



# Data Manipulation with R

## Second Edition

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# Data Manipulation With R Second Edition

**Jaynal Abedin,Kishor Kumar Das**

## **Data Manipulation With R Second Edition:**

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[Analyzing Baseball Data with R, Second Edition](#) Max Marchi,Jim Albert,Benjamin S. Baumer,2018-11-19 Analyzing Baseball Data with R Second Edition introduces R to sabermetricians baseball enthusiasts and students interested in exploring the richness of baseball data It equips you with the necessary skills and software tools to perform all the analysis steps from importing the data to transforming them into an appropriate format to visualizing the data via graphs to performing a statistical analysis The authors first present an overview of publicly available baseball datasets and a gentle

introduction to the type of data structures and exploratory and data management capabilities of R They also cover the ggplot2 graphics functions and employ a tidyverse friendly workflow throughout Much of the book illustrates the use of R through popular sabermetrics topics including the Pythagorean formula runs expectancy catcher framing career trajectories simulation of games and seasons patterns of streaky behavior of players and launch angles and exit velocities All the datasets and R code used in the text are available online New to the second edition are a systematic adoption of the tidyverse and incorporation of Statcast player tracking data made available by Baseball Savant All code from the first edition has been revised according to the principles of the tidyverse Tidyverse packages including dplyr ggplot2 tidyr purrr and broom are emphasized throughout the book Two entirely new chapters are made possible by the availability of Statcast data one explores the notion of catcher framing ability and the other uses launch angle and exit velocity to estimate the probability of a home run Through the book s various examples you will learn about modern sabermetrics and how to conduct your own baseball analyses Max Marchi is a Baseball Analytics Analyst for the Cleveland Indians He was a regular contributor to The Hardball Times and Baseball Prospectus websites and previously consulted for other MLB clubs Jim Albert is a Distinguished University Professor of statistics at Bowling Green State University He has authored or coauthored several books including Curve Ball and Visualizing Baseball and was the editor of the Journal of Quantitative Analysis of Sports Ben Baumer is an assistant professor of statistical data sciences at Smith College Previously a statistical analyst for the New York Mets he is a co author of The Sabermetric Revolution and Modern Data Science with R **Data Analysis with R - Second Edition** Tony Fischetti, 2018 Learn by example the fundamentals of data analysis as well as several intermediate to advanced methods and techniques ranging from classification and regression to Bayesian methods and MCMC which can be put to immediate use About This Book Analyze your data using R the most powerful statistical programming language Learn how to implement applied statistics using practical use cases Use popular R packages to work with unstructured and structured data Who This Book Is For Budding data scientists and data analysts who are new to the concept of data analysis or who want to build efficient analytical models in R will find this book to be useful No prior exposure to data analysis is needed although a fundamental understanding of the R programming language is required to get the best out of this book What You Will Learn Gain a thorough understanding of statistical reasoning and sampling theory Employ hypothesis testing to draw inferences from your data Learn Bayesian methods for estimating parameters Train regression classification and time series models Handle missing data gracefully using multiple imputation Identify and manage problematic data points Learn how to scale your analyses to larger data with Rcpp data table dplyr and parallelization Put best practices into effect to make your job easier and facilitate reproducibility In Detail Frequently the tool of choice for academics R has spread deep into the private sector and can be found in the production pipelines at some of the most advanced and successful enterprises The power and domain specificity of R allows the user to express complex analytics easily quickly and succinctly Starting with the basics of R

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R for Programmers Dan Zhang, 2017-03-31 This book discusses advanced topics such as R core programming object oriented R programming parallel computing with R and spatial data types The author leads readers to merge mature and effective methodologies in traditional programming to R programming It shows how to interface R with C Java and other popular programming languages and platforms

Handbook of Regression Analysis With Applications in R Samprit Chatterjee, Jeffrey S. Simonoff, 2020-07-27 Handbook and reference guide for students and practitioners of statistical regression based analyses in R Handbook of Regression Analysis with Applications in R Second Edition is a comprehensive and up to date guide to conducting complex regressions in the R statistical programming language The authors thorough treatment of classical regression analysis in the first edition is complemented here by their discussion of more advanced topics including time to event survival data and longitudinal and clustered data The book further pays particular attention to methods that have become prominent in the last few decades as increasingly large data sets have made new techniques and applications possible These include Regularization methods Smoothing methods Tree based methods In the new edition of

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computer science medicine morphometrics and image analysis [SAS and R](#) Ken Kleinman,Nicholas J. Horton,2014-07-17 An Up to Date All in One Resource for Using SAS and R to Perform Frequent TasksThe first edition of this popular guide provided a path between SAS and R using an easy to understand dictionary like approach Retaining the same accessible format SAS and R Data Management Statistical Analysis and Graphics Second Edition explains how to easily p **R for**

**Data Analysis in easy steps, 2nd edition** Mike McGrath,2023-06-05 The R language is widely used by statisticians for data analysis and the popularity of R programming has therefore increased substantially in recent years The emerging Internet of Things IoT gathers increasing amounts of data that can be analyzed to gain useful insights into trends R for Data Analysis in easy steps 2nd edition has an easy to follow style that will appeal to anyone who wants to produce graphic visualizations to gain insights from gathered data The book begins by explaining core programming principles of the R programming language which stores data in vectors from which simple graphs can be plotted Next it describes how to create matrices to store and manipulate data from which graphs can be plotted to provide better insights This book then demonstrates how to create data frames from imported data sets and how to employ the Grammar of Graphics to produce advanced visualizations that can best illustrate useful insights from your data R for Data Analysis in easy steps 2nd edition contains separate chapters on the major features of the R programming language There are complete example programs that demonstrate how to create Line graphs Bar charts Histograms Scatter graphs Box plots and more The code for each R script is listed together with screenshots that illustrate the actual output when that script has been executed The free downloadable example R code is provided for clearer understanding By the end of this book you will have gained a sound understanding of R programming and be able to write your own scripts that can be executed to produce graphic visualizations for data analysis You need have no previous knowledge of any programming language so it's ideal for the newcomer to computer programming Updated for the latest version of R Contents Getting started Storing values Performing operations Testing conditions Employing functions Building matrices Constructing data frames Producing quick plots Telling stories with data Plotting perfection **A**

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