



# R Packages: Organize, Test, Document, and Share Your Code

By Hadley Wickham

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Turn your R code into packages that others can easily download and use. This practical book shows you how to bundle reusable R functions, sample data, and documentation together by applying author Hadley Wickham's package development philosophy. In the process, you'll work with devtools, roxygen, and testthat, a set of R packages that automate common development tasks. Devtools encapsulates best practices that Hadley has learned from years of working with this programming language.

Ideal for developers, data scientists, and programmers with various backgrounds, this book starts you with the basics and shows you how to improve your package writing over time. You'll learn to focus on what you want your package to do, rather than think about package structure.

- Learn about the most useful components of an R package, including vignettes and unit tests
- Automate anything you can, taking advantage of the years of development experience embodied in devtools
- Get tips on good style, such as organizing functions into files
- Streamline your development process with devtools
- Learn the best way to submit your package to the Comprehensive R Archive Network (CRAN)
- Learn from a well-respected member of the R community who created 30 R packages, including ggplot2, dplyr, and tidyr

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### **Editorial Review**

#### About the Author

Hadley is Chief Scientist at RStudio and Adjunct Professor of Statistics at Rice University. He is interested in building better tools for data science. His work includes R packages for data analysis (ggvis, dplyr, tidyr); packages that make R less frustrating (lubridate for dates, stringr for strings, httr for accessing web APIs, rvest for webscraping); and that make it easier to do good software development in R (roxygen2, testthat, devtools). He is also a writer, educator, and frequent speaker promoting more accessible, more effective and more fun data analysis.

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