# Package 'edm1'

January 29, 2024

·
Title edm
Version 1.0
<b>Author</b> person('Julien', 'Larget-Piet', role = c('aut', 'cre'))
<b>Description</b> What the package does (one paragraph).
License GPL-2
description Set of tools to manage mostly dataframe and character.
Encoding UTF-8
<b>Roxygen</b> list(markdown = TRUE)
RoxygenNote 7.2.3
Imports openxlsx, stringr, stringi,
NeedsCompilation no
Maintainer Julien Larget-Piet < julien.larget-piet@edu.univ-eiffel.fr>

## R topics documented:

ll_stat	. 2
ppend_row	. 3
an_be_num	. 3
hange_date	. 4
losest_date	. 4
ost_and_taxes	
lata_gen	. (
lata_meshup	. 7
late_sort	. 8
lays_from_month	. 8
lf_tuned	. 9
liff_xlsx	. 9
xtrm_dates	. 10
ile_rec	. 13
ile_rec2	. 13
illr	. 12
ormat_date	. 12
geo_min	. 13
get_rec	. 13
globe	. 14
rroupr df	. 14

2 all\_stat

```
25
29
```

#### **Description**

all\_stat

Index

Allow to see all the main statistics indicators (mean, median, variance, standard deviation, sum, max, min, quantile) of variables in a dataframe by the modality of a variable in a column of the input datarame. In addition to that, you can get the occurence of other qualitative variables by your chosen qualitative variable, you have just to precise it in the vector "stat\_var" where all the statistics indicators are given with "occu-var\_you\_want/".

#### Usage

```
all_stat(inpt_v, var_add = c(), stat_var = c(), inpt_df)
```

#### **Arguments**

inpt_v	is the modalities of the variables
var_add	is the variables you want to get the stats from
stat_var	is the stats indicators you want
inpt_df	is the input dataframe

all\_stat

append\_row 3

#### **Examples**

append\_row

append\_row

#### Description

Append the last row from dataframe to the another or same dataframe

#### Usage

```
append_row(df_in, df, hmn = 1, na_col = c(), unique_do_not_know = NA)
```

#### **Arguments**

df\_in is the dataframe from which the row will append to another or the same dataframe df is the dataframe to which the row will append hmn is how many time the last row will be appended na\_col is a vector containing the columns that won't append and will be replaced by another value (unique\_do\_not\_know) unique\_do\_not\_know

is the value of the non appending column in the appending row

can\_be\_num can\_be\_num

#### **Description**

Return TRUE if a variable can be converted to a number and FALSE if not (supports float)

#### Usage

```
can_be_num(x)
```

#### **Arguments**

Х

is the input value

4 closest\_date

change\_date

change\_date

### Description

Allow to add to a date second-minute-hour-day-month-year

#### Usage

```
change_date(
  date_,
  sep_,
  day_ = NA,
  month_ = NA,
  year_ = NA,
  hour_ = NA,
  min_ = NA,
  second_ = NA,
  frmt = "snhdmy"
)
```

### Arguments

```
is the input date
date_
sep_
                  is the date separator
day_
                  is the day to add (can be negative)
                  is the month to add (can be negative)
month_
year_
                  is the year to add (can be negative)
hour_
                  is the hour to add (can be negative)
                  is the minute to add (can be negative)
min_
                  is the second to add (can be negative)
second_
                  is the format of the input date, (deault set to "snhdmy" (second, minute, hour,
frmt
                  day, month, year), so all variable are taken in count), if you only want to work
```

with standard date for example change this variable to "dmy"

#### **Description**

return the closest dates from a vector compared to the input date

cost\_and\_taxes 5

#### Usage

```
closest_date(
    vec,
    date_,
    frmt,
    sep_ = "/",
    sep_vec = "/",
    only_ = "both",
    head = NA
)
```

### **Arguments**

vec	is a vector containing the dates to be compared to the input date
date_	is the input date
frmt	is the format of the input date, (deault set to "snhdmy" (second, minute, hour, day, month, year), so all variable are taken in count), if you only want to work with standard date for example change this variable to "dmy"
sep_	is the separator for the input date
sep_vec	is the separator for the dates contained in vec
only_	is can be changed to "+" or "-" to repectively only return the higher dates and the lower dates (default set to "both")
head	is the number of dates that will be returned (default set to NA so all dates in vec will be returned)

```
cost_and_taxes
```

