

LittleThumb

Benjamin Leblanc

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Contents

Repeated script execution using MakeObj

Basics

A very simple script named `LT_Test.R`.

```
library(LittleThumb)

LittleThumb(path = "./LT_Tests")

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

First time execution.

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

```
## building object x...
## [creating] ./LT_Tests
## [saving] ./LT_Tests/x.rds
```

Second time execution without restarting the R environment.

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

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

Second time execution after restarting the R environment.

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

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

Forcing to reload R objects

By default, R object are loaded only if necessary.

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

```
print(x)
```

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

Can be done by changing the overload global option.

```
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.

```
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.

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

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

```
print(x)
```

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

Forcing to rebuild R objects

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

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

```
## [1] "x.rds"
```

```
print(x)
```

```
## [1] 6.283185
```

Can be done by changing the rebuild global option.

```
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
  })
})

```

```
})
```

```
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
```

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

```
## NULL
```

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

```
## NULL
```