Package 'trimmer'

October 14, 2022

Title Trim an Object

Version 0.8.1

Description A lightweight toolkit to reduce the size of a list object. The				
object is minimized by recursively removing elements from the object				
one-by-one. The process is constrained by a reference function call				
specified by the user, where the target object is given as an argument.				
The procedure will not allow elements to be removed from the object, that				
will cause results from the function call to diverge from the function				
call with the original object.				
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Encoding UTF-8				
LazyData true				
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Author Lars Kjeldgaard [aut, cre]				
Maintainer Lars Kjeldgaard <lars_kjeldgaard@hotmail.com></lars_kjeldgaard@hotmail.com>				
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adjust_candidates

Adjust Data Table with Candidate Elements for Elimination

Description

Adjusts positions of all candidates for elimination in data.table after removing a candidate (due to the fact, that the positions may shift).

Usage

```
adjust_candidates(cand, cand_top_idx)
```

Arguments

cand data.table with candidates for elimination given by their position indices.

Value

data.table candidates after any adjustments to position indices of candidates.

convert_idx_to_name

Convert Numbered Index to Named Index of List Element

Description

Convert Numbered Index to Named Index of List Element

Usage

```
convert_idx_to_name(vec, obj)
```

Arguments

vec numeric numeric index of list element.

obj list

Value

character named index of list element.

Examples

```
d \leftarrow list(a = list(b = list(c = 3, d = 5), e = c(2,4)))

num\_idx \leftarrow c(1,1,2)

convert\_idx\_to\_name(num\_idx, d)
```

```
fix_undefined_global_vars
```

Fix til at undgå R CMD check notes for "no visible binding for global variable"

Description

Dette script gør det muligt at referere til kolonner i data frames ved hjælp af Non Standard Evaluation (NSE) i databehandlingspakker som data.table og dplyr, uden at dette medfører R CMD check notes angående "no visible binding for global variable". Navnene på de variable, der refereres til ved hjælp af NSE, skal blot angives i en vektor til funktionen globalVariables() nedenfor.

Usage

```
fix_undefined_global_vars()
```

Details

Dette er den anbefalede løsning fra CRAN.

```
get_results_for_object
```

Compute Results From Function Call with Object as Argument

Description

Compute Results From Function Call with Object as Argument

Usage

```
get_results_for_object(obj, obj_arg_name, fun, ...,
tolerate_warnings = TRUE)
```

Arguments

obi	list R object to be trimmed	. MUST	inherit from the	'list' class.

obj_arg_name character what is the name of the parameter, that 'obj' must be set to, when

invoking 'fun'. Defaults to NULL, in which case the function assumes, that the

'obj' matches the first parameter of 'fun'.

fun function function that must return the same results, when invoked with 'obj'

both before and after trimming.

... other (named) arguments for 'fun'.

tolerate_warnings

logical tolerate warnings (=TRUE) Or not (=FALSE) from function call results?

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Value

results from function call.

pf_obj_size

Convert Size in Bytes to Print Friendly String

Description

Convert Size in Bytes to Print Friendly String

Usage

```
pf_obj_size(x, digits = 2)
```

Arguments

x numeric object size in digits.

digits numeric number of digits you want.

Value

character priend friendly string.

Examples

```
pf_obj_size(10)
pf_obj_size(1010)
pf_obj_size(2e06)
```

trim

Trim an R Object

Description

Trims an R object whilst presuming the results of a given function call, where the R object is given as an argument. One popular example could be trimming an R model object whilst presuming the results of the predict function on a sample of data.

Usage

```
trim(obj, obj_arg_name = NULL, fun = predict, size_target = 0,
  tolerate_warnings = FALSE, verbose = TRUE, dont_touch = list(),
  ...)
```

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Arguments

obj list R object to be trimmed. _MUST_ inherit from the 'list' class.

obj_arg_name character what is the name of the parameter, that 'obj' must be set to, when

invoking 'fun'. Defaults to NULL, in which case the function assumes, that the

'obj' matches the first parameter of 'fun'.

fun function function that must return the same results, when invoked with 'obj'

both before and after trimming.

size_target numeric desired maximum size in _MegaBytes_ of object after trimming has

been conducted. When this size is achieved, the trimming stops. Defaults to 0, in which case trimming continues, until no further trimming can be done without

breaking results from 'fun'.

tolerate_warnings

logical tolerate warnings (=TRUE) Or not (=FALSE) from function call re-

sults?

verbose logical print messages?

dont_touch list list with name indices of elements, that must not be removed from object

by trimming procedure.

... other (named) arguments for 'fun'.

Examples

```
# get training data for predictive model.
trn <- datasets::mtcars

# estimate model.
mdl <- lm(mpg ~ ., data = trn)
trim(obj = mdl, obj_arg_name = "object", fun = predict, newdata = trn)
trim(obj = mdl, obj_arg_name = "object", fun = predict, newdata = trn,
dont_touch = list(c("model"), c("qr", "tol")))</pre>
```

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