### Description

Allow to calculate basic variables related to cost and taxes from a bunch of products (elements) So put every variable you know in the following order:

### Usage

```
cost_and_taxes(
   qte = NA,
   pu = NA,
   prix_ht = NA,
   tva = NA,
   prix_ttc = NA,
   prix_tva = NA,
   pu_ttc = NA,
   adjust = NA,
   prix_d_ht = NA,
   prix_d_ttc = NA,
   pu_d = NA,
   pu_d = NA,
   pu_d_ttc = NA
```

6 data\_gen

#### **Arguments**

qte	is the quantity of elements
pu	is the price of a single elements without taxes
prix_ht	is the duty-free price of the whole set of elements
tva	is the percentage of all taxes
prix_ttc	is the price of all the elements with taxes
prix_tva	is the cost of all the taxes
pu_ttc	is the price of a single element taxes included
adjust	is the discount percentage
prix_d_ht	is the free-duty price of an element after discount
prix_d_ttc	is the price with taxes of an element after discount
pu_d	is the price of a single element after discount and without taxes
pu_d_ttc	is the free-duty price of a single element after discount the function return a vector with the previous variables in the same order those that could not be calculated will be represented with NA value

data\_gen data\_gen

### Description

Allo to generate in a csv all kind of data you can imagine according to what you provide

### Usage

type_	is a vector for wich argument is a column, a column can be made of numbers ("number"), string ("string") or both ("mixed")
strt_l	is a vector containing for each column the row from which the data will begin to be generated
nb_r	is a vector containing for each column, the number of row full from generated data

data\_meshup 7

output	is the name of the output csv file
properties	is linked to type_distri because it is the parameters ("min_val-max_val") for "random type", ("u-x") for the poisson distribution, ("u-d") for gaussian distribution
type_distri	is a vector which, for each column, associate a type of distribution ("random", "poisson", "gaussian"), it meas that non only the number but also the length of the string will be randomly generated according to these distribution laws
str_source	is the source (vector) from which the character creating random string are (default set to the occidental alphabet)
round_l	is a vector which, for each column containing number, associate a round value
sep_	is the separator used to write data in the csv

#### Value

new generated data in addition to saving it in the output

data\_meshup data\_meshup

### Description

Allow to automatically arrange 1 dimensional data according to vector and parameters

### Usage

```
data_meshup(
  data,
  cols = NA,
  file_ = NA,
  sep_ = ";",
  organisation = c(2, 1, 0),
  unic_sep1 = "_",
  unic_sep2 = "-"
)
```

data	is the data provided (vector) each column is separated by a unic separator and each dataset from the same column is separated by another unic separator (ex: $c("", c("d", "-", "e", "-", "f"), """, c("a", "a1", "-", "b", "-", "c", "c1")"_")$
cols	is the colnames of the data generated in a csv
file_	is the file to which the data will be outputed
sep_	is the separator of the csv outputed
organisation	is the way variables include themselves, for instance ,resuming precedent example, if organisation= $c(1,0)$ so the data output will be: d, a d, a1 e, c f, c f, c1
unic_sep1	is the unic separator between variables (default is "_")
unic_sep2	is the unic separator between datasets (default is "-")

8 days\_from\_month

|--|--|--|

### Description

Allow to ascendely or desendely sort dates in a vector.

### Usage

```
date_sort(vec, asc = F, sep = "-")
```

### **Arguments**

vec	is the vector containing the dates.
asc	is a boolean variable, that if set to TRUE will sort the dates ascendely and descendely if set to FALSE
sep	is the separator of the date strings ex: "11-12-1998" the separator is "-"

```
days_from_month days_from_month
```

### Description

Allow to find the number of days month from a month date, take in count leap year

