



R in Action

Robert Kabacoff

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Summary

R in Action is the first book to present both the R system and the use cases that make it such a compelling package for business developers. The book begins by introducing the R language, including the development environment. Focusing on practical solutions, the book also offers a crash course in practical statistics and covers elegant methods for dealing with messy and incomplete data using features of R.

About the Technology R is a powerful language for statistical computing and graphics that can handle virtually any data-crunching task. It runs on all important platforms and provides thousands of useful specialized modules and utilities. This makes R a great way to get meaningful information from mountains of raw data.

About the Book *R in Action* is a language tutorial focused on practical problems. It presents useful statistics examples and includes elegant methods for handling messy, incomplete, and non-normal data that are difficult to analyze using traditional methods. And statistical analysis is only part of the story. You'll also master R's extensive graphical capabilities for exploring and presenting data visually.

Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

What's Inside

Practical data analysis, step by step
Interfacing R with other software
Using R to visualize data
Over 130 graphs
Eight reference appendixes

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Table of Contents

Part I Getting started Introduction to R Creating a dataset Getting started with graphs Basic data management Advanced data management
Part II Basic methods Basic graphs Basic statistics
Part III Intermediate methods Regression Analysis of variance Power analysis Intermediate graphs Re-sampling statistics and bootstrapping
Part IV Advanced methods Generalized linear models Principal components and factor analysis Advanced methods for missing data Advanced graphics

R in Action Details

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Genre : Computer Science, Programming, Reference, Technical

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From Reader Review R in Action for online ebook

Manny says

Maged M. says

Very clear and documented examples

Kari Ross says

My favorite book on R Programming and Statistics

Vector Shaw says

This book is so fantastic! I have never thought that a programming book which can meet up to the high level. And R is so charming which attracts me over those 7 days. However, R in Action deserves me to reread it again and again. I firmly believe that it helps me to achieve my great data mining dream! Fighting!

Mark says

I may not have every R book, but I definitely have too many of them. This may be my favorite. It is not all inclusive, but the author covers many things not covered elsewhere and he has a personable and practical voice. I especially like his reminders about the underlying statistics and his frequent "how I do it" mention of the functions that he prefers from various packages. I had been looking for some of these functions for a long time. He has great sections on regression diagnostics, on ANOVA, general linear models, power analysis and missing values. Also-I like the guy on the cover.

Sam says

Great beginner book for learning the R statistical computing program. This book is especially useful for those using R for psychological/behavioral research.

Muthumini Bandara Rathnathilaka says

Some beginning experience with R would be perfect to start reading this book.

Colin Jones says

I don't know that I'd recommend this for someone without a statistics background (like me). Most of it assumes knowledge I don't have - a good reminder of how much about stats there is to know.

Nevertheless, it was well-written with lots of in-depth use cases, much more detail than the cursory level covered by the Coursera R class I did at the same time.

Frank Palardy says

R is mostly simple but this goes into more.

Anna says

A vital reference during my PhD.

Matija says

An excellent introduction (from a software developer's point of view) to the dizzying world of the quirky yet immensely powerful, arcane, rich and oh so inconsistent environment that is R. Clearly written, well motivated by simple examples and lightly colorized with Mr. Kabacoff's unpretentious sense of humor, it makes an enjoyable read on a subject traditionally regarded as boring. Almost no chapter provides enough information to make you an expert in a certain area, but almost all provide enough to enable you to achieve something tangible, and references to relevant reading material are consistently sprinkled throughout the text. If, like me, you lack deeper knowledge of statistical methods, you might find those chapters hard to follow, as only very brief statistical refreshes are provided. Still, I believe that, if and when confronted with a real problem, chances are high this book would provide numerous pointers to high quality source material. Highly recommended as a good basis for further learning and exploration, as well as a companion during initial delvings into R.

Jerrie Kumalah says

Great resource!! I loved how easy it was to digest the information. It is currently one of my go-to references for R. Provides a great overview of the basics of how to use R, create graphs and conduct statistical analysis.

William says

Definitely more of a reference for all things statistical in R, but still very good.

Benoit says

Great reference book to get you started with R. Will not teach you the basics of statistics and/or machine learning though.

Arthur says

This is **the book** I will recommend to those who start one's endeavour in R.

Very comprehensive, with a lot of extra literature and reference. Filled with high quality examples, accurate (with a few small errors, see errata in advance).

The author writes in a very tasteful manner. This makes the reader bonded with the author, become its follower. I think very few books possess this qualification. This one is an investment. Most aspects of the data extraction, manipulation and presentation are covered.

Perhaps one book to rule many.
