

Lecture 1

Introduction to Statistical Software in Epidemiology - R language

September 5, 2019

The Very Basics

- Basic computations in R
 - The R console
 - RStudio
- Install and load R packages
- R Markdown

R Console

- People do not use it very much.
- It can do everything.
- It does have a graphical interface
 - But are not very handy
- Let's take a look...

RStudio

- The chief scientist of RStudio won the COPSS award this year
 - The most prestigious statistics award
- It is the go-to GUI for R.
- More can be done through mouse-clicking
- Let's take a look...

RStudio

- Fast operations in the console directly
- Create and save a script for reproducibility
- Install packages
- Load packages
- Load data
- ...

Basic Computations

R Markdown

- For reproducible reporting
 - Your EPIB 607 assignments
- R Markdown cheat sheet
 - <https://www.rstudio.com/wp-content/uploads/2015/02/rmarkdown-cheatsheet.pdf>
- R Markdown chunk options
 - <https://yihui.name/knitr/options/>