

Untitled

R Cheatsheet

Load libraries

```
if (!require(testthat)) install.packages('testthat')
library(testthat)
```

Self learning

```
library("swirl")
```

Vectors

```
rep(c(0, 1, 2), each = 10)
```

```
## [1] 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2
```

```
rep(c(0, 1, 2), times = 10)
```

```
## [1] 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2
```

Memory management

```
# Sample dataset of 1000 rows
```

```
some_df <- data.frame(rep(1:100, 10),
                      rep(101:200, 10),
                      rep(201:300, 10))
```

```
object.size(some_df) # Reports the memory size allocated to the object
```

```
## 13040 bytes
```

```
rm("some_df") # Removes only the object itself and not necessarily the memory allotted to it
gc() # Force R to release memory it is no longer using
```

```
##           used (Mb) gc trigger (Mb) max used (Mb)
## Ncells 475927 25.5   1028494   55   662594 35.4
## Vcells 890028  6.8    8388608   64  1802053 13.8
```

```
ls() # Lists all the objects in your current workspace
```

```
## character(0)
```

```
rm(list = ls()) # If you want to delete all the objects in the workspace and start with a clean slate
```

Apply functions

```
# https://purrr.tidyverse.org/reference/map.html
```

```
library(dplyr)
myList <- mtcars[1:20,] %>%
  split(.$cyl) %>%
  map(~ lm(mpg ~ wt, data = .x)) %>%
  map_dfr(~ as.data.frame(t(as.matrix(coef(.)))))
```

testthat

Prepare package

```
install.packages("testthat")
usethis::use_test("mypackage")
usethis::use_description(fields = list(), check_name = TRUE, roxygen = TRUE)
```

Run tests

```
library(testthat)
test_that("multiplication works", {
  expect_equal(2 * 2, 4)
})
```