

# Preliminaries in R

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## RStudio vs. R

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# RStudio vs. R

In this class, I'm having you download both R and RStudio. It's helpful for you to know the difference between the two.

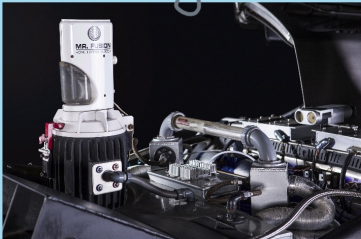
**R** provides the engine, while **RStudio** provides a nice place to work while using that engine (the leather interior, say).

# RStudio vs. R



RStudio  
Version: 1.2.1335

"Engine"



"User environment"



# RStudio vs. R



**Note:** When you open **R**, it does have a user interface, it's just not as nice as RStudio's.

RStudio (the software) is an integrated development environment (IDE) for R. You download it separately from R, but it's a “nicer” way to work in R.

This IDE includes:

- An interface with “panes” for key tasks you'll be doing (e.g., one pane with the R console, one for scripts, one to view graphs)
- Code highlighting
- Version control (git) and interface with GitHub
- Tools for Shiny web app development
- Tools for R package development

RStudio (the company) is a leader in the R community. Currently, the company:

- Develops and freely provides the RStudio IDE
- Provides excellent resources for learning and using R (e.g., cheatsheets, free online books)
- Is producing some of the most-used R packages
- Employs some of the top people in R development
- Is a key member of The R Consortium (others include Microsoft, IBM, and Google)

If do not already have them, you will need to download and install both R and RStudio.

- Go to <https://cran.r-project.org> and download the latest version of R for your system. Install.
- Go to the RStudio download page and download the latest version of RStudio Desktop for your system. Install.
- Defaults should be fine for everything.