### Usage

```
days_from_month(date_, sep_)
```

### **Arguments**

date	is	the	input	date

sep\_ is the separator of the input date

df\_tuned 9

df\_tuned df\_tuned

#### **Description**

Allow to return a list from a dataframe following these rules: First situation, I want the vectors from the returned list be composed of values that are separated by special values contained in a vector ex: data.frame(c(1, 1, 2, 1), c(1, 1, 2, 1), c(1, 1, 1, 2)) will return list(c(1, 1), c(1, 1, 1), c(1, 1, 1, 1)) or list(c(1, 1, 2), c(1, 1, 1, 2), c(1, 1, 1, 2, 1)) if i have chosen to take in count the 2. As you noticed here the value to stop is 2 but it can be several contained in a vector Second situation: I want to return a list for every jump of 3. If i take this dataframe data.frame(c(1, 1, 2, 1, 4, 4), c(1, 1, 2, 1, 3, 3), c(1, 1, 1, 2, 3, 3)) it will return list(c(1, 1, 2), c(1, 4, 4), c(1, 1, 2), c(1, 3, 3), c(1, 1, 1), c(2, 3, 3))

#### Usage

```
df_tuned(df, val_to_stop, index_rc = NA, included = "yes")
```

#### **Arguments**

is the input data.frame

val\_to\_stop

is the vector containing the values to stop

index\_rc

is the value for the jump (default set to NA so default will be first case)

included

is if the values to stop has to be also returned in the vectors (defaultn set to "yes")

diff\_xlsx \quad \text{diff\_xlsx}

#### **Description**

Allow to see the difference between two datasets and output it into an xlsx file. If the dimensions of the new datasets are bigger than the old one, only the matching cells will be compared, if the dimensions of the new one are lower than the old one, there will be an error.

#### Usage

```
diff_xlsx(
   file_,
   sht,
   v_old_begin,
   v_old_end,
   v_new_begin,
   v_new_end,
   df2 = NA,
   overwrite = T,
   color_ = "red",
   pattern = "",
   output = "out.xlsx",
   new_val = T,
   pattern_only = T
)
```

10 extrm\_dates

## Arguments

file_	is the file where the data is
sht	is the sheet where the data is
v_old_begin	is a vector containing the coordinates (row, column) where the data to be compared starts $% \left( 1\right) =\left( 1\right) \left( 1\right$
v_old_end	is the same but for its end
v_new_begin	is the coordinates where the comparator data starts
v_new_end	is the same but for its end If the dimensions of the new datasets are bigger than the old one, only the matching cells will be compared, if the dimensions of the new one are lower than the old one, there will be an error.
df2	is optional, if the comparator dataset is directly a dataframe
overwrite	allow to overwrite differences is (set to T by default)
color_	is the color the differences will be outputed
pattern	is the pattern that will be added to the differences if overwritten is set to TRUE
output	is the name of the outputed xlsx (can be set to NA if no output)
new_val	if overwrite is TRUE, then the differences will be overwritten by the comparator data
	uata

### Description

Allow to find the minimum or the maximum of a date in a vector. The format of dates is Year/Month/Day.

### Usage

```
extrm_dates(inpt_l, extrm = "min", sep = "-")
```

inpt_l	is the input vector
extrm	is either "min" or "max", defaults to "min"
sep	is the separator of the dates, defaults to "-"

file\_rec 11

#### **Description**

Allow to get all the files recursively from a path according to an end and start depth value. If you want to have an other version of this function that uses a more sophisticated algorythm (which can be faster), check file\_rec2. Depth example: if i have dir/dir2/dir3, dir/dir2b/dir3b, i have a depth equal to 3

#### Usage

```
file_rec(xmax, xmin = 1, pathc = ".")
```

#### **Arguments**

xmax	is the end depth value
xmin	is the start depth value
pathc	is the reference path

```
file_rec2 file_rec2
```

#### **Description**

Allow to find the directories and the subdirectories with a specified end and start depth value from a path. This function might be more powerfull than file\_rec because it uses a custom algorythm that does not nee to perform a full recursive search before tuning it to only find the directories with a good value of depth. Depth example: if i have dir/dir2/dir3, dir/dir2b/dir3b, i have a depth equal to 3

1

### Usage

```
file_rec2(xmax, xmin = 1, pathc = ".")
```

xmax	is the depth value
xmin	is the minimum value of depth
pathc	is the reference path, from which depth value is equal to

format\_date

fillr	fillı

### Description

Allow to fill a vector by the last element n times

### Usage

```
fillr(inpt_v, ptrn_fill = "...\\d")
```

### **Arguments**

inpt\_v is the input vector

ptrn\_fill is the pattern used to detect where the function has to fill the vector by the last

element n times. It defaults to "...\d" where "\d" is the regex for an int value. So

this paramater has to have " $\d$ " which designates n.

