THE BOOK OF R: A FIRST COURSE IN PROGRAMMING AND STATISTICS BY TILMAN M. DAVIES

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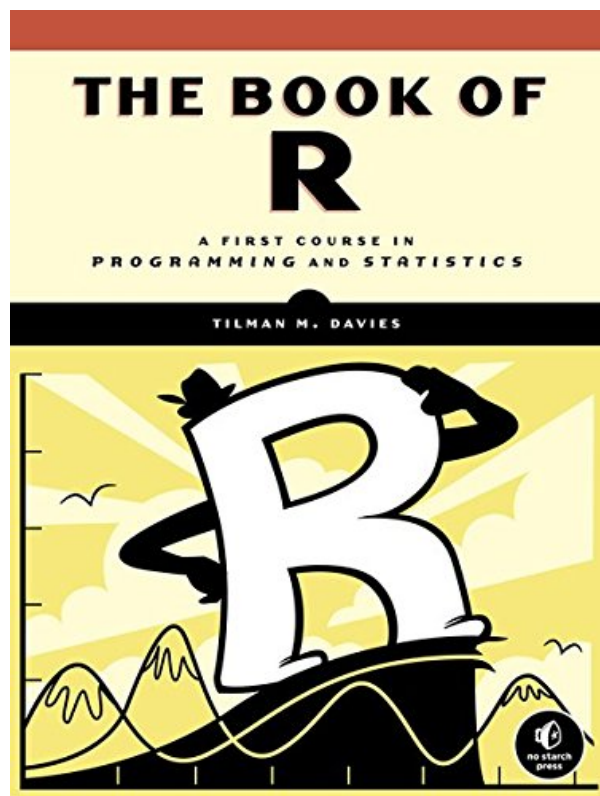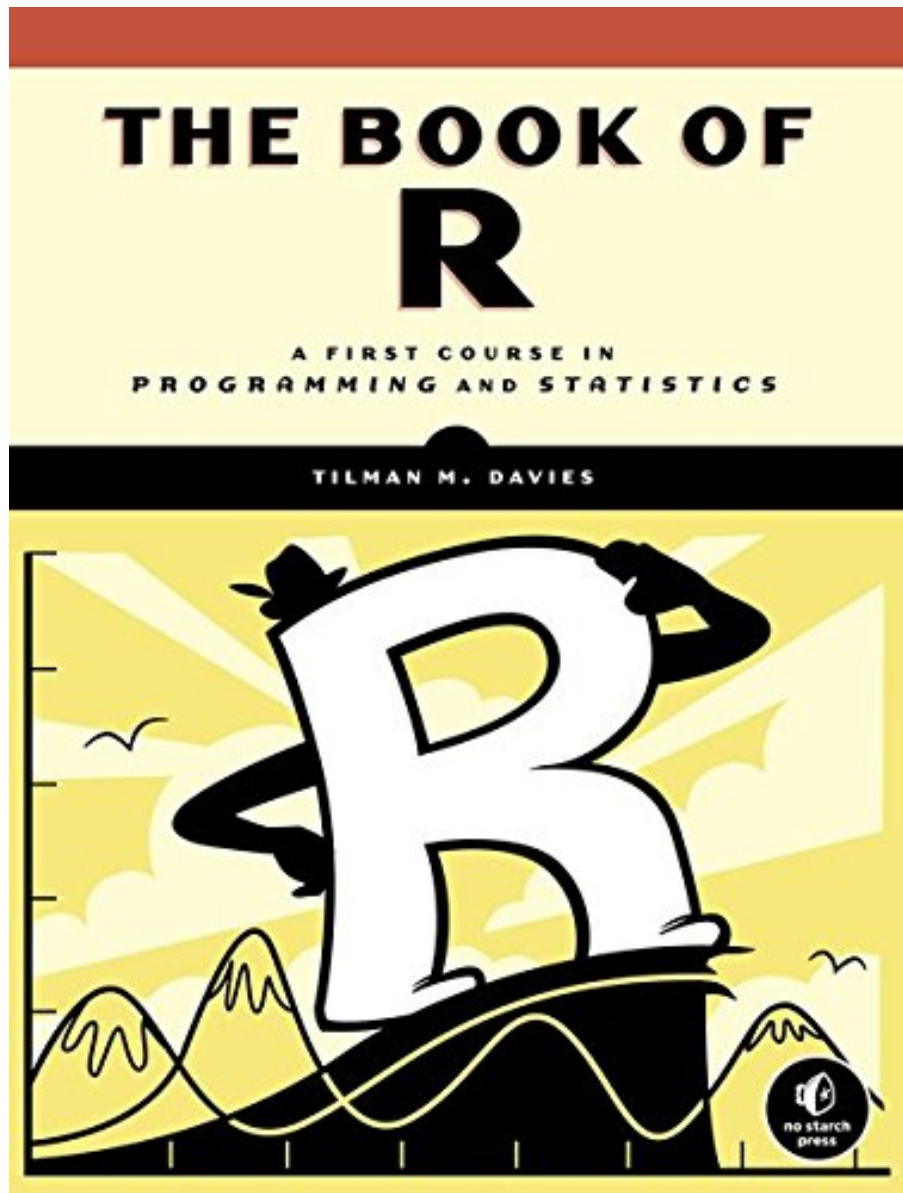
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About the Author

