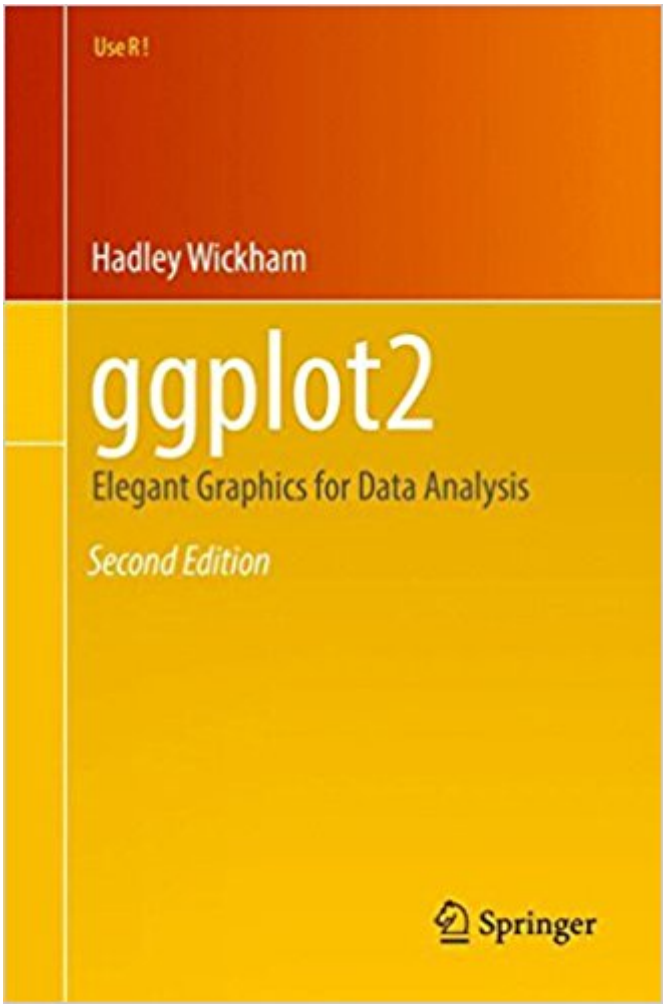
Ggplot2: Elegant Graphics For Data Analysis (Use R!)



Synopsis

This new edition to the classic book by ggplot2 creator Hadley Wickham highlights compatibility with knitr and RStudio. ggplot2 is a data visualization package for R that helps users create data graphics, including those that are multi-layered, with ease. With ggplot2, it's easy to:produce handsome, publication-quality plots with automatic legends created from the plot specificationsuperimpose multiple layers (points, lines, maps, tiles, box plots) from different data sources with automatically adjusted common scalesadd customizable smoothers that use powerful modeling capabilities of R, such as loess, linear models, generalized additive models, and robust regressionsave any ggplot2 plot (or part thereof) for later modification or reusecreate custom themes that capture in-house or journal style requirements and that can easily be applied to multiple plotsapproach a graph from a visual perspective, thinking about how each component of the data is represented on the final plotThis book will be useful to everyone who has struggled with displaying data in an informative and attractive way. Some basic knowledge of R is necessary (e.g., importing data into R).Ã Â ggplot2 is a mini-language specifically tailored for producing graphics, and you'll learn everything you need in the book. After reading this book you'll be able to produce graphics customized precisely for your problems, and you'll find it easy to get graphics out of your head and on to the screen or page.

Book Information

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Customer Reviews

Ã¢â ¬Å“The book is an excellent and very comprehensive manual of Ã¢â ¬Â¦ one of the most popular R packages. It is currently the only book describing ggplot2 in such depth. The book contains many examples and is very nicely illustrated, demonstrating the strength of the package.Ã¢â ¬Â• (Klaus Galensa, Computing Reviews, May, 2017)

This new edition to the classic book by ggplot2 creator Hadley Wickham highlights compatibility with knitr and RStudio. ggplot2 is a data visualization package for R that helps users create data graphics, including those that are multi-layered, with ease. With ggplot2, it's easy to:* produce handsome, publication-quality plots with automatic legends created from the plot specification* superimpose multiple layers (points, lines, maps, tiles, box plots) from different data sources with automatically adjusted common scales* add customizable smoothers that use powerful modeling capabilities of R, such as loess, linear models, generalized additive models, and robust regression* Ã Â save any ggplot2 plot (or part thereof) for later modification or reuse* create custom themes that capture in-house or journal style requirements and that can easily be applied to multiple plots* approach a graph from a visual perspective, thinking about how each component of the data is represented on the final plotThis book will be useful to everyone who has struggled with displaying data in an informative and attractive way. Some basic knowledge of R is necessary (e.g., importing data into R). Ã Â ggplot2 is a mini-language specifically tailored for producing graphics, and you'll learn everything you need in the book. After reading this book you'll be able to produce graphics customized precisely for your problems, and you'll find it easy to get graphics out of your head and on to the screen or page. Ã Â New to this edition:* Brings the book up-to-date with ggplot2 1.0, including major updates to the theme system* New scales, stats and geoms added throughout* Additional practice exercises* A revised introduction that focuses on ggplot() instead of qplot()* Updated chapters on data and modeling using tidyr, dplyr and broom

