

Data Journalism Books

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[Metrics at Work](#) Columbia University Press

No matter what your actual job title, you are—or soon will be—a data worker. Every day, at work, home, and school, we are bombarded with vast amounts of free data collected and shared by everyone and everything from our co-workers to our calorie counters. In this highly anticipated follow-up to *The Functional Art*—Alberto Cairo's foundational guide to understanding information graphics and visualization—the respected data visualization professor explains in clear terms how to work with data, discover the stories hidden within, and share those stories with the world in the form of charts, maps, and infographics. In *The Truthful Art*, Cairo transforms elementary principles of data and scientific reasoning into tools that you can use in daily life to interpret data sets and extract stories from them. *The Truthful Art* explains:

- The role infographics and data visualization play in our world
- Basic principles of data and scientific reasoning that anyone can master
- How to become a better critical thinker
- Step-by-step processes that will help you evaluate any data visualization (including your own)
- How to create and use effective charts, graphs, and data maps to explain data to any audience

The Truthful Art is also packed with inspirational and educational real-world examples of data visualizations from such leading publications as *The New York Times*, *The Wall Street Journal*, *Estado de São Paulo* (Brazil), *Berliner Morgenpost* (Germany), and many more.

[Data Journalism and the Search for Objectivity](#) The Data Journalism Handbook

How Journalists Can Use Data to Improve the News
With *The Data Journalism Handbook*, you'll explore the potential, limits, and applied use of this new and fascinating field. This handbook has attracted scores of contributors since the European Journalism Centre and the Open Knowledge Foundation launched the project at MozFest 2011. Through a collection of tips and techniques from leading journalists, professors, software developers, and data analysts, you'll learn how data can be either the source of data journalism or a tool with which the story is told—or both.

[Info We Trust](#) Princeton University Press

This book offers an interdisciplinary introduction to data journalism, offering a unique combination of critical reflection and practical insight into the field, including how data journalism is done around the world and the broader consequences of datafication in the news.

[How Computers Misunderstand the World](#) CRC Press

The definitive guide to using data and technology in reporting, this text teaches students how to combine data analysis with traditional reporting to create compelling stories. Through coverage of theory, practical examples, online tutorials, and celebrated stories from around the world, this text demonstrates the tools and principles of data-driven journalism.

[Data Literacy](#) TheSchoolbook.com

As technological and legal changes have hollowed out the protections that reporters and news organizations have depended upon for decades, information security concerns facing journalists as they report, produce, and disseminate the news have only intensified. From source prosecutions to physical attacks and online harassment, the last two decades have seen a dramatic increase in the risks faced by journalists at all levels even as the media industry confronts drastic cutbacks in budgets and staff. As a result, few professional or aspiring journalists have a comprehensive understanding of what is required to keep their sources, stories, colleagues, and reputations safe. This book is an essential guide to protecting news writers, sources, and organizations in the digital era. Susan E. McGregor provides a systematic understanding of the key technical, legal, and conceptual issues that anyone teaching, studying, or practicing journalism should know. Bringing together expert insights from both leading academics and security professionals who work at and with news organizations from BuzzFeed to the Associated Press, she lays out key principles and approaches for building information security into journalistic practice. McGregor draws on firsthand experience as a Wall Street Journal staffer, followed by a decade of researching, testing, and developing information security tools and practices. Filled with practical but evergreen advice that can enhance the security and efficacy of everything from daily beat reporting to long-term investigative projects, *Information Security Essentials* is a vital tool for journalists at all levels.

[Understanding Journalism](#) Routledge

Will the use of artificial intelligence (AI), algorithms, and smart machines be the end of journalism as we know it—or its savior? In *Newsmakers*, Francesco Marconi, who has led the development of the Associated Press and Wall Street Journal's use of AI in journalism, offers a new perspective on the potential of these technologies. He explains how reporters, editors, and newsrooms of all sizes can take advantage of the possibilities they provide to develop new ways of telling stories and connecting with readers. Marconi analyzes the challenges and opportunities of AI through case studies ranging from financial publications using algorithms to write earnings reports to investigative reporters analyzing large data sets to outlets determining the distribution of news on social media. *Newsmakers* contends that AI can augment—not automate—the industry, allowing journalists to break more news more quickly while simultaneously freeing up their time for deeper analysis. Marshaling insights drawn from firsthand experience, Marconi maps a media landscape transformed by artificial intelligence for the better. In addition to considering the benefits of these new technologies, Marconi stresses the continuing need for editorial and institutional oversight. *Newsmakers* outlines the important questions that journalists and media organizations should consider when integrating AI and algorithms into their workflow. For journalism students as well as seasoned media professionals, Marconi's insights provide much-needed clarity and a practical roadmap for how AI can best serve journalism.

