Package 'thinkr'

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Title Tools for Cleaning Up Messy Files

Version 0.16

Description Some tools for cleaning up messy 'Excel' files to be suitable for R. People who have been working with 'Excel' for years built more or less complicated sheets with names, characters, formats that are not homogeneous. To be able to use them in R nowadays, we built a set of functions that will avoid the majority of importation problems and keep all the data at best.

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URL https://github.com/Thinkr-open/thinkr

BugReports https://github.com/Thinkr-open/thinkr/issues

Depends R (>= 3.1)

Imports assertthat, cli, devtools, dplyr, ggplot2, lazyeval, lubridate, magrittr, methods, officer, rvg, stats, stringi, stringr, tidyr, utils, withr

Suggests knitr, rmarkdown, testthat

VignetteBuilder knitr

Encoding UTF-8

RoxygenNote 7.2.0

NeedsCompilation no

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.efface_test

delete .test file in testthat folder

Description

Only usefull during package developpement using testthat package

Usage

.efface_test()

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all_ggplot_to_pptx

Save all ggplot in a pptx

Description

Save all ggplot in a pptx

Usage

```
all_ggplot_to_pptx(
  out = "tous_les_graphs.pptx",
  open = TRUE,
  png = TRUE,
  folder = "dessin",
  global = TRUE
)
```

Arguments

out output file name

open booleen open file after creation

png booleen also save as png

folder png's folder

global booleen use .GlobalEnv

Examples

```
## Not run:
all_ggplot_to_pptx()
## End(Not run)
```

as_mon_numeric

Transform a vector into numeric if meaningful, even with bad decimal, space or %

Description

Transform a vector into numeric if meaningful, even with bad decimal, space or %

```
as_mon_numeric(vec)
```

clean_levels

Arguments

vec a vector

Details

Note that text and factors are not transformed as numeric (except FALSE, TRUE, F, T), contrary to R default behavior with 'as.numeric(factor())'

Value

a numeric vector

Examples

```
as_mon_numeric(c("1", "0", "1"))
as_mon_numeric(c("1.3", "1,5", "1;6", "16%", "17 87 "))
as_mon_numeric(c(TRUE, "A", "F"))
as_mon_numeric(c(TRUE, TRUE, FALSE))
as_mon_numeric(factor(c("toto", "tata", "toto")))
```

clean_levels

Clean levels label

Description

Clean levels label

Usage

```
clean_levels(vec, verbose = FALSE, translit = FALSE, punct = FALSE)
```

Arguments

vec a factor

verbose booleen is the function verbose
translit booleen remove non ascii character
punct booleen do you remove punctuation

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clean_names

clean_names

Description

clean_names

Usage

```
clean_names(dataset, verbose = FALSE, translit = TRUE)
```

Arguments

dataset a dataframe verbose logical

translit logical remove non ascii character

Value

a dataframe

Examples

```
data(iris)
clean_names(iris)
```

clean_vec

Clean character vector

Description

Clean character vector

```
clean_vec(
  vec,
  verbose = FALSE,
  unique = TRUE,
  keep_number = FALSE,
  translit = TRUE,
  punct = TRUE
)
```

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Arguments

vec character vector to clean

verbose logical is the function verbose

unique logical do we have to apply make_unique

keep_number logical keep number at begining translit logical remove non ascii character punct logical do you remove punctuation

dput_levels

return R instruction to create levels

Description

return R instruction to create levels

Usage

```
dput_levels(vec)
```

Arguments

vec

a factor or character vector

Value

a R instruction

Examples

```
dput_levels(iris$Species)
```

excel_names

Get position or excel name of column

Description

ncol_to_excel returns excel column name from a position number. excel_to_ncol returns excel column position number from a column name. excel_col returns all excel column name.

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Usage

```
ncol_to_excel(n)
excel_to_ncol(col_name)
excel_col()
```

Arguments

n the column position col_name the culumn name

Examples

```
ncol_to_excel(35)
excel_to_ncol("BF")
excel_col()
ncol_to_excel(1:6)
excel_to_ncol(c('AF', 'AG', 'AH'))
```

find_name

find pattern in name's dataset

Description

find pattern in name's dataset

Usage

```
find_name(dataset, pattern)
```

Arguments

dataset a data.frame (or list or anything with names parameter)

pattern we are looking for

Value

a list with position and value

Examples

```
find_name(iris,"Sepal")
```

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from_excel_to_posixt transform the excel numeric date format into POSIXct

Description

transform the excel numeric date format into POSIXct

Usage

```
from_excel_to_posixt(vec, origin = "1904-01-01")
```

Arguments

vec a vector

origin a date-time object, or something which can be coerced by as.POSIXct(tz =

"GMT") to such an object.

