R Package Template

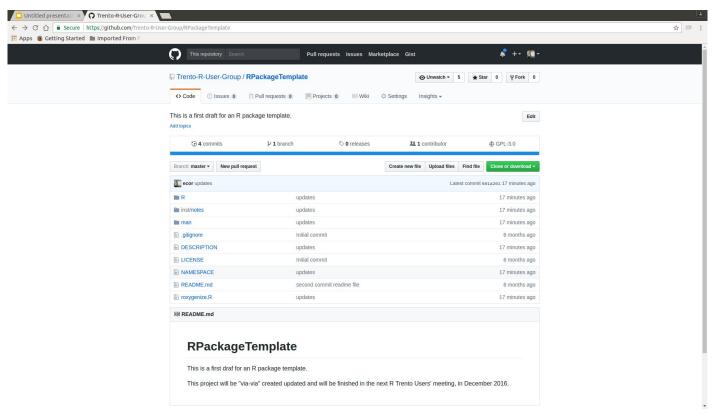## Emanuele Cordano

Trento,25-5-2017

Creating an R package

"The R packaging system has been one of the key factors of the overall success of the R project (R Development Core Team 2008). Packages allow for easy, transparent and cross-platform extension of the R base system. An R package can be thought of as the software equivalent of a scientific article: Articles are the de facto standard to communicate scientific results, and readers expect them to be in a certain format."

Creating R Packages: A Tutorial, *Friedrich Leisch, R Development Core Team, Friedrich.Leisch@R-project.org September 14, 2009,*
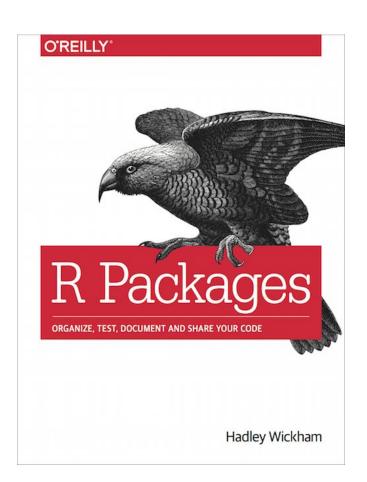https://cran.r-project.org/doc/contrib/Leisch-CreatingPackages.pdf

PACKAGE BASIC TEMPLATE

SUGGESTED READINGS

- Introduction
- Package structure
- **Package components**
- Code (R/)
- Package metadata (DESCRIPTION)
- Object documentation (man/)
- Vignettes (vignettes/)
- Testing (tests/)
- Namespaces (NAMESPACE)
- Data (data/)
- Compiled code (src/)
- Installed files (inst/)
- Other components

- **Best practices**
- Git and GitHub
- Checking
- Release

R EXTENSION MANUAL

https://cran.r-project.org/doc/manuals/r-release/R-exts.html

SOME PACKAGES TO VIEW

http://ecor.github.io/MeteoDataTrentino/

https://cran.r-project.org/web/packages/RGENERATE/index.html