|  |
| --- |
| R version 3.5.1 (2018-07-02) -- "Feather Spray" |
|  | Copyright (C) 2018 The R Foundation for Statistical Computing |
|  | Platform: x86\_64-w64-mingw32/x64 (64-bit) |
|  |  |
|  | R is free software and comes with ABSOLUTELY NO WARRANTY. |
|  | You are welcome to redistribute it under certain conditions. |
|  | Type 'license()' or 'licence()' for distribution details. |
|  |  |
|  | R is a collaborative project with many contributors. |
|  | Type 'contributors()' for more information and |
|  | 'citation()' on how to cite R or R packages in publications. |
|  |  |
|  | Type 'demo()' for some demos, 'help()' for on-line help, or |
|  | 'help.start()' for an HTML browser interface to help. |
|  | Type 'q()' to quit R. |
|  |  |
|  | > my\_num1<-2.33 |
|  | > my\_num1 |
|  | [1] 2.33 |
|  | > |
|  | > my\_num2<-2.0 |
|  | > my\_num2 |
|  | [1] 2 |
|  | > |
|  | > my\_num3<-2 |
|  | > my\_num3 |
|  | [1] 2 |
|  | > |
|  | > my\_int1<-2L |
|  | > my\_int1 |
|  | [1] 2 |
|  | > |
|  | > my\_int2 <- 2.0L |
|  | Warning message: |
|  | integer literal 2.0L contains unnecessary decimal point |
|  | > my\_int2 |
|  | [1] 2 |
|  | > |
|  | > my\_int3 <- 2.33L |
|  | Warning message: |
|  | integer literal 2.33L contains decimal; using numeric value |
|  | > my\_int3 |
|  | [1] 2.33 |
|  | > TRUE |
|  | [1] TRUE |
|  | > FALSE |
|  | [1] FALSE |
|  | > |
|  | > T |
|  | [1] TRUE |
|  | > F |
|  | [1] FALSE |
|  | > |
|  | > True |
|  | Error: object 'True' not found |
|  | > true |
|  | Error: object 'true' not found |
|  | > 8 > 7 # 判斷 8 是否?於 7 |
|  | [1] TRUE |
|  | > 8 < 7 # 判斷 8 是否?於 7 |
|  | [1] FALSE |
|  | > 8 >= 7 # 判斷 8 是否?於等於 7 |
|  | [1] TRUE |
|  | > 8 <= 7 # 判斷 8 是否?於等於 7 |
|  | [1] FALSE |
|  | > 8 == 7 # 判斷 8 是否等於 7 |
|  | [1] FALSE |
|  | > 8 != 7 # 判斷 8 是否不等於 7 |
|  | [1] TRUE |
|  | > 7 %in% c(8, 7) # 判斷 7 是否包含於?個 c(8, 7) 之中 |
|  | [1] TRUE |
|  | > first\_name <- "jeff" |
|  | > first\_name |
|  | [1] "jeff" |
|  | > my\_weight |
|  | Error: object 'my\_weight' not found |
|  | > my\_height <- 163 |
|  | > my\_weight <- 50 |
|  | > my\_weight |
|  | [1] 50 |
|  | > my\_height |
|  | [1] 163 |
|  | > class(2) |
|  | [1] "numeric" |
|  | > class(2L) |
|  | [1] "integer" |
|  | > class(TRUE) |
|  | [1] "logical" |
|  | > class("Learning R the easy way") |
|  | [1] "character" |
|  | > is.numeric(8.7) |
|  | [1] TRUE |
|  | > is.numeric("8.7") |
|  | [1] FALSE |
|  | > is.integer(7L) |
|  | [1] TRUE |
|  | > is.integer(7) |
|  | [1] FALSE |
|  | > is.logical(FALSE) |
|  | [1] TRUE |
|  | > is.logical("FALSE") |
|  | [1] FALSE |
|  | > is.character("TRUE") |
|  | [1] TRUE |
|  | > is.character(TRUE) |
|  | [1] FALSE |
|  | > inherits(Sys.Date(), what = "Date") # Sys.Date() 是?期類型 |
|  | [1] TRUE |
|  | > inherits("1970-01-01", what = "Date") # "1970-01-01" 是?字類型 |
|  | [1] FALSE |
|  | > |
|  | > inherits(Sys.time(), what = "POSIXct") # Sys.time() 是時間類型 |
|  | [1] TRUE |
|  | > inherits("1970-01-01 00:00:00", what = "POSIXct") # "1970-01-01 00:00:00" 是?字類型 |
|  | [1] FALSE |
|  | > |
|  | > as.numeric(7L) |
|  | [1] 7 |
|  | > as.numeric(TRUE) |
|  | [1] 1 |
|  | > as.numeric(FALSE) |
|  | [1] 0 |
|  | > as.numeric(Sys.Date()) |
|  | [1] 17802 |
|  | > as.numeric(Sys.time()) |
|  | [1] 1538121918 |
|  | > |
|  | > as.integer(7) |
|  | [1] 7 |
|  | > as.integer(TRUE) |
|  | [1] 1 |
|  | > as.integer(FALSE) |
|  | [1] 0 |
|  | > as.integer(Sys.Date()) |
|  | [1] 17802 |
|  | > as.integer(Sys.time()) |
|  | [1] 1538121918 |
|  | > |
|  | > as.logical(0) |
|  | [1] FALSE |
|  | > as.logical(0L) |
|  | [1] FALSE |
|  | > as.logical(1L) |
|  | [1] TRUE |
|  | > as.logical(-1.3) |
|  | [1] TRUE |
|  | > as.logical(87) |
|  | [1] TRUE |
|  | > as.logical("TRUE") |
|  | [1] TRUE |
|  | > as.logical("True") |
|  | [1] TRUE |
|  | > as.logical("true") |
|  | [1] TRUE |
|  | > as.logical("FALSE") |
|  | [1] FALSE |
|  | > as.logical("False") |
|  | [1] FALSE |
|  | > as.logical("false") |
|  | [1] FALSE |
|  | > |
|  | > as.character(8.7) |
|  | [1] "8.7" |
|  | > as.character(87L) |
|  | [1] "87" |
|  | > as.character(TRUE) |
|  | [1] "TRUE" |
|  | > as.character(Sys.Date()) |
|  | [1] "2018-09-28" |
|  | > as.character(Sys.time()) |
|  | [1] "2018-09-28 16:05:18" |
|  | > |
|  | > as.Date("1970-01-01") |
|  | [1] "1970-01-01" |
|  | > as.Date("1970/01/01") |
|  | [1] "1970-01-01" |
|  | > as.Date("01-01-1970") # 轉換錯誤 |
|  | [1] "0001-01-19" |
|  | > as.Date("01-01-1970", format = "%m-%d-%Y") # 轉換正確 |
|  | [1] "1970-01-01" |
|  | > as.Date("01/01/70") # 不是預設格式，轉換失敗 |
|  | Error in charToDate(x) : |
|  | character string is not in a standard unambiguous format |
|  | > as.Date("01/01/70", format = "%m/%d/%y") # 轉換正確 |
|  | [1] "1970-01-01" |
|  | > |
|  | > as.POSIXct("1970-01-01 00:00:00") |
|  | [1] "1970-01-01 CST" |
|  | > as.POSIXct("1970-01-01 00:00:00", tz = "GMT") |
|  | [1] "1970-01-01 GMT" |