### **Examples**

```
fillr(c("a", "b", "...3", "c"))
```

### Description

Allow to convert xx-month-xxxx date type to xx-xx-xxxx

#### Usage

```
format_date(f_dialect, sentc, sep_in = "-", sep_out = "-")
```

#### **Arguments**

f\_dialect are the months from the language of which the month come
sentc is the date to convert
sep\_in is the separator of the dat input (default is "-")

sep\_out is the separator of the converted date (default is "-")

geo\_min 13

geo\_min geo\_min

#### **Description**

Return a dataframe containing the nearest geographical points (row) according to established geographical points (column).

#### Usage

```
geo_min(inpt_df, established_df)
```

#### **Arguments**

inpt\_df

is the input dataframe of the set of geographical points to be classified, its firts column is for latitude, the second for the longitude and the third, if exists, is for the altitude. Each point is one row.

established\_df

is the dataframe containing the coordinates of the established geographical points

#### **Examples**

```
in_ <- data.frame(c(11, 33, 55), c(113, -143, 167))
in2_ <- data.frame(c(12, 55), c(115, 165))
print(geo_min(inpt_df=in_, established_df=in2_))
in_ <- data.frame(c(51, 23, 55), c(113, -143, 167), c(6, 5, 1))
in2_ <- data.frame(c(12, 55), c(115, 165), c(2, 5))
geo_min(inpt_df=in_, established_df=in2_)</pre>
```

get\_rec

get\_rec

### Description

Allow to get the value of directorie depth from a path.

### Usage

```
get_rec(pathc = ".")
```

### Arguments

pathc

is the reference path example: if i have dir/dir2/dir3, dir/dir2b/dir3b, i have a depth equal to 3

14 groupr\_df

|--|--|--|

#### **Description**

Allow to calculate the distances between a set of geographical points and another established geographical point. If the altitude is not filled, so the result returned won't take in count the altitude.

#### Usage

```
globe(lat_f, long_f, alt_f = NA, lat_n, long_n, alt_n = NA)
```

### **Arguments**

lat_f	is the latitude of the established geographical point
long_f	is the longitude of the established geographical point
alt_f	is the altitude of the established geographical point, defaults to NA
lat_n	is a vector containing the latitude of the set of points
long_n	is a vector containing the longitude of the set of points
alt_n	is a vector containing the altitude of the set of points, defaults to NA

#### **Examples**

```
globe(lat_f=23, long_f=112, alt_f=NA, lat_n=c(2, 82), long_n=c(165, -55), alt_n=NA)

groupr_df

groupr_df
```

### Description

Allow to create groups from a dataframe. Indeed, you can create conditions that lead to a flag value for each cell of the input dataframeaccording to the cell value. This function is based on see\_df and nestr\_df2 functions.

### Usage

```
groupr_df(inpt_df, condition_lst, val_lst, conjunction_lst, rtn_val_pos = c())
```

insert\_df 15

#### **Examples**

```
interactive()
df1 <- data.frame(c(1, 2, 1), c(45, 22, 88), c(44, 88, 33))
val_lst <- list(list(c(1), c(1)), list(c(2)), list(c(44)))
condition_lst <- list(c(">", "<"), c("%%"), c("=="))
conjunction_lst <- list(c("|"), c(), c())
rtn_val_pos <- c("+", "+", "+")
groupr_df(inpt_df=df1, val_lst=val_lst, condition_lst=condition_lst, conjunction_lst=conjunction_lst, rtn_val_pos=rtn_val_pos)</pre>
```

insert\_df

insert\_df

#### **Description**

Allow to insert dataframe into another dataframe according to coordinates (row, column) from the dataframe that will be inserted

#### Usage

```
insert_df(df_in, df_ins, ins_loc)
```

#### **Arguments**

df\_in is the dataframe that will be inserted

df\_ins is the dataset to be inserted

ins\_loc is a vector containg two parameters (row, column) of the begining for the insertion

letter\_to\_nb

letter\_to\_nb

#### **Description**

Allow to get the number of a spreadsheet based column by the letter ex: AAA = 703

### Usage

```
letter_to_nb(letter)
```

#### **Arguments**

letter is the letter (name of the column)

16 match\_n

### Description

A list.files() based function addressing the need of listing the files with extension a or or extension b ...

