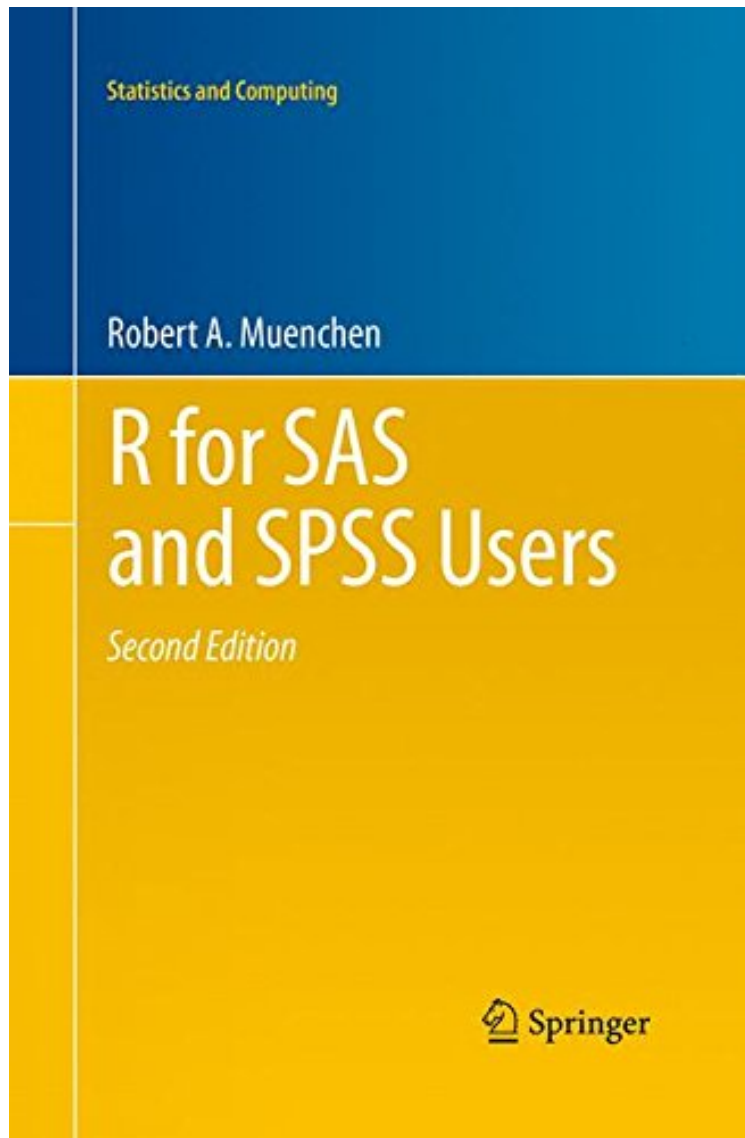


(Download ebook) R for SAS and SPSS Users (Statistics and Computing)

## R for SAS and SPSS Users (Statistics and Computing)

Robert A. Muenchen

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**Robert A. Muenchen : R for SAS and SPSS Users (Statistics and Computing)** before purchasing it in order to gage whether or not it would be worth my time, and all praised R for SAS and SPSS Users (Statistics and Computing):

1 of 1 people found the following review helpful. Extremely valuable, but typos are problematic (R tips enclosed)By ChowderheadThis book worked for me, much better than free tutorials I've tried. I'm a long-time SPSS user who had used R occasionally for graphics, but for general use I had been stymied. I knew I was missing out on a lot of really powerful features in R. Finally I buckled down and followed this book word-for-word, even the parts I thought I didn't