[Communicating Data with Tableau](#) Columbia University Press

Faced with a full-blown crisis, a growing number of journalists are engaging in seemingly unjournalistic practices such as creating and maintaining databases, handling algorithms, or designing online applications. "Data journalists" claim that these approaches help the profession demonstrate greater objectivity and fulfill its democratic mission. In their view, computational methods enable journalists to better inform their readers, more closely monitor those in power, and offer deeper analysis. In *Computing the News*, Sylvain Parasié examines how data journalists and news organizations have navigated the tensions between traditional journalistic values and new technologies. He traces the history of journalistic hopes for computing technology and contextualizes the surge of data journalism in the twenty-first century. By importing computational techniques and ways of knowing new to journalism, news organizations have come to depend on a broader array of human and nonhuman actors. Parasié draws on extensive fieldwork in the United States and France, including interviews with journalists, data scientists, and technologists as well as a behind-the-scenes look at several acclaimed projects in both countries. Ultimately, he argues, fulfilling the promise of

data journalism requires the renewal of journalistic standards and ethics. Offering an in-depth analysis of how computing has become part of the daily practices of journalists, this book proposes ways for journalism to evolve in order to serve democratic societies.

[The Power of Data](#) Rowman & Littlefield

Data Journalism and the Regeneration of News traces the emergence of data journalism through a scholarly lens. It reveals the growth of data journalism as a subspecialty, cultivated and sustained by an increasing number of professional identities, tools and technologies, educational opportunities and new forms of collaboration and computational thinking. The authors base their analysis on five years of in-depth field research, largely in Canada, an example of a mature media system. The book identifies how data journalism's development is partly due to it being at the center of multiple crises and shocks to journalism, including digitalization, acute mis- and dis-information concerns and increasingly participatory audiences. It highlights how data journalists, particularly in well-resourced newsrooms, are able to address issues of trust and credibility to advance their professional interests. These journalists are operating as institutional entrepreneurs in a field still responding to the disruption effects of digitalization more than 20 years ago. By exploring the ways in which data journalists are strategically working to modernize the way journalists talk about methods and maintain journalism authority, *Data Journalism and the Regeneration of News* introduces an important new dimension to the study of digital journalism for researchers, students and educators.

[The Data Journalist](#) W. W. Norton & Company

Investigative journalism emerged in China in the 1980s following Deng Xiaoping's media reforms. Over the past few decades, Chinese investigative journalists have produced an increasing number of reports in print or on air and covered a surprisingly wide range of topics which had been thought impossible by the standards of the Communist era. In the 2010s, however, investigative journalism has been replaced by activist journalism. This book examines how, with the aid of new media technologies and in response to new calls for social responsibility, these new-era journalists vigorously seek to expand the scope of their journalism and their capacity as journalists. They tend to perceive themselves as more than professional journalists, and their activities are not limited to the physical boundaries of newsrooms. They are not only detached observers of society but also engaged organizers of social movements—they are social activists as well as responsible journalists who challenge state power and the party line and point to the limitations of the more traditional conceptions of journalism in China. This book analyzes how journalism in China has been gradually transformed from a tool of the state to a means of broadening calls for democratic reform.

[Information Security Essentials](#) Amsterdam University Press

What is the true human cost of the war in Afghanistan? What are the real effects of the austerity measure? And how did the London riots spread so quickly? Facts are Sacred, the Guardian's award-winning datablog, publishes and analyses seemingly benign data - released under the auspices of transparency - to bring its readers astonishing revelations about the way we live now. It reveals how data has changed our world and what we can learn from it. Now, the most telling findings from the blog are brought together to give us the facts and figures behind the headlines, beautifully illustrated with extensive data visualisations. Ground-breaking and fascinating, it celebrates a resource that has pushed the boundaries of modern journalism and is a manifesto for a new way of seeing things.

[A History of Data Graphics in News and Communications](#) O'Reilly Media, Inc."

From the quality of the air we breathe to the national leaders we choose, data and statistics are a pervasive feature of daily life and daily news. But how do news, numbers and public opinion interact with each other — and with what impacts on society at large? Featuring an international roster of established and emerging scholars, this book is the first comprehensive collection of research into the little understood processes underpinning the uses/misuses of statistical information in journalism and their socio-psychological and political effects. Moving beyond the hype around "data journalism," *News, Numbers and Public Opinion* delves into a range of more latent, fundamental questions such as:

- Is it true that most citizens and journalists do not have the necessary skills and resources to critically process and assess numbers?
- How do/should journalists make sense of the increasingly data-driven world?
- What strategies, formats and frames do journalists use to gather and represent different types of statistical data in their stories?
- What are the socio-psychological and political effects of such data gathering and representation routines, formats and frames on the way people acquire knowledge and form attitudes?
- What skills and resources do journalists and publics need to deal effectively with the influx of numbers into in daily work and life — and how can newsrooms and journalism schools meet that need?

