



Learning RStudio for R Statistical Computing

Mark P.J. van der Loo, Edwin de Jonge

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If you need to create and manage complex statistical analysis projects, this book could be a catalyst for great things. In clear, practical chapters it teaches you how to employ Rstudio's powerful features to perform R statistical computing.

Overview

- A complete practical tutorial for RStudio, designed keeping in mind the needs of analysts and R developers alike.
- Step-by-step examples that apply the principles of reproducible research and good programming practices to R projects.
- Learn to effectively generate reports, create graphics, and perform analysis, and even build R-packages with RStudio.

In Detail

Data is coming at us faster, dirtier, and at an ever increasing rate. The necessity to handle many, complex statistical analysis projects is hitting statisticians and analysts across the globe. This book will show you how to deal with it like never before, thus providing an edge and improving productivity.

"Learning RStudio for R Statistical Computing" will teach you how to quickly and efficiently create and manage statistical analysis projects, import data, develop R scripts, and generate reports and graphics. R developers will learn about package development, coding principles, and version control with RStudio.

This book will help you to learn and understand RStudio features to effectively perform statistical analysis and reporting, code editing, and R development.

The book starts with a quick introduction where you will learn to load data, perform simple analysis, plot a graph, and generate automatic reports. You will then be able to explore the available features for effective coding, graphical analysis, R project management, report generation, and even project management.

"Learning RStudio for R Statistical Computing" is stuffed with feature-rich and easy-to-understand examples, through step-by-step instructions helping you to quickly master the most popular IDE for R development

What you will learn from this book

- Learn to install and run RStudio on a desktop or a web server
- Acquaint yourself with the latest and advanced R console features
- Perform code editing and navigation
- Learn to create advanced and interactive graphics
- Effectively manage your R project and project files
- Learn to build R extension packages
- Perform reproducible statistical analyses within your R projects
- Learn your way through getting

Approach

A practical tutorial covering how to leverage RStudio functionality to effectively perform R Development, analysis, and reporting with RStudio.

Who this book is written for

The book is aimed at R developers and analysts who wish to do R statistical development while taking advantage of RStudio functionality to ease their development efforts. Familiarity with R is assumed. Those who want to get started with R development using RStudio will also find the book useful. Even if you already use R but want to create reproducible statistical analysis projects or extend R with self-written packages, this book shows how to quickly achieve this using RStudio.

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