Lattice: Multivariate Data Visualization with R (Use R!)

By Deepayan Sarkar

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Written by the author of the lattice system, this book describes lattice in considerable depth, beginning with the essentials and systematically delving into specific low levels details as necessary. No prior experience with lattice is required to read the book, although basic familiarity with R is assumed. The book contains close to 150 figures produced with lattice. Many of the examples emphasize principles of good graphical design; almost all use real data sets that are publicly available in various R packages. All code and figures in the book are also available online, along with supplementary material covering more advanced topics.

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Editorial Review

Review

From the reviews:

"This book can be seen as a valuable source for lattice users at all levels. … The book nicely shows that making good graphics is a process and the reader is guided by the author in a wealth of examples through the various steps needed to reach the final result. A nice feature of the book is that it has an accompanying homepage that contains all the R code and figures of the book." (Klaus Nordhausen, International Statistical Review, Vol. 76 (3), 2008)

"Lattice is a package for R, and it greatly extends the already impressive graphical capabilities. … I suggest that many users of lattice (and most users of R probably ought to use lattice) should buy this book. … if one is using this book for self-study, exercises would be very helpful. … I recommend this book to anyone with a particular interest in the lattice package or a general interest in R graphics." (Peter L. Flom, The American Statistician, Vol. 63 (1), February, 2009)

"The book has 14 chapters separated in three parts. … very accessible to those inexperienced in the S language. For those readers that have more experience with R, the book is also quite useful. … Overall, if you are learning R or have not moved beyond the traditional S graphics system, the book shows the range possibilities of what can be done. … everyone using R would benefit from this book." (Max Kuhn, Technometrics, Vol. 52 (3), August, 2010)

From the Back Cover

R is rapidly growing in popularity as the environment of choice for data analysis and graphics both in academia and industry. Lattice brings the proven design of Trellis graphics (originally developed for S by William S. Cleveland and colleagues at Bell Labs) to R, considerably expanding its capabilities in the process. Lattice is a powerful and elegant high level data visualization system that is sufficient for most everyday graphics needs, yet flexible enough to be easily extended to handle demands of cutting edge research. Written by the author of the lattice system, this book describes it in considerable depth, beginning with the essentials and systematically delving into specific low levels details as necessary. No prior experience with lattice is required to read the book, although basic familiarity with R is assumed.

The book contains close to150 figures produced with lattice. Many of the examples emphasize principles of good graphical design; almost all use real data sets that are publicly available in various R packages. All code and figures in the book are also available online, along with supplementary material covering more advanced topics.

Deepayan Sarkar won the 2004 John M. Chambers Statistical Software Award for writing lattice while he was a graduate student in Statistics at the University of Wisconsin-Madison. He is currently doing postdoctoral research in the Computational Biology program at the Fred Hutchinson Cancer Research Center, a member of the R Core Team, and an active participant on the R mailing lists.

Users Review

From reader reviews:

Randolph Dilworth:

Information is provisions for folks to get better life, information these days can get by anyone at everywhere. The information can be a knowledge or any news even an issue. What people must be consider while those information which is inside the former life are hard to be find than now's taking seriously which one is suitable to believe or which one the particular resource are convinced. If you obtain the unstable resource then you have it as your main information we will see huge disadvantage for you. All of those possibilities will not happen in you if you take Lattice: Multivariate Data Visualization with R (Use R!) as your daily resource information.

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Nancy Ochoa:

Exactly why? Because this Lattice: Multivariate Data Visualization with R (Use R!) is an unordinary book that the inside of the guide waiting for you to snap the idea but latter it will distress you with the secret that inside. Reading this book beside it was fantastic author who all write the book in such wonderful way makes the content inside easier to understand, entertaining means but still convey the meaning entirely. So , it is good for you because of not hesitating having this nowadays or you going to regret it. This book will give you a lot of positive aspects than the other book have such as help improving your ability and your critical thinking approach. So , still want to delay having that book? If I were being you I will go to the guide store hurriedly.

Rita Lattimore:

Is it an individual who having spare time after that spend it whole day by simply watching television programs or just resting on the bed? Do you need something totally new? This Lattice: Multivariate Data Visualization with R (Use R!) can be the respond to, oh how comes? It's a book you know. You are consequently out of date, spending your spare time by reading in this fresh era is common not a geek activity. So what these textbooks have than the others?

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