

4 present

- Instructor will try to get datacamp access.
- There is a case, (on stack var reassignment?) where leaving the last statement for an implicit return won't work.
- class stopped over a trailing comma in a matrix expression like so:

x[x[,2] >= 3,]

This translates as:

reference those values of the first row of the matrix x where the values in the second column of x are greater than or equal to three.

The trick to parsing this was to note that the x[,2] >= 3 phrase applied to the rows of x meaning to the left of the trailing comma.

the apply(M, dim=1,2 or c(1,2), fun, args)
flattens M, applies the function and returns the result
usually as the transpose of the original M.
Writing t(apply(...)) usually makes more sense visually.

Some version divergence in old and new versions of R RStudio 1.2 won't run < MacOS 12 but RStudio 1.1 will. Installed old on the laptop and new on the desktop. R in Jupyter Notebooks is OK. So I will build an R project in Jupyter and try looking at its environment in RStudio, kinda like vi versus Netbeans. Installed R Jupyter and Rstudio on both machines. Works great so far. That's four installations - a bit of maintenance. Three styles of code execution: • Line Selected Region • Entire Document Exporting Images From Jupyter Exporting Images From RStudio Facilitating Group Collaboration Read Data From File: .csv Comma Separated Values • .txt File · .xls .xlsx, .xla Excel Files Write/Save Data To File: See Example Runs · Load Source to See Previous Sessions · RData is suffix to save session file R Types: Integer, Numeric, Logical, Character R Structure: Vector, Matrix, Array, List, Data frame · Vector, Matrix, Array are Homogeneous

• List, Data frame can be Heterogeneous

Cleaning Data with na.rm and na.omit

Including libraries like ggplot with each session

Questions:

How to check version?

How to install from CRAN, in Jupyter and Rstudio?

Does environment in Rstudio show proper package versions?

Unix-Like Commands:

Is() and rm(ob,i) work within the scope of Ritself
setwd(), getwd(), dir() and dir.create() affect 0s state
Icd,!pwd,!mkdir are Jupyter notebook equivalents

Multiple libraries accessible from Bioconductor
Including OMIM, PUBMED:

Extra Programming Hints on R Data Camp

Codify today's work as a web page for quick access.

Nick Trick: Cross Compare Two Datasets