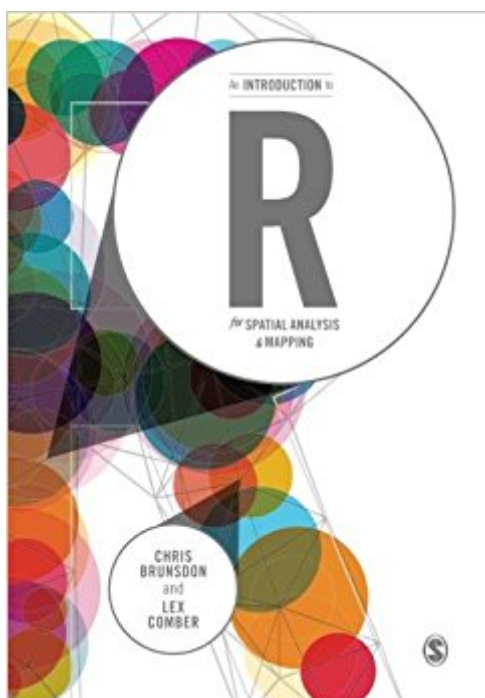


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An Introduction To R For Spatial Analysis And Mapping



Synopsis

"In an age of big data, data journalism and with a wealth of quantitative information around us, it is not enough for students to be taught only 100 year old statistical methods using out of the box software. They need to have 21st-century analytical skills too. This is an excellent and student-friendly text from two of the world leaders in the teaching and development of spatial analysis. It shows clearly why the open source software R is not just an alternative to commercial GIS, it may actually be the better choice for mapping, analysis and for replicable research. Providing practical tips as well as fully working code, this is a practical how to guide ideal for undergraduates as well as those using R for the first time. It will be required reading on my own courses." - Richard Harris, Professor of Quantitative Social Science, University of Bristol

R is a powerful open source computing tool that supports geographical analysis and mapping for the many geography and non-geography students and researchers interested in spatial analysis and mapping. This book provides an introduction to the use of R for spatial statistical analysis, geocomputation and the analysis of geographical information for researchers collecting and using data with location attached, largely through increased GPS functionality. Brunsdon and Comber take readers from zero to hero in spatial analysis and mapping through functions they have developed and compiled into R packages. This enables practical R applications in GIS, spatial analyses, spatial statistics, mapping, and web-scraping. Each chapter includes:

- Example data and commands for exploring it
- Scripts and coding to exemplify specific functionality
- Advice for developing greater understanding - through functions such as `locator()`, `View()`, and alternative coding to achieve the same ends
- Self-contained exercises for students to work through
- Embedded code within the descriptive text.

This is a definitive how to that takes students - of any discipline - from coding to actual applications and uses of R.

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Customer Reviews

Brunsdon and Comber's "An Introduction to R for Spatial Analysis and Mapping" is a timely text for students concerned with the exploration of spatial analysis problems and their solutions. The authors combine extensive expertise and practical experience with a clear and accessible pedagogic style in the presentation of problems in spatial analysis. This volume is not only an excellent resource for students in the spatial sciences but should also find a place on the bookshelves of researchers. --Martin Charlton

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The statistical sections each use "real" data, and each section ends with "Self-Test Questions." Thus the book is suitable not only as a reference for specific spatial data problems, but also for self-study or for training courses, if you want to approach the topic in principle. Overall, the book has a very successful, rounded overview of the analysis and visualization of spatial data.--Dr Thomas Rahl

In an age of big data, data journalism and with a wealth of quantitative information around us, it is not enough for students to be taught only 100 year old statistical methods using 'out of the box' software. They need to have 21st-century analytical skills too. This is an excellent and student-friendly text from two of the world leaders in the teaching and development of spatial analysis. It shows clearly why the open source software R is not just an alternative to commercial GIS, it may actually be the better choice for mapping, analysis and for replicable research. Providing practical tips as well as fully working code, this is a practical 'how to' guide ideal for undergraduates as well as those using R for the first time. It will be required reading on my own courses.--Richard Harris, Professor of Quantitative Social Science

