

Coursera - R Programming

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R - Learning Objectives

Week 1

- Download and install the swirl package for R
- Describe the history of the S and R programming lectures
- Describe the differences between atomic data types
- Execute basic arithmetic operations
- Subset R objects using the “[”, “[[”, and “\$” operators and logical vectors
- Describe the explicit coercion feature of R
- Remove missing (NA) values from a vector
- Problema: todos los objetos deben residir en memoria (problemas con Big Data)
- character
- numeric (real numbers)
- integer
- complex
- logical (True/False)

: The most basic object is a vector

- Los vectores sólo pueden contener objetos de la misma clase: vector()

- PERO las listas pueden contener objetos de clases distintas

Week 2

- Write an if-else expression
- Write a for loop, a while loop, and a repeat loop
- Define a function in R and specify its return value [see Functions Part 1 and Part 2]

- Describe how R binds a value to a symbol via the search list
- Define what lexical scoping is with respect to how the value of free variables are resolved in R
- Describe the difference between lexical scoping and dynamic scoping rules
- Convert a character string representing a date/time into an R datetime object. [see Dates and Times]