



# Pro Data Visualization using R and JavaScript

*Tom Barker*

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*Pro Data Visualization using R and JavaScript* makes the R language approachable, and promotes the idea of data gathering and analysis. You'll see how to use R to interrogate and analyze your data, and then use the D3 JavaScript library to format and display that data in an elegant, informative, and interactive way. You will learn how to gather data effectively, and also how to understand the philosophy and implementation of each type of chart, so as to be able to represent the results visually.

With the popularity of the R language, the art and practice of creating data visualizations is no longer the preserve of mathematicians, statisticians, or cartographers. As technology leaders, we can gather metrics around what we do and use data visualizations to communicate that information. *Pro Data Visualization using R and JavaScript* combines the power of the R language with the simplicity and familiarity of JavaScript to display clear and informative data visualizations.

Gathering and analyzing empirical data is the key to truly understanding anything. We can track operational metrics to quantify the health of our products in production. We can track quality metrics of our projects, and even use our data to identify bad code. Visualizing this data allows anyone to read our analysis and easily get a deep understanding of the story the data tells.

## What you'll learn

- A rich understanding of how to gather, and analyze empirical data
- How to tell a story with data using data visualizations
- What types of data visualizations are best to use for the story that you want to tell with your data
- A comprehensive introduction to the R language, covering all the essentials
- Exploration of how to construct interactive data visualizations using JavaScript and JavaScript libraries

## Who this book is for

Developers at all levels interested in data visualization, beginning to intermediate engineering managers, statisticians, mathematicians, economists and any others interested in data visualization.

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