award winning statistician and author Lee Baker uncovers how politicians, the press, corporations and other statistical conmen use graphs and charts to deceive their unwitting audience. Like how a shocking, and yet seemingly innocuous statement as “Every year since 1950, the number of children gunned down has doubled”, meant that there should have been at least 35 trillion gun deaths in 1995 alone, the year the quote was printed in a reputable journal. Or how an anti-abortion group made their point by trying to convince us all that 327,000 is actually a larger number than 935,573.

Nice try, but no cigar – we weren’t born yesterday. In his trademark sardonic style, the author reveals the secrets of how the statistical hustlers use graphs and charts to manipulate and misrepresent for political or commercial gain – and often get away with it. Written as a layman’s guide to lying, cheating and deceiving with graphs, there’s not a dull page in sight! And it’s got elephants in it too... Discover the exciting world of lying with graphs and charts. Get this book, TODAY!

How to Lie with Maps, Third Edition
University of Chicago Press

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.

Statistics Done Wrong

The Woefully Complete Guide *No Starch Press*

Scientific progress depends on good research, and good research needs good statistics. But statistical analysis is

tricky to get right, even for the best and brightest of us. You'd be surprised how many scientists are doing it wrong. *Statistics Done Wrong* is a pithy, essential guide to statistical blunders in modern science that will show you how to keep your research blunder-free. You'll examine embarrassing errors and omissions in recent research, learn about the misconceptions and scientific politics that allow these mistakes to happen, and begin your quest to reform the way you and your peers do statistics. You'll find advice on:

- Asking the right question, designing the right experiment, choosing the right statistical analysis, and sticking to the plan
- How to think about p

values, significance, insignificance, confidence intervals, and regression

- Choosing the right sample size and avoiding false positives
- Reporting your analysis and publishing your data and source code
- Procedures to follow, precautions to take, and analytical software that can help

Scientists: Read this concise, powerful guide to help you produce statistically sound research. Statisticians: Give this book to everyone you know. The first step toward statistics done right is *Statistics Done Wrong*.

How to Lie with Charts

Fourth Edition
LaPuerta Books and Media

This is the new edition

of the definitive textbook on data visualization. There's added material on fake news and social media disinformation, misinterpretation of metadata, and the uses and abuses of Big Data. If you're using a computer to generate charts for meetings and reports, you don't have to be taught how to lie - you're already doing it. You probably don't know your charts are unreliable, and neither does your audience. So you're getting away with it - until a manager or a sales prospect or an investor makes a bad decision based on the information that you were so helpful to provide. The main focus of *How to Lie with Charts* is on the principles of persuasive - and undistorted -

visual communication. It's about careful thinking and clear expression. So don't blame the computers. People are running the show.

The Planet Remade
Princeton University Press

First published in Great Britain by Granta Books, 2015.

**Naked Statistics:
Stripping the Dread
from the Data** *W. W.
Norton & Company*

"Brilliant, funny . . . the best math teacher you never had."—San Francisco Chronicle
Once considered tedious, the field of statistics is rapidly evolving into a discipline Hal Varian, chief economist at Google, has actually called "sexy." From batting averages and

political polls to game shows and medical research, the real-world application of statistics continues to grow by leaps and bounds. How can we catch schools that cheat on standardized tests? How does Netflix know which movies you'll like? What is causing the rising incidence of autism? As best-selling author Charles Wheelan shows us in *Naked Statistics*, the right data and a few well-chosen statistical tools can help us answer these questions and more. For those who slept through Stats 101, this book is a lifesaver. Wheelan strips away the arcane and technical details and focuses on the underlying intuition that drives statistical analysis. He clarifies key concepts such as inference, correlation, and regression analysis, reveals how biased or careless parties can manipulate or misrepresent data, and shows us how brilliant and creative researchers are exploiting the valuable data from natural experiments to tackle thorny questions. And in Wheelan's trademark style, there's not a dull page in sight. You'll encounter clever Schlitz Beer marketers leveraging basic probability, an International Sausage Festival illuminating the tenets of the central limit theorem, and a head-scratching choice from the famous game show *Let's Make a Deal*—and you'll come away with insights each time.

With the wit, accessibility, and sheer fun that turned *Naked Economics* into a bestseller, Wheelan defies the odds yet again by bringing another essential, formerly unglamorous discipline to life.

