

Conrsera: Data Science: Foundations using R Specialization

Course 2: R Programming

Objects classes: Character, numeric, integer, complex, logical

Vector `[]` , list `[[]]` , `0/0` → `NaN`

③ `c(0.5, 0.6)` numeric , `c(T, F)` logical ,

`c("a", "b", "c")` character , `9:29` integer ,

`c(1+0i, 2+4i)` complex

③ `is.na()` used to test objects if they are NA.

`is.nan()` is used to test for nan

⚡ `NaN` value is also `NA` but the converse is not true!

③ `gzfiles(" ")` open a connection to a file compressed with gzip

`bzfile(" ")` open a connection to a file compressed bzip2

③ Removing NAs

→ `is.na()` , → `complete.cases()` ,

Control Structures

if, else → testing condition

for → execute a loop a fixed number of times

while → execute a loop while a condition is true

repeat → execute an infinite loop

break → break the execution of a loop

* next → skip an iteration of a loop

* return → exit a function

③ Dates & Times in R

* as.Date(" ") , as.POSIXlt()

③ apply family

lapply , sapply → they return differently.

lapply ↓
loop over a list

sapply ↓
similar to lapply, but try to simplify the result

// apply : apply a function over the margins of an array

// tapply: apply a function over subsets of a vector

// mapply: multivariate version of lapply.

③ split() → splits obj. into groups determined by a factor or list of factors.

③ system.time() → user time vs. elapsed time
time charged to CPU
↳ "wall clock" time

* parallel pkg