LittleThumb

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Contents

Repeated script execution using MakeObj

Basics

A very simple script named `LT_Test.R`.

```r
library(LittleThumb)

LittleThumb(path = "./LT_Tests")

MakeObj(x, {
  message("building object x...")
  x <- pi
})
```

First time execution.

```r
source("LT_Test.R")
```

```
## building object x...

## [creating] ./LT_Tests

## [saving] ./LT_Tests/x.rds
```

Second time execution without restarting the R environment.

```r
source("LT_Test.R")
```

```
## [passing] ./LT_Tests/x.rds
```

Second time execution after restarting the R environment.

```r
source("LT_Test.R")
```

```
## [loading] ./LT_Tests/x.rds
```

Forcing to reload R objects

By default, R object are loaded only if necessary.

```r
x <- 0
source("LT_Test.R")
```

```r
print(x)
```

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

Can be done by changing the `overload` global option.

```r
library(LittleThumb)

LittleThumb(path = "./LT_Tests")
LittleThumb(overload = T)

MakeObj(x, {
  message("building object x...")
  x <- pi
})
```

Can be done by specifying the `overload` argument when calling `MakeObj`.

```r
library(LittleThumb)

LittleThumb(path = "./LT_Tests")

MakeObj(x, overload = T, {
  message("building object x...")
  x <- pi
})
```

Second time execution when forcing to reload the R object.

```r
source("LT_Test.R")
```

```
## [overloading] ./LT_Tests/x.rds
```

```r
print(x)
```

```
## [1] 3.141593
```

Forcing to rebuild R objects

```r
MakeObj(x, { x <- 2 * pi })
```

```
## [passing] x.rds
```

```r
print(x)
```

```
## [1] 3.141593
```

Can be done by changing the `rebuild` global option.

```r
library(LittleThumb)

LittleThumb(path = "./LT_Tests")
LittleThumb(rebuild = T)
```

```
MakeObj(x, {
  message("building object x...")
  x <- 2 * pi
})
```

Can be done by specifying the `rebuild` argument when calling `MakeObj`.

```
library(LittleThumb)

LittleThumb(path = "./LT_Tests")

MakeObj(x, rebuild = T, {
  message("building object x...")
  x <- 2 * pi
})
```

Second time execution forcing to rebuild the R object.

```
source("LT_Test.R")

## building object x...

## [overwriting] ./LT_Tests/x.rds
print(x)

## [1] 6.283185
```

Multiple objects, paths and environments

```
library(LittleThumb)

LittleThumb(path = "./LT_Tests", overload = T)

MakeObj(x, { x <- 2 * pi })

MakeObj(data, rebuild = T, {

  data <- new.env(parent = globalenv())

  MakeObj(k, path = "text", env = data, {
    k <- LETTERS[1:5]
  })

  MakeObj(v, path = "values", env = data, {
    v <- 1:5
  })

})
```

```r
source("LT_Test.R")
```

```
## [loading] ./LT_Tests/x.rds
## [creating] ./LT_Tests/text
## [saving] ./LT_Tests/text/k.rds
## [creating] ./LT_Tests/values
## [saving] ./LT_Tests/values/v.rds
## [saving] ./LT_Tests/data.rds
```

```r
print(data$k)
```

```
## [1] "A" "B" "C" "D" "E"
```

```r
print(data$v)
```

```
## [1] 1 2 3 4 5
```