The book is a must-read for not only journalists, journalism and media scholars, statisticians and data scientists but also anybody interested in the interplay between journalism, statistics and society.

[Data for Journalists](#) Springer

When you combine the sheer scale and range of digital information now available with a journalist's "nose for news" and her ability to tell a compelling story, a new world of possibility opens up. With *The Data Journalism Handbook*, you'll explore the potential, limits, and applied uses of this new and fascinating field. This valuable handbook has attracted scores of contributors since the European Journalism Centre and the Open Knowledge Foundation launched the project at MozFest 2011. Through a collection of tips and techniques from leading journalists, professors, software developers, and data analysts, you'll learn how data can be either the source of data journalism or a tool with which the story is told—or both. Examine the use of data journalism at the BBC, the Chicago Tribune, the Guardian, and other news organizations. Explore in-depth case studies on elections, riots, school performance, and corruption. Learn how to find data from the Web, through freedom of information laws, and by "crowd sourcing." Extract information from raw data with tips for working with numbers and statistics and using data visualization. Deliver data through infographics, news apps, open data platforms, and download links.

[Journalism in an Era of Big Data](#) Routledge

This book is your guide to understanding what journalism is and could be in an age of digital technology and datafication. Journalism today is entwined with the digital. Stories can come from crowdsourcing and content farms. They can incorporate data visualisations and virtual reality. Journalists can find themselves working as self-employed digital entrepreneurs or for tech giants like Google and Facebook. This book explores the development of journalism in this era of digital tech, and big and open data. It explores the crucial new developments of online journalism, data journalism, computational journalism and entrepreneurial journalism, and what this means for our understanding of journalism as a profession, and as a part of society. Using a wealth of international case studies, Jingrong Tong explores contemporary issues such as: AI, Automated news, 'robot reporters', and algorithmic accountability. Digital business models, from venture capital to tech start-ups to crowd-funding. Audiences and dissemination in an age of platform capitalism. Questions of censorship, democracy and state control. Digital challenges to journalistic autonomy and legitimacy. With clear explanations throughout, *Journalism in the Data Age* introduces you to a range of ideas, debates and key concepts. It is essential reading for all students of journalism. Dr Jingrong Tong is Senior Lecturer in Digital News Cultures at the University of Sheffield.

[Data Sketches](#) John Wiley & Sons

Big data is marked by staggering growth in the collection and analysis of digital trace information regarding human and natural activity, bound up in and enabled by the rise of persistent connectivity, networked communication, smart machines, and the internet of things. In addition to their impact

on technology and society, these developments have particular significance for the media industry and for journalism as a practice and a profession. These data-centric phenomena are, by some accounts, poised to greatly influence, if not transform, some of the most fundamental aspects of news and its production and distribution by humans and machines. What such changes actually mean for news, democracy, and public life, however, is far from certain. As such, there is a need for scholarly scrutiny and critique of this trend, and this volume thus explores a range of phenomena—from the use of algorithms in the newsroom, to the emergence of automated news stories—at the intersection between journalism and the social, computer, and information sciences. What are the implications of such developments for journalism's professional norms, routines, and ethics? For its organizations, institutions, and economics? For its authority and expertise? And for the epistemology that underwrites journalism's role as knowledge-producer and sense-maker in society? Altogether, this book offers a first step in understanding what big data means for journalism. This book was originally published as a special issue of *Digital Journalism*.

[How Charts Lie: Getting Smarter about Visual Information](#) Columbia University Press

Data journalism: Past, present and future Foreword by Simon Rogers, Head of Google Data Lab8 This is the third in the Abramis Data Journalism series and twenty first in the acclaimed 'hackademic' series. As ever with a new collection, there are new authors and fresh perspectives. A vast range of topics is covered - including the Panama Papers exposé, the role of data journalism in the recent UK general elections and referenda, the challenges facing DJ in China and Russia, and an overview of the history of DJ in the US and UK - while experts provide tips on improving DJ skills. The authors include some of the world's leading data journalists - and top academics, trainers and activists in the field: Mar Cabra, Lucas Batt, Paul Bradshaw, Adam Cantwell-Corn, Harry Carr, Erin Coates, Aasma Day, Shiting Ding, Peter Geoghegan, Leila Haddou, Kathryn Hayes, Bahareh Heravi, Jonathan Hewett, Eliot Higgins, Bella Hurrell, Teresa Jolley, Marie Kinsey, Sixian Li, Joseph O'Leary, Isabelle Marchand, Claire Miller, Petar Milin, Rob Minto, Martin Moore, William Perrin, Damian Radcliffe, Gordon M. Ramsay, Simon Rogers, Sarah Rose, Jonathan Spencer, Anastasia Veleeva, John Walton and Hugh Westbrook. Editors John Mair is the series editor of the Abramis 'hackademic' books. Professor Richard Lance Keeble has co-edited many of them with him and is the author or editor of 36 books. Megan Lucero is the Director of the new data journalism hub at the Bureau of Investigative Journalism and Martin Moore is the Director of the Centre for the Study of Media, Communication and Power at King's College London.