I found chapter 2 guiding you through the basics very good. The remainder of the book is often challenging and cryptic. Numerous of the codes did not work. That was especially true for a key chapter (11 Modeling for visualization) where some codes early in the chapter did not work, and prevented me from getting any benefit from the majority of the chapter. That was true of the codes that the author posted on the Internet too. Also, even though the graphs are often impressive they invariably do not convey accurate confidence intervals. Using ggplot2, specifying Confidence Intervals @95% level, you are lucky if you capture 40% of the actual observations (instead of ~ 95%).My experience in developing my R skills is perplexing. I have learned how to model some of

the most challenging models at the cutting edge of Machine Learning. And, books on the subjects are invariably really clear and helpful. The coding is surprisingly easy. And, the overall experience most rewarding.However, when dealing with R graphs my experience has been radically different. I have spent a ridiculous amount of money on expensive R graph books (including this one), and time. And, so far I have not gotten much out of it. I have run a lot more often into codes that did not work. And, too often the coding for even a basic graph can often be a lot more complex and fragile than for an advanced Machine Learning model that does an amazing amount of complex calculations in no time. Granted R graphs also do have very powerful underlying quantitative algorithms. Yet, I find the wide discrepancy in my learning experience between the two very perplexing (graphs vs. models).

Excellent Book on the grammar of graphics and ggplot. Learning to use ggplot is well worth the effort

Very useful and informative reference on the use of this powerful package for data visualisation.

Very well written. Very well designed package.

Met every expectation, a must have for making amazing plots and graphics.

This review is for the 2nd Edition of the book. ggplot2 has changed a lot in recent years and the old book is no longer useful.Hadley has rewritten the book on ggplot2 completely and utilized the examples and questions from the communities on StackOverflow and GoogleGroups as a guide. The book starts off gentle, but does assume you have basic knowledge of R (installation of packages, some base functions, loading libraries and simple syntax). The components of the grammar are brought in piecewise and in a logical way that should help early learners and refresh those of us who have used the package for a while. There are tons of code examples which are colored coded for legibility and syntax reasons. Each block of code is followed by the output from that code, which helps the user understand what is expected. At the end of major sections, there are exercises which not only help you understand what you've learned, but also get you thinking about how you would analyze a similar dataset. This is really important because if you do these exercises, you will be well prepared to implement the visualization strategies herein on any dataset.Chapters 9-11 introduce auxiliary packages in the tidyverse (formerly "Hadleyverse") including dplyr, tidyr,

and broom, which are used to discuss an entire data analysis pipeline. This sections does a good job of introducing these tools and what you would use them for. If you're interested in digging further into these packages, Hadley has been writing another book called R for Data Science which will hopefully be on sale in late 2016. An early version can be found here: [...]The last chapter is about programming with ggplot2. Hadley introduces some very useful, more advanced methods for plotting with ggplot2 from creating your own functions to using standard evaluation. A very useful introduction for more advanced users.Overall, the book is a gentle and thorough introduction to the ggplot2 package for beginners and a very useful references to all of the updates introduced in the last few years since the last ggplot book (Winston Chang's R Graphics Cookbook)R Graphics Cookbook.

This book 2016 version of the 2009 book and is really good. Great examples! Updated to the current version of R so all the examples and references are to functions and packages in the current R version that I am using today... which makes it much easier to follow.Writing style is very clear. Examples of each concept along with review questions that really make you think about what has just been covered rather than just regurgitating facts.Overall style is concept, some details, and examples.Sometimes I wish Hadley would use more of an primitive breakdown approach to examples. For example one example starts with using loess to build some data for an example. I'd rather just see some plain data rather than a building some data from line fitting. That would make it easer to see how data flows through an example. I appreciate that what Hadley ends up with is real world data, but I, and this may just be me, I like things explained at a more primitive level.But in any case this book is not just showing you some neat plots, even though it has many, it is giving you the fundamentals you need to be able to implement from scratch the plots you think up in your head to point out statistical features in your data.

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