

Title: Workshop: R Package Building

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Abstract:

This workshop will teach you how to build R packages using RStudio and other useful tools. Therefore, a basic knowledge in R programming is highly recommended. As a running example, we will jointly build a basic “toy package.” We will then continuously add features to complete the package.

The workshop will cover topics such as:

- Package structure
- Developing and structuring the most important files (e.g., R code)
- Writing help-files (using the R package roxygen2)
- Where to find help
- Basic Terminal commands (within RStudio)

Depending on participants' preferences, the workshop may also include other topics such as:

- Using GitHub to make your package accessible and to facilitate collaboration
- Handling (CRAN) checks
- Implementing C/C++ code into your package

Prerequisites: Please bring your laptop with recent versions of R and RStudio installed and also install the R package devtools. If you are a Windows user, please install Rtools4 (<https://cran.r-project.org/bin/windows/Rtools/rtools40.html>) beforehand.

Assignment: Active Participation

Credits: 1 workshop day