Logically Fallacious

The Ultimate Collection of Over 300 Logical Fallacies (Academic Edition)

eBookIt.com

This book is a crash course in effective reasoning, meant to catapult you into a world where you start to see things how they really are, not how you think they are. The focus of this book is on logical fallacies, which loosely defined, are simply errors in reasoning. With the reading of each page,

you can make significant improvements in the way you reason and make decisions. *Logically Fallacious* is one of the most comprehensive collections of logical fallacies with all original examples and easy to understand descriptions, perfect for educators, debaters, or anyone who wants to improve his or her reasoning skills. "Expose an irrational belief, keep a person rational for a day. Expose irrational thinking, keep a person rational for a lifetime." - Bo Bennett This 2021 Edition includes dozens of more logical fallacies with many updated examples.

Thicker Than Blood

How Racial Statistics

Lie U of Minnesota Press

Tukufu Zuberi offers a concise account of the historical connections between the development of the idea of race and the birth of social statistics. Zuberi describes the ways race-differentiated data is misinterpreted in the social sciences and asks searching questions about the ways racial statistics are used. He argues that statistical analysis can and must be deracialized, and that this deracialization is essential to the goal of achieving social justice for all.

Statistics for Political Analysis

Understanding the Numbers *CQ Press*

Statistics are just as

vital to understanding political science as the study of institutions, but getting students to understand them when teaching a methods course can be a big challenge. *Statistics for Political Analysis* makes understanding the numbers easy. The only introduction to statistics book written specifically for political science

undergraduates, this book explains each statistical concept in plain language—from basic univariate statistics and the basic measures of association to bivariate and multivariate regression—and uses real world political examples. Students learn the relevance of statistics to political science, how to understand and calculate statistics

mathematically, and how to obtain them using SPSS. All calculations are modeled step-by-step, giving students needed practice to master the process without making it intimidating. Each chapter concludes with exercises that get students actively applying the steps and building their professional skills through data calculation, analysis, and memo writing.

understanding how numbers can confuse us. In his new afterword, Best uses examples from recent policy debates to reflect on the challenges to improving statistical literacy. Since its publication ten years ago, *Damned Lies and Statistics* has emerged as the go-to handbook for spotting bad statistics and learning to think critically about these influential numbers.

Damned Lies and Statistics

Untangling Numbers from the Media, Politicians, and Activists *Univ of California Press*

Here, by popular demand, is the updated edition to Joel Best's classic guide to

Teaching Statistics

A Bag of Tricks *OUP Oxford*

Students in the sciences, economics, psychology, social sciences, and medicine take introductory statistics. Statistics is increasingly offered at the high school level as

well. However, statistics can be notoriously difficult to teach as it is seen by many students as difficult and boring, if not irrelevant to their subject of choice. To help dispel these misconceptions, Gelman and Nolan have put together this fascinating and thought-provoking book. Based on years of teaching experience the book provides a wealth of demonstrations, examples and projects that involve active student participation. Part I of the book presents a large selection of activities for introductory statistics courses and combines chapters such as, 'First week of class', with exercises to break the ice and get students talking; then

'Descriptive statistics', collecting and displaying data; then follows the traditional topics - linear regression, data collection, probability and inference. Part II gives tips on what does and what doesn't work in class: how to set up effective demonstrations and examples, how to encourage students to participate in class and work effectively in group projects. A sample course plan is provided. Part III presents material for more advanced courses on topics such as decision theory, Bayesian statistics and sampling.

Head First Statistics

"O'Reilly Media, Inc."

A comprehensive introduction to statistics that teaches

the fundamentals with real-life scenarios, and covers histograms, quartiles, probability, Bayes' theorem, predictions, approximations, random samples, and related topics.

How to Win Friends and Influence People

Sristhi Publishers & Distributors

Do you feel stuck in life, not knowing how to make it more successful? Do you wish to become more popular? Are you craving to earn more? Do you wish to expand your horizon, earn new clients and win people over with your ideas? *How to Win Friends and Influence People* is a well-researched and comprehensive guide that will help you through these

everyday problems and make success look easier. You can learn to expand your social circle, polish your skill set, find ways to put forward your thoughts more clearly, and build mental strength to counter all hurdles that you may come across on the path to success. Having helped millions of readers from the world over achieve their goals, the clearly listed techniques and principles will be the answers to all your questions.

