# References

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#### Resources

Here is a list of some of the best resources for R, LaTeX and R Markdown:

- 1. Using R for Introductory Econometrics: This is the main textbook for using R in this course.
- 2. R Tutorial: A powerful interactive tutorial for learning R
- 3. Quick-R: A nice introduction to R with simple examples
- 4. R-bloggers: News and blogs about R
- 5. Stack Overflow: A general discussion forum for programmers, including many R users
- 6. Bookdown: A comprehensive resource for learning R Markdown
- 7. LaTeX: Quick introduction to LaTeX (this is optional)

## **Packages**

The standard distribution of R already comes with a number of packages. Packages are extensions to R by advanced users. They help you to easily make use of a wealth of extensions generated by a big and active community. The packages that we will use in our course are (not limited to) the followings:

- wooldridge: Accessing the datasets in the textbook
- **lmtest**: Testing linear regression models
- car: Companion to Applied Regression
- stargazer: formatted tables of regression results
- corrgram: very useful package to draw the correlograms
- dplyr: dplyr is a powerful R-package to transform and summarize tabular data with rows and columns
- ggplot2: the most powerful R-package for visualization

In order to install a new package use the command *install.packages("name of the package here")*. You only need to install a package once! After that use eigher *library(package name)* to load the package.

### Useful short cuts

- Run codes line by line: Ctrl+Enter
- Comment out multiple lines: Select the lines you want to comment out and then press: Ctrl+Shift+C
- Auto-indent multiple lines of codes: Select the lines and press: Ctrl+shift+A
- Knit the Rmarkdown document: Ctrl+Shift+K
- Add r chunks in R Markdown: Alt+Ctrl+I

#### Cheatsheets

In Rstudio there are some built-in cheatsheets available. To access them go to *Help / Cheatsheets*. I highly encourage you to print out the following cheatsheets:

- 1. Rstudio IDE Cheat Sheet
- 2. R Markdown Cheat Sheet
- 3. R Markdown Reference Guide
- 4. Data Visualization with ggplot2
- 5. Data Transformation with dplyr