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2020-02-04: R packages: The whole  
game

# <https://r-pkgs.org/whole-game.html>

## R Packages

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## R packages

Packages are the fundamental units of reproducible R code. They include reusable R functions, the documentation that describes how to use them, and sample data. In this book you'll learn how to turn your code into packages that others can easily download and use. Writing a package can seem overwhelming at first. So start with the basics and improve it over time. It doesn't matter if your first version isn't perfect as long as the next version is better.

This is where we are developing the 2nd edition of this book. The 1st edition remains available at <http://r-pkgs.had.co.nz/>.



<http://rstd.io/build-tt>

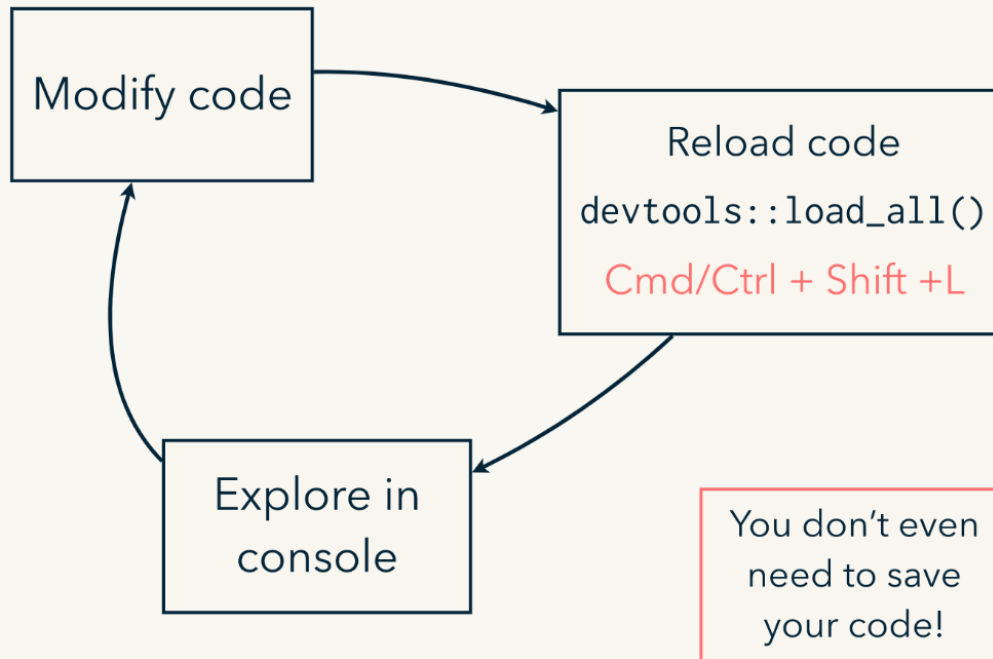


# What is an R package?

A package is a set of  
conventions that  
(with the right tools)  
makes your life easier

# Workflow with devtools

Why do we love devtools? Workflow!



# R / RStudio setup

## Workflow setup: your .Rprofile

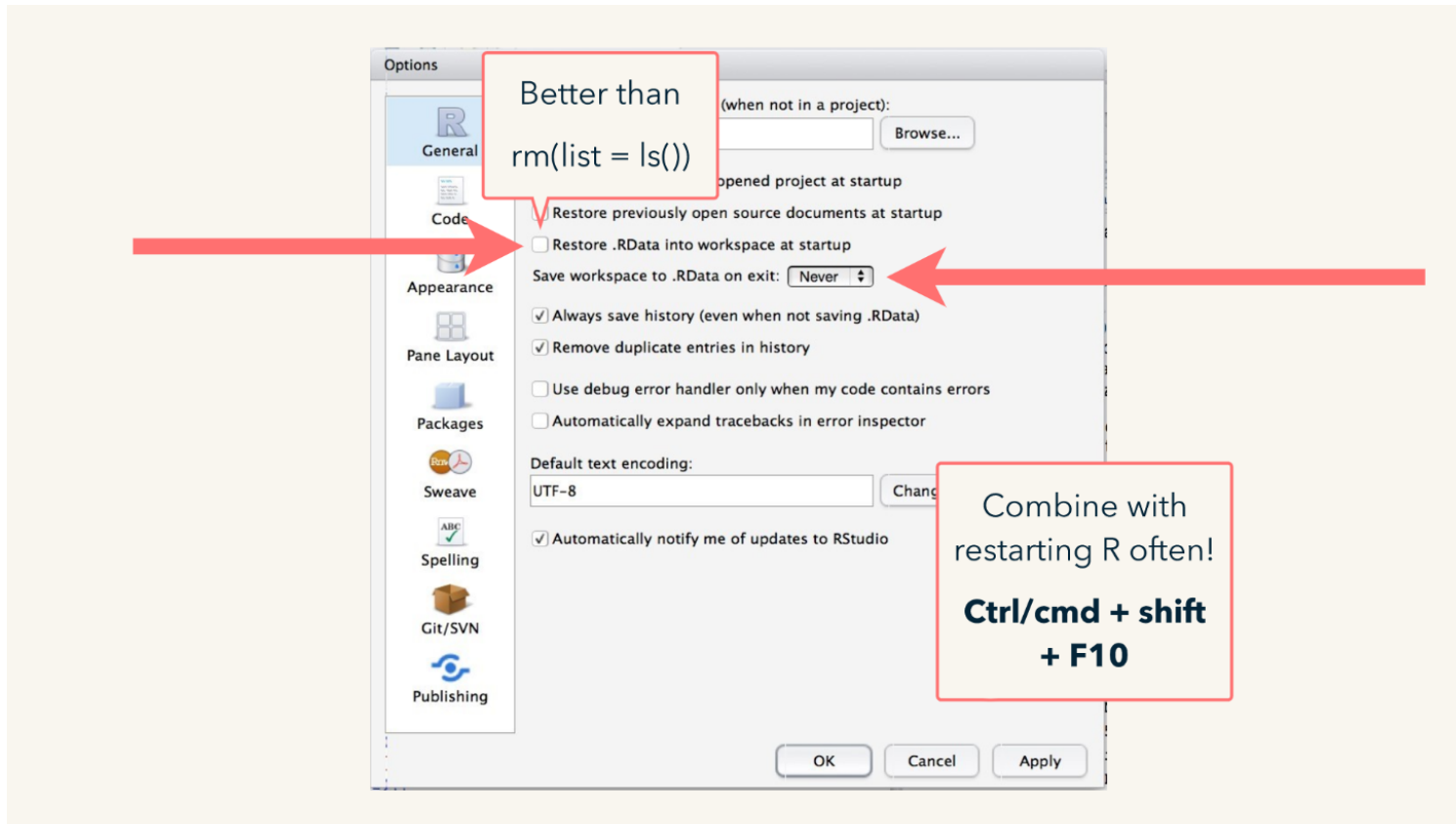
```
# Setup code that is run at R startup:  
# usethis::edit_r_profile()
```

```
# Helper to add devtools specifically:  
# usethis::use_devtools()
```

```
if (interactive()) {  
  suppressMessages(require(devtools))  
  suppressMessages(require(testthat))  
}
```

