

Package ‘edm1’

June 11, 2024

Title Simplify Complex Data Manipulation

Version 2.0.0.0

Description Provides complex sorting algorithms. Provides date manipulation algorithms. In addition to providing handy functions to discretize variables, an SQL joins alternatives, a set of function to work with geographical coordinates, and other functions to work with text mining.

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Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.1

Imports stringr,
stringi,
dplyr,
openxlsx

Contents

all_stat	3
any_join_datf	5
appndr	7
better_match	8
better_split	8
better_sub	9
better_sub_mult	10
can_be_num	11
closer_ptrn	11
closer_ptrn_adv	14
clusterizer_v	15
colins_datf	17
converter_date	18
converter_format	19
cost_and_taxes	20
cutr_v	21
cut_v	21
data_gen	22
data_meshup	24
date_addr	25
date_converter_reverse	26

dcr_untl	27
dcr_val	28
depth_pairs_findr	28
diff_datf	29
equalizer_v	29
extrt_only_v	30
fillr	31
fixer_nest_v	31
fold_rec	32
fold_rec2	32
format_date	33
geo_min	33
get_rec	34
globe	34
grep_all	35
grep_all2	36
groupr_datf	36
gsub_mult	37
id_keepr	38
incr_fillr	39
inner_all	40
insert_datf	40
intersect_all	41
intersect_mod	42
inter_max	43
inter_min	44
isnt_divisible	45
is_divisible	46
join_n_lvl	46
leap_yr	47
left_all	48
letter_to_nb	49
list_files	49
lst_flatnr	50
match_by	50
multitud	51
nb2_follow	52
nb_follow	52
nb_to_letter	53
nestr_datf1	53
nestr_datf2	54
nest_v	55
new_ordered	56
non_unique	56
occu	57
pairs_findr	58
pairs_findr_merger	58
pairs_insertr	60
pairs_insertr2	61
paste_datf	63
pattern_generator	63
pattern_gettr	64

pattern_tuning	65
power_to_char	66
pre_to_post_idx	66
ptrn_switchr	67
ptrn_twkr	67
rearangr_v	68
regex_spe_detect	69
regrouppr	70
r_print	71
save_untl	71
see_datf	72
see_diff	74
see_diff_all	74
see_file	75
see_idx	76
see_inside	76
see_mode	77
sort_date	78
str_remove_untl	79
sub_mult	79
swipr	80
test_order	81
union_all	82
unique_datf	82
unique_ltr_from_v	83
unique_pos	84
unique_total	84
until_stnl	85
val_replacer	85
vector_replacor	86
vec_in_datf	87
vlookup_datf	88
wider_datf	89

Index	90
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all_stat

all_stat

Description

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_datf)
```

any_join_datf	<i>any_join_datf</i>
---------------	----------------------

Description

Allow to perform SQL joints with more features

Usage

```
any_join_datf(
  inpt_datf_l,
  join_type = "inner",
  join_spe = NA,
  id_v = c(),
  excl_col = c(),
  rtn_col = c(),
  d_val = NA
)
```

Arguments

<code>inpt_datf_l</code>	is a list containing all the dataframe
<code>join_type</code>	is the joint type. Defaults to inner but can be changed to a vector containing all the dataframes you want to take their ids to don external joints.
<code>join_spe</code>	can be equal to a vector to do an external joints on all the dataframes. In this case, <code>join_type</code> should not be equal to "inner"
<code>id_v</code>	is a vector containing all the ids name of the dataframes. The ids names can be changed to number of their columns taking in count their position in <code>inpt_datf_l</code> . It means that if my id is in the third column of the second dataframe and the first dataframe have 5 columns, the column number of the ids is $5 + 3 = 8$
<code>excl_col</code>	is a vector containing the column names to exclude, if this vector is filled so "rtn_col" should not be filled. You can also put the column number in the manner indicated for "id_v". Defaults to <code>c()</code>
<code>rtn_col</code>	is a vector containing the column names to retain, if this vector is filled so "excl_col" should not be filled. You can also put the column number in the manner indicated for "id_v". Defaults to <code>c()</code>
<code>d_val</code>	is the default val when here is no match

Examples

```
datf1 <- data.frame("val"=c(1, 1, 2, 4), "ids"=c("e", "a", "z", "a"),
  "last"=c("oui", "oui", "non", "oui"),
  "second_ids"=c(13, 11, 12, 8), "third_col"=c(4:1))

datf2 <- data.frame("val"=c(3, 7, 2, 4, 1, 2), "ids"=c("a", "z", "z", "a", "a", "a"),
  "bool"=c(TRUE, FALSE, FALSE, FALSE, TRUE, TRUE),
  "second_ids"=c(13, 12, 8, 34, 22, 12))

datf3 <- data.frame("val"=c(1, 9, 2, 4), "ids"=c("a", "a", "z", "a"),
  "last"=c("oui", "oui", "non", "oui"),
```

```

"second_ids"=c(13, 11, 12, 8))

print(any_join_datf(inpt_datf_l=list(datf1, datf2, datf3), join_type="inner",
  id_v=c("ids", "second_ids"),
    excl_col=c(), rtn_col=c()))

# ids val ids last second_ids val ids bool second_ids val ids last second_ids
#3 z12 2 z non 12 7 z FALSE 12 2 z non 12

print(any_join_datf(inpt_datf_l=list(datf1, datf2, datf3), join_type="inner", id_v=c("ids",
  excl_col=c(), rtn_col=c()))

# ids val ids last second_ids val ids bool second_ids val ids last second_ids
#2 a 1 a oui 11 3 a TRUE 13 1 a oui 13
#3 z 2 z non 12 7 z FALSE 12 2 z non 12
#4 a 4 a oui 8 4 a FALSE 34 9 a oui 11

print(any_join_datf(inpt_datf_l=list(datf1, datf2, datf3), join_type=c(1), id_v=c("ids"),
  excl_col=c(), rtn_col=c()))

# ids val ids last second_ids val ids bool second_ids val ids last
#1 e 1 e oui 13 <NA> <NA> <NA> <NA> <NA> <NA> <NA>
#2 a 1 a oui 11 3 a TRUE 13 1 a oui
#3 z 2 z non 12 7 z FALSE 12 2 z non
#4 a 4 a oui 8 4 a FALSE 34 9 a oui
# second_ids
#1 <NA>
#2 13
#3 12
#4 11

print(any_join_datf(inpt_datf_l=list(datf2, datf1, datf3), join_type=c(1, 3),
  id_v=c("ids", "second_ids"),
  excl_col=c(), rtn_col=c()))

# ids val ids bool second_ids val ids last second_ids val ids last
#1 a13 3 a TRUE 13 <NA> <NA> <NA> <NA> 1 a oui
#2 z12 7 z FALSE 12 2 z non 12 2 z non
#3 z8 2 z FALSE 8 <NA> <NA> <NA> <NA> <NA> <NA> <NA>
#4 a34 4 a FALSE 34 <NA> <NA> <NA> <NA> <NA> <NA> <NA>
#5 a22 1 a TRUE 22 <NA> <NA> <NA> <NA> <NA> <NA> <NA>
#6 a12 2 a TRUE 12 <NA> <NA> <NA> <NA> <NA> <NA> <NA>
#7 a13 <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA>
#8 a11 <NA> <NA> <NA> <NA> 1 a oui 11 9 a oui
#9 z12 <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA>
#10 a8 <NA> <NA> <NA> <NA> 4 a oui 8 4 a oui
# second_ids
#1 13
#2 12
#3 <NA>
#4 <NA>
#5 <NA>
#6 <NA>
#7 <NA>
#8 11
#9 <NA>
#10 8

```

```
print(any_join_datf(inpt_datf_l=list(datf1, datf2, datf3), join_type=c(1), id_v=c("ids"),
                    excl_col=c(), rtn_col=c()))

#ids val ids last second_ids val ids bool second_ids val ids last
#1 e 1 e oui 13 <NA> <NA> <NA> <NA> <NA> <NA> <NA>
#2 a 1 a oui 11 3 a TRUE 13 1 a oui
#3 z 2 z non 12 7 z FALSE 12 2 z non
#4 a 4 a oui 8 4 a FALSE 34 9 a oui
# second_ids
#1 <NA>
#2 13
#3 12
#4 11
```

appndr	<i>appndr</i>
--------	---------------

Description

Append to a vector "inpt_v" a special value "val" n times "mmn". The appending begins at "strt" index.

Usage

```
appndr(inpt_v, val = NA, hmn, strt = "max")
```

Arguments

- inpt_v is the input vector
- val is the special value
- hmn is the number of special value element added
- strt is the index from which appending begins, defaults to max which means the end of "inpt_v"

Examples

```
print(appndr(inpt_v=c(1:3), val="oui", hmn=5))

#[1] "1" "2" "3" "oui" "oui" "oui" "oui" "oui"

print(appndr(inpt_v=c(1:3), val="oui", hmn=5, strt=1))

#[1] "1" "oui" "oui" "oui" "oui" "oui" "2" "3"
```

better_match	<i>better_match</i>
--------------	---------------------

Description

Allow to get the nth element matched in a vector

Usage

```
better_match(inpt_v = c(), ptrn, until = 1, nvr_here = NA)
```

Arguments

inpt_v	is the input vector
ptrn	is the pattern to be matched
until	is the maximum number of matched pattern outputed
nvr_here	is a value you are sure is not present in inpt_v

Examples

```
print(better_match(inpt_v=c(1:12, 3, 4, 33, 3), ptrn=3, until=1))
#[1] 3

print(better_match(inpt_v=c(1:12, 3, 4, 33, 3), ptrn=3, until=5))
#[1] 3 13 16

print(better_match(inpt_v=c(1:12, 3, 4, 33, 3), ptrn=c(3, 4), until=5))
[1] 3 13 16 4 14

print(better_match(inpt_v=c(1:12, 3, 4, 33, 3), ptrn=c(3, 4), until=c(1, 5)))
[1] 3 4 14
```

better_split	<i>better_split</i>
--------------	---------------------

Description

Allows to split a string by multiple split, returns a vector and not a list.

Usage

```
better_split(inpt, split_v = c())
```


Arguments

inpt is the input character
 split_v is the vector containing the splits

Examples

```
print(better_split(inpt = "o-u_i", split_v = c("-")))  

[1] "o"    "u_i"  

print(better_split(inpt = "o-u_i", split_v = c("-", "_")))  

[1] "o" "u" "i"
```

better_sub	<i>better_sub</i>
------------	-------------------

Description

Allow to perform a sub operation to a given number of matched patterns, see examples

Usage

```
better_sub(inpt_v = c(), pattern, replacement, untl_v = c())
```

Arguments

inpt_v is a vector containing all the elements that contains expressions to be substituted
 pattern is the expression that will be substituted
 replacement is the expression that will substitute pattern
 untl_v is a vector containing, for each element of inpt_v, the number of pattern that will be substituted

Examples

```
print(better_sub(inpt_v = c("yes NAME, i will call NAME and NAME",  

                           "yes NAME, i will call NAME and NAME"),  

              pattern = "NAME",  

              replacement = "Kevin",  

              untl = c(2)))  

[1] "yes Kevin, i will call Kevin and NAME"  

[2] "yes Kevin, i will call Kevin and NAME"  

print(better_sub(inpt_v = c("yes NAME, i will call NAME and NAME",  

                           "yes NAME, i will call NAME and NAME"),  

              pattern = "NAME",  

              replacement = "Kevin",  

              untl = c(2, 3)))  

[1] "yes Kevin, i will call Kevin and NAME"
```

```
[2] "yes Kevin, i will call Kevin and Kevin"

print(better_sub(inpt_v = c("yes NAME, i will call NAME and NAME",
                           "yes NAME, i will call NAME and NAME"),
              pattern = "NAME",
              replacement = "Kevin",
              until = c("max", 3)))

[1] "yes Kevin, i will call Kevin and Kevin"
[2] "yes Kevin, i will call Kevin and Kevin"
```

better_sub_mult	<i>better_sub_mult</i>
-----------------	------------------------

Description

Allow to perform a sub_mult operation to a given number of matched patterns, see examples

Usage

```
better_sub_mult(
  inpt_v = c(),
  pattern_v = c(),
  replacement_v = c(),
  until_v = c()
)
```

Arguments

inpt_v	is a vector containing all the elements that contains expressions to be substituted
pattern_v	is a vector containing all the patterns to be substituted in any elements of inpt_v
replacement_v	is a vector containing the expression that are going to substitute those provided by pattern_v
until_v	is a vector containing, for each element of inpt_v, the number of pattern that will be substituted

Examples

```
print(better_sub_mult(inpt_v = c("yes NAME, i will call NAME and NAME2",
                                "yes NAME, i will call NAME and NAME2, especially NAME2"),
                    pattern_v = c("NAME", "NAME2"),
                    replacement_v = c("Kevin", "Paul"),
                    until = c(1, 3)))

[1] "yes Kevin, i will call NAME and Paul"
[2] "yes Kevin, i will call NAME and Paul, especially Paul"

print(better_sub_mult(inpt_v = c("yes NAME, i will call NAME and NAME2",
                                "yes NAME, i will call NAME and NAME2, especially NAME2"),
                    pattern_v = c("NAME", "NAME2"),
```

```

replacement_v = c("Kevin", "Paul"),
until = c("max", 3))

[1] "yes Kevin, i will call Kevin and Kevin2"
[2] "yes Kevin, i will call Kevin and Kevin2, especially Kevin2"

```

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

x is the input value

Examples

```

print(can_be_num("34.677"))

#[1] TRUE

print(can_be_num("34"))

#[1] TRUE

print(can_be_num("3rt4"))

#[1] FALSE

print(can_be_num(34))

#[1] TRUE

```

closer_ptrn

closer_ptrn

Description

Take a vector of patterns as input and output each chosen word with their closest patterns from chosen patterns.

Usage

