Untitled

R Cheatsheet

Load libraries

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

Self learning

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

Vectors

Memory management

13040 bytes

```
\label{localization} {\tt rm("some\_df")} \ \textit{\# Removes only the object itself and not necessarily the memory allotted to it $\tt gc()$ \textit{\# Force R to release memory it is no longer using}$
```

```
## used (Mb) gc trigger (Mb) max used (Mb)
## Ncells 485954 26.0 1057142 56.5 662594 35.4
## Vcells 898005 6.9 8388608 64.0 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(\sim lm(mpg \sim wt, data = .x)) \%>\%
  map_dfr(~ as.data.frame(t(as.matrix(coef(.)))))
testthat
Prepare package
install.packages("testthat")
usethis::create_package("myPackageName")
usethis::use_test("myPackageName") # creates tests/testthat/test-mypackage.R
usethis::use_description(
  fields = list(Package = "myPackageName"),
  check_name = TRUE,
  roxygen = TRUE
)
usethis::use_package("zip", min_version = "1.0.0") # adds "Imports: zip (>= 1.0.0)" to DESCRiPTION file
Run tests
library(testthat)
test_that("multiplication works", {
  expect_equal(2 * 2, 4)
Run test coverage
library(covr)
devtools::load_all(".")
covr <- file_coverage("R/fahrenheit_to_celsius.R", "tests/testthat/test-myPackageName.R")</pre>
covr
report(covr)
```