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If you are new to R and spatial analysis, then this is the book for you. With plenty of examples that are easy to use and adapt, there's something for everyone as it moves comfortably from mapping and spatial data handling to more advanced topics such as point-pattern analysis, spatial interpolation, and spatially varying parameter estimation. Of course, all of this is "free" because R is open source and allows anyone to use, modify, and add to its superb functionality. --Scott M. Robeson

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I decided to talk a walk on the wild-side and examined R as a GIS for spatial analysis. I hope to use several of R's spatial statistics packages and to automate tasks--staying within one program. I highly recommend Brunson and Comber's book (\$50 on Amazon, Paperback, electronic versions also available). About the Authors: Chris Brundson is the creator of geographically weighted regression or GWR. Lex Comber is a professor at Leeds University. Four Reasons to choose R as a GIS

- 1) You are interested in performing tailored exploratory spatial data analysis (ESDA), spatial statistics, regression analysis, and diagnostics.
- 2) You already use R for non-spatial data, have lots of code written, and need to analyze spatial data.
- 3) You do not want to export your data (or results) from one program into another and back again!
- 4) You want to be able to publish or share your code with a wider audience.

Reader Accessibility The content is extremely well-presented, clear and concise, and includes color graphics. It is not overly technical. Still, R as a GIS and spatial analysis are tough material and is definitely not for the faint-of-heart. The authors assume readers may not have either a R or GIS background, or both. I took a R class in graduate school and occasionally use it. Additional packages that assist in manipulating and reshaping data, such as plyr, are also discussed. The authors also warn readers that R packages can change over time, causing error messages, but many warn users about recent and upcoming changes.

Overview In the first 40 pages, you will learn R basics, if you don't already have a foundation. Next, you will learn GIS fundamentals, how to plot data to create a map, taking into account scale, and adding and positioning common map elements like a north arrow and scale bar. This may sound basic but in R nothing is easy! Of course, the advantage with code is that you can reuse it or may only need to modify it slightly for many maps. Late in Chapter 5-6 the book dives into spatial analysis. The last few chapters are probably the best of the book, as more advanced statistical techniques are discussed including local indicators of spatial auto correlation (LISAs), geographically weighted summary statistics and regression. The book provides a great guide and reference, and I am sure I will be re-visiting it frequently! Overall, it is a great mix of practice and theory.

Disclosures: None, I found and purchased the book on my own.

It might be a good book if I could read it. Unfortunately, the R code is printed so slightly and in a non-black color that I find it impossible to read. It's true that I don't have the eyes of a 20-year-old (I wore thick glasses even when I was 20), but I would think that many people would have trouble with the code in this book.

I discovered Brunsdon and Comber's book after completing two of Brunsdon's GIS tutorials he had posted online. I was impressed by the clarity and tone of the tutorials, so when I found he had co-authored a book on using R for GIS I ordered it and began working through the code and exercises. The same qualities that had made the tutorials so appealing were equally present in the book. The authors not only present all the R code necessary to replicate the images and analyses in the book but also explain the purpose of each command and suggest possible extensions to the code that a reader could incorporate into projects of his or her own. Unlike some other R books whose authors either fail to explain their code fully or skip coding steps entirely (I'm not going to name names, since that could keep me here all day), Brunsdon and Comber do not assume prior expertise in R and instead serve as patient, thorough guides and instructors. As a result, the reader comes away from the book with both a solid understanding of how to use R as a GIS tool as well as a deeper general understanding of the software as a whole. R is free, and the number of publicly-available GIS datasets grows by the day, so if you want to pick up a potentially valuable and fun-to-use skill set this book is well worth the modest price.

Great book! Bought it for my high school Junior who is devouring it, along with an R Studio download.

brand new book, good price. and this book is my professor suggest book, it is very help.

Very happy with this product!

Probably one of the best books ever written on R. I slide through the pages like butter, and can recall about 80% of what was explained without having to turn back pages. 10/10 (5/5), I highly recommend it.

One of the best book I have ever seen for R and spatial analysis.

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