

Assignment 1

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I moved all test code from “hand_functions.R” to “car_viz.R,” making sure to source the “hand_functions.R” file to retrieve the desired function.

Here is my attempt at using the debugger for a function I did not end up keeping.

```
24- quant_special <- function(df_x){
25-   try(if(!is.data.frame(df_x)) stop("Input data must be a data frame. "))
26-
27-   #calculate the quantiles
28-   quant <- apply(df_x, MARGIN = 2, FUN = quantile)
29-
30-   return(quant)
31- }
32-
33- quant_plot <- function(df_x, y){
34-   try(if(!is.data.frame(df_x)) stop("Input data must be a data frame. "))
35-   try(if(!exists(df_x$y)) stop("y is not a variable in the data frame. "))
36-
37-   print(df_x$y)
38-   q_plot <- ggplot(df_x) + geom_boxplot(aes(x = y)) + theme_bw()
39-
40-   return(q_plot)
41- }
42-
35:30 quant_plot(df_x, y)
```

```
> debugSource("/Volumes/Seagate USB HD - Data/Users/kaylachoi/Desktop/fall 2021/MA615/MA615-Assignment1/hand_functions.R")
> quant_plot(mtcars_mpg2, mpg)
Called from: eval(expr, p)
Browse[1]> n
debug at /Volumes/Seagate USB HD - Data/Users/kaylachoi/Desktop/fall 2021/MA615/MA615-Assignment1/hand_functions.R
#35: try(if (!exists(df_x$y)) stop("y is not a variable in the data frame. "))
Browse[2]>
Error in exists(df_x$y) : invalid first argument
debug at /Volumes/Seagate USB HD - Data/Users/kaylachoi/Desktop/fall 2021/MA615/MA615-Assignment1/hand_functions.R
#37: print(df_x$y)
Browse[2]> |
```

Environment: R, quant_plot() (329 MIB)

Data: df_x (18 obs. of 5 variables)

Traceback: quant_plot(mtcars_mpg2, mpg) at hand_functions.R:37

Files: exists

See Also: get and hasName. For quite a different kind of “existence” checking, namely if function arguments were specified, missing; and for yet a different kind, namely if a file exists, file.exists.

Examples: ## Define a substitute function if necessary: if(!exists("some.fun", mode = "function")) some.fun <- function(x) { cat("some.fun(x)\n"); x } search() exists("ls", 2) # true even though ls is in pos = 3 exists("ls", 2, inherits = FALSE) # false ## These are true (in most circumstances): identical(ls, get0("ls")) identical(NULL, get0("foo.bar.")) # default ifnotfound

[Package base version 4.1.1 [Index](#)]

Here is my git log.

Subject	Author	Date	SHA
HEAD -> refs/heads/main origin/main origin/HEAD initial commit of assignment 1	Jeeyoung Choi <jeeyoungchoi@Jessica>	2021-09-24	fc38e391
Initial commit	Kayla Jeeyoung Choi <89082671+kay>	2021-09-20	9c0da373

Commits 1-2 of 2


SHA fc38e39177525b61df61008f163ce6fcfd860677


Author Jeeyoung Choi <jeeyoungchoi@Jessicas-MacBook-Air.local>


Date 2021-09-24 15:03


Subject initial commit of assignment 1


Parent 9c0da373253a30d011bae60232551fda1cca5c19

 [MA615-Assignment1.Rproj](#)

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 [car_viz.R](#)

 [hand_functions.R](#)

 **MA615-Assignment1.Rproj**

```
@@ -0,0 +1,13 @@
1  Version: 1.0
2
3  RestoreWorkspace: Default
4  SaveWorkspace: Default
5  AlwaysSaveHistory: Default
6
7  EnableCodeIndexing: Yes
8  UseSpacesForTab: Yes
9  NumSpacesForTab: 2
10 Encoding: UTF-8
11
12 RnwWeave: Sweave
```