Untitled

R Cheatsheet

Load libraries

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

Self learning

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

Vectors

Memory management

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 485991 26.0 1057248 56.5 662594 35.4
## Vcells 898615 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)
Automate project setup
library(usethis)
# Create a new package ------
path <- file.path(tempdir(), "mypkg")</pre>
create_package(path)
proj_activate(path)
# Modify the description ------
use_mit_license("My Name")
use_package("ggplot2", "Suggests")
# Set up other files ------
use_readme_md()
```

```
use_news_md()
use_test("my-test")
x <- 1
y <- 2
use_data(x, y)
# Use git ------
use_git()
# Call function multiple times ------
## Single parameter
lapply(format_vec, function(f)
 write_dataset(
   dataset = mtcars,
   path = output_folder,
   format = f,
   partitioning = "cyl"
 ))
write_dataset_preset <- function(f) {</pre>
 write dataset(
   dataset = mtcars,
   path = output_folder,
   format = f,
   partitioning = "cyl"
 )
}
lapply(format_vec, write_dataset_preset)
purrr::walk(format_vec, write_dataset_preset)
## Multiple parameter
write_dataset_preset_multiple <- function(data, formating) {</pre>
 write_dataset(
   dataset = data,
   path = output_folder,
   format = formating,
   partitioning = "cyl"
 )
}
lapply(X=format_vec, FUN=write_dataset_preset_multiple, data=mtcars)
purrr::walk(.x=format_vec, .f=write_dataset_preset_multiple, data=mtcars)
```