Common Errors in Statistics (and How to Avoid Them)

John Wiley & Sons

Praise for the Second Edition "All statistics students and teachers will find in this book a friendly and intelligent guide to . . . applied statistics

inpractice." —Journal of Applied Statistics ". . . a very engaging and valuable book for all who use statistics in any setting." —CHOICE ". . . a concise guide to the basics of statistics, replete with examples . . . a valuable reference for more advanced statisticians as well." —MAA Reviews Now in its Third Edition, the highly readable *Common Errors in Statistics (and How to Avoid Them)* continues to serve as a thorough and straightforward discussion of basic statistical methods, presentations, approaches, and modeling techniques. Further enriched with new examples and counterexamples from the latest research as well as added coverage of relevant topics,

this new edition of the benchmark book addresses popular mistakes often made in data collection and provides an indispensable guide to accurate statistical analysis and reporting. The authors' emphasis on careful practice, combined with a focus on the development of solutions, reveals the true value of statistics when applied correctly in any area of research. The Third Edition has been considerably expanded and revised to include: A new chapter on data quality assessment A new chapter on correlated data An expanded chapter on data analysis covering categorical and ordinal data, continuous measurements, and time-to-event

data, including sections on factorial and crossover designs. Revamped exercises with a stronger emphasis on solutions. An extended chapter on report preparation. New sections on factor analysis as well as Poisson and negative binomial regression. Providing valuable, up-to-date information in the same user-friendly format as its predecessor, *Common Errors in Statistics (and How to Avoid Them)*, Third Edition is an excellent book for students and professionals in industry, government, medicine, and the social sciences.

Statistics in a Nutshell "O'Reilly Media, Inc."

A clear and concise

introduction and reference for anyone new to the subject of statistics.

Lies, Damn Lies, and Statistics

The Manipulation of Public Opinion in America

Spurious Correlations *Hachette Books*

"Spurious Correlations ... is the most fun you'll ever have with graphs." --Bustle
Military intelligence analyst and Harvard Law student Tyler Vigen illustrates the golden rule that "correlation does not equal causation" through hilarious graphs inspired by his viral website. Is there a correlation between Nic Cage films and swimming pool

accidents? What about beef consumption and people getting struck by lightning? Absolutely not. But that hasn't stopped millions of people from going to tylervigen.com and asking, "Wait, what?" Vigen has designed software that scours enormous data sets to find unlikely statistical correlations. He began pulling the funniest ones for his website and has since gained millions of views, hundreds of thousands of likes, and tons of media coverage. Subversive and clever, *Spurious Correlations* is geek humor at its finest, nailing our obsession with data and conspiracy theory.

The Data Detective

Ten Easy Rules to

Make Sense of Statistics *Penguin*

From "one of the great (greatest?)

contemporary popular writers on economics"

(Tyler Cowen) comes a smart, lively, and

encouraging rethinking of how to use statistics.

Today we think statistics are the

enemy, numbers used to mislead and confuse

us. That's a mistake, Tim Harford says in

The Data Detective. We shouldn't be

suspicious of statistics—we need to

understand what they mean and how they

can improve our lives: they are, at heart,

human behavior seen through the prism of

numbers and are often "the only way of

grasping much of what is going on around us."

If we can toss aside our fears and learn to

approach them clearly—understanding how our own preconceptions lead us astray—statistics can point to ways we can live better and work smarter. As “perhaps the best popular economics writer in the world” (New Statesman), Tim Harford is an expert at taking complicated ideas and untangling them for millions of readers. In *The Data Detective*, he uses new research in science and psychology to set out ten strategies for using statistics to erase our biases and replace them with new ideas that use virtues like patience, curiosity, and good sense to better understand ourselves and the world. As a result, *The Data Detective* is a big-idea book about statistics

and human behavior that is fresh, unexpected, and insightful.

Straightforward Statistics

Understanding the Tools of Research
Oxford University Press, USA

This book is a clear and direct introduction to statistics for the social, behavioral, and life sciences. Students should find this book easy useful and engaging in its presentation while instructors should find it detailed, comprehensive, accessible, and helpful in complementing a basic course in statistics.

