12_Base_Types

2023-02-27

12 Base types

12.1 Introduction

12.2 Base versus OO objects

```
# A base object:
is.object(1:10)
## [1] FALSE
sloop::otype(1:10)
## [1] "base"
# An OO object
is.object(mtcars)
## [1] TRUE
sloop::otype(mtcars)
## [1] "S3"
#> [1] "S3"
attr(1:10, "class")
## NULL
attr(mtcars, "class")
## [1] "data.frame"
x \leftarrow matrix(1:4, nrow = 2)
class(x)
## [1] "matrix" "array"
```

```
sloop::s3_class(x)
## [1] "matrix" "integer" "numeric"
12.3 Base types
typeof(1:10)
## [1] "integer"
typeof(mtcars)
## [1] "list"
typeof(NULL)
## [1] "NULL"
typeof(1L)
## [1] "integer"
typeof(1i)
## [1] "complex"
typeof(mean)
## [1] "closure"
typeof(`[`)
## [1] "special"
typeof(sum)
## [1] "builtin"
typeof(globalenv())
## [1] "environment"
```

```
mle_obj \leftarrow stats4::mle(function(x = 1) (x - 2) ^ 2)
typeof(mle_obj)
## [1] "S4"
typeof(quote(a))
## [1] "symbol"
typeof(quote(a + 1))
## [1] "language"
typeof(formals(mean))
## [1] "pairlist"
12.3.1 Numeric type
sloop::s3_class(1)
## [1] "double" "numeric"
sloop::s3_class(1L)
## [1] "integer" "numeric"
typeof(factor("x"))
## [1] "integer"
is.numeric(factor("x"))
## [1] FALSE
```