### Usage

```
list_files(patternc, pathc = ".")
```

### Arguments

patternc	is a vector containing all the exensions you want
pathc	is the path, can be a vector of multiple path because list.files() supports it.

|--|--|

### Description

Allow to get the indexes for the nth occurrence of a value in a vector. Example: c(1, 2, 3, 1, 2), the first occurrence of 1 and 2 is at index 1 and 2 respectively, but the second occurrence is respectively at the 4th and 5th index.

### Usage

```
match_n(vec, mc, n = 1, wnb = "#####")
```

vec	is th input vector
mc	is a vector containing the values you want to get the index for the nth occurence in vec
n	is the value of the occurence
wnb	is a string you are sure is not in mc

match\_n2

### Description

Allow to get the indexes for the nth occurrence of a value in a vector. Example: c(1, 2, 3, 1, 2), the first occurrence of 1 and 2 is at index 1 and 2 respectively, but the second occurrence is respectively at the 4th and 5th index.

### Usage

```
match_n2 (vec, mc, n, wnb = "#####")
```

### **Arguments**

vec	is th einput vector
mc	is a vector containing the values you want to get the index for the nth occurence in vec
n	is a vector containing the occurrences for each value in mc so if i have mc <- $c(3, 27)$ and n <- $c(1, 2)$ , i want the first occurrence for 3 and the second for 27 in vec. If the length of n is inferior of the length of mc, m will extend with its last value as new arguments. It means that if mc <- $c(3, 27)$ but n <- $c(1)$ so n will extend to $c(1, 1)$ , so we will get the first occurrence of 3 and 27 in vec.
wnb	is a string you are sure is not in mc

ltitud <i>multitud</i>

### Description

```
From a list containing vectors allow to generate a vector following this rule: list(c("a", "b"), c("1", "2"), c("A", "Z", "E")) \rightarrow c("a1A", "a2A", "b1A", "b2A", "a1Z", ...)
```

### Usage

```
multitud(l, sep_ = "")
```

```
is the list

sep_ is the separator between elements (default is set to "" as you see in the example)
```

nestr\_df1

#### **Description**

Allow to get the letter of a spreadsheet based column by the number ex: 703 = AAA

### Usage

```
nb_to_letter(x)
```

#### **Arguments**

Х

is the number of the column

```
nestr_df1 nestr_df1
```

#### **Description**

Allow to write a value (1a) to a dataframe (1b) to its cells that have the same coordinates (row and column) than the cells whose value is equal to a another special value (2a), from another another dataframe (2b). The value (1a) depends of the cell value coordinates of the third dataframe (3b). If a cell coordinates (1c) of the first dataframe (1b) do not correspond to the coordinates of a good returning cell value (2a) from the dataframe (2b), so this cell (1c) can have its value changed to the same cell coordinates value (3a) of a third dataframe (4b), if (4b) is not det to NA.

#### Usage

```
nestr_df1(inptf_df, inptt_pos_df, nestr_df, yes_val = T, inptt_neg_df = NA)
```

### **Arguments**

```
inptf_df is the input dataframe (1b)
inptt_pos_df is the dataframe (2b) that corresponds to the (1a) values
nestr_df is the dataframe (2b) that has the special value (2a)
yes_val is the special value (2a)
inpt_neg_df is the dataframe (4b) that has the (3a) values, defaults to NA
```

#### **Examples**

nestr\_df2

nestr_df2

### Description

Allow to write a special value (1a) in the cells of a dataframe (1b) that correspond (row and column) to whose of another dataframe (2b) that return another special value (2a). The cells whose coordinates do not match the coordinates of the dataframe (2b), another special value can be written (3a) if not set to NA.

#### Usage

```
nestr_df2(inptf_df, rtn_pos, rtn_neg = NA, nestr_df, yes_val = T)
```

#### **Arguments**

```
inptf_df is the input dataframe (1b)
rtn_pos is the special value (1a)
rtn_neg is the special value (3a)
nestr_df is the dataframe (2b)
yes_val is the special value (2a)
```

### **Examples**

```
occu occu
```

### **Description**

Allow to see the occurence of each variable in a vector. Returns a datafame with, as the first column, the all the unique variable of the vector and , in he second column, their occurence respectively.