```
closer_ptrn(
  inpt_v,
  base_v = c("?", letters),
  excl_v = c(),
  rtn_v = c(),
  sub_excl_v = c(),
  sub_rtn_v = c()
)
```

Arguments

<code>inpt_v</code>	is the input vector containing all the patterns
<code>base_v</code>	must contain all the characters that the patterns are susceptible to contain, defaults to <code>c("?", letters)</code> . "?" is necessary because it is internally the default value added to each element that does not have a sufficient length compared to the longest pattern in <code>inpt_v</code> . If set to <code>NA</code> , the function will find by itself the elements to be filled with but it may take an extra time
<code>excl_v</code>	is the vector containing all the patterns from <code>inpt_v</code> to exclude for comparing them to others patterns. If this parameter is filled, so <code>"rtn_v"</code> must be empty.
<code>rtn_v</code>	is the vector containing all the patterns from <code>inpt_v</code> to keep for comparing them to others patterns. If this parameter is filled, so <code>"rtn_v"</code> must be empty.
<code>sub_excl_v</code>	is the vector containing all the patterns from <code>inpt_v</code> to exclude for using them to compare to another pattern. If this parameter is filled, so <code>"sub_rtn_v"</code> must be empty.
<code>sub_rtn_v</code>	is the vector containing all the patterns from <code>inpt_v</code> to retain for using them to compare to another pattern. If this parameter is filled, so <code>"sub_excl_v"</code> must be empty.

Examples

```
print(closer_ptrn(inpt_v=c("bonjour", "lpoerc", "nonnour", "bonnour", "nonjour", "aurevoir")

#[[1]]
#[1] "bonjour"
#
#[[2]]
#[1] "lpoerc"    "nonnour"    "bonnour"    "nonjour"    "aurevoir"
#
#[[3]]
#[1] 1 1 2 7 8
#
#[[4]]
#[1] "lpoerc"
#
#[[5]]
#[1] "bonjour" "nonnour" "bonnour" "nonjour" "aurevoir"
#
#[[6]]
#[1] 7 7 7 7 7
#
#[[7]]
#[1] "nonnour"
```

```

#
#[[8]]
#[1] "bonjour" "lpoerc" "bonnour" "nonjour" "aurevoir"
#
#[[9]]
#[1] 1 1 2 7 8
#
#[[10]]
#[1] "bonnour"
#
#[[11]]
#[1] "bonjour" "lpoerc" "nonnour" "nonjour" "aurevoir"
#
#[[12]]
#[1] 1 1 2 7 8
#
#[[13]]
#[1] "nonjour"
#
#[[14]]
#[1] "bonjour" "lpoerc" "nonnour" "bonnour" "aurevoir"
#
#[[15]]
#[1] 1 1 2 7 8
#
#[[16]]
#[1] "aurevoir"
#
#[[17]]
#[1] "bonjour" "lpoerc" "nonnour" "bonnour" "nonjour"
#
#[[18]]
#[1] 7 8 8 8 8

print(closer_ptrn(inpt_v=c("bonjour", "lpoerc", "nonnour", "bonnour", "nonjour", "aurevoir"),
  excl_v=c("nonnour", "nonjour"),
  sub_excl_v=c("nonnour")))

#[1] 3 5
#[[1]]
#[1] "bonjour"
#
#[[2]]
#[1] "lpoerc" "bonnour" "nonjour" "aurevoir"
#
#[[3]]
#[1] 1 1 7 8
#
#[[4]]
#[1] "lpoerc"
#
#[[5]]
#[1] "bonjour" "bonnour" "nonjour" "aurevoir"
#
#[[6]]
#[1] 7 7 7 7
#

```

```

#[[7]]
#[1] "bonnour"
#
#[[8]]
#[1] "bonjour" "lpoerc" "bonnour" "nonjour" "aurevoir"
#
#[[9]]
#[1] 0 1 2 7 8
#
#[[10]]
#[1] "aurevoir"
#
#[[11]]
#[1] "bonjour" "lpoerc" "nonjour" "aurevoir"
#
#[[12]]
#[1] 0 7 8 8

```

closer_ptrn_adv	<i>closer_ptrn_adv</i>
-----------------	------------------------

Description

Allow to find how patterns are far or near between each other relatively to a vector containing characters at each index ("base_v"). The function gets the sum of the indexes of each pattern letter relatively to the characters in base_v. So each pattern can be compared.

Usage

```

closer_ptrn_adv(
  inpt_v,
  res = "raw_stat",
  default_val = "?",
  base_v = c(default_val, letters),
  c_word = NA
)

```

Arguments

inpt_v	is the input vector containing all the patterns to be analyzed
res	is a parameter controlling the result. If set to "raw_stat", each word in inpt_v will come with its score (indexes of its letters relatively to base_v). If set to something else, so "c_word" parameter must be filled.
default_val	is the value that will be added to all patterns that do not equal the length of the longest pattern in inpt_v. Those get this value added to make all patterns equal in length so they can be compared, defaults to "?"
base_v	is the vector from which all pattern get its result (letters indexes for each pattern relatively to base_v), defaults to c("default_val", letters). "default_val" is another parameter and letters is all the western alphabetic letters in a vector
c_word	is a pattern from which the nearest to the farthest pattern in inpt_v will be compared

Examples

```
print(closer_ptrn_adv(inpt_v=c("aurevoir", "bonnour", "nonnour", "fin", "mois", "bonjour"),
  res="word", c_word="bonjour"))

#[[1]]
#[1] 1 5 15 17 38 65
#
#[[2]]
#[1] "bonjour" "bonnour" "aurevoir" "nonnour" "mois" "fin"

print(closer_ptrn_adv(inpt_v=c("aurevoir", "bonnour", "nonnour", "fin", "mois")))

#[[1]]
#[1] 117 107 119 37 64
#
#[[2]]
#[1] "aurevoir" "bonnour" "nonnour" "fin" "mois"
```

clusterizer_v

*clusterizer_v***Description**

Allow to output clusters of elements. Takes as input a vector "inpt_v" containing a sequence of number. Can also take another vector "w_v" that has the same size of inpt_v because its elements are related to it. The way the clusters are made is related to an accuracy value which is "c_val". It means that if the difference between the values associated to 2 elements is superior to c_val, these two elements are in distinct clusters. The second element of the outputed list is the begin and end value of each cluster.

Usage

```
clusterizer_v(inpt_v, w_v = NA, c_val)
```

Arguments

inpt_v	is the vector containing the sequence of number
w_v	is the vector containing the elements related to inpt_v, defaults to NA
c_val	is the accuracy of the clusterization

Examples

```
print(clusterizer_v(inpt_v=sample.int(20, 26, replace=TRUE), w_v=NA, c_val=0.9))

# [[1]]
# [[1]][[1]]
#[1] 1
#
# [[1]][[2]]
#[1] 2
#
```

```

#[[1]][[3]]
#[1] 3
#
#[[1]][[4]]
#[1] 4
#
#[[1]][[5]]
#[1] 5 5
#
#[[1]][[6]]
#[1] 6 6 6 6
#
#[[1]][[7]]
#[1] 7 7 7
#
#[[1]][[8]]
#[1] 8 8 8
#
#[[1]][[9]]
#[1] 9
#
#[[1]][[10]]
#[1] 10
#
#[[1]][[11]]
#[1] 12
#
#[[1]][[12]]
#[1] 13 13 13
#
#[[1]][[13]]
#[1] 18 18 18
#
#[[1]][[14]]
#[1] 20
#
#
#[[2]]
# [1] "1" "1" "-" "2" "2" "-" "3" "3" "-" "4" "4" "-" "5" "5" "-"
#[16] "6" "6" "-" "7" "7" "-" "8" "8" "-" "9" "9" "-" "10" "10" "-"
#[31] "12" "12" "-" "13" "13" "-" "18" "18" "-" "20" "20"

print(clusterizer_v(inpt_v=sample.int(40, 26, replace=TRUE), w_v=letters, c_val=0.29))

#[[1]]
#[[1]][[1]]
#[1] "a"
#
#[[1]][[2]]
#[1] "b"
#
#[[1]][[3]]
#[1] "c" "d"
#
#[[1]][[4]]
#[1] "e" "f"
#

```



```

#[[1]][[5]]
#[1] "g" "h" "i" "j"
#
#[[1]][[6]]
#[1] "k"
#
#[[1]][[7]]
#[1] "l"
#
#[[1]][[8]]
#[1] "m" "n"
#
#[[1]][[9]]
#[1] "o"
#
#[[1]][[10]]
#[1] "p"
#
#[[1]][[11]]
#[1] "q" "r"
#
#[[1]][[12]]
#[1] "s" "t" "u"
#
#[[1]][[13]]
#[1] "v"
#
#[[1]][[14]]
#[1] "w"
#
#[[1]][[15]]
#[1] "x"
#
#[[1]][[16]]
#[1] "y"
#
#[[1]][[17]]
#[1] "z"
#
#
#[[2]]
#[1] "13" "13" "-" "14" "14" "-" "15" "15" "-" "16" "16" "-" "17" "17" "-"
#[16] "19" "19" "-" "21" "21" "-" "22" "22" "-" "23" "23" "-" "25" "25" "-"
#[31] "27" "27" "-" "29" "29" "-" "30" "30" "-" "31" "31" "-" "34" "34" "-"
#[46] "35" "35" "-" "37" "37"

```

colins_datf

colins_datf

Description

Allow to insert vectors into a dataframe.

Usage

```
colins_datf(inpt_datf, target_col = list(), target_pos = list())
```

Arguments

`inpt_datf` is the dataframe where vectors will be inserted

`target_col` is a list containing all the vectors to be inserted

`target_pos` is a list containing the vectors made of the columns names or numbers where the associated vectors from `target_col` will be inserted after

Examples

```
datf1 <- data.frame("frst_col"=c(1:5), "scd_col"=c(5:1))

print(colins_datf(inpt_datf=datf1, target_col=list(c("oui", "oui", "oui", "non", "non"),
  c("u", "z", "z", "z", "u")),
  target_pos=list(c("frst_col", "scd_col"), c("scd_col"))))

#  frst_col cur_col scd_col cur_col.1 cur_col
#1         1     oui         5      oui      u
#2         2     oui         4      oui      z
#3         3     oui         3      oui      z
#4         4     non         2      non      z
#5         5     non         1      non      u

print(colins_datf(inpt_datf=datf1, target_col=list(c("oui", "oui", "oui", "non", "non"),
  c("u", "z", "z", "z", "u")),
  target_pos=list(c(1, 2), c("frst_col"))))

#  frst_col cur_col scd_col cur_col cur_col
#1         1     oui         5        u     oui
#2         2     oui         4        z     oui
#3         3     oui         3        z     oui
#4         4     non         2        z     non
#5         5     non         1        u     non
```

converter_date

converter_date

Description

Allow to convert any date like second/minute/hour/day/month/year to either second, minute...year. The input date should not necessarily have all its time units (second, minute...) but all the time units according to a format. Example: "snhdmy" is for second, hour, minute, day, month, year. And "mdy" is for month, day, year.

Usage

```
converter_date(inpt_date, convert_to, frmt = "snhdmy", sep_ = "-")
```

Arguments

- inpt_date is the input date
- convert_to is the time unit the input date will be converted ("s", "n", "h", "d", "m", "y")
- frmt is the format of the input date
- sep_ is the separator of the input date. For example this input date "12-07-2012" has "-" as a separator

Examples

```
print(converter_date(inpt_date="14-04-11-2024", sep_="-", frmt="hdmy", convert_to="m"))
#[1] 24299.15

print(converter_date(inpt_date="14-04-11-2024", sep_="-", frmt="hdmy", convert_to="y"))
#[1] 2024.929

print(converter_date(inpt_date="14-04-11-2024", sep_="-", frmt="hdmy", convert_to="s"))
#[1] 63900626400

print(converter_date(inpt_date="63900626400", sep_="-", frmt="s", convert_to="y"))
#[1] 2024.929

print(converter_date(inpt_date="2024", sep_="-", frmt="y", convert_to="s"))
#[1] 63873964800
```

converter_format	converter_format
------------------	------------------

Description

Allow to convert a format to another

Usage

```
converter_format(inpt_val, sep_ = "-", inpt_frmt, frmt, default_val = "00")
```

Arguments

- inpt_val is the input value that is linked to the format
- sep_ is the separator of the value in inpt_val
- inpt_frmt is the format of the input value
- frmt is the format you want to convert to
- default_val is the default value given to the units that are not present in the input format

Examples

```
print(converter_format(inpt_val="23-12-05-1567", sep="-",
                      inpt_frmt="shmy", frmt="snhdmy", default_val="00"))

#[1] "23-00-12-00-05-1567"

print(converter_format(inpt_val="23-12-05-1567", sep="-",
                      inpt_frmt="shmy", frmt="Pnhdmy", default_val="00"))

#[1] "00-00-12-00-05-1567"
```

cost_and_taxes	<i>cost_and_taxes</i>
----------------	-----------------------

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_ttc = NA
)
```

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

Examples

```
print(cost_and_taxes(pu=45, prix_ttc=2111, qte=23))

# [1] 23.000000 45.000000 45.000000 1.039614 2111.000000 1076.000000
# [7] 45.000000 NA NA NA NA NA
```

cutr_v	<i>cutr_v</i>
--------	---------------

Description

Allow to reduce all the elements in a vector to a defined size of nchar

Usage

```
cutr_v(inpt_v, until = "min")
```

Arguments

inpt_v	is the input vector
until	is the maximum size of nchar authorized by an element, defaults to "min", it means the shortest element in the list

Examples

```
test_v <- c("oui", "nonon", "ez", "aa", "a", "dsfsdsds")

print(cutr_v(inpt_v=test_v, until="min"))

# [1] "o" "n" "e" "a" "a" "d"

print(cutr_v(inpt_v=test_v, until=3))

# [1] "oui" "nonon" "ez" "aa" "a" "dsf"
```

cut_v	<i>v_to_datf</i>
-------	------------------

Description

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

Usage

```
cut_v(inpt_v, sep_ = "")
```

Arguments

`inpt_v` is the input vector

`sep_` is the separator of the elements in `inpt_v`, defaults to ""

Examples

```
print(cut_v(inpt_v=c("oui", "non", "oui", "non")))

#      X.o. X.u. X.i.
#oui  "o"  "u"  "i"
#non  "n"  "o"  "n"
#oui  "o"  "u"  "i"
#non  "n"  "o"  "n"

print(cut_v(inpt_v=c("ou-i", "n-on", "ou-i", "n-on"), sep_="-"))

#      X.ou. X.i.
#ou-i  "ou"  "i"
#n-on  "n"   "on"
#ou-i  "ou"  "i"
#n-on  "n"   "on"
```

data_gen

*data_gen***Description**

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

Usage

```
data_gen(
  type_ = c("number", "mixed", "string"),
  strt_l = c(0, 0, 10),
  nb_r = c(50, 10, 40),
  output = NA,
  properties = c("1-5", "1-5", "1-5"),
  type_distrib = c("random", "random", "random"),
  str_source = c("a", "b", "c", "d", "e", "f", "g", "h", "i", "j", "k", "l", "m",
    "n", "o", "p", "q", "r", "s", "t", "u", "v", "w", "x", "y", "z"),
  round_l = c(0, 0, 0),
  sep_ = ",",
)
```