need. Now I've used R confidently for several real-world projects and can't imagine going back to SPSS. And yes R is really much better -- the programmability, the ease of using "output" from one procedure as "input" to another, the ease of complex graphics, etc. The only place R seems to be inferior is in the task of quickly producing "presentable" tabular output for final reports, etc, though there are "packages" to help with that once you get more advanced. This book got me there, but there are a few key things you should know about it, and R. First (for me anyway) R was just too difficult and different from SPSS to learn on a casual basis. To use R effectively, you ABSOLUTELY need a solid grounding in the many different data structures R uses and how to refer to the pieces you want to use. Basically, you need to know how to do all the boring but essential data processing and management tasks with complete confidence. After that, doing statistics and graphics come pretty quickly. But you can't skip any of the basics. This book gives you that foundation, and along the way points out very useful information you won't find in a lot of web tutorials. For example, the great usefulness of R-based IDE's (I used RStudio). Also, the many places where you need to delve in to R's plethora of add-on-packages -- something that would be very confusing to work out on your own. And -- quite critically -- the book gives you enough grounding in the basics that you can understand R's help files. Once you can understand those help files, you can do a lot more. However, I was very frustrated at times by the sheer number of typos in the book. Since R is a language where a misplaced comma can make a huge difference, and readers of this book are entering code from the book's pages, a typo can be maddening for the reader/user, because it will produce errors as output instead of the expected result. In fact once I realized typos were common I actually started using them as a kind of test of my knowledge... "hmmm, that won't work because..." . The author does maintain a pdf list of corrections on his web site. I wrote him with one, which he added to the list, but there were more I didn't report. All in all, the book does its job very well, once you get savvy about the typos. Recommended. 0 of 0 people found the following review helpful. Must-Read for Those Desiring True Programming Skills in R By Josh Callaway I have used R for a wide variety of work including automation of graphical and statistical reports in rich text output, statistical programming creation of guides, development of a GUI (graphical user interface), package development on CRAN, and lots of quick useful tools for completing projects in work and school. As well, I've used SAS for automation, report production, data management manipulation, and statistical analysis. In R, I have become well accustomed with function writing and the rough equivalent in SAS, macro programming. I have read several R books, but I must say the most influential 2 in my programming skills development have been (in order of importance): "R for SAS and SPSS Users" by Bob Muenchen "The Art of R Programming" by Norman Matloff. After reading several R books and documents, "R for SAS and SPSS Users" was the first book that gave me a firm grounding in the object-oriented thought process harnessed in R including, but not limited to: understanding data structures objects (vectors, data frames, scalars, matrices, lists, model output, among many others object types), using functions, and applying common programming structures such as loops and conditional statements. Before reading this book, I only possessed basic statistical procedure knowledge in R such as running t-tests, regression, and Chi-square. Through Muenchen's book, the class and mode structure of R objects became much more clear. When asked for advice on what R courses or workshops to take in order to learn the language, I often recommend just reading this book word-for-word from front to back. Being the case for me, by reading the entire book, I soaked up, in the most detailed manner, the most detailed book out there on the most important concepts. As I continue to read more R books for specialized topics, the foundation given by "R for SAS and SPSS Users" has served me value far more than its price. Other R books and documentation now come to me far more comprehensible. A perfect example is the use of CRAN documentation for generic R functions and packages with more install-able and loadable functions. After grasping the input-output nature of R's object-oriented structure, I now read these files with ease. In addition to that, this knowledge has allowed me to transition nicely into other programming and scripting languages such as Visual Basic and Python. For those wishing to truly understand the intricacies of the R language, it's interlacing of programming structures, and the input-output style of object-orientation, this book must be recommended with flying colors. Don't waste your time on courses when most of the foundation of the R language can be learned by reading this, unless you are fortunate enough to attend one of the highly effective workshops given by the author, which give a less-detailed overview of the book. With several good books on R out there, I have not come across one that encompasses good details on data structures, programming, GUI overview, graphics, statistical analysis, data management, and data manipulation nearly as well as this book. This book is best read it word for word and working through every example program the author offers at the end of every section. For each topic, Muenchen shows how to accomplish the task in SAS, SPSS, R. In these examples, the avid reader will begin to really understand R's flexibility when compared to SAS and SPSS as the author often reveals the multiple ways a given task can be accomplished in R. This book is a great start and tool to carry around for the R programming journey. 1 of 1 people found the following review helpful. Very useful on the Kindle 3GBy M. Gosse Thank you for writing this book! I've been a SAS programmer for around 15 years, a SPSS programmer for around 4 years, and I also program in VBA, and coming to R from this background has been an exercise in frustration. R is just so different in how it handles data, and its command syntax, I found that having previous programming experience was not really an advantage. I was wondering about the value of this book as I already have the MASS book at home and The R Book, and it was the need to recode a lot of variables was the activity

