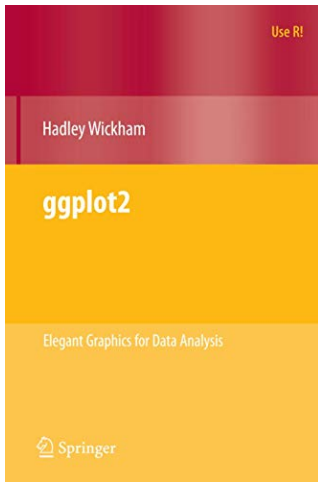


[PDF] Ggplot2: Elegant Graphics For Data Analysis (Use R!)

Hadley Wickham - pdf download free book



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Description:

From the Back Cover

This book describes ggplot2, a new data visualization package for R that uses the insights from Leland Wilkison's Grammar of Graphics to create a powerful and flexible system for creating data graphics. With ggplot2, it's easy to:

- produce handsome, publication-quality plots, with automatic legends created from the plot specification
- superpose multiple layers (points, lines, maps, tiles, box plots to name a few) from different data sources, with automatically adjusted common scales

- add customisable smoothers that use the powerful modelling capabilities of R, such as loess, linear models, generalised additive models and robust regression
- 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 your graph from a visual perspective, thinking about how each component of the data is represented on the final plot

This book will be useful to everyone who has struggled with displaying their data in an informative and attractive way. You will need some basic knowledge of R (i.e. you should be able to get your data into R), but 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.

Hadley Wickham is an Assistant Professor of Statistics at Rice University, and is interested in developing computational and cognitive tools for making data preparation, visualization, and analysis easier. He has developed 15 R packages and in 2006 he won the John Chambers Award for Statistical Computing for his work on the ggplot and reshape R packages.

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Welcome to the second edition of *ggplot2: elegant graphics for data analysis*. I'm so excited to have an updated book that shows off all the latest and greatest ggplot2 features, as well as the great things that have been happening in R and in the ggplot2 community the last five years. The ggplot2 community is vibrant: the ggplot2 mailing list has over 7,000 members and there is a very active Stack Overflow community, with nearly 10,000 questions tagged with ggplot2. It allows you to produce graphics using the same structured thinking that you use to design an analysis, reducing the distance between a plot in your head and one on the page. It is especially helpful for students who have not yet developed the structured approach to analysis used by experts. ggplot2 is the most famous package for data visualization with R. This page offers tip and tricks concerning its usage. It can greatly improve the quality and aesthetics of your graphics, and will make you much more efficient in creating them. ggplot2 allows to build almost any type of chart. The R graph. gallery focuses on it so almost every section there starts with ggplot2 examples. This page is dedicated to general ggplot2 tips that you can apply to any chart, like customizing a title, adding annotation, or using faceting. If you're new to ggplot2, a good starting point is probably this online course. A world of geom. ggplot2 builds charts through layers using geom_ functions. Here is a list of the different types of visualization to use for what sort of problem? This tutorial helps you choose the right type of chart for your specific objectives and how to implement it in R using ggplot2. This is part 3 of a three part tutorial on ggplot2, an aesthetically pleasing (and very popular) graphics framework in R. This tutorial is primarily geared towards those having some basic knowledge of the R programming language and want to make complex and nice looking charts with R ggplot2. Part 1: Introduction to ggplot2, covers the basic knowledge about constructing simple ggplots and modifying the components. Conveys the right information without distorting facts. Is simple but elegant. The most frequently used plot for data analysis is undoubtedly the scatterplot. Unlike most other graphics packages, ggplot2 has an underlying grammar, based on the Grammar of Graphics,¹ that allows you to compose graphs by combining independent components. This makes ggplot2 powerful. This allows you to produce graphics using the same structured thinking that you would use to design an analysis. This reduces the distance between the plot in your head and the one on the page. This is especially helpful for students who have not yet developed the structured approach to analysis used by experts. Learning the grammar will not only help you create graphics that you're familiar with, but will also help you to create newer, better graphics. Without a grammar, there is no underlying theory, so most graphics packages are just a big collection of special cases. This is the on-line version of work-in-progress 3rd edition of *ggplot2: elegant graphics for data analysis* published by Springer. You can learn what's changed from the 2nd edition in the Preface. While this book gives some details on the basics of ggplot2, its primary focus is explaining the Grammar of Graphics that ggplot2 uses, and describing the full details. It is not a cookbook, and won't necessarily help you create any specific graphic that you need. But it will help you understand the details of the underlying theory, giving you the power to tailor any plot specifically to your needs.