Arguments

`type_` is a vector. Its arguments designates 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
output	is the name of the output csv file, defaults to NA so no csv will be outputed by default
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 means that not 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, if the type of the value is numeric
sep_	is the separator used to write data in the csv

Value

new generated data in addition to saving it in the output

Examples

```
print(data_gen())
```

```
#  X1  X2  X3
#1  4   2 <NA>
#2  2   4 <NA>
#3  5   2 <NA>
#4  2 abcd <NA>
#5  4 abcd <NA>
#6  2   4 <NA>
#7  2  abc <NA>
#8  4  abc <NA>
#9  4   3 <NA>
#10 4  abc abcd
#11 5 <NA>  abc
#12 4 <NA>  abc
#13 1 <NA>  ab
#14 1 <NA> abcde
#15 2 <NA>  abc
#16 4 <NA>   a
#17 1 <NA> abcd
#18 4 <NA>  ab
#19 2 <NA> abcd
#20 3 <NA>  ab
#21 3 <NA> abcd
#22 2 <NA>   a
#23 4 <NA>  abc
#24 1 <NA> abcd
#25 4 <NA>  abc
#26 4 <NA>  ab
#27 2 <NA>  abc
#28 5 <NA>  ab
#29 3 <NA>  abc
```

```

#30  5 <NA>  abcd
#31  2 <NA>   abc
#32  2 <NA>   abc
#33  1 <NA>    ab
#34  5 <NA>    a
#35  4 <NA>   ab
#36  1 <NA>   ab
#37  1 <NA> abcde
#38  5 <NA>   abc
#39  4 <NA>   ab
#40  5 <NA> abcde
#41  2 <NA>   ab
#42  3 <NA>   ab
#43  2 <NA>   ab
#44  4 <NA>  abcd
#45  5 <NA>  abcd
#46  3 <NA>  abcd
#47  2 <NA>  abcd
#48  3 <NA>  abcd
#49  3 <NA>  abcd
#50  4 <NA>    a

print(data_gen(strt_l=c(0, 0, 0), nb_r=c(5, 5, 5)))

#  X1    X2    X3
#1  2     a  abc
#2  3 abcde  ab
#3  4 abcde  a
#4  1     3  abc
#5  3     a abcd

```

data_mesup

data_mesup

Description

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

Usage

```

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

```

Arguments

`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	are the colnames of the data generated in a csv
file_	is the file to which the data will be outputed, defaults to NA which means that the functio will return the dataframe generated and won't write it to a csv file
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 "-")

Examples

```
print(data_meshup(data=c("_", c("-", "d", "-", "e", "-", "f"), "_",
  c("-", "a", "a1", "-", "B", "r", "uy", "-", "c", "c1"), "_"), organisation=c(1, 0)))

#  X1 X2
#1  d  a
#2  d a1
#3  e  B
#4  e  r
#5  e uy
#6  f  c
#7  f c1
```

date_addr

date_addr

Description

Allow to add or subtract two dates that have the same time unit or not

Usage

```
date_addr(
  date1,
  date2,
  add = FALSE,
  frmt1,
  frmt2 = frmt1,
  sep_ = "-",
  convert_to = "dmy"
)
```

Arguments

date1	is the date from which the second date will be added or subtracted
date2	is the date that will be added or will subtract date1
add	equals to FALSE if you want date1 - date2 and TRUE if you want date1 + date2
frmt1	is the format of date1 (snhdmy) (second, minute, hour, day, monthn year)

frmt2 is the format of date2 (snhdmy)
 sep_ is the separator of date1 and date2
 convert_to is the format of the outputed date

Examples

```
print(date_addr(date1="25-02", date2="58-12-08", frmt1="dm", frmt2="shd", sep_="-",
               convert_to="dmy"))

#[1] "18-2-0"

print(date_addr(date1="25-02", date2="58-12-08", frmt1="dm", frmt2="shd", sep_="-",
               convert_to="dmy", add=TRUE))

#[1] "3-3-0"

print(date_addr(date1="25-02-2024", date2="1-01", frmt1="dmy", frmt2="dm", sep_="-",
               convert_to="dmy", add=TRUE))

#[1] "27-3-2024"

print(date_addr(date1="25-02-2024", date2="1-01", frmt1="dmy", frmt2="dm", sep_="-",
               convert_to="dmy", add=FALSE))

#[1] "23-1-2024"

print(date_addr(date1="25-02-2024", date2="1-01", frmt1="dmy", frmt2="dm", sep_="-",
               convert_to="n", add=FALSE))

#[1] "1064596320"

print(date_addr(date1="25-02-2024", date2="1-01", frmt1="dmy", frmt2="dm", sep_="-",
               convert_to="s", add=FALSE))

#[1] "63875779200"
```

```
date_converter_reverse
               date_converter_reverse
```

Description

Allow to convert single date value like 2025.36 year to a date like second/minutehour/day/month/year (snhdmy)

Usage

```
date_converter_reverse(inpt_date, convert_to = "dmy", frmt = "y", sep_ = "-")
```

Arguments

- inpt_date is the input date
- convert_to is the date format the input date will be converted
- frmt is the time unit of the input date
- sep_ is the separator of the outputed date

Examples

```
print(date_converter_reverse(inpt_date="2024.929", convert_to="hmy", frmt="y", sep_="-"))  
  
#[1] "110-11-2024"  
  
print(date_converter_reverse(inpt_date="2024.929", convert_to="dmy", frmt="y", sep_="-"))  
  
#[1] "4-11-2024"  
  
print(date_converter_reverse(inpt_date="2024.929", convert_to="hdmy", frmt="y", sep_="-"))  
  
#[1] "14-4-11-2024"  
  
print(date_converter_reverse(inpt_date="2024.929", convert_to="dhym", frmt="y", sep_="-"))  
  
#[1] "4-14-2024-11"
```

dcrl	dcrl
------	------

Description

Allow to get the final value of a incremental or decremental loop.

Usage

```
dcrl(strt_val, cr_val, stop_val = 0)
```

Arguments

- strt_val is the start value
- cr_val is the incremental (or decremental value)
- stop_val is the value where the loop has to stop

Examples

```
print(dcrl(strt_val=50, cr_val=-5, stop_val=5))  
  
#[1] 9  
  
print(dcrl(strt_val=50, cr_val=5, stop_val=450))  
  
#[1] 80
```

dcr_val	<i>dcr_val</i>
---------	----------------

Description

Allow to get the end value after an incremental (or decremental loop)

Usage

```
dcr_val(strt_val, cr_val, stop_val = 0)
```

Arguments

strt_val	is the start value
cr_val	is the incremental or decremental value
stop_val	is the value the loop has to stop

Examples

```
print(dcr_val(strt_val=50, cr_val=-5, stop_val=5))
#[1] 5
print(dcr_val(strt_val=47, cr_val=-5, stop_val=5))
#[1] 7
print(dcr_val(strt_val=50, cr_val=5, stop_val=450))
#[1] 450
print(dcr_val(strt_val=53, cr_val=5, stop_val=450))
#[1] 448
```

depth_pairs_findr	<i>depth_pairs_findr</i>
-------------------	--------------------------

Description

Takes the pair vector as an input and associate to each pair a level of depth, see examples

Usage

```
depth_pairs_findr(inpt)
```

Arguments

inpt	is the pair vector
------	--------------------

Examples

```
print(depth_pairs_findr(c(1, 1, 2, 3, 3, 4, 4, 2, 5, 6, 7, 7, 6, 5)))

[1] 1 1 1 2 2 2 2 1 1 2 3 3 2 1
```

diff_datf

diff_datf

Description

Returns a vector with the coordinates of the cell that are not equal between 2 dataframes (row, column).

Usage

```
diff_datf(datf1, datf2)
```

Arguments

```
datf1      is an an input dataframe
datf2      is an an input dataframe
```

Examples

```
datf1 <- data.frame(c(1:6), c("oui", "oui", "oui", "oui", "oui", "oui"), c(6:1))

datf2 <- data.frame(c(1:7), c("oui", "oui", "oui", "oui", "non", "oui", "zz"))

print(diff_datf(datf1=datf1, datf2=datf2))

#[1] 5 1 5 2
```

equalizer_v

equalizer_v

Description

Takes a vector of character as an input and returns a vector with the elements at the same size. The size can be chosen via depth parameter.

Usage

```
equalizer_v(inpt_v, depth = "max", default_val = "?")
```

Arguments

<code>inpt_v</code>	is the input vector containing all the characters
<code>depth</code>	is the depth parameter, defaults to "max" which means that it is equal to the character number of the element(s) in <code>inpt_v</code> that has the most
<code>default_val</code>	is the default value that will be added to the output characters if those has an inferior length (characters) than the value of <code>depth</code>

Examples

```
print(equalizer_v(inpt_v=c("aa", "zzz", "q"), depth=2))

#[1] "aa" "zz" "q?"

print(equalizer_v(inpt_v=c("aa", "zzz", "q"), depth=12))

#[1] "aa?????????" "zzz?????????" "q???????????"
```

<code>extrt_only_v</code>	<i>extrt_only_v</i>
---------------------------	---------------------

Description

Returns the elements from a vector "`inpt_v`" that are in another vector "`pttrn_v`"

Usage

```
extrt_only_v(inpt_v, pttrn_v)
```

Arguments

<code>inpt_v</code>	is the input vector
<code>pttrn_v</code>	is the vector containing all the elements that can be in <code>inpt_v</code>

Examples

```
print(extrt_only_v(inpt_v=c("oui", "non", "peut", "oo", "ll", "oui", "non", "oui", "oui"),
  pttrn_v=c("oui"))

#[1] "oui" "oui" "oui" "oui"
```

fillr

fillr

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

```
print(fillr(c("a", "b", "...3", "c")))
#[1] "a" "b" "b" "b" "b" "c"
```

fixer_nest_v

fixer_nest_v

Description

Retur the elements of a vector "wrk_v" (1) that corresponds to the pattern of elements in another vector "cur_v" (2) according to another vector "pttrn_v" (3) that contains the patterof elements.

Usage

```
fixer_nest_v(cur_v, pttrn_v, wrk_v)
```

Arguments

cur_v	is the input vector
pttrn_v	is the vector containing all the patterns that may be contained in cur_v
wrk_v	is a vector containing all the indexes of cur_v taken in count in the function

Examples

```
print(fixer_nest_v(cur_v=c("oui", "non", "peut-etre", "oui", "non", "peut-etre"),
  pttrn_v=c("oui", "non", "peut-etre"),
  wrk_v=c(1, 2, 3, 4, 5, 6)))

#[1] 1 2 3 4 5 6

print(fixer_nest_v(cur_v=c("oui", "non", "peut-etre", "oui", "non", "peut-etre"),
  pttrn_v=c("oui", "non"),
  wrk_v=c(1, 2, 3, 4, 5, 6)))

#[1] 1 2 NA 4 5 NA
```

fold_rec

fold_rec

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 algorith (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

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

Arguments

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

fold_rec2

fold_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 algorith 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

Usage

```
fold_rec2(xmax, xmin = 1, pathc = ".")
```


Arguments

xmax	is the depth value
xmin	is the minimum value of depth
pathc	is the reference path, from which depth value is equal to 1

format_date	<i>format_date</i>
-------------	--------------------

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 "-")

Examples

```
print(format_date(f_dialect=c("janvier", "février", "mars", "avril", "mai", "juin",
"juillet", "aout", "septembre", "octobre", "novembre", "décembre"), sentc="11-septembre-2
#[1] "11-09-2023"
```

geo_min	<i>geo_min</i>
---------	----------------

Description

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

Usage

```
geo_min(inpt_datf, established_datf)
```

Arguments

inpt_datf	is the input dataframe of the set of geographical points to be classified, its first column is for latitude, the second for the longitude and the third, if exists, is for the altitude. Each point is one row.
established_datf	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_datf=in_, established_datf=in2_))

#           X1           X2
#1    245.266         NA
#2 24200.143         NA
#3           NA 127.7004

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))

print(geo_min(inpt_datf=in_, established_datf=in2_))

#           X1           X2
#1           NA 4343.720
#2 26465.63         NA
#3           NA 5825.517
```

get_rec	<i>get_rec</i>
---------	----------------

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
-------	--

<i>globe</i>	<i>globe</i>
--------------	--------------

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

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

#[1] 6342.844 7059.080

print(globe(lat_f=23, long_f=112, alt_f=8, lat_n=c(2, 82), long_n=c(165, -55), alt_n=c(8, 10)))

#[1] 6342.844 7059.087
```

grep_all

grep_all

Description

Allow to perform a grep function on multiple input elements

Usage

```
grep_all(inpt_v, pattern_v)
```

Arguments

inpt_v	is the input vectors to grep elements from
pattern_v	is a vector containing the patterns to grep

Examples

```
print(grep_all(inpt_v = c(1:14, "z", 1:7, "z", "a", "z"),
               pattern_v = c("z", "4")))

[1] 15 23 25 4 14 19

print(grep_all(inpt_v = c(1:14, "z", 1:7, "z", "a", "z"),
               pattern_v = c("z", "^4$")))

[1] 15 23 25 4 19

print(grep_all(inpt_v = c(1:14, "z", 1:7, "z", "a", "z"),
               pattern_v = c("z")))

[1] 15 23 25
```

```
grep_all2          grep_all2
```

Description

Performs the `grep_all` function with another algorithm, potentially faster

Usage

```
grep_all2(inpt_v, pattern_v)
```

Arguments

`inpt_v` is the input vectors to grep elements from
`pattern_v` is a vector containing the patterns to grep

Examples

```
print(grep_all2(inpt_v = c(1:14, "z", 1:7, "z", "a", "z"),
                pattern_v = c("z", "4")))

[1] 15 23 25  4 14 19

print(grep_all2(inpt_v = c(1:14, "z", 1:7, "z", "a", "z"),
                pattern_v = c("z", "^4$")))

[1] 15 23 25  4 19

print(grep_all2(inpt_v = c(1:14, "z", 1:7, "z", "a", "z"),
                pattern_v = c("z")))

[1] 15 23 25
```

```
groupr_datf        groupr_datf
```

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 dataframe according to the cell value. This function is based on `see_datf` and `nestr_datf2` functions.

