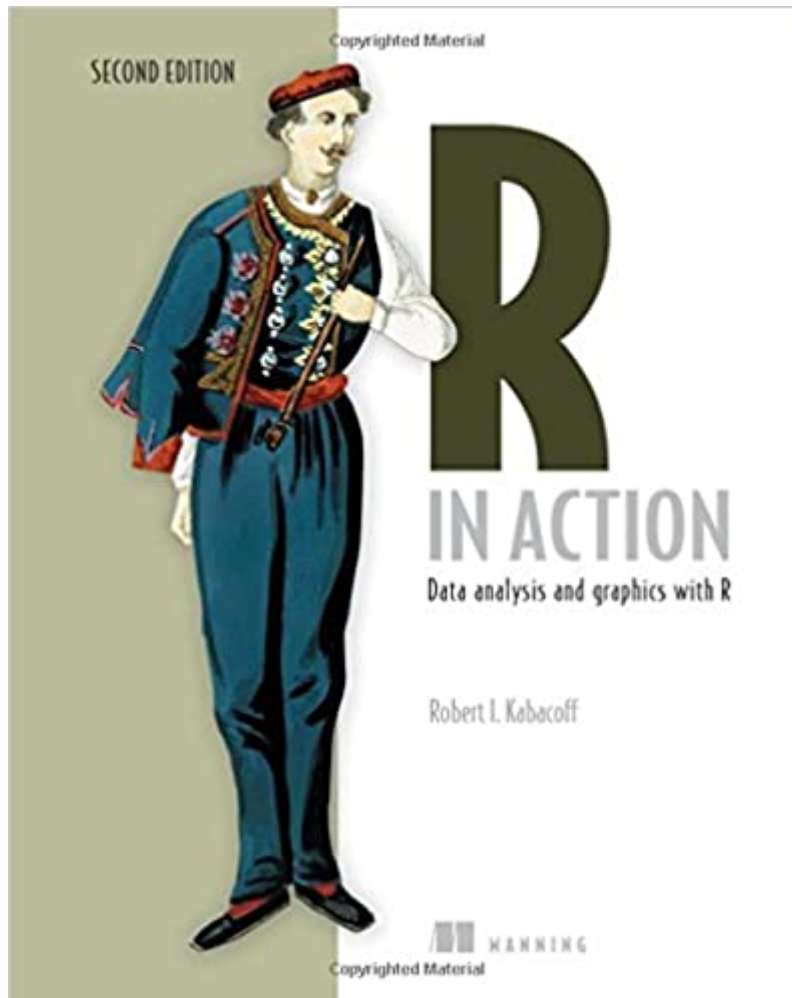




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R In Action: Data Analysis And Graphics With R



Synopsis

Summary R in Action, Second Edition presents both the R language and the examples that make it so useful for business developers. Focusing on practical solutions, the book offers a crash course in statistics and covers elegant methods for dealing with messy and incomplete data that are difficult to analyze using traditional methods. You'll also master R's extensive graphical capabilities for exploring and presenting data visually. And this expanded second edition includes new chapters on time series analysis, cluster analysis, and classification methodologies, including decision trees, random forests, and support vector machines. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Business pros and researchers thrive on data, and R speaks the language of data analysis. R is a powerful programming language for statistical computing. Unlike general-purpose tools, R provides thousands of modules for solving just about any data-crunching or presentation challenge you're likely to face. R runs on all important platforms and is used by thousands of major corporations and institutions worldwide. About the Book R in Action, Second Edition teaches you how to use the R language by presenting examples relevant to scientific, technical, and business developers. Focusing on practical solutions, the book offers a crash course in statistics, including elegant methods for dealing with messy and incomplete data. You'll also master R's extensive graphical capabilities for exploring and presenting data visually. And this expanded second edition includes new chapters on forecasting, data mining, and dynamic report writing. What's Inside Complete R language tutorial Using R to manage, analyze, and visualize data Techniques for debugging programs and creating packages OOP in R Over 160 graphs About the Author Dr. Rob Kabacoff is a seasoned researcher and teacher who specializes in data analysis. He also maintains the popular Quick-R website at statmethods.net. Table of Contents PART 1 GETTING STARTED Introduction to R Creating a dataset Getting started with graphs Basic data management Advanced data management PART 2 BASIC METHODS Basic graphs Basic statistics PART 3 INTERMEDIATE METHODS Regression Analysis of variance Power analysis Intermediate graphs Resampling statistics and bootstrapping PART 4 ADVANCED METHODS Generalized linear models Principal components and factor analysis Time series Cluster analysis Classification Advanced methods for missing data PART 5 EXPANDING YOUR SKILLS Advanced graphics with ggplot2 Advanced programming Creating a package Creating dynamic reports Advanced graphics with the lattice package available online only from manning.com/kabacoff2

Book Information

Paperback: 608 pages

Publisher: Manning Publications; 2 edition (June 6, 2015)

Language: English

ISBN-10: 1617291382

ISBN-13: 978-1617291388

Product Dimensions: 7.3 x 1.4 x 9.2 inches

Shipping Weight: 2.2 pounds (View shipping rates and policies)

Average Customer Review: 4.7 out of 5 stars 42 customer reviews

Best Sellers Rank: #13,352 in Books (See Top 100 in Books) #9 in [Books > Computers & Technology > Software > Mathematical & Statistical](#) #10 in [Books > Computers & Technology > Databases & Big Data > Data Mining](#) #14 in [Books > Computers & Technology > Databases & Big Data > Data Processing](#)

Customer Reviews

Dr. Rob Kabacoff is a seasoned researcher and teacher who specializes in data analysis. He also maintains the popular Quick-R website at statmethods.net.

I wish I had a book similar to this one years ago. The author *clearly* explains topics and provides worked examples. An item I'd like to see in the introductory section: creating a basic script that provides a graphical output and running it from a command prompt. I have this situation right now: I'm running a script on a Mac that generates a .png output; the output quality is poor compared to cut-and-paste from the GUI. Another item: how to run a command script on a Windows machine. I highly recommend this book.

Second edition is even better. Nice work, easy to follow and complete. There are many books in R. This is one of the best. One need any previous knowledge to start taking advantage from learning through the examples.

Really great book! A perfect summary of many of the things we have to keep in mind when using R. I absolutely love it! Moreover, it was delivered on time and in perfect condition.

Great!

I wish I had started learning R using this book. Well organized, clear examples and all the code samples work as advertised.

I really enjoyed this book. Good reference and learning tool for someone at my level.

My favorite reference book. I love it the way they break it down.

Among many books on R, this one stands out for its educational systemic approach and excellence in language. Many will find it very useful as a first text on R, but also experienced users will keep as a reference manual.

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