gsub2

like gsub but keep a factor as factor

Description

like gsub but keep a factor as factor

Usage

```
gsub2(x, ...)
```

Arguments

x a vector

... les parametres de la fonction gsub

Value

a vector

is.01

is.01

does this vector only contains 0 and 1

Description

does this vector only contains 0 and 1

Usage

```
is.01(x)
```

Arguments

Χ

a vector

Value

a boolean

Examples

```
is.01(c(0,1,0,0,1))
is.01(c(0,1,0,0,5))
```

is.12

does this vector only contains 1 and 2

Description

does this vector only contains 1 and 2

Usage

```
is.12(x)
```

Arguments

Х

a vector

Value

a boolean

is_full_na

Examples

```
is.12(c(1,1,2,1,2))
is.12(c(1,1,2,1,5))
```

is_full_figures

Predicate for charater vector full of figures

Description

detects if a character vector is only made with figures. Useful when you

Usage

```
is_full_figures(.)
```

Arguments

a vector of character (and eventually NA's)

Value

a boolean

Examples

```
is_full_figures(c(NA,"0","25.3"))
is_full_figures((c(NA,"0","25_3")))
```

is_full_na

Predicate for full NA vector

Description

is_full_na test if the vector is full of NA's

Usage

```
is_full_na(.)
```

Arguments

. a vector

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Value

a vector of boolean

Examples

```
is_full_na(c(NA, NA, NA))
```

is_likert

is a factor a likert scale

Description

is a factor a likert scale

Usage

```
is_likert(vec, lev)
```

Arguments

vec a factor lev le scale

Value

boolean

Examples

```
is_likert(iris$Species,c("setosa","versicolor","virginica"))
is_likert(iris$Species,c("setosa","versicolor","virginica","banana"))
is_likert(iris$Species,c("setosa","versicolor"))
```

look_like_a_number

return TRUE if this look like a number

Description

return TRUE if this look like a number

```
look_like_a_number(vec)
```

12 peep

Arguments

vec a vector

Value

un booleen

make_unique

make.unique improvement

Description

make.unique improvement

Usage

```
make_unique(vec, sep = "_")
```

Arguments

vec a vector

sep char separator to use

Value

a vector

Examples

```
make_unique(c("a","a","a","b","a","b","c"))
```

peep

peep the pipeline

Description

peep some data at one step of a pipeline.

```
peep(data, ..., printer = print, verbose = FALSE)
```

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Arguments

data some data

... function names or expressions that use . as a placeholder for the data

printer which function use to print

verbose TRUE to include what is printed

Value

the input data

Examples

```
if( require(magrittr) ){
    # just symbols
    iris %>% peep(head,tail) %>% summary
    # expressions with .
    iris %>% peep(head(., n=2),tail(., n=3) ) %>% summary
    # or both
    iris %>% peep(head,tail(., n=3) ) %>% summary
    # use verbose to see what happens
    iris %>% peep(head,tail(., n=3), verbose = TRUE) %>% summary
}
```

replace_pattern

Replace pattern everywhere in a data.frame

Description

Replace pattern everywhere in a data.frame

Usage

```
replace_pattern(dataset, pattern, replacement, exact = FALSE)
```

Arguments

dataset a data.frame

pattern Pattern to look for.

replacement A character of replacements.

exact a boolean if TRUE the whole value need ton match

Value

a data.frame

save_as_csv

Examples

```
dataset <- data.frame(
  col_a = as.factor(letters)[1:7],
  col_b = letters[1:7],
  col_c = 1:7,
  col_d = paste0(letters[1:7], letters[1:7]),
  stringsAsFactors = FALSE
)

# replace pattern
replace_pattern(dataset, "a", "XXX-")

# With exact matching
replace_pattern(dataset, "a", "XXX-", exact = TRUE)</pre>
```

save_as_csv

export a data.frame to csv

Description

export a data.frame to csv

Usage

```
save_as_csv(dataset, path, row.names = FALSE, ...)
```

Arguments

dataset a data.frame path the path

row.names booleen do we have to save the row names

... other write.csv parameters

Value

file name as character

Examples

```
## Not run:
iris %>% save_as_csv(file.path(tempdir(),'coucou.csv')) %>% browseURL()
## End(Not run)
```

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set_col_type

set a given coltype to each column in a data.frame

Description

set a given coltype to each column in a data.frame

Usage

```
set_col_type(dataset, col_type)
```

Arguments

dataset

a data.frame

col_type

a character vector containing the class to apply

Value

a data.frame

%ni%

not in

Description

not in

Usage

x %ni% table

Arguments

X

vector or NULL: the values to be matched

table

the values to be matched against

Examples

```
"a" %ni% letters
```

[&]quot;coucou" %ni% letters

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