Usage

```
groupr_datf(
  inpt_datf,
  condition_lst,
  val_lst,
  conjunction_lst,
  rtn_val_pos = c()
)
```

Arguments

`inpt_datf` is the input dataframe

`condition_lst` is a list containing all the condition as a vector for each group

`val_lst` is a list containing all the values associated with `condition_lst` as a vector for each group

`conjunction_lst` is a list containing all the conjunctions associated with `condition_lst` and `val_lst` as a vector for each group

`rtn_val_pos` is a vector containing all the group flag value like this ex: `c("flag1", "flag2", "flag3")`

Examples

```
interactive()

datf1 <- 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, 88)))

condition_lst <- list(c(">", "<"), c("%%", "==" , "=="))

conjunction_lst <- list(c("|"), c(), c("|"))

rtn_val_pos <- c("+", "++", "+++")

print(groupr_datf(inpt_datf=datf1, val_lst=val_lst, condition_lst=condition_lst,
conjunction_lst=conjunction_lst, rtn_val_pos=rtn_val_pos))

#      X1  X2  X3
#1 <NA>   +  +++
#2   ++  ++  +++
#3 <NA> +++   +
```

gsub_mult

*gsub_mult***Description**

Performs a `gsub` operation with `n` patterns and replacements.

Usage

```
gsub_mult(inpt_v, pattern_v = c(), replacement_v = c())
```

Arguments

`inpt_v` is a vector containing all the elements that contains expressions to be substituted

`pattern_v` is a vector containing all the patterns to be substituted in any elements of `inpt_v`

`replacement_v` is a vector containing the expression that are going to substitute those provided by `pattern_v`

Examples

```
print(gsub_mult(inpt_v = c("X and Y programming languages are great", "More X, more X!"),
               pattern_v = c("X", "Y", "Z"),
               replacement_v = c("C", "R", "GO")))
[1] "C and R programming languages are great"
[2] "More C, more C!"
```

<code>id_keepr</code>	<code>id_keepr_datf</code>
-----------------------	----------------------------

Description

Allow to get the original indexes after multiple equality comparaison according to the original number of row

Usage

```
id_keepr(inpt_datf, col_v = c(), el_v = c(), rstr_l = NA)
```

Arguments

<code>inpt_datf</code>	is the input dataframe
<code>col_v</code>	is the vector containing the column numbers or names to be compared to their respective elements in "el_v"
<code>el_v</code>	is a vector containing the elements that may be contained in their respective column described in "col_v"
<code>rstr_l</code>	is a list containing the vector composed of the indexes of the elements chosen for each comparison. If the length of the list is inferior to the lenght of comparisons, so the last vector of rstr_l will be the same as the last one to fill make rstr_l equal in term of length to col_v and el_v

Examples

```
datf1 <- data.frame(c("oui", "oui", "oui", "non", "oui"),
                  c("opui", "op", "op", "zez", "zez"), c(5:1), c(1:5))

print(id_keepr(inpt_datf=datf1, col_v=c(1, 2), el_v=c("oui", "op")))
#[1] 2 3

print(id_keepr(inpt_datf=datf1, col_v=c(1, 2), el_v=c("oui", "op"),
              rstr_l=list(c(1:5), c(3, 2, 2, 2, 3))))
#[1] 2 3

print(id_keepr(inpt_datf=datf1, col_v=c(1, 2), el_v=c("oui", "op"),
              rstr_l=list(c(1:5), c(3))))
#[1] 3

print(id_keepr(inpt_datf=datf1, col_v=c(1, 2), el_v=c("oui", "op"), rstr_l=list(c(1:5))))
```

```
#[1] 2 3
```

```
incr_fillr
```

```
incr_fillr
```

Description

Take a vector uniquely composed by double and sorted ascendingly, a step, another vector of elements whose length is equal to the length of the first vector, and a default value. If an element of the vector is not equal to its predecessor minus a user defined step, so these can be the output according to the parameters (see example):

Usage

```
incr_fillr(inpt_v, wrk_v = NA, default_val = NA, step = 1)
```

Arguments

<code>inpt_v</code>	is the ascending double only composed vector
<code>wrk_v</code>	is the other vector (size equal to <code>inpt_v</code>), defaults to NA
<code>default_val</code>	is the default value put when the difference between two following elements of <code>inpt_v</code> is greater than <code>step</code> , defaults to NA
<code>step</code>	is the allowed difference between two elements of <code>inpt_v</code>

Examples

```
print(incr_fillr(inpt_v=c(1, 2, 4, 5, 9, 10),
                 wrk_v=NA,
                 default_val="increasing"))

#[1] 1 2 3 4 5 6 7 8 9 10

print(incr_fillr(inpt_v=c(1, 1, 2, 4, 5, 9),
                 wrk_v=c("ok", "ok", "ok", "ok", "ok"),
                 default_val=NA))

#[1] "ok" "ok" "ok" NA "ok" "ok" NA NA NA

print(incr_fillr(inpt_v=c(1, 2, 4, 5, 9, 10),
                 wrk_v=NA,
                 default_val="NAN"))

#[1] "1" "2" "NAN" "4" "5" "NAN" "NAN" "NAN" "9" "10"
```

inner_all

inner_all

Description

Allow to apply inner join on n dataframes, datatables, tibble

Usage

```
inner_all(..., keep_val = FALSE, id_v)
```

Arguments

... are all the dataframes etc
 keep_val is if you want to keep the id column
 id_v is the common id of all the dataframes etc

Examples

```
datf1 <- data.frame(
  "id1"=c(1:5),
  "var1"=c("oui", "oui", "oui", "non", "non")
)

datf2 <- data.frame(
  "id1"=c(1, 2, 3, 7, 9),
  "var1"=c("oui2", "oui2", "oui2", "non2", "non2")
)

print(inner_all(datf1, datf2, keep_val=FALSE, id_v="id1"))

id1 var1.x var1.y
1 1 oui oui2
2 2 oui oui2
3 3 oui oui2
```

insert_datf

edml insert_datf

Description

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

Usage

```
insert_datf(datf_in, datf_ins, ins_loc)
```


Arguments

`datf_in` is the dataframe that will be inserted

`datf_ins` is the dataset to be inserted

`ins_loc` is a vector containg two parameters (row, column) of the begining for the insertion

Examples

```
datf1 <- data.frame(c(1, 4), c(5, 3))

datf2 <- data.frame(c(1, 3, 5, 6), c(1:4), c(5, 4, 5, "ereer"))

print(insert_datf(datf_in=datf2, datf_ins=datf1, ins_loc=c(4, 2)))

#   c.1..3..5..6. c.1.4. c.5..4..5...ereer..
# 1             1      1                    5
# 2             3      2                    4
# 3             5      3                    5
# 4             6      1                    5

print(insert_datf(datf_in=datf2, datf_ins=datf1, ins_loc=c(3, 2)))

#   c.1..3..5..6. c.1.4. c.5..4..5...ereer..
# 1             1      1                    5
# 2             3      2                    4
# 3             5      1                    5
# 4             6      4                    3

print(insert_datf(datf_in=datf2, datf_ins=datf1, ins_loc=c(2, 2)))

#   c.1..3..5..6. c.1.4. c.5..4..5...ereer..
# 1             1      1                    5
# 2             3      1                    5
# 3             5      4                    3
# 4             6      4                ereer
```

intersect_all

intersect_all

Description

Allows to calculate the intersection between n vectors

Usage

```
intersect_all(...)
```

Arguments

`...` is all the vector you want to calculate the intersection from

Examples

```
print(intersect_all(c(1:5), c(1, 2, 3, 6), c(1:4)))

[1] 1 2 3
```

intersect_mod	<i>intersect_mod</i>
---------------	----------------------

Description

Returns the mods that have elements in common

Usage

```
intersect_mod(datf, inter_col, mod_col, n_min, descendly_ordered = NA)
```

Arguments

datf	is the input dataframe
inter_col	is the column name or the column number of the values that may be commun between the different mods
mod_col	is the column name or the column number of the mods in the dataframe
n_min	is the minimum elements in common a mod should have to be taken in count
ordered_descendly	in case that the elements in commun are numeric, this option can be enabled by giving a value of TRUE or FALSE see examples

Examples

```
datf <- data.frame("col1"=c("oui", "oui", "oui", "oui", "oui", "oui",
                           "non", "non", "non", "non", "ee", "ee", "ee"), "col2"=c(1:6, 2:5, 1:3))

print(intersect_mod(datf=datf, inter_col=2, mod_col=1, n_min=2))

  col1 col2
2   oui   2
3   oui   3
7  non    2
8  non    3
12  ee    2
13  ee    3

print(intersect_mod(datf=datf, inter_col=2, mod_col=1, n_min=3))

  col1 col2
2   oui   2
3   oui   3
4   oui   4
5   oui   5
7  non    2
8  non    3
```

```

9   non    4
10  non    5

print(intersect_mod(datf=datf, inter_col=2, mod_col=1, n_min=5))

  coll col2
1   oui    1
2   oui    2
3   oui    3
4   oui    4
5   oui    5
6   oui    6

datf <- data.frame("coll"=c("non", "non", "oui", "oui", "oui", "oui",
                             "non", "non", "non", "non", "ee", "ee", "ee"), "col2"=c(1:6, 2:5, 1:6))

print(intersect_mod(datf=datf, inter_col=2, mod_col=1, n_min=3))

  coll col2
8   non    3
9   non    4
10  non    5
3   oui    3
4   oui    4
5   oui    5

```

inter_max

inter_max

Description

Takes as input a list of vectors composed of ints or floats ascendly ordered (intervals) that can have a different step to one of another element ex: `list(c(0, 2, 4), c(0, 4), c(1, 2, 2.3))`. The function will return the list of lists altered according to the maximum step found in the input list.

Usage

```
inter_max(inpt_l, max_ = -1000, get_lst = TRUE)
```

Arguments

<code>inpt_l</code>	is the input list
<code>max_</code>	is a value you are sure is the minimum step value of all the sub-lists
<code>get_lst</code>	is the parameter that, if set to True, will keep the last values of vectors in the return value if the last step exceeds the end value of the vector.

Examples

```

print(inter_max(inpt_l=list(c(0, 2, 4), c(0, 4), c(1, 2, 2.3)), get_lst=TRUE))

#[[1]]
#[1] 0 4

```

```

#
#[[2]]
#[1] 0 4
#
#[[3]]
#[1] 1.0 2.3

print(inter_max(inpt_l=list(c(0, 2, 4), c(0, 4), c(1, 2, 2.3)), get_lst=FALSE))

# [[1]]
#[1] 0 4
#
#[[2]]
#[1] 0 4
#
#[[3]]
#[1] 1

```

inter_min

inter_min

Description

Takes as input a list of vectors composed of ints or floats ascendly ordered (intervals) that can have a different step to one of another element ex: list(c(0, 2, 4), c(0, 4), c(1, 2, 2.3)). This function will return the list of vectors with the same steps preserving the begin and end value of each interval. The way the algorithm searches the common step of all the sub-lists is also given by the user as a parameter, see `how_to` paramaters.

Usage

```

inter_min(
  inpt_l,
  min_ = 1000,
  sensi = 3,
  sensi2 = 3,
  how_to_op = c("divide"),
  how_to_val = c(3)
)

```

Arguments

inpt_l	is the input list containing all the intervals
min_	is a value you are sure is superior to the maximum step value in all the intervals
sensi	is the decimal accuracy of how the difference between each value n to $n+1$ in an interval is calculated
sensi2	is the decimal accuracy of how the value with the common step is calculated in all the intervals
how_to_op	is a vector containing the operations to perform to the pre-common step value, defaults to only "divide". The operations can be "divide", "subtract", "multiply" or "add". All type of operations can be in this parameter.

`how_to_val` is a vector containing the value relatives to the operations in `hot_to_op`, defaults to 3 output from ex:

Examples

```
print(inter_min(inpt_l=list(c(0, 2, 4), c(0, 4), c(1, 2, 2.3))))

# [[1]]
# [1] 0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8
#[20] 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7
#[39] 3.8 3.9 4.0
#
# [[2]]
# [1] 0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8
#[20] 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7
#[39] 3.8 3.9 4.0
#
# [[3]]
# [1] 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3
```

<code>isnt_divisible</code>	<i>isnt_divisible</i>
-----------------------------	-----------------------

Description

Takes a vector as an input and returns all the elements that are not divisible by all choosen numbers from another vector.

Usage

```
isnt_divisible(inpt_v = c(), divisible_v = c())
```

Arguments

`inpt_v` is the input vector

`divisible_v` is the vector containing all the numbers that will try to divide those contained in `inpt_v`

Examples

```
print(isnt_divisible(inpt_v=c(1:111), divisible_v=c(2, 4, 5)))

# [1] 1 3 7 9 11 13 17 19 21 23 27 29 31 33 37 39 41 43 47
#[20] 49 51 53 57 59 61 63 67 69 71 73 77 79 81 83 87 89 91 93
#[39] 97 99 101 103 107 109 111
```

is_divisible	<i>is_divisible</i>
--------------	---------------------

Description

Takes a vector as an input and returns all the elements that are divisible by all choosen numbers from another vector.

Usage

```
is_divisible(inpt_v = c(), divisible_v = c())
```

Arguments

inpt_v	is the input vector
divisible_v	is the vector containing all the numbers that will try to divide those contained in inpt_v

Examples

```
print(is_divisible(inpt_v=c(1:111), divisible_v=c(2, 4, 5)))

#[1] 20 40 60 80 100
```

join_n_lvl	<i>join_n_lvl</i>
------------	-------------------

Description

Allow to see the progress of the multi-level joins of the different variables modalities. Here, multi-level joins is a type of join that usually needs a concatenation of two or more variables to make a key. But here, there is no need to proceed to a concatenation. See examples.

Usage

```
join_n_lvl(frst_datf, scd_datf, join_type = c(), lst_pair = list())
```

Arguments

frst_datf	is the first data.frame (table)
scd_datf	is the second data.frame (table)
join_type	is a vector containing all the join type ("left", "inner", "right") for each variable
lst_pair	is a lis of vectors. The vectors refers to a multi-level join. Each vector should have a length of 1. Each vector should have a name. Its name refers to the column name of multi-level variable and its value refers to the column name of the join variable.

