

Building Packages Some things that I have found useful

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Resources



- An extensive resource is: https://cran.r-project.org/doc/manuals/r-release/ R-exts.html
 - Which tells you all you need to know about building R packages

 I learnt from the resources provided my Matt Nunes: http://www.maths.lancs.ac.uk/~nunes/computerstuff/ Rhelp/Rpackages.html

So why build R packages? Science



R packages allow you to

- Share code, your work/methods,
- Provide an easy way to reproduce your results,
- Provide a consist way to document code,
- Keep code developed to solve a specific problem all in one place.

Typical package layout



A typical R package layout is,

- my_package/
 - R/
 - data/
 - man/
 - inst/
 - DESCRIPTION
 - NAMESPACE

More details



- R/: Holds all of the R code for the package
- data/: Place for any data distributed with the package
- man/: Location for all of the help files
- inst/: Any other cade can be put here. Everything in inst/ get moved the package install directory after the package is installed.
- DESCRIPTION: (file) Details about package author, name, package itself, system requirements and version.
- NAMESPACE: (file) Details on functions required from other packages and tells which of the functions in your package to make available to the user.

Bibliography



Hastie, T., Tibshirani, R., and Friedman, J. (2009). *The Elements of Statistical Learning*. Springer Series in Statistics. Springer, second edition.



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