

MEMORANDUM

To: BDA students

From: Prof. Roger Bohn Rbohn@ucsd.edu

Subject: Useful reference books for the course *Big Data Analytics*

Date: May 25, 2016 Version 1.0

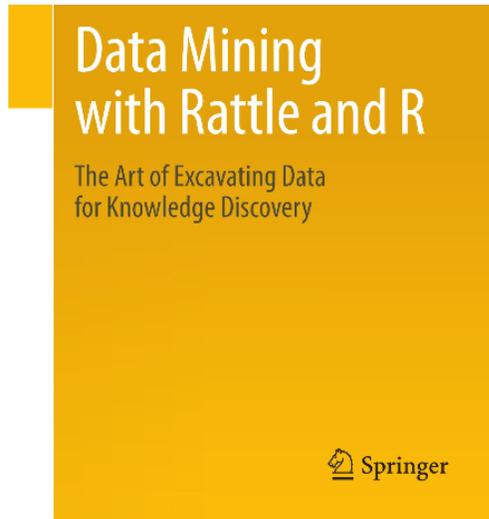
The UCSD library has an excellent set of digital books on data mining, R, and statistics. These are books I have found especially useful. Note that many of them are only for reference. When you need to know how to do something specific, look it up in one of these books. Others are more like standard textbooks.

If a link appears to be broken, the solution is usually to paste the URL into your web browser. You can also search for any book manually from the UCSD catalog.

Most of the books here are from Springer, and are accessible through their web site: <http://link.springer.com/search?facet-content-type=%22Book%22&query=data+mining&showAll=false> Springer books are often available as either PDF or ebook format.

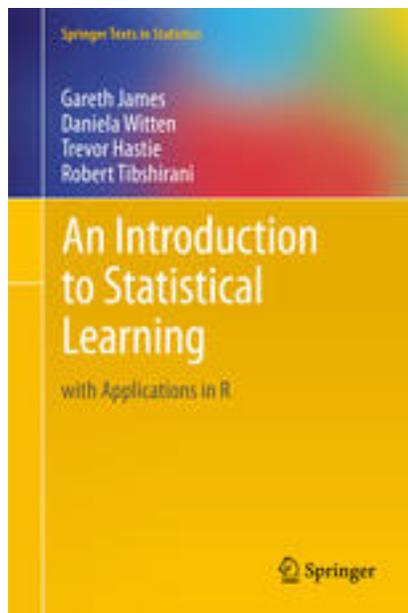
For general searching on your own e.g. on Google Scholar, good phrases are *data mining*, *machine learning*, *data analytics* (broader), *data science*, and others. Finally, there are many 20 to 50 page articles that cover the basics of particular R topics. These are often more up to date than books, and better ways to get a start on a topic. One series of such articles is *One page R* by our textbook's author, at <http://togaware.com/onepager/> . There are hundreds of others.

UseR!



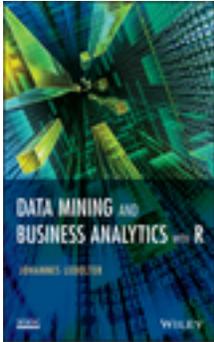
Course textbook #1

<http://link.springer.com/book/10.1007/978-1-4419-9890-3>



Course textbook #2

<http://link.springer.com/book/10.1007/978-1-4614-7138-7>



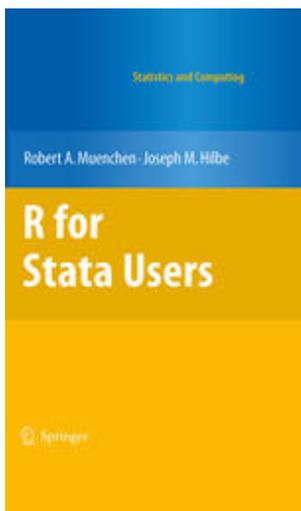
<http://onlinelibrary.wiley.com/book/10.1002/9781118596289> A

business-oriented introduction to big data. I have used it as a textbook in the past.



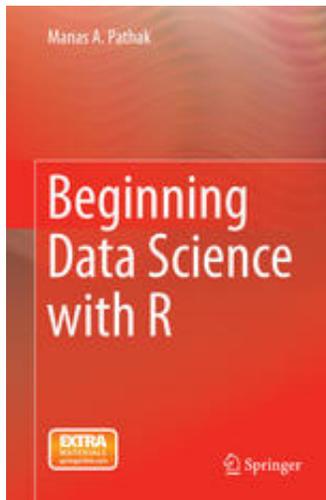
<http://link.springer.com/book/10.1007%2F978-0-387-98141-3>

The main graphics page we use. This book was written by ggplot2's developer, and covers the early version of the software, but



<http://link.springer.com/book/10.1007/978-1-4419-1318-0>

If you know Stata and are learning R, this book is good for looking up “how do I do that?”



<http://link.springer.com/book/10.1007%2F978-3-319-12066-9>

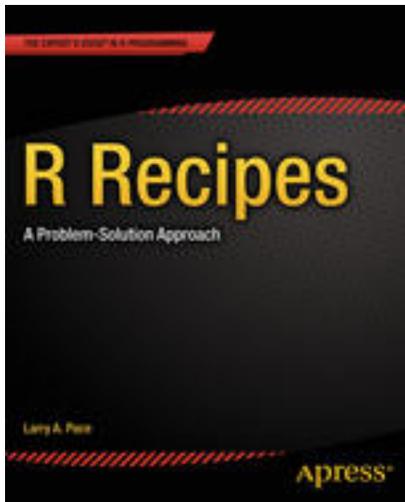
A short book that covers the basics of data mining, with everything written in R



O'REILLY®

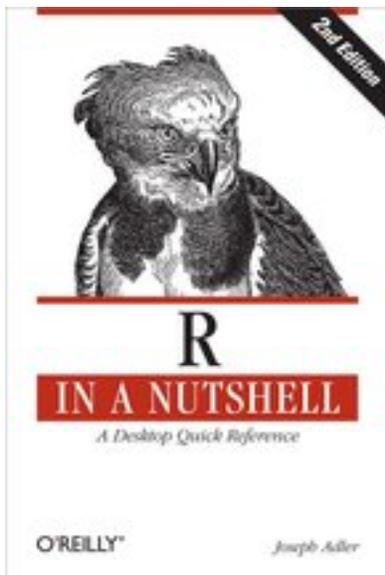
Paul Teetor

Excellent for quickly looking up “how do I do that in R?” <http://proquest.safaribooksonline.com/9781449363086> (Read access only. You can print only one page at a time.) Much of this book is also available as a web site.



<http://link.springer.com/book/10.1007%2F978-1-4842-0130-5>

Similar to the previous book but not as thorough. However, this one is downloadable.



<http://proquest.safaribooksonline.com/9781449358204>

An excellent reference book on R. (Read access only. You can print only one page at a time.)

Last, there are literally dozens of books about R/statistics written for a particular audience, or exploring a particular applied statistics topic. Here is a list of examples, just to show how broad the selection is. If you are interested in a particular topic, it's probably worth getting an appropriate R book.

[James E. Monogan III](#) in [Political Analysis Using R](#) (2015)

[R for Marketing Research and Analytics](#)

[A User's Guide to Network Analysis in R](#)

[Statistical Analysis of Network Data with R](#)

[Applied Spatial Data Analysis with R](#)

[Graphical Models with R](#)

[Six Sigma with R](#)

[Introductory Time Series with R](#)

[Applied Econometrics with R](#)

[Data Manipulation with R](#)