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Autore	Abedin Jaynal
Titolo	R graphs cookbook : over 70 recipes for building and customizing publication-quality visualization of powerful and stunning R graphs / / Jaynal Abedin, Hrishi V. Mittal
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ISBN	1-78398-879-7
Edizione	[Second edition.]
Descrizione fisica	1 online resource (368 p.)
Collana	Quick answers to common problems
Disciplina	511/.5
Soggetti	R (Computer program language) Charts, diagrams, etc Computer graphics Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Cover; Copyright; Credits; About the Authors; About the Reviewers; www.PacktPub.com; Table of Contents; Preface; Chapter 1: R Graphics; Base graphics using the default package; Trellis graphs using lattice; Graphs inspired by Grammar of Graphics; Chapter 2: Basic Graph Functions; Introduction; Creating scatter plots; Creating line graphs; Creating bar charts; Creating histograms and density plots; Creating box plots; Adjusting x and y axes' limits; Creating heat maps; Creating pairs plots; Creating multiple plot matrix layouts; Adding and formatting legends; Creating graphs with maps Saving and exporting graphsChapter 3: Beyond the Basics - Adjusting Key Parameters; Introduction; Setting colors of points, lines, and bars; Setting plot background colors; Setting colors for text elements - axis annotations, labels, plot titles, and legends; Choosing color combinations and palettes; Setting fonts for annotations and titles; Choosing plotting point symbol styles and sizes; Choosing line styles and width; Choosing box styles; Adjusting axis annotations and tick marks; Formatting log axes; Setting graph margins and dimensions; Chapter 4: Creating Scatter Plots; Introduction Grouping data points within a scatter plotHighlighting grouped data points by size and symbol type; Labeling data points; Correlation

matrix using pairs plots; Adding error bars; Using jitter to distinguish closely packed data points; Adding linear model lines; Adding nonlinear model curves; Adding nonparametric model curves with lowess; Creating three-dimensional scatter plots; Creating Quantile-Quantile plots; Displaying the data density on axes; Creating scatter plots with a smoothed density representation; Chapter 5: Creating Line Graphs and Time Series Charts; Introduction
Adding customized legends for multiple-line graphsUsing margin labels instead of legends for multiple-line graphs; Adding horizontal and vertical grid lines; Adding marker lines at specific x and y values using abline; Creating sparklines; Plotting functions of a variable in a dataset; Formatting time series data for plotting; Plotting the date or time variable on the x axis; Annotating axis labels in different human-readable time formats; Adding vertical markers to indicate specific time events; Plotting data with varying time-averaging periods; Creating stock charts
Chapter 6: Creating Bar, Dot, and Pie ChartsIntroduction; Creating bar charts with more than one factor variable; Creating stacked bar charts; Adjusting the orientation of bars - horizontal and vertical; Adjusting bar widths, spacing, colors, and borders; Displaying values on top of or next to the bars; Placing labels inside bars; Creating bar charts with vertical error bars; Modifying dot charts by grouping variables; Making better, readable pie charts with clockwise-ordered slices; Labeling a pie chart with percentage values for each slice; Adding a legend to a pie chart
Chapter 7: Creating Histograms

Sommario/riassunto

Targeted at those with an existing familiarity with R programming, this practical guide will appeal directly to programmers interested in learning effective data visualization techniques with R and a wide-range of its associated libraries.