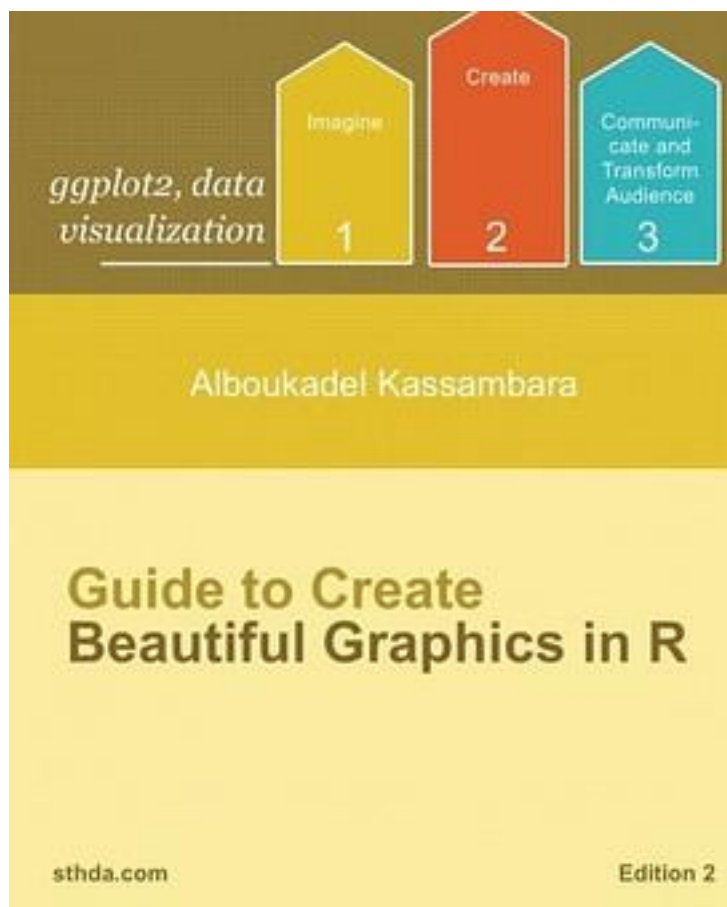


Guide to Create Beautiful Graphics in R



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This book contains 6 parts. The first part provides a quick introduction to R (chapter 1) and to ggplot2 plotting system (chapter 2).

In the second part (chapter 3 - 11), we described the different graphs for visualizing one continuous/discrete variable: area plots, density plots, histogram plots, frequency polygon, dot plots, ECDF and QQ plots.

Part III provides quick-start guides for plotting two continuous/discretes variables, including :

- Scatter plots (chapter 12)
- Continuous bivariate distribution (chapter 13)
- Jitter plots of two discretes variables (chapter 14)

Part IV (chapter 15 - 22) describes how to draw and customize: box plots, violin plots, dot plots, strip charts, line plots, bar plots and pie charts.

Part V of the book covers how to change graphical parameters including:

- Main title, axis labels and legend titles (chapter 24)
- Legend position and appearance (chapter 25)
- Colors (chapter 26)
- Point shapes, colors and size (chapter 27)
- Line types (chapter 28)
- Axis limits: minimum and maximum values (chapter 29)
- Axis transformations: log and sqrt (chapter 30)
- Date axes (chapter 31)
- Axis ticks : customize tick marks and labels (chapter 32)
- Themes and background colors (chapter 33)
- Add text annotations to a graph (chapter 34)
- Add straight lines to a plot: horizontal, vertical and regression lines (chapter 35)
- Rotate a plot (chapter 36)
- Facets: split a plot into a matrix of panels (chapter 37)
- Position adjustments (chapter 38)

作者介绍:

Alboukadel Kassambara is a Health – Biology Scientist with ten years work experiences in Cancer Biology and Bioinformatics.

He has extensive experiences in statistical and computational methods to identify prognostic and predictive biomarker signatures through integrative analysis of large-scale genomic and clinical data sets.

He created a bioinformatics web-tool named GenomicScape, for an easy gene expression data analysis and visualization.

He developed also a training website on data science, named STHDA, which contains many tutorials on data analysis and visualization using R software and packages.

He is the author of many popular R packages for multivariate data analysis, survival analysis and data visualization.

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