

1. Record Nr.	UNINA9910779167403321
Autore	Gardener Mark
Titolo	Beginning R : the statistical programming language // Mark Gardener
Pubbl/distr/stampa	Indianapolis, : John Wiley & Sons, 2012
ISBN	1-280-68463-1 9786613661579 1-118-22616-X
Edizione	[1st edition]
Descrizione fisica	1 online resource (507 p.)
Collana	Wrox programmer to programmer
Disciplina	519.50285536
Soggetti	R (Computer program language) Statistics - Data processing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Beginning R; Contents; Introduction; Who This Book Is For; What This Book Covers; How This Book Is Structured; What You Need to Use This Book; Conventions; Source Code; Errata; p2p.wrox.com; Chapter 1: Introducing R: What It Is and How to Get It; Getting the Hang of R; Running the R Program; Finding Your Way with R; Command Packages; Summary; Chapter 2: Starting Out: Becoming Familiar with R; Some Simple Math; Reading and Getting Data into R; Viewing Named Objects; Types of Data Items; The Structure of Data Items; Examining Data Structure; Working with History Commands; Saving Your Work in R SummaryChapter 3: Starting Out: Working; Manipulating Objects; Viewing Objects within Objects; Constructing Data Objects; Forms of Data Objects: Testing and Converting; Summary; Chapter 4: Data: Descriptive Statistics and Tabulation; Summary Commands; Summarizing Samples; Summary Tables; Summary; Chapter 5: Data: Distribution; Looking at the Distribution of Data; Summary; Chapter 6: Simple Hypothesis Testing; Using the Student's t-test; The Wilcoxon U-Test (Mann-Whitney); Paired t- and U-Tests; Correlation and Covariance; Tests for Association; Summary Chapter 7: Introduction to Graphical AnalysisBox-whisker Plots; Scatter Plots; Pairs Plots (Multiple Correlation Plots); Line Charts; Pie Charts; Cleveland Dot Charts; Bar Charts; Copy Graphics to Other Applications;

Summary; Chapter 8: Formula Notation and Complex Statistics; Examples of Using Formula Syntax for Basic Tests; Formula Notation in Graphics; Analysis of Variance (ANOVA); Summary; Chapter 9: Manipulating Data and Extracting Components; Creating Data for Complex Analysis; Summarizing Data; Summary; Chapter 10: Regression (Linear Modeling); Simple Linear Regression Multiple Regression Curvilinear Regression; Plotting Linear Models and Curve Fitting; Summarizing Regression Models; Summary; Chapter 11: More About Graphs; Adding Elements to Existing Plots; Matrix Plots (Multiple Series on One Graph); Multiple Plots in One Window; Exporting Graphs; Summary; Chapter 12: Writing Your Own Scripts: Beginning to Program; Copy and Paste Scripts; Creating Simple Functions; Making Source Code; Summary; Appendix: Answers to Exercises; Chapter 1; Chapter 2; Chapter 3; Chapter 4; Chapter 5; Chapter 6; Chapter 7; Chapter 8; Chapter 9; Chapter 10; Chapter 11; Chapter 12
IndexAdvertisement

Sommario/riassunto

Conquer the complexities of this open source statistical language R is fast becoming the de facto standard for statistical computing and analysis in science, business, engineering, and related fields. This book examines this complex language using simple statistical examples, showing how R operates in a user-friendly context. Both students and workers in fields that require extensive statistical analysis will find this book helpful as they learn to use R for simple summary statistics, hypothesis testing, creating graphs, regression, and much more. It covers formula notation, complex s
