Lecture 1
Introduction to Statistical Software in Epidemiology - R language

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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 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/