### Usage

```
occu(inpt_v)
```

```
inpt_v the input dataframe
```

20 pattern\_gettr

```
pattern_generator pattern_generator
```

#### **Description**

Allow to create patterns which have a part that is varying randomly each time.

#### Usage

```
pattern_generator(base_, from_, nb, hmn = 1, after = 1, sep = "")
```

#### **Arguments**

base_	is the pattern that will be kept
from_	is the vector from which the elements of the random part will be generated
nb	is the number of random pattern chosen for the varying part
hmn	is how many of varying pattern from the same base will be created
after	is set to 1 by default, it means that the varying part will be after the fixed part, set to $0$ if you want the varying part to be before
sep	is the separator between all patterns in the returned value

#### **Description**

Search for pattern(s) contained in a vector in another vector and return a list containing matched one (first index) and their position (second index) according to these rules: First case: Search for patterns strictly, it means that the searched pattern(s) will be matched only if the patterns containded in the vector that is beeing explored by the function are present like this c("pattern\_searched", "other", ..., "pattern\_searched") and not as c("other\_thing pattern\_searched other\_thing", "other", ..., "pattern\_searched other\_thing") Second case: It is the opposite to the first case, it means that if the pattern is partially present like in the first position and the last, it will be considered like a matched pattern

#### Usage

```
pattern_gettr(
  word_,
  vct,
  occ = c(1),
  strict,
  btwn,
  all_in_word = "yes",
  notatall = "###"
)
```

pattern\_tuning 21

### Arguments

word_	is the vector containing the patterns
vct	is the vector being searched for patterns
occ	a vector containing the occurence of the pattern in word_ to be matched in the vector being searched, if the occurence is 2 for the nth pattern in word_ and only one occurence is found in vct so no pattern will be matched, put "forever" to no longer depend on the occurence for the associated pattern
strict	a vector containing the "strict" condition for each nth vector in word_ ("strict" is the string to activate this option)
btwn	is a vector containing the condition ("yes" to activate this option) meaning that if "yes", all elements between two matched patern in vct will be returned , so the patterns you enter in word_ have to be in the order you think it will appear in vct
all_in_word	is a value (default set to "yes", "no" to activate this option) that, if activated, won't authorized a previous matched pattern to be matched again
notatall	is a string that you are sure is not present in vct REGEX can also be used as pattern

|--|--|--|

### Description

Allow to tune a pattern very precisely and output a vector containing its variations n times.

### Usage

```
pattern_tuning(pattrn, spe_nb, spe_l, exclude_type, hmn = 1, rg = c(0, 0))
```

pattrn	is the character that will be tuned
spe_nb	is the number of new character that will be replaced
spe_l	is the source vector from which the new characters will replace old ones
exclude_type	is character that won't be replaced
hmn	is how many output the function will return
rg	is a vector with two parameters (index of the first letter that will be replaced, index of the last letter that will be replaced) default is set to all the letters from the source pattern

22 ptrn\_twkr

#### **Description**

Allow to switch, copy pattern for each element in a vector. Here a pattern is the values that are separated by a same separator. Example: "xx-xxx-xx" or "xx/xx/xxxx". The xx like values can be switched or copied from whatever index to whatever index. Here, the index is like this 1-2-3 etcetera, it is relative of the separator.

### Usage

```
ptrn_switchr(inpt_l, f_idx_l = c(), t_idx_l = c(), sep = "-", default_val = NA)
```

#### **Arguments**

inpt_l	is the input vector
f_idx_l	is a vector containing the indexes of the pattern you want to be altered.
t_idx_l	is a vector containing the indexes to which the indexes in f_idx_l are related.
sep	is the separator, defaults to "-"
default_val	is the default value, if not set to NA, of the pattern at the indexes in f_idx_l. If it is not set to NA, you do not need to fill t_idx_l because this is the vector containing the indexes of the patterns that will be set as new values relatively to the indexes in f_idx_l. Defaults to NA.