that made me purchase this book. While other books give emphasis on how to do particular statistical and graphing techniques, they tend to omit details on how to import and manipulate variables and observations in order to undertake the statistical analysis. I find that data preparation is around 90% of my analysis time, so not having this information has a major effect on my productivity. This book covers all that missing detail, as well as some facets of statistical analysis as well. The chapters and sections are well laid out in a logical sequence, and the bonus for the kindle is being able to search for terms. Robert Muenchen is a good writer as well: plain English explanations are given along with the code. He also gives examples of equivalent SAS and SPSS code so you can see the differences between them and R. If you are coming to R from a SAS or SPSS background, even if you have other R reference material, I recommend you purchase this book.

R is a powerful and free software system for data analysis and graphics, with over 5,000 add-on packages available. This book introduces R using SAS and SPSS terms with which you are already familiar. It demonstrates which of the add-on packages are most like SAS and SPSS and compares them to R's built-in functions. It steps through over 30 programs written in all three packages, comparing and contrasting the packages' differing approaches. The programs and practice datasets are available for download. The glossary defines over 50 R terms using SAS/SPSS jargon and again using R jargon. The table of contents and the index allow you to find equivalent R functions by looking up both SAS statements and SPSS commands. When finished, you will be able to import data, manage and transform it, create publication quality graphics, and perform basic statistical analyses. This new edition has updated programming, an expanded index, and even more statistical methods covered in over 25 new sections.

From the reviews of the second edition: This is a greatly expanded second edition of a text that has already proved widely popular. The explanation is careful and detailed. It uses SAS and SPSS terminology, matching it with R terminology. A glossary translates R terminology into terminology that is likely to be more familiar to SAS and SPSS users. a wide-ranging and carefully compiled source of information on R. It is a strongly recommended addition to the library of anyone who comes to R from SAS or SPSS. (John H. Maindonald, *International Statistical*, Vol. 80 (1), 2012)

From the Back Cover R is a powerful and free software system for data analysis and graphics, with over 4,000 add-on packages available. This book introduces R using SAS and SPSS terms with which you are already familiar. It demonstrates which of the add-on packages are most like SAS and SPSS and compares them to R's built-in functions. It steps through over 50 programs written in all three packages, comparing and contrasting the packages' differing approaches. The glossary defines R terms using SAS/SPSS terminology and again using R terminology. The table of contents and the index allow you to find equivalent R functions by looking up both SAS statements and SPSS commands. The second edition adds 216 pages of new topics. "I found the book extremely helpful. The material is laid out in a way that makes it very accessible. Because of this I recommend this book to any R user regardless of his or her familiarity with SAS or SPSS... For new R users it will demystify many aspects, and for existing R users it will have many answers to those questions you have been too afraid to ask in public." --The American Statistician "an excellent introduction to R the book meticulously covers data management, data structures, programming, graphics and basic statistical analysis in R. The prose is clear, the examples tied to their SPSS and SAS analogs. The handling of both traditional and newer ggplot2 graphics is comprehensive: SPSS and SAS users will undoubtedly find lots to like." --Information Management "As a long time SAS user this book makes the task of transition to R much more palatable and appealing. It also greatly reduces the time to get up and running in R effectively." --Technometrics

It is great to see this book in a second edition. It serves nicely as an introduction to R, irrespective of whether they are familiar with SAS or SPSS. I have long been a fan of programming by example and the book is full of excellent ones. --Graham Williams, Author, *Data Mining with Rattle and R: The Art of Excavating Data for Knowledge Discovery*

About the Author Robert A. Muenchen is the manager of the Statistical Consulting Center at the University of Tennessee and has 28 years of experience as a consulting statistician. He has served on the advisory boards of SPSS Inc. and the Statistical Graphics Corporation.