Examples

```
datf3 <- data.frame("vil"=c("one", "one", "one", "two", "two", "two"),
                    "charac"=c(1, 2, 2, 1, 2, 2),
                    "rev"=c(1250, 1430, 970, 1630, 2231, 1875),
                    "vil2" = c("one", "one", "one", "two", "two", "two"),
                    "idl2" = c(1:6))
datf4 <- data.frame("vil"=c("one", "one", "one", "two", "two", "three"),
                    "charac"=c(1, 2, 2, 1, 1, 2),
                    "rev"=c(1.250, 1430, 970, 1630, 593, 456),
                    "vil2" = c("one", "one", "one", "two", "two", "two"),
                    "idl2" = c(2, 3, 1, 5, 5, 5))

print(join_n_lvl(frst_datf=datf3, scd_datf=datf4, lst_pair=list(c("charac" = "vil"), c("vil2" = "idl2")),
                join_type=c("inner", "left"))

[1] "pair: charac vil"
| | 0%
1
|= | 50%
2
|==| 100%
[1] "pair: vil2 idl2"
| | 0%
one
|= | 50%
two
|==| 100%

  main_id.x vil.x charac.x rev.x vil2.x idl2.x main_id.y vil.y charac.y rev.y
1  loneone1  one        1 1250   one     1    <NA> <NA>      NA   NA
2  2oneone2  one        2 1430   one     2    <NA> <NA>      NA   NA
3  2oneone3  one        2  970   one     3  2oneone3  one        2 1430
4  1twotwo4  two        1 1630   two     4    <NA> <NA>      NA   NA
  vil2.y idl2.y
1  <NA>     NA
2  <NA>     NA
3   one      3
4  <NA>     NA
```

leap_yr	<i>bsx_year</i>
---------	-----------------

Description

Get if the year is leap

Usage

```
leap_yr(year)
```

Arguments

year is the input year

Examples

```
print(leap_yr(year=2024))

#[1] TRUE
```

left_all	<i>left_all</i>
----------	-----------------

Description

Allow to apply left join on n dataframes, datatables, tibble

Usage

```
left_all(..., keep_val = FALSE, id_v)
```

Arguments

- ... are all the dataframes etc
- keep_val is if you want to keep the id column
- id_v is the common id of all the dataframes etc

Examples

```
datf1 <- data.frame(
  "id1"=c(1:5),
  "var1"=c("oui", "oui", "oui", "non", "non")
)

datf2 <- data.frame(
  "id1"=c(1, 2, 3, 7, 9),
  "var1"=c("oui2", "oui2", "oui2", "non2", "non2")
)

print(left_all(datf1, datf2, datf2, datf2, keep_val=FALSE, id_v="id1"))

id1 var1.x var1.y var1.x.x var1.y.y
1 1 oui oui2 oui2 oui2
2 2 oui oui2 oui2 oui2
3 3 oui oui2 oui2 oui2
4 4 non <NA> <NA> <NA>
5 5 non <NA> <NA> <NA># '
print(left_all(datf1, datf2, datf2, keep_val=FALSE, id_v="id1"))

id1 var1.x var1.y var1
1 1 oui oui2 oui2
2 2 oui oui2 oui2
3 3 oui oui2 oui2
4 4 non <NA> <NA>
5 5 non <NA> <NA>
```

letter_to_nb	<i>letter_to_nb</i>
--------------	---------------------

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)

Examples

```
print(letter_to_nb("rty"))
#[1] 12713
```

list_files	<i>list_files</i>
------------	-------------------

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

lst_flatnr	<i>lst_flatnr</i>
------------	-------------------

Description

Flatten a list to a vector

Usage

```
lst_flatnr(inpt_l)
```

Arguments

`inpt_l` is the input list

Examples

```
print(lst_flatnr(inpt_l=list(c(1, 2), c(5, 3), c(7, 2, 7))))
#[1] 1 2 5 3 7 2 7
```

match_by	<i>match_by</i>
----------	-----------------

Description

Allow to match elements by ids, see examples.

Usage

```
match_by(to_match_v = c(), inpt_v = c(), inpt_ids = c())
```

Arguments

<code>to_match_v</code>	is the vector containing all the elements to match
<code>inpt_v</code>	is the input vector containong all the elements that could contains the elements to match. Each elements is linked to an element from <code>inpt_ids</code> at any given index, see examples. So <code>inpt_v</code> and <code>inpt_ids</code> must be the same size
<code>inpt_ids</code>	is the vector containing all the ids for the elements in <code>inpt_v</code> . An element is linked to the id <code>x</code> is both are at the same index. So <code>inpt_v</code> and <code>inpt_ids</code> must be the same size

Examples

```
print(match_by(to_match_v = c("a"), inpt_v = c("a", "z", "a", "p", "p", "e", "e", "a"),
             inpt_ids = c(1, 1, 1, 2, 2, 3, 3, 3)))

[1] 1 8

print(match_by(to_match_v = c("a"), inpt_v = c("a", "z", "a", "a", "p", "e", "e", "a"),
             inpt_ids = c(1, 1, 1, 2, 2, 3, 3, 3)))

[1] 1 4 8

print(match_by(to_match_v = c("a", "e"), inpt_v = c("a", "z", "a", "a", "p", "e", "e", "a"),
             inpt_ids = c(1, 1, 1, 2, 2, 3, 3, 3)))

[1] 1 4 8 6
```

multitud	<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")) -> c("a1A", "b1A", "a2A", "b2A", "a1Z", ...)

Usage

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

Arguments

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

Examples

```
print(multitud(l=list(c("a", "b"), c("1", "2"), c("A", "Z", "E"), c("Q", "F")), sep_="/"))

#[1] "a/1/A/Q" "b/1/A/Q" "a/2/A/Q" "b/2/A/Q" "a/1/Z/Q" "b/1/Z/Q" "a/2/Z/Q"
#[8] "b/2/Z/Q" "a/1/E/Q" "b/1/E/Q" "a/2/E/Q" "b/2/E/Q" "a/1/A/F" "b/1/A/F"
#[15] "a/2/A/F" "b/2/A/F" "a/1/Z/F" "b/1/Z/F" "a/2/Z/F" "b/2/Z/F" "a/1/E/F"
#[22] "b/1/E/F" "a/2/E/F" "b/2/E/F"
```

nb2_follow	<i>nb2_follow</i>
------------	-------------------

Description

Allows to get the number and pattern of potential continuous pattern after an index of a vector, see examples

Usage

```
nb2_follow(inpt_v, inpt_idx, inpt_follow_v = c())
```

Arguments

`inpt_v` is the input vector
`inpt_idx` is the index
`inpt_follow_v` is a vector containing the patterns that are potentially just after `inpt_nb`

Examples

```
print(nb2_follow(inpt_v = c(1:12), inpt_idx = 4, inpt_follow_v = c(5)))
```

```
[1] 1 5
```

```
print(nb2_follow(inpt_v = c(1, "non", "oui", "oui", "oui", "nop", 5), inpt_idx = 2, inpt_follow_v = c(3, "oui")))
```

```
[1] "3" "oui"
```

nb_follow	<i>nb_follow</i>
-----------	------------------

Description

Allow to get the number of certain patterns that may be after an index of a vector, see examples

Usage

```
nb_follow(inpt_v, inpt_idx, inpt_follow_v = c())
```

Arguments

`inpt_v` is the input vector
`inpt_idx` is the index
`inpt_follow_v` is a vector containing all the potential patterns that may follow the element in the vector at the index `inpt_idx`

Examples

```
print(nb_follow(inpt_v = c(1:13), inpt_idx = 6, inpt_follow_v = c(5:9)))

[1] 3

print(nb_follow(inpt_v = c("ou", "nn", "pp", "zz", "zz", "ee", "pp"), inpt_idx = 2,
               inpt_follow_v = c("pp", "zz")))

[1] 3
```

nb_to_letter	<i>nb_to_letter</i>
--------------	---------------------

Description

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

Usage

```
nb_to_letter(x)
```

Arguments

`x` is the number of the column

Examples

```
print(nb_to_letter(12713))

#[1] "rty"
```

nestr_datfl	<i>nestr_datfl</i>
-------------	--------------------

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) does 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 set to NA.

Usage

```
nestr_datf1(  
  inptf_datf,  
  inptt_pos_datf,  
  nestr_datf,  
  yes_val = TRUE,  
  inptt_neg_datf = NA  
)
```

Arguments

- inptf_datf is the input dataframe (1b)
- inptt_pos_datf is the dataframe (2b) that corresponds to the (1a) values
- nestr_datf is the dataframe (2b) that has the special value (2a)
- yes_val is the special value (2a)
- inptt_neg_datf is the dataframe (4b) that has the (3a) values, defaults to NA

Examples

```
print(nestr_datf1(inptf_datf=data.frame(c(1, 2, 1), c(1, 5, 7)),  
  inptt_pos_datf=data.frame(c(4, 4, 3), c(2, 1, 2)),  
  inptt_neg_datf=data.frame(c(44, 44, 33), c(12, 12, 12)),  
  nestr_datf=data.frame(c(TRUE, FALSE, TRUE), c(FALSE, FALSE, TRUE)), yes_val=TRUE))  
  
#   c.1..2..1.   c.1..5..7.  
#1           4           12  
#2           44           12  
#3           3           2  
  
print(nestr_datf1(inptf_datf=data.frame(c(1, 2, 1), c(1, 5, 7)),  
  inptt_pos_datf=data.frame(c(4, 4, 3), c(2, 1, 2)),  
  inptt_neg_datf=NA,  
  nestr_datf=data.frame(c(TRUE, FALSE, TRUE), c(FALSE, FALSE, TRUE)), yes_val=TRUE))  
  
#   c.1..2..1.   c.1..5..7.  
#1           4           1  
#2           2           5  
#3           3           2
```

nestr_datf2	<i>nestr_datf2</i>
-------------	--------------------

Description

Allow to write a special value (1a) in the cells of a dataframe (1b) that correspond (row and column) to those 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_datf2(inptf_datf, rtn_pos, rtn_neg = NA, nestr_datf, yes_val = T)
```

Arguments

- inptf_datf is the input dataframe (1b)
- rtn_pos is the special value (1a)
- rtn_neg is the special value (3a)
- nestr_datf is the dataframe (2b)
- yes_val is the special value (2a)

Examples

```
print(nestr_datf2(inptf_datf=data.frame(c(1, 2, 1), c(1, 5, 7)), rtn_pos="yes",
rtn_neg="no", nestr_datf=data.frame(c(TRUE, FALSE, TRUE), c(FALSE, FALSE, TRUE)), yes_val=

# c.1..2..1. c.1..5..7.
#1          yes          no
#2          no           no
#3          yes          yes
```

nest_v	nest_v
--------	--------

Description

Nest two vectors according to the following parameters.

Usage

```
nest_v(f_v, t_v, step = 1, after = 1)
```

Arguments

- f_v is the vector that will welcome the nested vector t_v
- t_v is the imbricator vector
- step defines after how many elements of f_v the next element of t_v can be put in the output
- after defines after how many elements of f_v, the begining of t_v can be put

Examples

```
print(nest_v(f_v=c(1, 2, 3, 4, 5, 6), t_v=c("oui", "oui2", "oui3", "oui4", "oui5", "oui6"),
step=2, after=2))

#[1] "1" "2" "oui" "3" "4" "oui2" "5" "6" "oui3" "oui4"
```

new_ordered	<i>new_ordered</i>
-------------	--------------------

Description

Returns the indexes of elements contained in "w_v" according to "f_v"

Usage

```
new_ordered(f_v, w_v, nvr_here = NA)
```

Arguments

f_v	is the input vector
w_v	is the vector containing the elements that can be in f_v
nvr_here	is a value you are sure is not present in f_v

Examples

```
print(new_ordered(f_v=c("non", "non", "non", "oui"), w_v=c("oui", "non", "non")))
#[1] 4 1 2
```

non_unique	<i>non_unique</i>
------------	-------------------

Description

Returns the element that are not unique from the input vector

Usage

```
non_unique(inpt_v, occu = ">-1-")
```

Arguments

inpt_v	is the input vector containing the elements
occu	is a parameter that specifies the occurrence of the elements that must be returned, defaults to ">-1-" it means that the function will return all the elements that are present more than one time in inpt_v. The syntax is the following "comparaison_type-actual_value-". The comparaison type may be "==" or ">". Occu can also be a vector containing all the occurrence that must have the elements to be returned.

Examples

```
print(non_unique(inpt_v=c("oui", "oui", "non", "non", "peut", "peut1", "non")))
#[1] "oui" "non"

print(non_unique(inpt_v=c("oui", "oui", "non", "non", "peut", "peut1", "non"), occu=="==--2-"))
#[1] "oui"

print(non_unique(inpt_v=c("oui", "oui", "non", "non", "peut", "peut1", "non"), occu==">-2-"))
#[1] "non"

print(non_unique(inpt_v=c("oui", "oui", "non", "non", "peut", "peut1", "non"), occu=c(1, 2)))
#[1] "non"      "peut"      "peut1"
```

occu	<i>occu</i>
------	-------------

Description

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

Usage

```
occu(inpt_v)
```

Arguments

inpt_v the input dataframe

Examples

```
print(occu(inpt_v=c("oui", "peut", "peut", "non", "oui")))

#   var occurrence
#1  oui           2
#2  peut          2
#3  non           1
```

pairs_findr	<i>pairs_findr</i>
-------------	--------------------

Description

Takes a character as input and detect the pairs of pattern, like the parenthesis pairs if the pattern is "(" and then ")"

Usage

```
pairs_findr(inpt, ptrn1 = "(", ptrn2 = ")")
```

Arguments

inpt	is the input character
ptrn1	is the first pattern encountered in the pair
ptrn2	is the second pattern in the pair

Examples

```
print(pairs_findr(inpt="ze+(yu*45/(jk+zz)*(o()p))-(re*(rt+qs)-fg)"))

[[1]]
[1] 4 1 1 3 2 2 3 4 6 5 5 6

[[2]]
[1] 4 11 17 19 21 22 24 25 27 31 37 41
```

pairs_findr_merger	<i>pairs_findr_merger</i>
--------------------	---------------------------

Description

Takes two different outputs from pairs_findr and merge them. Can be useful when the pairs consists in different patterns, for example one output from the pairs_findr function with ptrn1 = "(" and ptrn2 = ")", and a second output from the pairs_findr function with ptrn1 = "" and ptrn2 = "".

Usage

```
pairs_findr_merger(lst1 = list(), lst2 = list())
```

Arguments

lst1	is the first output from pairs findr function
lst2	is the second output from pairs findr function

Examples

```

print(pairs_findr_merger(lst1=list(c(1, 2, 3, 3, 2, 1), c(3, 4, 5, 7, 8, 9)),
                        lst2=list(c(1, 1), c(1, 2))))