#### **Examples**

```
ptrn_switchr(inpt_l=c("2022-01-11", "2022-01-14", "2022-01-21",
"2022-01-01"), f_idx_l=c(1, 2, 3), t_idx_l=c(3, 2, 1))
ptrn_switchr(inpt_l=c("2022-01-11", "2022-01-14", "2022-01-21",
"2022-01-01"), f_idx_l=c(1), default_val="ee")
```

```
ptrn_twkr ptrn_twkr
```

#### **Description**

Allow to modify the pattern length of element in a vector according to arguments. What is here defined as a pattern is something like this xx-xx-xx or xx/xx/xxx... So it is defined by the separator

### Usage

```
ptrn_twkr(inpt_1, depth = "max", sep = "-", default_val = "0", add_sep = T)
```

see\_df 23

#### Arguments

inpt\_l is the input vector

depth is the number (numeric) of separator it will keep as a result. To keep the num-

ber of separator of the element that has the minimum amount of separator do depth="min" and depth="max" (character) for the opposite. This value defaults

to "max".

sep is the separator of the pattern, defaults to "-"

 ${\tt default\_val} \quad \text{is the default val that will be placed between the separator, defaults to "00"}$ 

add\_sep defaults to TRUE. If set to FALSE, it will remove the separator for the patterns

that are included in the interval between the depth amount of separator and the

actual number of separator of the element.

### Examples

```
library("stringr") v <- c("2012-06-22", "2012-06-23", "2022-09-12", "2022") ptrn_twkr(inpt_l=v, depth="max", sep="-", default_val="00", add_sep=TRUE)
```

see\_df

 $see\_df$ 

#### **Description**

Allow to return a dataframe with special value cells (ex: TRUE) where the condition entered are respected and another special value cell (ex: FALSE) where these are not

#### Usage

```
see_df(df, condition_l, val_l, conjunction_l = c(), rt_val = T, f_val = F)
```

### **Arguments**

df is the input dataframe

condition\_l is the vector of the possible conditions ("==", ">", "<", "!=", "%%") (equal,

greater than, lower than, not equal to, is divisible by), you can put the same

condition n times.

val\_1 is the list of vectors containing the values related to condition\_1 (so the vector of

values has to be placed in the same order)

conjunction\_l

contains the | or & conjunctions, so if the length of condition\_l is equal to 3, there will be 2 conjunctions. If the length of conjunction\_l is inferior to the length of condition\_l minus 1, conjunction\_l will match its goal length value with its last argument as the last arguments. For example, c("&", "|", "&") with

a goal length value of 5  $\rightarrow$  c("&", "|", "&", "&", "&")

rt\_val is a special value cell returned when the conditions are respected f\_val is a special value cell returned when the conditions are not respected

#### **Details**

This function will return an error if number only comparative conditions are given in addition to having character values in the input dataframe.

see\_idx

### Description

Allow to get the filename or its extension

#### Usage

```
see_file(string_, index_ext = 1, ext = T)
```

#### **Arguments**

string\_ is the input string

index\_ext is the occurence of the dot that separates the filename and its extension

ext is a boolean that if set to TRUE, will return the file extension and if set to FALSE,

will return filename

### Description

Allow to find the indexes of the elements of the first vector in the second. If the element(s) is not found, the element returned at the same index will be "FALSE".

#### Usage

```
see_idx(v1, v2, exclude_val = "######", no_more = F)
```

### Arguments

v1 is the first vector v2 is the second vector

 $\verb|exclude_val| is a value you know is not present in the 2 vectors$ 

no\_more is a boolean that, if set to TRUE, will remove all the first found value in the

second vector after those has been found. It defaults to FALSE.

see\_inside 25

#### **Description**

Return a list containing all the column of the files in the current directory with a chosen file extension and its associated file and sheet if xlsx. For example if i have 2 files "out.csv" with 2 columns and "out.xlsx" with 1 column for its first sheet and 2 for its second one, the return will look like this: c(column\_1, column\_2, column\_3, column\_4, column\_5, unique\_separator, "1-2-out.csv", "3-3-sheet\_1-out.xlsx", 4-5-sheet\_2-out.xlsx)

#### Usage

```
see_inside(pattern_, path_ = ".", sep_ = c(","), unique_sep = "#####", rec = F)
```

### **Arguments**

pattern is a vector containin the file extension of the spreadsheets ("xlsx", "csv"...)

path\_ is the path where are located the files

sep\_ is a vector containing the separator for each csv type file in order following the

operating system file order, if the vector does not match the number of the csv files found, it will assume the separator for the rest of the files is the same as the last csv file found. It means that if you know the separator is the same for all the

csv type files, you just have to put the separator once in the vector.

unique\_sep is a pattern that you know will never be in your input files

rec is a boolean allows to get files recursively if set to TRUE, defaults to TRUE If x

is the return value, to see all the files name, position of the columns and possible sheet name associanted with, do the following: Examples: print(x[(grep(unique\_sep,

x)1+1):length(x)]) #If you just want to see the columns do the following: print(x1:(grep(unique\_sep,

(x) - 1)

unique\_pos unique\_pos

#### **Description**

Allow to find indexes of the unique values from a vector.

