Mastering RStudio: Develop, Communicate, and Collaborate with R

Julian Hillebrand, Maximilian H. Nierhoff

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Harness the power of RStudio to create web applications, R packages, markdown reports and pretty data visualizations

About This Book

- Discover the multi-functional use of RStudio to support your daily work with R code
- Learn to create stunning, meaningful, and interactive graphs and learn to embed them into easy communicable reports using multiple R packages
- Develop your own R packages and Shiny web apps to share your knowledge and collaborate with others.

Who This Book Is For

This book is aimed at R developers and analysts who wish to do R statistical development while taking advantage of RStudio's functionality to ease their development efforts. R programming experience is assumed as well as being comfortable with R's basic structures and a number of functions.

What You Will Learn

- Discover the RStudio IDE and details about the user interface
- Communicate your insights with R Markdown in static and interactive ways
- Learn how to use different graphic systems to visualize your data
- Build interactive web applications with the Shiny framework to present and share your results
- Understand the process of package development and assemble your own R packages
- Easily collaborate with other people on your projects by using Git and GitHub
- Manage the R environment for your organization with RStudio and Shiny server
- Apply your obtained knowledge about RStudio and R development to create a real-world dashboard solution

In Detail

RStudio helps you to manage small to large projects by giving you a multi-functional integrated development environment, combined with the power and flexibility of the R programming language, which is becoming the bridge language of data science for developers and analyst worldwide. Mastering the use of RStudio will help you to solve real-world data problems.

This book begins by guiding you through the installation of RStudio and explaining the user interface step by step. From there, the next logical step is to use this knowledge to improve your data analysis workflow. We will do this by building up our toolbox to create interactive reports and graphs or even web applications with Shiny. To collaborate with others, we will explore how to use Git and GitHub with RStudio and how to build

your own packages to ensure top quality results. Finally, we put it all together in an interactive dashboard written with R.

Style and approach

An easy-to-follow guide full of hands-on examples to master RStudio.

Beginning from explaining the basics, each topic is explained with a lot of details for every feature.

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