[[1]]
[1] 1 1 2 3 4 4 3 2

[[2]]
[1] 1 2 3 4 5 7 8 9

print(pairs_findr_merger(lst1=list(c(1, 2, 3, 3, 2, 1), c(3, 4, 5, 7, 8, 9)),
                        lst2=list(c(1, 1), c(1, 11))))

[[1]]
[1] 1 2 3 4 4 3 2 1

[[2]]
[1] 1 3 4 5 7 8 9 11

print(pairs_findr_merger(lst1=list(c(1, 2, 3, 3, 2, 1), c(3, 4, 5, 8, 10, 11)),
                        lst2=list(c(4, 4), c(6, 7))))

[[1]]
[1] 1 2 3 4 4 3 2 1

[[2]]
[1] 3 4 5 6 7 8 10 11

print(pairs_findr_merger(lst1=list(c(1, 2, 3, 3, 2, 1), c(3, 4, 5, 7, 10, 11)),
                        lst2=list(c(4, 4), c(8, 9))))

[[1]]
[1] 1 2 3 3 4 4 2 1

[[2]]
[1] 3 4 5 7 8 9 10 11

print(pairs_findr_merger(lst1=list(c(1, 2, 3, 3, 2, 1), c(3, 4, 5, 7, 10, 11)),
                        lst2=list(c(4, 4), c(18, 19))))

[[1]]
[1] 1 2 3 3 2 1 4 4

[[2]]
[1] 3 4 5 7 10 11 18 19

print(pairs_findr_merger(lst1 = list(c(1, 1, 2, 2, 3, 3), c(1, 25, 26, 32, 33, 38)),
                        lst2 = list(c(1, 1, 2, 2, 3, 3), c(7, 11, 13, 17, 19, 24))))

[[1]]
[1] 1 2 2 3 3 4 4 1 5 5 6 6

[[2]]
[1] 1 7 11 13 17 19 24 25 26 32 33 38

print(pairs_findr_merger(lst1 = list(c(1, 1, 2, 2, 3, 3), c(2, 7, 9, 10, 11, 15)),

```

```

lst2 = list(c(3, 2, 1, 1, 2, 3, 4, 4), c(1, 17, 18, 22, 23, 29,

[[1]]
[1] 6 5 1 1 2 2 3 3 4 4 5 6 7 7

[[2]]
[1] 1 2 7 9 10 11 15 17 18 22 23 29 35 40

print(pairs_findr_merger(lst1 = list(c(1, 1), c(22, 23)),
                           lst2 = list(c(1, 1, 2, 2), c(3, 21, 27, 32))))

[[1]]
[1] 1 1 2 2 3 3

[[2]]
[1] 3 21 22 23 27 32

```

pairs_insertr

pairs_insertr

Description

Takes a character representing an arbitrary condition (like ReGeX for example) or an information (to a parser for example), vectors containing all the pair of pattern that potentially surrounds condition (flagged_pair_v and corr_v), and a vector containing all the conjunction character, as input and returns the character with all or some of the condition surrounded by the pair characters. See examples. All the pair characters are inserted according to the closest pair they found prioritizing those found next to the condition and on the same depth-level and , if not found, the pair found at the n+1 depth-level.

Usage

```

pairs_insertr(
  inpt,
  algo_used = c(1:3),
  flagged_pair_v = c(")", "["),
  corr_v = c("(", "["),
  flagged_conj_v = c("&", "|")
)

```

Arguments

inpt	is the input character representing an arbitrary condition, like ReGex for example, or information to a parser for example
algo_used	is a vector containing one or more of the 3 algorithms used. The first algorithm will simply put the pair of parenthesis at the condition surrounded and/or after a character flagged (in flagged_conj_v) as a conjunction. The second algorithm will put parenthesis at the condition that are located after other conditions that are surrounded by a pair. The third algorithm will put a pair at all the condition, it is very powerfull but takes a longer time. See examples and make experience to see which combination of algorithm(s) is the most efficient for your use case.

flagged_pair_v
is a vector containing all the first character of the pairs

corr_v
is a vector containing all the last character of the pairs

flagged_conj_v
is a vector containing all the conjunction character

Examples

```
print(pairs_insertr(inpt = "([one]|two|twob)three(four)", algo_used = c(1)))

[1] "([one]| [two]| [twob])three(four) "
```

```
print(pairs_insertr(inpt = "(one|[two]|twob)three(four)", algo_used = c(2)))

[1] "(one|[two]| [twob]) (three) (four) "
```

```
print(pairs_insertr(inpt = "(oneA|[one]|two|twob)three(four)", algo_used = c(1, 2)))

[1] "(oneA|[one]| [two]| [twob]) (three) (four) "
```

```
print(pairs_insertr(inpt = "(oneA|[one]|two|twob)three(four)", algo_used = c(1, 2, 3)))

[1] "([oneA]| [one]| [two]| [twob]) (three) (four) "
```

```
print(pairs_insertr(inpt = "(oneA|[one]|two|twob)three(four)", algo_used = c(3)))

[1] "([oneA]| [one]| (two) | (twob)) (three) (four) "
```

```
print(pairs_insertr(inpt = "(oneA|[one]|two|twob)three((four))", algo_used = c(3)))

[1] "([oneA]| [(one)] | (two) | (twob)) (three) ((four)) "
```

pairs_insertr2	<i>pairs_insertr2</i>
----------------	-----------------------

Description

Takes a character representing an arbitrary condition (like ReGeX for example) or an information (to a parser for example), vectors containing all the pair of pattern that potentially surrounds condition (flagged_pair_v and corr_v), and a vector containing all the conjunction character, as input and returns the character with all or some of the condition surrounded by the pair characters. See examples. All the pair characters are inserted according to the closest pair they found prioritizing those found next to the condition and on the same depth-level and , if not found, the pair found at the n+1 depth-level.

Usage

```
pairs_insertr2(
  inpt,
  algo_used = c(1:3),
  flagged_pair_v = c(")", "["),
  corr_v = c("(", "["),
```

```

    flagged_conj_v = c("&", "|"),
    method = c("(", ")")
)

```

Arguments

<code>inpt</code>	is the input character representing an arbitrary condition, like ReGex for example, or information to a parser for example
<code>algo_used</code>	is a vector containing one or more of the 3 algorithms used. The first algorithm will simply put the pair of parenthesis at the condition surrounded and/or after a character flagged (in <code>flagged_conj_v</code>) as a conjunction. The second algorithm will put parenthesis at the condition that are located after other conditions that are surrounded by a pair. The third algorithm will put a pair at all the condition, it is very powerfull but takes a longer time. See examples and make experience to see which combination of algorithm(s) is the most efficient for your use case.
<code>flagged_pair_v</code>	is a vector containing all the first character of the pairs
<code>corr_v</code>	is a vector containing all the last character of the pairs
<code>flagged_conj_v</code>	is a vector containing all the conjunction character
<code>method</code>	is length 2 vector containing as a first index, the first character of the pair inserted, and at the last index, the second and last character of the pair

Examples

```

print(pairs_insertr2(inpt = "([one]|two|twob)three(four)", algo_used = c(1), method = c(
[1] "([one]|(two)|(twob))three(four)"

print(pairs_insertr2(inpt = "([one]|two|twob)three(four)", algo_used = c(1), method = c(
[1] "([one]|[two]|[twob])three(four)"

print(pairs_insertr2(inpt = "(oneA|[one]|two|twob)three(four)", algo_used = c(1, 2)))
[1] "(oneA|[one]|(two)|(twob))(three)(four)"

print(pairs_insertr2(inpt = "(oneA|[one]|two|twob)three(four)", algo_used = c(1, 2), meth
    flagged_pair_v = c(")", "[", "#"), corr_v = c("(", "[", "-")))
[1] "(oneA|[one]|-two#|-twob#)-three#(four)"

print(pairs_insertr2(inpt = "(oneA|[one]|two|twob)three(four)", algo_used = c(1, 2, 3)))
[1] "((oneA)|[one]|(two)|(twob))(three)(four)"

print(pairs_insertr2(inpt = "(oneA|[one]|two|twob)three(four)", algo_used = c(3), method
[1] "([oneA]|[one]|[two]|[twob])[three](four)"

print(pairs_insertr2(inpt = "(oneA|[one]|two|twob)three((four))", algo_used = c(3)))
[1] "((oneA)|[one]|(two)|(twob))(three)((four))"

```

paste_datf	<i>paste_datf</i>
------------	-------------------

Description

Return a vector composed of pasted elements from the input dataframe at the same index.

Usage

```
paste_datf(inpt_datf, sep = "")
```

Arguments

inpt_datf	is the input dataframe
sep	is the separator between pasted elements, defaults to ""

Examples

```
print(paste_datf(inpt_datf=data.frame(c(1, 2, 1), c(33, 22, 55))))
#[1] "133" "222" "155"
```

pattern_generator	<i>pattern_generator</i>
-------------------	--------------------------

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

Examples

```
print(pattern_generator(base_="oui", from_=c("er", "re", "ere"), nb=1, hmn=3))

# [1] "ouier" "ouire" "ouier"

print(pattern_generator(base_="oui", from_=c("er", "re", "ere"), nb=2, hmn=3, after=0, se

# [1] "er-re-o-u-i" "ere-re-o-u-i" "ere-er-o-u-i"
```

pattern_gettr

pattern_gettr

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 contained in the vector that is being 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. REGEX can also be used as pattern

Usage

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

Arguments

word_	is the vector containing the patterns
vct	is the vector being searched for patterns
occ	a vector containing the occurrence of the pattern in word_ to be matched in the vector being searched, if the occurrence is 2 for the nth pattern in word_ and only one occurrence is found in vct so no pattern will be matched, put "forever" to no longer depend on the occurrence 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 pattern 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`

Examples

```
print(pattern_gettr(word=c("oui", "non", "erer"), vct=c("oui", "oui", "non", "oui",
  "non", "opp", "opp", "erer", "non", "ok"), occ=c(1, 2, 1),
  btwn=c("no", "yes", "no"), strict=c("no", "no", "ee")))

#[[1]]
#[1] 1 5 8
#
#[[2]]
#[1] "oui" "non" "opp" "opp" "erer"
```

pattern_tuning *pattern_tuning*

Description

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

Usage

```
pattern_tuning(
  pattn,
  spe_nb,
  spe_l,
  exclude_type,
  hmn = 1,
  rg = c(1, nchar(pattn))
)
```

Arguments

`pattn` 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

`hmh` 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

Examples

```
print(pattern_tuning(pattn="oui", spe_nb=2, spe_l=c("e", "r", "T", "O"), exclude_type="o")

#[1] "orT" "oTr" "oOi"
```

power_to_char	<i>power_to_char</i>
---------------	----------------------

Description

Convert a scientific number to a string representing normally the number.

Usage

```
power_to_char(inpt_v = c())
```

Arguments

inpt_v	is the input vector containing scientific number, but also other elements that won't be taken in count
--------	--

Examples

```
print(power_to_char(inpt_v = c(22 * 10000000, 12, 9 * 0.0000002)))
[1] "22000000000" "12" "000000.18"
```

pre_to_post_idx	<i>pre_to_post_idx</i>
-----------------	------------------------

Description

Allow to convert indexes from a pre-vector to post-indexes based on a current vector, see examples

Usage

```
pre_to_post_idx(inpt_v = c(), inpt_idx = c(1:length(inppt_v)))
```

Arguments

inpt_v	is the new vector
inpt_idx	is the vector containing the pre-indexes

Examples

```
print(pre_to_post_idx(inpt_v = c("oui", "no", "eee"), inpt_idx = c(1:8)))
[1] 1 1 1 2 2 3 3 3
As if the first vector was c("o", "u", "i", "n", "o", "e", "e", "e")
```

ptrn_switchr

*ptrn_switchr***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 swiched 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

```
print(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)))

#[1] "11-01-2022" "14-01-2022" "21-01-2022" "01-01-2022"

print(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"))

#[1] "ee-01-11" "ee-01-14" "ee-01-21" "ee-01-01"
```

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_l,
  depth = "max",
  sep = "-",
  default_val = "0",
  add_sep = TRUE,
  end_ = TRUE
)
```

Arguments

<code>inpt_l</code>	is the input vector
<code>depth</code>	is the number (numeric) of separator it will keep as a result. To keep the number of separator of the element that has the minimum amount of separator do <code>depth="min"</code> and <code>depth="max"</code> (character) for the opposite. This value defaults to "max".
<code>sep</code>	is the separator of the pattern, defaults to "-"
<code>default_val</code>	is the default val that will be placed between the separator, defaults to "00"
<code>add_sep</code>	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.
<code>end_</code>	is if the default_val will be added at the end or at the beginning of each element that lacks length compared to depth

Examples

```
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)

#[1] "2012-06-22" "2012-06-23" "2022-09-12" "2022-00-00"

ptrn_twkr(inpt_l=v, depth=1, sep="-", default_val="00", add_sep=TRUE)

#[1] "2012-06" "2012-06" "2022-09" "2022-00"

ptrn_twkr(inpt_l=v, depth="max", sep="-", default_val="00", add_sep=TRUE, end_=FALSE)

#[1] "2012-06-22" "2012-06-23" "2022-09-12" "00-00-2022"
```

rearangr_v

rearangr_v

Description

Rearranges a vector "w_v" according to another vector "inpt_v". inpt_v contains a sequence of number. inpt_v and w_v have the same size and their indexes are related. The output will be a vector containing all the elements of w_v rearranges in descending or ascending order according to inpt_v

Usage

```
rearangr_v(inpt_v, w_v, how = "increasing")
```

Arguments

inpt_v	is the vector that contains the sequence of number
w_v	is the vector containing the elements related to inpt_v
how	is the way the elements of w_v will be outputted according to if inpt_v will be sorted ascendigly or descendigly

Examples

```
print(rearangr_v(inpt_v=c(23, 21, 56), w_v=c("oui", "peut", "non"), how="decreasing"))
#[1] "non" "oui" "peut"
```

```
regex_spe_detect      regex_spe_detect
```

Description

Takes a character as input and returns its regex-friendly character for R.

Usage

```
regex_spe_detect(inpt)
```

Arguments

inpt	the input character
------	---------------------

Examples

```
print(regex_spe_detect("o"))
[1] "o"

print(regex_spe_detect("("))
[1] "\\("

print(regex_spe_detect("tr(o)m"))
[1] "tr\\(o\\)m"

print(regex_spe_detect(inpt="fggfg[fggf]fgfg(vg?fgfgf.gf)"))
[1] "fggfg\\[fggf\\]fgfg\\(vg\\?fgfgf\\.gf\\)"
```

regroupr

*regroupr***Description**

Allow to sort data like "c(X1/Y1/Z1, X2/Y1/Z2, ...)" to what you want. For example it can be to "c(X1/Y1/Z1, X1/Y1/Z2, ...)"

