Package ‘timeR’

June 12, 2019

Type Package
Title Time Your Codes
Version 1.1.0
Author Yifu Yan
Maintainer Yifu Yan <yanyifu94@hotmail.com>
Description Provides a 'timeR' class that makes timing codes easier. One can create 'timeR' objects and use them to record all timings, and extract recordings as data frame for later use.

URL https://github.com/yusuzech/timeR
BugReports https://github.com/yusuzech/timeR/issues
Depends R (>= 3.1.0)
Imports R6, lubridate
License Apache License (== 2.0) | file LICENSE
LazyData true
Encoding UTF-8
RoxygenNote 6.1.1
Suggests knitr, rmarkdown
VignetteBuilder knitr
NeedsCompilation no
Repository CRAN
Date/Publication 2019-06-12 05:20:02 UTC

R topics documented:

createTimer ................................................................. 2
getTimeR ................................................................. 2
timeR ................................................................. 3

Index 5

1
createTimer  
*Create a timer object*

**Description**
Create a timer object

**Usage**
`createTimer(VERBOSE = T)`

**Arguments**
- **verbose**  
  A parameter to control whether to print messages while using methods. Default to TRUE.

**Value**
a timer object.

**Examples**
```r
# print is enabled
timer1 <- createTimer()  
# print is disabled
timer1 <- createTimer(FALSE)  
# start timing for event 1
timer1$start("event1")  
# stop timing for event 1 (comment optional)
timer1$stop("event1", comment = "event 1 stopped")  
# get all records in a data frame
getTimer(timer1)
```

getTimer  
*Get the data frame in timer object*

**Description**
timer object has a built-in data frame that contains all timings. run this function to extract the data frame.

**Usage**
`getTimer(object)`

**Arguments**
- **object**  
  The name for timer object.

**Value**
A data frame containing all records of a timer object.
Examples

```r
timer1 <- createTimer()
timer1$start("event1")
Sys.sleep(1)
timer1$stop("event1")
getTimer(timer1)
```

Description

The timeR package saves your time by timing your code and save recordings to a data frame automatically. So you don’t have to do all these steps manually by yourself.

timer is a R6 Class that represent a timer.

Usage

timeR

Format

An object of class R6ClassGenerator of length 24.

Fields

- `time`: A POSIXct/POSIXlt value of your latest timing.
- `event`: A string of your latest timing.
- `eventTable`: A data frame that stores all timings.
- `verbose`: A printing setting that controls whether to print messages.

Public Methods

- `initialize(time, event, verbose, eventTable)`: Initialize a timer object. You can also use `createTimer()` function to initialize a timer object.
- `start(eventName)`: Start timing for a event, `eventName` should be a string.
- `stop(eventName)`: Stop timing for a event.
- `getTimer()`: Get a data frame that stores all recordings. You can also use `getTimer()` function to get the data frame.
- `removeEvent(eventName)`: Remove an given row in the `eventTable`.
- `toggleVerbose()`: Toggle between `TRUE` and `FALSE` for `verbose`.
- `getStartTime()`: Get start time for a selected event.
- `getStopTime()`: Get stop time for a selected event.
- `getTimeElapsed()`: Get time elapsed for a selected event.
getComment() Get comment for a selected event.
getEventf() Get entire row for a selected event.
print() Custom print method for timer class. However, you don’t need to use this function to generate custom printing. Custom printing is triggered by default.

Private Methods

slprint(msg,flag = self(verbose) A function that controls whether to print extra message.

Examples

timer <- createTimer()
timer$start("event1")
# put some codes in between
timer$stop("event1")

timer$start("event2")
# put some codes in between
timer$stop("event2", comment = "event 2 completed")

table1 <- getTimer(timer)
timer$toggleVerbose() # set verbose to FALSE as default is TRUE

table1 # print all records in a tibble(data frame)

# get attributes for selected events
timer$startTime("event1")
timer$stopTime("event1")
timer$getTimeElapsed("event1")
timer$GETComment("event1")
timer$GETEvent("event1")
Index

*Topic datasets
  timer, 3

createTimer, 2

getTimer, 2

timer, 3
timeR-package (timeR), 3