New Riders

In *Data Sketches*, Nadieh Bremer and Shirley Wu document the deeply creative process behind 24 unique data visualization projects, and they combine this with powerful technical insights which reveal the mindset behind coding creatively. Exploring 12 different themes — from the Olympics to Presidents & Royals and from Movies to Myths & Legends — each pair of visualizations explores different technologies and forms, blurring the boundary between visualization as an exploratory tool and an artform in its own right. This beautiful book provides an intimate, behind-the-scenes account of all 24 projects and shares the authors' personal notes and drafts every step of the way. The book features: Detailed information on data gathering, sketching, and coding data visualizations for the web, with screenshots of works-in-progress and reproductions from the authors' notebooks Never-before-published technical write-ups, with beginner-friendly explanations of core data visualization concepts Practical lessons based on the data and design challenges overcome during each project Full-color pages, showcasing all 24 final data visualizations This book is perfect for anyone interested or working in data visualization and information design, and especially those who want to take their work to the next level and are inspired by unique and compelling data-driven storytelling.

Knowledge Is Beautiful CRC Press

The idea of the journo-coder, programmer-journalist, hacker-journalist, journo-programmer (the terminology is undecided) is gaining ground as data journalism develops both in Britain and internationally. Programmers are coming into newsrooms, journalists are venturing further into programming and there is some blurring where the two meet. Data journalism (DJ) is certainly becoming the Big Buzz Story in the media but so far little has been written about it. This new, jargon-free text, edited by John Mair and Richard Lance Keeble (with Teodora Beleaga and Paul Bradshaw), provides an original and thought-provoking insight into DJ. The first section, with contributions from Teodora Beleaga and Simon Rogers, explores various definitions of DJ; in another, experts, such as Paul Bradshaw, Nicola Hughes, Daniel Ionescu and Pupul Chatterjee provide some useful tips on developing DJ skills. Tom Felle interviews a group of international data journalists and finds they all argue their work can play a crucial democratic role in holding the powerful to account Andy Dickinson wonders if the growing field of sensor journalism offers an insight into what comes next for DJ Jacqui Taylor, Bella Hurrell and John Walton focus on data visualisations Andrew Rininsland argues that anyone "willing to learn DJ will find they are given an unparalleled ability to create visualisations that bring data alive" Arthur Lashmar shows how an international consortium of journalists used DJ skills to expose the use of offshore tax havens by the world's rich and famous Other chapters are provided by Chris Frost, Liz Hannaford, Jonathan Hewett, Gabriel Keeble-Gagnere, Damian Radcliffe, Yaneng Feng, Qian Li and John Burn-Murdoch

[A Guide for Scholars, Researchers, and Wonks](#) SAGE

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.

[Getting the Story](#) CRC Press

A new way of thinking about data science and data ethics that is informed by the ideas of intersectional feminism. Today, data science is a form of power. It has been used to expose injustice, improve health outcomes, and topple governments. But it has also been used to discriminate, police, and surveil. This potential for good, on the one hand, and harm, on the other, makes it essential to ask: Data science by whom? Data science for whom? Data science with whose interests in mind? The narratives around big data and data science are overwhelmingly white, male, and techno-heroic. In *Data Feminism*, Catherine D'Ignazio and Lauren Klein present a new way of thinking about data science and data ethics—one that is informed by intersectional feminist thought. Illustrating data feminism in action, D'Ignazio and Klein show how challenges to the male/female binary can help challenge other hierarchical (and empirically wrong) classification systems. They explain how, for example, an understanding of emotion can expand our ideas about effective data visualization, and how the concept of invisible labor can expose the significant human efforts required by our automated systems. And they show why the data never, ever “speak for themselves.” *Data Feminism* offers strategies for data scientists seeking to learn how feminism can help them work toward justice, and for feminists who want to focus their efforts on the growing field of data science. But *Data Feminism* is about much more than gender. It is about power, about who has it and who doesn't, and about how those differentials of power can be challenged and changed.

[Towards A Critical Data Practice](#) MIT Press

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