Usage

```
regroupr(
  inpt_v,
  sep_ = "-",
  order = c(1:length(unlist(strsplit(x = inpt_v[1], split = sep_)))),
  l_order = NA
)
```

Arguments

<code>inpt_v</code>	is the input vector containing all the data you want to sort in a specific way. All the sub-elements should be separated by a unique separator such as "-" or "/"
<code>sep_</code>	is the unique separator separating the sub-elements in each elements of <code>inpt_v</code>
<code>order</code>	is a vector describing the way the elements should be sorted. For example if you want this dataset "c(X1/Y1/Z1, X2/Y1/Z2, ...)" to be sorted by the last element you should have <code>order=c(3:1)</code> , for example, and it should returns something like this <code>c(X1/Y1/Z1, X2/Y1/Z1, X1/Y2/Z1, ...)</code> assuming you have only two values for X.
<code>l_order</code>	is a list containing the vectors of values you want to order first for each sub-elements

Examples

```
vec <- multitud(l=list(c("a", "b"), c("1", "2"), c("A", "Z", "E"), c("Q", "F")), sep_="/")

print(vec)

# [1] "a/1/A/Q" "b/1/A/Q" "a/2/A/Q" "b/2/A/Q" "a/1/Z/Q" "b/1/Z/Q" "a/2/Z/Q"
# [8] "b/2/Z/Q" "a/1/E/Q" "b/1/E/Q" "a/2/E/Q" "b/2/E/Q" "a/1/A/F" "b/1/A/F"
# [15] "a/2/A/F" "b/2/A/F" "a/1/Z/F" "b/1/Z/F" "a/2/Z/F" "b/2/Z/F" "a/1/E/F"
# [22] "b/1/E/F" "a/2/E/F" "b/2/E/F"

print(regroupr(inpt_v=vec, sep_="/"))

# [1] "a/1/1/1" "a/1/2/2" "a/1/3/3" "a/1/4/4" "a/1/5/5" "a/1/6/6"
# [7] "a/2/7/7" "a/2/8/8" "a/2/9/9" "a/2/10/10" "a/2/11/11" "a/2/12/12"
# [13] "b/1/13/13" "b/1/14/14" "b/1/15/15" "b/1/16/16" "b/1/17/17" "b/1/18/18"
# [19] "b/2/19/19" "b/2/20/20" "b/2/21/21" "b/2/22/22" "b/2/23/23" "b/2/24/24"

vec <- vec[-2]

print(regroupr(inpt_v=vec, sep_="/"))
```

```
# [1] "a/1/1/1" "a/1/2/2" "a/1/3/3" "a/1/4/4" "a/1/5/5" "a/1/6/6"
# [7] "a/2/7/7" "a/2/8/8" "a/2/9/9" "a/2/10/10" "a/2/11/11" "a/2/12/12"
#[13] "b/1/13/13" "b/1/14/14" "b/1/15/15" "b/1/16/16" "b/1/17/17" "b/2/18/18"
#[19] "b/2/19/19" "b/2/20/20" "b/2/21/21" "b/2/22/22" "b/2/23/23"

print(regrouppr(inpt_v=vec, sep_="/", order=c(4:1)))

#[1] "1/1/A/Q" "2/2/A/Q" "3/3/A/Q" "4/4/A/Q" "5/5/Z/Q" "6/6/Z/Q"
# [7] "7/7/Z/Q" "8/8/Z/Q" "9/9/E/Q" "10/10/E/Q" "11/11/E/Q" "12/12/E/Q"
#[13] "13/13/A/F" "14/14/A/F" "15/15/A/F" "16/16/A/F" "17/17/Z/F" "18/18/Z/F"
#[19] "19/19/Z/F" "20/20/Z/F" "21/21/E/F" "22/22/E/F" "23/23/E/F" "24/24/E/F"
```

r_print

*r_print***Description**

Allow to print vector elements in one row.

Usage

```
r_print(inpt_v, sep_ = "and", begn = "This is", end = ", voila!")
```

Arguments

inpt_v	is the input vector
sep_	is the separator between each elements
begn	is the character put at the beginning of the print
end	is the character put at the end of the print

Examples

```
print(r_print(inpt_v=c(1:33)))

#[1] "This is  1 and 2 and 3 and 4 and 5 and 6 and 7 and 8 and 9 and 10 and 11 and 12 and
#and 14 and 15 and 16 and 17 and 18 and 19 and 20 and 21 and 22 and 23 and 24 and 25 and
#and 27 and 28 and 29 and 30 and 31 and 32 and 33 and , voila!"
```

save_untl

*save_untl***Description**

Get the elements in each vector from a list that are located before certain values

Usage

```
save_untl(inpt_l = list(), val_to_stop_v = c())
```

Arguments

`inpt_l` is the input list containing all the vectors

`val_to_stop_v` is a vector containing the values that marks the end of the vectors returned in the returned list, see the examples

Examples

```
print(save_until(inpt_l=list(c(1:4), c(1, 1, 3, 4), c(1, 2, 4, 3)), val_to_stop_v=c(3, 4))

#[[1]]
#[1] 1 2
#
#[[2]]
#[1] 1 1
#
#[[3]]
#[1] 1 2

print(save_until(inpt_l=list(c(1:4), c(1, 1, 3, 4), c(1, 2, 4, 3)), val_to_stop_v=c(3)))

#[[1]]
#[1] 1 2
#
#[[2]]
#[1] 1 1
#
#[[3]]
#[1] 1 2 4
```

see_datf

see_datf

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_datf(
  datf,
  condition_l,
  val_l,
  conjunction_l = c(),
  rt_val = TRUE,
  f_val = FALSE
)
```


Arguments

<code>datf</code>	is the input dataframe
<code>condition_l</code>	is the vector of the possible conditions (" <code>==</code> ", " <code>></code> ", " <code><</code> ", " <code>!=</code> ", " <code>%%</code> ", " <code>reg</code> ", " <code>not_reg</code> ", " <code>sup_nchar</code> ", " <code>inf_nchar</code> ", " <code>nchar</code> ") (equal to some elements in a vector, greater than, lower than, not equal to, is divisible by, the regex condition returns TRUE, the regex condition returns FALSE, the length of the elements is strictly superior to X, the length of the element is strictly inferior to X, the length of the element is equal to one element in a vector), you can put the same condition n times.
<code>val_l</code>	is the list of vectors containing the values or vector of values related to <code>condition_l</code> (so the vector of values has to be placed in the same order)
<code>conjunction_l</code>	contains the and or conjunctions, so if the length of <code>condition_l</code> is equal to 3, there will be 2 conjunctions. If the length of <code>conjunction_l</code> is inferior to the length of <code>condition_l</code> minus 1, <code>conjunction_l</code> will match its goal length value with its last argument as the last arguments. For example, <code>c("&", "l", "&")</code> with a goal length value of 5 -> <code>c("&", "l", "&", "&", "&")</code>
<code>rt_val</code>	is a special value cell returned when the conditions are respected
<code>f_val</code>	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.

Examples

```
datf1 <- data.frame(c(1, 2, 4), c("a", "a", "zu"))

print(see_datf(datf=datf1, condition_l=c("nchar"), val_l=list(c(1))))

#      X1      X2
#1 TRUE   TRUE
#2 TRUE   TRUE
#3 TRUE FALSE

print(see_datf(datf=datf1, condition_l=c("=="), val_l=list(c("a", 1))))

#      X1      X2
#1 TRUE   TRUE
#2 FALSE  TRUE
#3 FALSE FALSE

print(see_datf(datf=datf1, condition_l=c("nchar"), val_l=list(c(1, 2))))

#      X1      X2
#1 TRUE   TRUE
#2 TRUE   TRUE
#3 TRUE   TRUE

print(see_datf(datf=datf1, condition_l=c("not_reg"), val_l=list("[a-z]")))
```

```
#      X1      X2
#1 TRUE FALSE
#2 TRUE FALSE
#3 TRUE FALSE
```

see_diff

see_diff

Description

Output the opposite of intersect(a, b). Already seen at: <https://stackoverflow.com/questions/19797954/function-to-find-symmetric-difference-opposite-of-intersection-in-r>

Usage

```
see_diff(vec1 = c(), vec2 = c())
```

Arguments

vec1	is the first vector
vec2	is the second vector

Examples

```
print(see_diff(c(1:7), c(4:12)))

[1] 1 2 3 8 9 10 11 12
```

see_diff_all

see_diff_all

Description

Allow to perform the opposite of intersect function to n vectors.

Usage

```
see_diff_all(...)
```

Arguments

...	are all the input vectors
-----	---------------------------

Examples

```
vec1 <- c(3:6)
vec2 <- c(1:8)
vec3 <- c(12:16)

print(see_diff_all(vec1, vec2))

[1] 1 2 7 8

print(see_diff_all(vec1, vec2, vec3))

[1] 3 4 5 6 1 2 7 8 12 13 14 15 16
```

see_file

see_file

Description

Allow to get the filename or its extension

Usage

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

Arguments

string_	is the input string
index_ext	is the occurrence 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

Examples

```
print(see_file(string_="file.abc.xyz"))

#[1] ".abc.xyz"

print(see_file(string_="file.abc.xyz", ext=FALSE))

#[1] "file"

print(see_file(string_="file.abc.xyz", index_ext=2))

#[1] ".xyz"
```

see_idx

see_idx

Description

Returns a boolean vector to see if a set of elements contained in v1 is also contained in another vector (v2)

Usage

```
see_idx(v1, v2)
```

Arguments

v1	is the first vector
v2	is the second vector

Examples

```
print(see_idx(v1=c("oui", "non", "peut", "oo"), v2=c("oui", "peut", "oui")))

#[1]  TRUE FALSE  TRUE  FALSE
```

see_inside

see_inside

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 = FALSE
)
```

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 associantied with, do the following:

see_mode

see_mode

Description

Allow to get the mode of a vector, see examples.

Usage

```
see_mode(inpt_v = c())
```

Arguments

inpt_v is the input vector

Examples

```
print(see_mode(inpt_v = c(1, 1, 2, 2, 2, 3, 1, 2)))
[1] 2

print(see_mode(inpt_v = c(1, 1, 2, 2, 2, 3, 1)))
[1] 1
```

sort_date

sort_date

Description

Allow to sort any vector containing a date, from any kind of format (my, hdmy, ymd ...), see examples.

Usage

```
sort_date(inpt_v, frmt, sep_ = "-", ascending = FALSE, give = "value")
```

Arguments

inpt_v	is the input vector containing all the dates
frmt	is the format of the dates, (any combinaison of letters "s" for second, "n", for minute, "h" for hour, "d" for day, "m" for month and "y" for year)
sep_	is the separator used for the dates
ascending	is the used to sort the dates
give	takes only two values "index" or "value", if give == "index", the function will output the index of sorted dates from inpt_v, if give == "value", the function will output the value, it means directly the sorted dates in inpt_v, see examples

Examples

```
print(sort_date(inpt_v = c("01-11-2025", "08-08-1922", "12-04-1966")
, frmt = "dmy", sep_ = "-", ascending = TRUE, give = "value"))

[1] "08-08-1922" "12-04-1966" "01-11-2025"

print(sort_date(inpt_v = c("01-11-2025", "08-08-1922", "12-04-1966")
, frmt = "dmy", sep_ = "-", ascending = FALSE, give = "value"))

[1] "01-11-2025" "12-04-1966" "08-08-1922"

print(sort_date(inpt_v = c("01-11-2025", "08-08-1922", "12-04-1966")
, frmt = "dmy", sep_ = "-", ascending = TRUE, give = "index"))

[1] 2 3 1

print(sort_date(inpt_v = c("22-01-11-2025", "11-12-04-1966", "12-12-04-1966")
, frmt = "hdmy", sep_ = "-", ascending = FALSE, give = "value"))

[1] "22-01-11-2025" "12-12-04-1966" "11-12-04-1966"

print(sort_date(inpt_v = c("03-22-01-11-2025", "56-11-12-04-1966", "23-12-12-04-1966")
, frmt = "nhdmy", sep_ = "-", ascending = FALSE, give = "value"))

[1] "03-22-01-11-2025" "23-12-12-04-1966" "56-11-12-04-1966"
```

str_remove_untl *str_remove_untl*

Description

Allow to remove pattern within elements from a vector precisely according to their occurrence.

Usage

```
str_remove_untl(
  inpt_v,
  ptrn_rm_v = c(),
  untl = list(c(1)),
  nvr_following_ptrn = "NA"
)
```

Arguments

`inpt_v` is the input vector

`ptrn_rm_v` is a vector containing the patterns to remove

`untl` is a list containing the occurrence(s) of each pattern to remove in the elements.

`nvr_following_ptrn`
 is a sequel of characters that you are sure is not present in any of the elements in `inpt_v`

Examples

```
vec <- c("45/56-/98mm", "45/56-/98mm", "45/56-/98-mm//")

print(str_remove_untl(inpt_v=vec, ptrn_rm_v=c("-", "/"), untl=list(c("max"), c(1))))

#[1] "4556/98mm"      "4556/98mm"      "4556/98mm//"
```

```
print(str_remove_untl(inpt_v=vec, ptrn_rm_v=c("-", "/"), untl=list(c("max"), c(1:2))))

#[1] "455698mm"       "455698mm"       "455698mm//"
```

```
print(str_remove_untl(inpt_v=vec[1], ptrn_rm_v=c("-", "/"), untl=c("max")))

#[1] "455698mm" "455698mm" "455698mm"
```

sub_mult *sub_mult*

Description

Performs a sub operation with n patterns and replacements.

Usage

```
sub_mult(inpt_v, pattern_v = c(), replacement_v = c())
```

Arguments

`inpt_v` is a vector containing all the elements that contains expressions to be substituted

`pattern_v` is a vector containing all the patterns to be substituted in any elements of `inpt_v`

`replacement_v` is a vector containing the expression that are going to substitute those provided by `pattern_v`

Examples

```
print(sub_mult(inpt_v = c("X and Y programming languages are great", "More X, more X!"),
               pattern_v = c("X", "Y", "Z"),
               replacement_v = c("C", "R", "GO")))

[1] "C and R programming languages are great"
[2] "More C, more X!"
```

swipr

swipr

Description

Returns an ordered dataframes according to the elements order given. The input dataframe has two columns, one with the ids which can be bonded to multiple elements in the other column.