More Damned Lies and Statistics

How Numbers Confuse Public Issues *Univ of California Press*

In this sequel to the acclaimed *Damned Lies and Statistics*, which the *Boston Globe* said "deserves a place next to the dictionary on every school, media, and home-office desk," Joel Best continues his straightforward, lively, and humorous account of how statistics are produced, used, and misused by everyone from researchers to journalists. Underlining the importance of critical thinking in all matters numerical, Best illustrates his points with examples of good and bad statistics about such contemporary concerns as school shootings, fatal hospital errors,

bullying, teen suicides, deaths at the World Trade Center, college ratings, the risks of divorce, racial profiling, and fatalities caused by falling coconuts. *More Damned Lies and Statistics* encourages all of us to think in a more sophisticated and skeptical manner about how statistics are used to promote causes, create fear, and advance particular points of view. Best identifies different sorts of numbers that shape how we think about public issues: missing numbers are relevant but overlooked; confusing numbers bewilder when they should inform; scary numbers play to our fears about the present and the future; authoritative numbers demand respect they don't

deserve; magical numbers promise unrealistic, simple solutions to complex problems; and contentious numbers become the focus of data duels and stat wars. The author's use of pertinent, socially important examples documents the life-altering consequences of understanding or misunderstanding statistical information. He demystifies statistical measures by explaining in straightforward prose how decisions are made about what to count and what not to count, what assumptions get made, and which figures are brought to our attention. Best identifies different sorts of numbers that shape how we think about public issues.

Entertaining, enlightening, and very timely, this book offers a basis for critical thinking about the numbers we encounter and a reminder that when it comes to the news, people count—in more ways than one.

The Rules of Contagion

Why Things Spread - and Why They Stop *Profile Books*

An Observer Book of the Year
A Times Science Book of the Year
A New Statesman Book of the Year
A Financial Times Science Book of the Year
'It is hard to imagine a more timely book ... much of the modern world will make more sense having read it.' The Times
A deadly virus suddenly explodes into

the population. A political movement gathers pace, and then quickly vanishes. An idea takes off like wildfire, changing our world forever. We live in a world that's more interconnected than ever before. Our lives are shaped by outbreaks - of disease, of misinformation, even of violence - that appear, spread and fade away with bewildering speed. To understand them, we need to learn the hidden laws that govern them. From 'superspreaders' who might spark a pandemic or bring down a financial system to the social dynamics that make loneliness catch on, *The Rules of Contagion* offers compelling insights into human behaviour and explains

how we can get better at predicting what happens next. Along the way, Adam Kucharski explores how innovations spread through friendship networks, what links computer viruses with folk stories - and why the most useful predictions aren't necessarily the ones that come true.

Picturing the Uncertain World

How to Understand, Communicate, and Control Uncertainty through Graphical Display *Princeton University Press*

In his entertaining and informative book *Graphic Discovery*, Howard Wainer unlocked the power of graphical display to make complex problems clear. Now

he's back with *Picturing the Uncertain World*, a book that explores how graphs can serve as maps to guide us when the information we have is ambiguous or incomplete. Using a visually diverse sampling of graphical display, from heartrending autobiographical displays of genocide in the Kovno ghetto to the "Pie Chart of Mystery" in a New Yorker cartoon, Wainer illustrates the many ways graphs can be used--and misused--as we try to make sense of an uncertain world. *Picturing the Uncertain World* takes readers on an extraordinary graphical adventure, revealing how the visual communication of data offers answers to vexing questions yet also highlights the measure of uncertainty in almost everything we do. Are cancer rates higher or lower in rural communities? How can you know how much money to sock away for retirement when you don't know when you'll die? And where exactly did nineteenth-century novelists get their ideas? These are some of the fascinating questions Wainer invites readers to consider. Along the way he traces the origins and development of graphical display, from William Playfair, who pioneered the use of graphs in the eighteenth century, to instances today where the public has been misled through poorly designed graphs. We live in a world full of

uncertainty, yet it is within our grasp to take its measure. Read *Picturing the Uncertain World* and learn how.

