R version 3.5.1 (2018-07-02) -- "Feather Spray"

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Platform: i386-w64-mingw32/i386 (32-bit)

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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 是否⼤於 7

[1] TRUE

> 8 < 7 # 判斷 8 是否⼩於 7

[1] FALSE

> 8 >= 7 # 判斷 8 是否⼤於等於 7

[1] TRUE

> 8 <= 7 # 判斷 8 是否⼩於等於 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 是否包含於⼀個 c(8, 7) 之中

[1] TRUE

> first\_name <- "Yuni"

> first\_name

[1] "Yuni"

> my\_weight

Error: object 'my\_weight' not found

> my\_height <- 158

> my\_weight <- 50

>

> class(2)

[1] "numeric"

> class(2L)

[1] "integer"

> class(TRUE)

[1] "logical"

> class("Learning R the easy way")

[1] "character"

> my\_weight

[1] 50

> my\_height <- 158

> my\_weight <- 50

> my\_height

[1] 158

> my\_weight

[1] 50

> 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

> 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] 1538121631

> 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] 1538121857

>

> 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 16:04:18"

>

> inherits(Sys.Date(), what = "Date") # Sys.Date() 是⽇期類型

[1] TRUE

> inherits("1970-01-01", what = "Date") # "1970-01-01" 是⽂字類型

[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" 是⽂字類型

[1] FALSE

> 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"

>