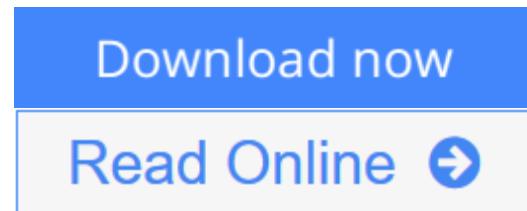# R for Statistics

By Pierre-Andre Cornillon, Arnaud Guyader, Francois Husson, Nicolas Jegou, Julie Josse, Maela Kloareg, Eric Matzner-Lober, Laurent Rouvière

R for Statistics By Pierre-Andre Cornillon, Arnaud Guyader, Francois Husson, Nicolas Jegou, Julie Josse, Maela Kloareg, Eric Matzner-Lober, Laurent Rouvière

Although there are currently a wide variety of software packages suitable for the modern statistician, R has the triple advantage of being comprehensive, widespread, and free. Published in 2008, the second edition of *Statistiques avec R* enjoyed great success as an R guidebook in the French-speaking world. Translated and updated, **R for Statistics** includes a number of expanded and additional worked examples.

Organized into two sections, the book focuses first on the R software, then on the implementation of traditional statistical methods with R.

Focusing on the R software, the first section covers:

- Basic elements of the R software and data processing
- Clear, concise visualization of results, using simple and complex graphs
- Programming basics: pre-defined and user-created functions

The second section of the book presents R methods for a wide range of

traditional statistical data processing techniques, including:

- Regression methods
- Analyses of variance and covariance
- Classification methods
- Exploratory multivariate analysis
- Clustering methods
- Hypothesis tests

After a short presentation of the method, the book explicitly details the R command lines and gives commented results. Accessible to novices and experts alike, R for Statistics is a clear and enjoyable resource for any scientist.

Datasets and all the results described in this book are available on the book's webpage at http://www.agrocampus-ouest.fr/math/RforStat

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Editorial Review

Review

Section 4.2 on the **apply** family of functions and related functions for matrices, arrays, and data frames is by far the most friendly and helpful introduction to the subject that I have seen. … All datasets, along with the R-code in the book, are available on the website for the text. … If you are not a trained programmer but you aspire to write code that is efficient and perhaps, from time to time, clever, then this book is a fine place for you to start learning R.
?Homer S. White, *MAA Reviews*, January 2013

[T]he book is accessible for statisticians of all levels and areas of expertise as well as for novice and advanced R users. … I recommend it for anyone who wants to learn about the why and how of the most commonly employed statistical methods and their extensions.
?Irina Kukuyeva, *Journal of Statistical Software*, Vol. 51, November 2012

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Sarah Brumfield:

Book is written, printed, or illustrated for everything. You can realize everything you want by a guide. Book has a different type. As it is known to us that book is important matter to bring us around the world. Beside that you can your reading proficiency was fluently. A reserve R for Statistics will make you to become smarter. You can feel a lot more confidence if you can know about everything. But some of you think this open or reading some sort of book make you bored. It isn't make you fun. Why they could be thought like that? Have you in search of best book or ideal book with you?

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