R Graph Essentials

By David Alexander Lillis

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Use R's powerful graphing capabilities to design and create professional-level graphics

About This Book

- Learn how to use Base R to analyze your data and generate statistical graphs
- Create attractive graphics using advanced functions such as qplot and ggplot for research and analysis
- A step-by-step guide, packed with examples using real-world data sets that can prove helpful to R programmers

Who This Book Is For

This book is targeted at R programmers who want to learn the graphing capabilities of R. This book will presume that you have working knowledge of R.

What You Will Learn

- Understand and implement the basic graphics syntax and techniques
- Create scatterplots and line plots, and include mathematical expressions in them
- Include more advanced graphics and color palettes in your graph
- Create and customize graphs using the qplot function
- Customize the graphics, backgrounds, sizes, and colors of your graph using ggplot
- Add layers to your graph using ggplot
- Make publication-quality graphs using ggplot

In Detail

R has undergone an explosion of popularity around the world. The wide range of graphs and options for creating high-impact visualizations makes R a highly effective tool for researchers, data analysts, students, and others.

This book starts with the basics of R and the principles of creating graphics, focusing on scatterplots and line graphs for research and data analysis.

After that you will learn how to include mathematical expressions on your graphs and create bar charts, histograms, boxplots, and so on using advanced functions. The book then dives deeper into shading and coloring your graphs and labeling points on graphs using the qplot function. After that you will learn how to use the ggplot package to control symbol color, size, shape, and many other attributes.

By the end of this book, you will have expert skills to create attractive and informative graphics and design professional-level graphs.

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Editorial Review

About the Author

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David Alexander Lillis is an experienced researcher and statistician, having worked in research evaluation, agricultural and forestry statistics, and education research and statistics. Currently, David delivers lectures in mathematics, statistics, and research methods at the New Zealand Institute of Sport in New Zealand. He is the owner and Director of Sigma Statistics and Research Limited, a New Zealand-based consultancy specializing in training, software development, data analysis, and statistical modelling using R. David holds an Honor's degree and Master's degree in Physics and Mathematics, and a PhD from Curtin University in Perth, Australia.

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Cynthia Carter:

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