



The Truthful Art: Data, Charts, and Maps for Communication

By Alberto Cairo

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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.

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Editorial Review

Review

"Alberto Cairo is widely acknowledged as journalism's preeminent data viz wiz. He is also journalism's preeminent data scholar. As newsrooms rush to embrace data journalism as a new tool—and toy—Cairo sets the standard for how data should be understood, analyzed, and presented. *The Truthful Art* is both a manifesto and a manual for how to use data to accurately, clearly, engagingly, imaginatively, beautifully, and reliably inform the public."

- Jeff Jarvis, professor at CUNY Graduate School of Journalism and author of *Geeks Bearing Gifts: Imagining New Futures for News*

"A feast for both the eyes and mind, Alberto Cairo's *The Truthful Art* deftly explores the science—and art—of data visualization. The book is a must-read for scientists, educators, journalists, and just about anyone who cares about how to communicate effectively in the information age."

- Michael E. Mann, Distinguished Professor, Penn State University and author of *The Hockey Stick and the Climate Wars*

"If I were smarter, had more patience with academia, and had more focus, I might turn out to be more like Alberto, closer to the brilliance that he applies to the nature of information architecture. His title explains a lot: truth represents a most fundamental of attitudes, in questions asked, answers given and journeys taken. This [book] is a must on your thoughtful shelf of understanding."

— Richard Saul Wurman, founder of the TED Conference

"Alberto Cairo is a great educator and an engaging storyteller. In *The Truthful Art* he takes us on a rich, informed, and well-visualized journey that depicts the process by which one scrutinizes data and represents information. The book synthesizes a lot of knowledge and carefully explains how to create effective visualizations with a focus on statistical principles. *The Truthful Art* will be incredibly useful to both practitioners and students, especially within the arts and humanities, such as those involved in data journalism and information design."

— Isabel Meirelles, professor at OCAD University (Canada) and author of *Design for Information*

"As soon as I started immersing myself in *The Truthful Art*, I was horrified (and somewhat ashamed) to realize how much I didn't know about data visualization. I've spent most of my career pursuing a more illustrative way to present data, but Alberto Cairo's clarifying prose superbly explained the finer points of data viz. Since Alberto warns us that "[data is] always noisy, dirty, and uncertain," everyone in this business had better read his book to find out how to properly construct visualizations that not only tell the truth, but also allow us to interact meaningfully with them."

— Nigel Holmes, founder of Explanation Graphics

"To communicate data clearly, you have to think about it clearly. *The Truthful Art* dives deep and provides an enlightened introduction to the 'power tools' of data experts: science, statistics, and visualization."

— Fernanda Viégas and Martin Wattenberg, research scientists, Google

"*The Truthful Art* is essential reading for my visual communication students and for anyone (at any level) who cares about telling a story visually. Get this book, read it, act on it. If you're looking for help to put your

data visualization on the right track, this is it.”

— **John Grimwade**, assistant professor, School of Visual Communication, Ohio University

About the Author

Alberto Cairo is the Knight Chair in Visual Journalism at the School of Communication of the University of Miami (UM), where he heads specializations in infographics and data visualization. He’s also director of the visualization program of UM’s Center for Computational Science, and Visualization Innovator-in-Residence at Univisión. Cairo is the author of the books *Infografía 2.0: Visualización interactiva de información en prensa*, published exclusively in Spain in 2008, and *The Functional Art: An Introduction to Information Graphics and Visualization* (New Riders, 2012.) Over the past two decades, Cairo has been director of infographics and visualization at news organizations in Spain and Brazil, in addition to consulting with companies and educational institutions in more than 20 countries. You can find Cairo at www.thefunctionalart.com or on Twitter, where he is @albertocairo.

Users Review

From reader reviews:

Margaret Watkins:

The book *The Truthful Art: Data, Charts, and Maps for Communication* will bring one to the new experience of reading a book. The author style to explain the idea is very unique. In the event you try to find new book to learn, this book very suitable to you. The book *The Truthful Art: Data, Charts, and Maps for Communication* is much recommended to you to read. You can also get the e-book from the official web site, so you can more easily to read the book.

Paul Douglas:

Your reading sixth sense will not betray you actually, why because this *The Truthful Art: Data, Charts, and Maps for Communication* reserve written by well-known writer whose to say well how to make book which might be understand by anyone who else read the book. Written within good manner for you, dripping every ideas and publishing skill only for eliminate your hunger then you still doubt *The Truthful Art: Data, Charts, and Maps for Communication* as good book not merely by the cover but also through the content. This is one guide that can break don't judge book by its deal with, so do you still needing one more sixth sense to pick this!? Oh come on your reading through sixth sense already told you so why you have to listening to an additional sixth sense.

Susan Peterson:

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