### Usage

```
unique_pos(vec)
```

#### Arguments

vec is the input vector

26 val\_replacer

until_stnl	until_stnl

### Description

Maxes a vector to a chosen length ex: if i want my vector c(1, 2) to be 5 of length this function will return me: c(1, 2, 1, 2, 1)

### Usage

```
until_stnl(vec1, goal)
```

### **Arguments**

vec1	is the input vector
goal	is the length to reach

val\_replacer val\_replacer

## Description

Allow to replace value from dataframe to another one.

#### Usage

```
val_replacer(df, val_replaced, val_replacor = T, df_rpt = NA)
```

```
df
                  is the input dataframe
val_replaced is a vector of the value(s) to be replaced
val_replacor is the value that will replace val_replaced
df_rpt
                  is the replacement matrix and has to be the same dimension as df. Only the
                  indexes that are equal to TRUE will be authorized indexes for the values to be
                  replaced in the input matrix
```

vec\_in\_df 27

c_in_df
---------

### Description

Allow to see if vectors are present in a dataframe ex: 1, 2, 1 3, 4, 1 1, 5, 8 the vector c(4, 1) with the coefficient 1 and the start position at the second column is contained in the dataframe

### Usage

```
vec_in_df(df_, vec_l, coeff_, strt_l, distinct = "NA")
```

### **Arguments**

df_	is the input dataframe	
vec_l	is a list the vectors	
coeff_	is the related coefficient of the vector	
strt_l	is a vector containing the start position for each vector	
distinct	is a value you are sure is not in df_, defaults to "NA"	

### Description

Alow to perform a vlookup on a dataframe

### Usage

```
vlookup_df(df, v_id, col_id = 1, included_col_id = "yes")
```

```
df is the input dataframe

v_id is a vector containing the ids

col_id is the column that contains the ids (default is equal to 1)

included_col_id

is if the result should return the col_id (default set to yes)
```

28 v\_to\_df

$$v_to_df$$
  $v_to_df$ 

### **Description**

Allow to convert a vector to a dataframe according to a separator.

### Usage

```
v_{to} = v_{to} = v_{to}
```

#### **Arguments**

inpt\_v is the input vector
sep is the separator used to seprate the columns

### Examples

```
library("stringr")
v <- c("aa-yy-uu", "zz-gg-hhh", "zz-gg-hhh", "zz-gg-hhh")
v_to_df(inpt_v=v, sep="-")</pre>
```

## **Index**

occu, 19

```
1: (grep(unique\_sep, x) - 1), 25
                                              pattern_generator, 20
                                              pattern_gettr, 20
1, 25
                                              pattern_tuning, 21
                                              ptrn_switchr, 22
all_stat, 2
                                              ptrn_twkr, 22
append_row, 3
                                              see_df, 23
can_be_num, 3
                                              see_file, 24
change_date, 4
                                              see_idx, 24
closest_date, 4
                                              see_inside, 25
cost_and_taxes, 5
                                              unique_pos, 25
data_gen, 6
                                              until_stnl, 26
data_meshup, 7
                                              v_to_df, 28
date_sort, 8
                                              val_replacer, 26
days\_from\_month, 8
                                              vec_in_df, 27
df_tuned, 9
                                              vlookup_df, 27
diff xlsx, 9
extrm_dates, 10
file_rec, 11
file_rec2, 11
\mathtt{fillr}, \textcolor{red}{12}
format_date, 12
geo_min, 13
get_rec, 13
globe, 14
groupr_df, 14
insert_df, 15
letter_to_nb, 15
list_files, 16
match_n, 16
match_n2, 17
multitud, 17
nb\_to\_letter, 18
\texttt{nestr\_df1}, \textcolor{red}{18}
nestr_df2, 19
```