devtools makes  
usethis available too!

# R / RStudio setup

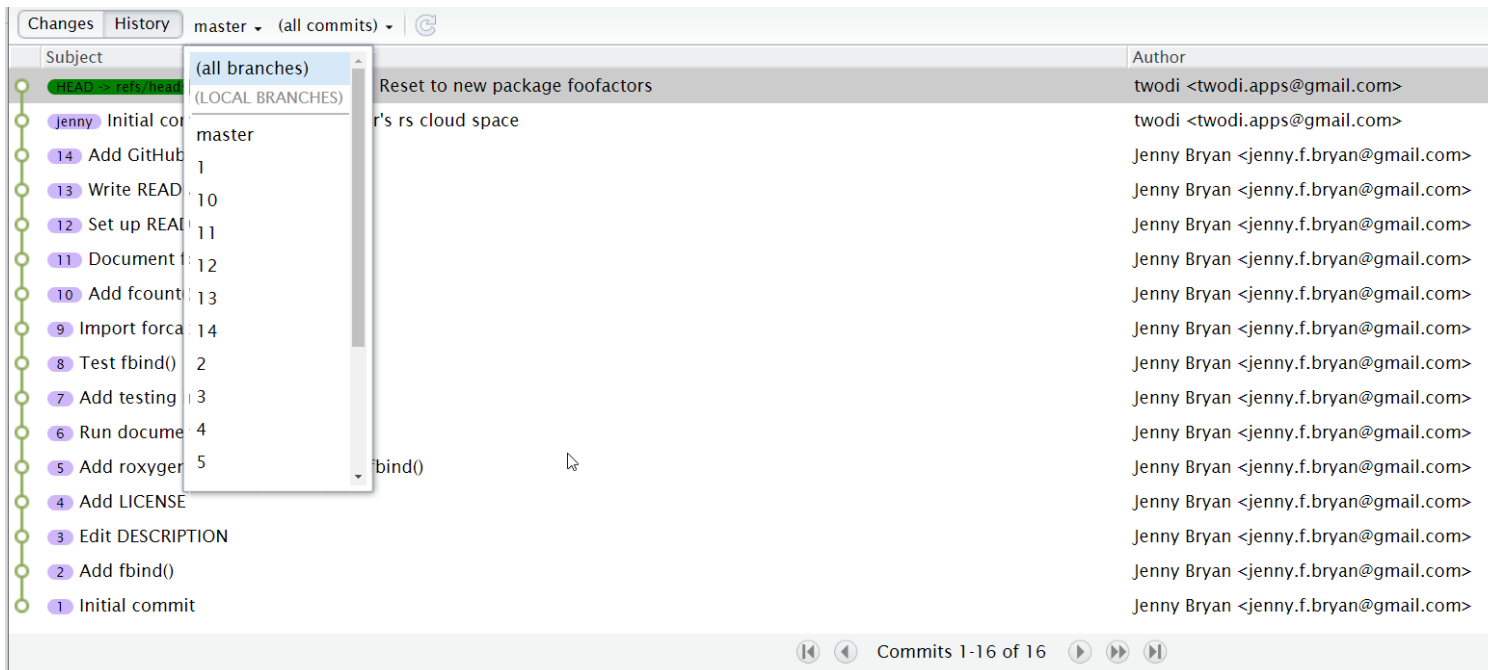




# Your turn

Reproduce the code in [R packages, Chapter 2: The whole game.](#)

Join the [ds-incubator workspace on rstudio.cloud](#) and use the foofactors project. The branch `master` points to an empty package. The branch `jenny` points to the finished product. All other branches show the evolution of the project.



# <http://bit.ly/ds-inc-rs-cloud-invite>

Demo

```
usethis::use_r()  
devtools::load_all()  
devtools::check()  
usethis::use_mit_license()  
devtools::document()  
devtools::install()
```