



Community Experience Distilled

# Mastering RStudio – Develop, Communicate, and Collaborate with R

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

Julian Hillebrand  
Maximilian H. Nierhoff

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# Mastering Rstudio Develop Communicate Collaborate Ebook

**Julian Hillebrand, Maximilian H.  
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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

**Hands-On Programming with R** Garrett Golemund, 2014-06-13 Learn how to program by diving into the R language and then use your newfound skills to solve practical data science problems With this book you'll learn how to load data assemble and disassemble data objects navigate R's environment system write your own functions and use all of R's programming tools

**RStudio Master Instructor Garrett Golemund** not only teaches you how to program but also shows you how to get more from R than just visualizing and modeling data You'll gain valuable programming skills and support your work as a data scientist at the same time Work hands on with three practical data analysis projects based on casino games Store retrieve and change data values in your computer's memory Write programs and simulations that outperform those written by typical R users Use R programming tools such as if else statements for loops and S3 classes Learn how to write lightning fast vectorized R code Take advantage of R's package system and debugging tools Practice and apply R programming concepts as you learn them

**Mastering Parallel Programming with R** Simon R. Chapple, Eilidh Troup, Thorsten Forster, Terence Sloan, 2016-05-31 Master the robust features of R parallel programming to accelerate your data science computations

**About This Book** Create R programs that exploit the computational capability of your cloud platforms and computers to the fullest Become an expert in writing the most efficient and highest performance parallel algorithms in R Get to grips with the concept of parallelism to accelerate your existing R programs

**Who This Book Is For** This book is for R programmers who want to step beyond its inherent single threaded and restricted memory limitations and learn

how to implement highly accelerated and scalable algorithms that are a necessity for the performant processing of Big Data. No previous knowledge of parallelism is required. This book also provides for the more advanced technical programmer seeking to go beyond high level parallel frameworks.

**What You Will Learn**

- Create and structure efficient load balanced parallel computation in R using R's built in parallel package
- Deploy and utilize cloud based parallel infrastructure from R including launching a distributed computation on Hadoop running on Amazon Web Services AWS
- Get accustomed to parallel efficiency and apply simple techniques to benchmark measure speed and target improvement in your own code
- Develop complex parallel processing algorithms with the standard Message Passing Interface MPI using RMPI, pbdMPI and SPRINT packages
- Build and extend a parallel R package SPRINT with your own MPI based routines
- Implement accelerated numerical functions in R utilizing the vector processing capability of your Graphics Processing Unit GPU with OpenCL
- Understand parallel programming pitfalls such as deadlock and numerical instability and the approaches to handle and avoid them
- Build a task farm master worker spatial grid and hybrid parallel R programs

**In Detail**

R is one of the most popular programming languages used in data science. Applying R to big data and complex analytic tasks requires the harnessing of scalable compute resources. *Mastering Parallel Programming with R* presents a comprehensive and practical treatise on how to build highly scalable and efficient algorithms in R. It will teach you a variety of parallelization techniques from simple use of R's built in parallel package versions of lapply to high level AWS cloud based Hadoop and Apache Spark frameworks. It will also teach you low level scalable parallel programming using RMPI and pbdMPI for message passing applicable to clusters and supercomputers and how to exploit thousand fold speedup using GPUs through ROpenCL. By the end of the book you will understand the factors that influence parallel efficiency including assessing code performance and implementing load balancing pitfalls to avoid including deadlock and numerical instability issues, how to structure your code and data for the most appropriate type of parallelism for your problem domain and how to extract the maximum performance from your R code running on a variety of computer systems.

**Style and approach**

This book leads you chapter by chapter from the easy to more complex forms of parallelism. The author's insights are presented through clear practical examples applied to a range of different problems with comprehensive reference information for each of the R packages employed. The book can be read from start to finish or by dipping in chapter by chapter as each chapter describes a specific parallel approach and technology so can be read as a standalone.

**Learn RStudio IDE**

Matthew Campbell, 2019-06-05

Discover how to use the popular RStudio IDE as a professional tool that includes code refactoring support, debugging and Git version control integration. This book gives you a tour of RStudio and shows you how it helps you do exploratory data analysis, build data visualizations with ggplot and create custom R packages and web based interactive visualizations with Shiny. In addition you will cover common data analysis tasks including importing data from diverse sources such as SAS files, CSV files and JSON. You will map out the features in RStudio so that you will be able to customize RStudio to fit your own style of coding. Finally you will see how to

save a ton of time by adopting best practices and using packages to extend RStudio Learn RStudio IDE is a quick no nonsense tutorial of RStudio that will give you a head start to develop the insights you need in your data science projects What You Will Learn Quickly effectively and productively use RStudio IDE for building data science applications Install RStudio and program your first Hello World application Adopt the RStudio workflow Make your code reusable using RStudio Use RStudio and Shiny for data visualization projects Debug your code with RStudio Import CSV SPSS SAS JSON and other data Who This Book Is For Programmers who want to start doing data science but don't know what tools to focus on to get up to speed quickly

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