How to Make the World Add Up

Ten Rules for Thinking Differently about Numbers

Abacus

Factfulness meets *How to Be Right* in this major new book from globally bestselling economist Tim Harford 'Tim Harford is our most likeable champion of reason and rigour... clear, clever and always highly readable' *Times Books of the Year* 'If you aren't in love with stats before reading this book, you will be by the time you're done. Powerful, persuasive, and in these truth-defying

times, indispensable' Caroline Criado Perez, author of *Invisible Women* 'Nobody makes the statistics of everyday life more fascinating and enjoyable than Tim Harford' Bill Bryson 'Fabulously readable, lucid, witty and authoritative... Every politician and journalist should be made to read this book, but everyone else will get so much pleasure and draw so much strength from the joyful way it dispels the clouds of deceit and delusion' Stephen Fry 'Wise, humane and, above all, illuminating. Nobody is better on statistics and numbers - and how to make sense of them' Matthew Syed **THE SUNDAY TIMES BUSINESS BESTSELLER** When was the last time you read a grand

statement, accompanied by a large number, and wondered whether it could really be true? Statistics are vital in helping us tell stories - we see them in the papers, on social media, and we hear them used in everyday conversation - and yet we doubt them more than ever. But numbers - in the right hands - have the power to change the world for the better. Contrary to popular belief, good statistics are not a trick, although they are a kind of magic. Good statistics are not smoke and mirrors; in fact, they help us see more clearly. Good statistics are like a telescope for an astronomer, a microscope for a bacteriologist, or an X-ray for a radiologist. If

we are willing to let them, good statistics help us see things about the world around us and about ourselves - both large and small - that we would not be able to see in any other way. In *How to Make the World Add Up*, Tim Harford draws on his experience as both an economist and presenter of the BBC's radio show 'More or Less'. He takes us deep into the world of disinformation and obfuscation, bad research and misplaced motivation to find those priceless jewels of data and analysis that make communicating with numbers worthwhile. Harford's characters range from the art forger who conned the Nazis to the stripper who fell in love with the most powerful

congressman in Washington, to famous data detectives such as John Maynard Keynes, Daniel Kahneman and Florence Nightingale. He reveals how we can evaluate the claims that surround us with confidence, curiosity and a healthy level of scepticism. Using ten simple rules for understanding numbers - plus one golden rule - this extraordinarily insightful book shows how if we keep our wits about us, thinking carefully about the way numbers are sourced and presented, we can look around us and see with crystal clarity how the world adds up.

Stat-Spotting

A Field Guide to Identifying Dubious Data *Univ of California*

Press

This edition updates benchmarks, includes a new chapter on rhetoric, updated a few examples, and thoroughly updated the bibliography.

The Probability Of God

A Simple Calculation That Proves The Ultimate Truth *Crown Forum*

A thoughtful approach to justifying religion using scientific principles reveals how a two-hundred-year-old mathematical equation, developed by European philosopher Thomas Bayes, can be used to prove the probability of God's existence. Reprint. 10,000 first printing.

SUMMARY - How To Lie With Statistics

By Darrell Huff
Shortcut Edition

* Our summary is short, simple and pragmatic. It allows you to have the essential ideas of a big book in less than 30 minutes. *By reading this summary, you will learn how to defend yourself against the misused statistics that litter our daily lives. *You will also learn : the importance of statistical samples; to be wary of missing data; how to identify misleading graphs; how to manipulate statistical jargon to your advantage; what questions to ask yourself to avoid falling into the trap set by certain statistics. *Statistics are very useful, but they can be misused to sell a product, convince voters, or attract

attention. For example, a local newspaper, with its focus on crime, may make its readers believe that they live in a dangerous place, and a study explaining that after ingesting a certain medication, colds tend to disappear, may make people buy a product that is as effective as no treatment at all! Statistics have the devious advantage of appearing factual, which is what makes them attractive, but in the mouth of a dishonest person, they can fool even the most discerning readers. This book serves not as an instruction manual for crooks, but as a self-defense manual for their potential victims: honest people. *Buy now the summary of this book for the modest price of a cup

of coffee!

Scammed by Statistics

How We Are Lied To, Cheated and Manipulated by Statistics... and Why You Should Care

We are continually bombarded by charts, graphs, and quotes from various studies with the goal of influencing our opinions, health, or buying habits, yet we seldom know if we are being manipulated, deceived, and lied to by those presenting the data. *Scammed by Statistics* uses countless real examples to illustrate the good and evil of numbers and in the process, exposes the numerous techniques that are used to distort and misuse numbers.

Readers will never again be able to read the news, watch TV, or read a magazine without a degree of healthy skepticism.

How Charts Lie: Getting Smarter about Visual Information W. W.

Norton & Company

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, one that will make us
How Charts Lie better equipped to
demystifies navigate our data-
an driven world.
essential new literacy,