Tilman M. Davies is a lecturer at the University of Otago in New Zealand, where he teaches statistics and R at all university levels. He has been programming in R for 10 years and uses it in all of his courses.

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The Book of R is a comprehensive, beginner-friendly guide to R, the world's most popular programming language for statistical analysis. Even if you have no programming experience and little more than a grounding in the basics of mathematics, you'll find everything you need to begin using R effectively for statistical analysis.

You'll start with the basics, like how to handle data and write simple programs, before moving on to more advanced topics, like producing statistical summaries of your data and performing statistical tests and modeling. You'll even learn how to create impressive data visualizations with R's basic graphics tools and contributed packages, like ggplot2 and ggvis, as well as interactive 3D visualizations using the rgl package.

Dozens of hands-on exercises (with downloadable solutions) take you from theory to practice, as you learn:

- The fundamentals of programming in R, including how to write data frames, create functions, and use variables, statements, and loops
- Statistical concepts like exploratory data analysis, probabilities, hypothesis tests, and regression modeling, and how to execute them in R
- How to access R's thousands of functions, libraries, and data sets
- How to draw valid and useful conclusions from your data
- How to create publication-quality graphics of your results

Combining detailed explanations with real-world examples and exercises, this book will provide you with a solid understanding of both statistics and the depth of R's functionality. Make The Book of R your doorway into the growing world of data analysis.

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About the Author

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Most helpful customer reviews

31 of 32 people found the following review helpful.

I LOVE this book!!!

By William Elman

I almost never write Amazon reviews, but feel compelled to in the case of this gem of a textbook.

Quick about me:

-solid general computer skills (e.g. Excel), but NO programming background

-took statistics in high school, barely passed calculus in college

-was inspired to learn R after seeing a colleague use it for data analysis

-have been disappointed by R texts that I've encountered thus far, finding them either too advanced or poorly organized/written

Why I am giving this book 5 stars:

-it is structured very logically, starting with the basics of the language before moving onto programming, statistics, and more advanced concepts

-it is accessible to a wide audience, yet goes into the necessary level of detail

-it is well written, in an easy, clear voice

-an appropriate balance of text vs code examples and graphics

-it has effective exercises at logical points to ensure the reader not only understands, but can execute the concepts learned

-it is aesthetically very nice -- the spine doesn't crack, the book doesn't warp over time, the font and text size are very readable

As a sidenote, I ordered R for Dummies as well. I didn't give it an especially thorough glance, but quickly flipped through it and decided to return it because I knew on first glance that The Book of R was far superior.

4 of 4 people found the following review helpful.

Excelent book! It has everything one needs to learn ...

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Excelent book! It has everything one needs to learn R language and basics of statistics . Very good for students and young specialist in all areas of data analysis.

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