Usage

```
swipr(inpt_datf, how_to = c(), id_w = 2, id_ids = 1)
```

Arguments

`inpt_datf` is the input dataframe

`how_to` is a vector containing the elements in the order wanted

`id_w` is the column number or the column name of the elements

`id_ids` is the column number or the column name of the ids

Examples

```
datf <- data.frame("col1"=c("Af", "Al", "Al", "Al", "Arg", "Arg", "Arg", "Arm", "Arm"),
                  "col2"=c("B", "B", "G", "S", "B", "S", "G", "B", "G"))

print(swipr(inpt_datf=datf, how_to=c("G", "S", "B")))
```

```
#  col1 col2
#1   Af    B
#2   Al    G
```



```

#3   Al   S
#4   Al   B
#5  Arg   G
#6  Arg   S
#7  Arg   B
#8  Arm   G
#9  Arm   B

datf <- data.frame("col1"=c("Af", "Arg", "Al", "Al", "Arg", "Arg", "Arg", "Arm", "Arm"),
                   "col2"=c("B", "B", "G", "S", "B", "S", "G", "B", "G"))

print(swipr(inpt_datf=datf, how_to=c("G", "S", "B"), id_w="col2", id_ids="col1"))

#   col1 col2
#1   Af   B
#2  Arg   G
#3   Al   G
#4   Al   S
#5  Arg   S
#6  Arg   B
#7  Arg   B
#8  Arm   G
#9  Arm   B

```

test_order	<i>same_order</i>
------------	-------------------

Description

Allow to get if two vectors have their commun elements in the same order, see examples

Usage

```
test_order(inpt_v_from, inpt_v_test)
```

Arguments

is the vector we want to test if its commun element with *inpt_v_from* are in the same order

Examples

```

print(test_order(inpt_v_from = c(1:8), inpt_v_test = c(1, 4)))

[1] TRUE

print(test_order(inpt_v_from = c(1:8), inpt_v_test = c(1, 4, 2)))

[1] FALSE

```

union_all	<i>union_all</i>
-----------	------------------

Description

Allow to perform a union function to n vectors.

Usage

```
union_all(...)
```

Arguments

... are all the input vectors

Examples

```
print(union_all(c(1, 2), c(3, 4), c(1:8)))
[1] 1 2 3 4 5 6 7 8

print(union_all(c(1, 2), c(3, 4), c(7:8)))
[1] 1 2 3 4 7 8
```

unique_datf	<i>unique_datf</i>
-------------	--------------------

Description

Returns the input dataframe with the unique columns or rows.

Usage

```
unique_datf(inpt_datf, col = FALSE)
```

Arguments

inpt_datf	is the input dataframe
col	is a parameter that specifies if the dataframe returned should have unique columns or rows, defaults to F, so the dataframe returned by default has unique rows

Examples

```

datf1 <- data.frame(c(1, 2, 1, 3), c("a", "z", "a", "p"))

print(unique_datf(inpt_datf=datf1))

#   c.1..2..1..3. c..a....z....a....p..
#1           1           a
#2           2           z
#4           3           p

datf1 <- data.frame(c(1, 2, 1, 3), c("a", "z", "a", "p"), c(1, 2, 1, 3))

print(unique_datf(inpt_datf=datf1, col=TRUE))

#   cur_v cur_v
#1     1     a
#2     2     z
#3     1     a
#4     3     p

```

unique_ltr_from_v *unique_ltr_from_v*

Description

Returns the unique characters contained in all the elements from an input vector "inpt_v"

Usage

```
unique_ltr_from_v(inpt_v, keep_v = c("?", "!", ":", "&", ",", ".", letters))
```

Arguments

`inpt_v` is the input vector containing all the elements

`keep_v` is the vector containing all the characters that the elements in `inpt_v` may contain

Examples

```

print(unique_ltr_from_v(inpt_v=c("bonjour", "lpoerc", "nonnour", "bonnour", "nonjour", "a
# [1] "b" "o" "n" "j" "u" "r" "l" "p" "e" "c" "a" "v" "i"

```

unique_pos	<i>unique_pos</i>
------------	-------------------

Description

Allow to find the first index of the unique values from a vector.

Usage

```
unique_pos(vec)
```

Arguments

vec is the input vector

Examples

```
print(unique_pos(vec=c(3, 4, 3, 5, 6)))  
  
#[1] 1 2 4 5
```

unique_total	<i>unique_total</i>
--------------	---------------------

Description

Returns a vector with the total amount of occurrences for each element in the input vector. The occurrences of each element follow the same order as the unique function does, see examples

Usage

```
unique_total(inpt_v = c())
```

Arguments

inpt_v is the input vector containing all the elements

Examples

```
print(unique_total(inpt_v = c(1:12, 1)))  
  
[1] 2 1 1 1 1 1 1 1 1 1 1 1  
  
print(unique_total(inpt_v = c(1:12, 1, 11, 11)))  
  
[1] 2 1 1 1 1 1 1 1 1 1 3 1  
  
vec <- c(1:12, 1, 11, 11)  
names(vec) <- c(1:15)  
print(unique_total(inpt_v = vec))
```

```

1  2  3  4  5  6  7  8  9 10 11 12
2  1  1  1  1  1  1  1  1  1  3  1

```

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

Examples

```

print(until_stnl(vec1=c(1, 3, 2), goal=56))

# [1] 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3
#[39] 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3

```

val_replacer

val_replacer

Description

Allow to replace value from dataframe to another one.

Usage

```
val_replacer(datf, val_replaced, val_replacor = TRUE)
```

Arguments

datf 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

Examples

```
print(val_replacer(datf=data.frame(c(1, "oo4", TRUE, FALSE), c(TRUE, FALSE, TRUE, TRUE)),
  val_replaced=c(TRUE), val_replacor="NA"))

# c.1...oo4...T..F. c.T..F..T..T.
#1          1          NA
#2          oo4        FALSE
#3          NA          NA
#4         FALSE        NA
```

vector_replacor	<i>vector_replacor</i>
-----------------	------------------------

Description

Allow to replace certain values in a vector.

Usage

```
vector_replacor(inpt_v = c(), sus_val = c(), rpl_val = c(), grep_ = FALSE)
```

Arguments

- inpt_v is the input vector
- sus_val is a vector containing all the values that will be replaced
- rpl_val is a vector containing the value of the elements to be replaced (sus_val), so sus_val and rpl_val should be the same size
- grep_ is if the elements in sus_val should be equal to the elements to replace in inpt_v or if they just should found in the elements

Examples

```
print(vector_replacor(inpt_v=c(1:15), sus_val=c(3, 6, 8, 12),
  rpl_val=c("oui", "non", "e", "a")))

# [1] "1" "2" "oui" "4" "5" "non" "7" "e" "9" "10" "11" "a"
#[13] "13" "14" "15"

print(vector_replacor(inpt_v=c("non", "zez", "pp a ftf", "fdatfd", "assistance",
  "ert", "repas", "repos"),
  sus_val=c("pp", "as", "re"), rpl_val=c("oui", "non", "zz"), grep_=TRUE))

#[1] "non" "zez" "oui" "fdatfd" "non" "ert" "non" "zz"
```

vec_in_datf	<i>vec_in_datf</i>
-------------	--------------------

Description

Allow to get if a vector is in a dataframe. Returns the row and column of the vector in the dataframe if the vector is contained in the dataframe.

Usage

```
vec_in_datf(
  inpt_datf,
  inpt_vec = c(),
  coeff = 0,
  stop_untl = 1,
  conventional = FALSE
)
```

Arguments

<code>inpt_datf</code>	is the input dataframe
<code>inpt_vec</code>	is the vector that may be in the input dataframe
<code>coeff</code>	is the "slope coefficient" of <code>inpt_vec</code>
<code>stop_untl</code>	is the maximum number of the input vector the function returns, if in the dataframe
<code>conventional</code>	is if a positive slope coefficient means that the vector goes upward or downward

Examples

```
datf1 <- data.frame(c(1:5), c(5:1), c("a", "z", "z", "z", "a"))

print(datf1)

#   c.1.5. c.5.1. c..a....z....z....z....a..
#1      1      5                      a
#2      2      4                      z
#3      3      3                      z
#4      4      2                      z
#5      5      1                      a

print(vec_in_datf(inpt_datf=datf1, inpt_vec=c(5, 4, "z"), coeff=1))

#NULL

print(vec_in_datf(inpt_datf=datf1, inpt_vec=c(5, 2, "z"), coeff=1))

#[1] 5 1

print(vec_in_datf(inpt_datf=datf1, inpt_vec=c(3, "z"), coeff=1))

#[1] 3 2

print(vec_in_datf(inpt_datf=datf1, inpt_vec=c(4, "z"), coeff=-1))
```

```
#[1] 2 2

print(vec_in_datf(inpt_datf=datf1, inpt_vec=c(2, 3, "z"), coeff=-1))

#[1] 2 1

print(vec_in_datf(inpt_datf=datf1, inpt_vec=c(5, 2, "z"), coeff=-1, conventional=TRUE))

#[1] 5 1

datf1[4, 2] <- 1

print(vec_in_datf(inpt_datf=datf1, inpt_vec=c(1, "z"), coeff=-1, conventional=TRUE, stop_

#[1] 4 2 5 2
```

vlookup_datf	<i>vlookup_datf</i>
--------------	---------------------

Description

Allow to perform a vlookup on a dataframe

Usage

```
vlookup_datf(datf, v_id, col_id = 1, included_col_id = "yes")
```

Arguments

- datf 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)

Examples

```
datf1 <- data.frame(c("az1", "az3", "az4", "az2"), c(1:4), c(4:1))

print(vlookup_datf(datf=datf1, v_id=c("az1", "az2", "az3", "az4"))

#   c..az1....az3....az4....az2.. c.1.4. c.4.1.
#2                az1          1          4
#4                az2          4          1
#21               az3          2          3
#3                az4          3          2
```

wider_datf	<i>wider_datf</i>
------------	-------------------

Description

Takes a dataframe as an input and the column to split according to a separator.

Usage

```
wider_datf(inpt_datf, col_to_splt = c(), sep_ = "-")
```

Arguments

`inpt_datf` is the input dataframe

`col_to_splt` is a vector containing the number or the colnames of the columns to split according to a separator

`sep_` is the separator of the elements to split to new columns in the input dataframe

Examples

```
datf1 <- data.frame(c(1:5), c("o-y", "hj-yy", "er-y", "k-ll", "ooo-mm"), c(5:1))

datf2 <- data.frame("col1"=c(1:5), "col2"=c("o-y", "hj-yy", "er-y", "k-ll", "ooo-mm"))

print(wider_datf(inpt_datf=datf1, col_to_splt=c(2), sep_="-"))

#      pre_datf X.o.  X.y.
#o-y    1      "o"   "y"  5
#hj-yy  2      "hj"  "yy"  4
#er-y   3      "er"   "y"  3
#k-ll   4      "k"   "ll"  2
#ooo-mm 5      "ooo" "mm"  1

print(wider_datf(inpt_datf=datf2, col_to_splt=c("col2"), sep_="-"))

#      pre_datf X.o.  X.y.
#o-y    1      "o"   "y"
#hj-yy  2      "hj"  "yy"
#er-y   3      "er"   "y"
#k-ll   4      "k"   "ll"
#ooo-mm 5      "ooo" "mm"
```

Index

all_stat, [3](#)
any_join_datf, [5](#)
appndr, [7](#)

better_match, [8](#)
better_split, [8](#)
better_sub, [9](#)
better_sub_mult, [10](#)

can_be_num, [11](#)
closer_ptrn, [11](#)
closer_ptrn_adv, [14](#)
clusterizer_v, [15](#)
colins_datf, [17](#)
converter_date, [18](#)
converter_format, [19](#)
cost_and_taxes, [20](#)
cut_v, [21](#)
cutr_v, [21](#)

data_gen, [22](#)
data_meshup, [24](#)
date_addr, [25](#)
date_converter_reverse, [26](#)
dcr_untl, [27](#)
dcr_val, [28](#)
depth_pairs_findr, [28](#)
diff_datf, [29](#)

equalizer_v, [29](#)
extrt_only_v, [30](#)

fillr, [31](#)
fixer_nest_v, [31](#)
fold_rec, [32](#)
fold_rec2, [32](#)
format_date, [33](#)

geo_min, [33](#)
get_rec, [34](#)
globe, [34](#)
grep_all, [35](#)
grep_all2, [36](#)
groupr_datf, [36](#)
gsub_mult, [37](#)

id_keepr, [38](#)
incr_fillr, [39](#)
inner_all, [40](#)
insert_datf, [40](#)
inter_max, [43](#)
inter_min, [44](#)
intersect_all, [41](#)
intersect_mod, [42](#)
is_divisible, [46](#)
isnt_divisible, [45](#)

join_n_lvl, [46](#)

leap_yr, [47](#)
left_all, [48](#)
letter_to_nb, [49](#)
list_files, [49](#)
lst_flatnr, [50](#)

match_by, [50](#)
multitud, [51](#)

nb2_follow, [52](#)
nb_follow, [52](#)
nb_to_letter, [53](#)
nest_v, [55](#)
nestr_datf1, [53](#)
nestr_datf2, [54](#)
new_ordered, [56](#)
non_unique, [56](#)

occu, [57](#)

pairs_findr, [58](#)
pairs_findr_merger, [58](#)
pairs_insertr, [60](#)
pairs_insertr2, [61](#)
paste_datf, [63](#)
pattern_generator, [63](#)
pattern_gettr, [64](#)
pattern_tuning, [65](#)
power_to_char, [66](#)
pre_to_post_idx, [66](#)
ptrn_switchr, [67](#)
ptrn_twkr, [67](#)

`r_print`, 71
`rearangr_v`, 68
`regex_spe_detect`, 69
`regroupr`, 70

`save_until`, 71
`see_datf`, 72
`see_diff`, 74
`see_diff_all`, 74
`see_file`, 75
`see_idx`, 76
`see_inside`, 76
`see_mode`, 77
`sort_date`, 78
`str_remove_until`, 79
`sub_mult`, 79
`swipr`, 80

`test_order`, 81

`union_all`, 82
`unique_datf`, 82
`unique_ltr_from_v`, 83
`unique_pos`, 84
`unique_total`, 84
`until_stnl`, 85

`val_replacer`, 85
`vec_in_datf`, 87
`vector_replacor`, 86
`vlookup_datf`, 88

`wider_datf`, 89