

# Package ‘edm1.df’

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**Title** Set of functions for dataframe manipulation

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**Description** Provides multiple functions to manipulate data in dataframe according to different algorithms for different goals.

**License** GPL (==3)

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stringi,  
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## Contents

colins_datf . . . . .	2
cumulated_rows . . . . .	3
cumulated_rows_na . . . . .	3
cut_v . . . . .	4
diff_datf . . . . .	5
groupr_datf . . . . .	5
historic_sequence . . . . .	6
id_keepr . . . . .	8
insert_datf . . . . .	9
intersect_mod . . . . .	10
nestr_datf1 . . . . .	11
nestr_datf2 . . . . .	12
paste_datf . . . . .	13
see_datf . . . . .	13
swipr . . . . .	15
unique_datf . . . . .	16
val_replacer . . . . .	17
vec_in_datf . . . . .	17
vlookup_datf . . . . .	19
wider_datf . . . . .	19

<b>Index</b>	<b>21</b>
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colins_datf	<i>colins_datf</i>
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## 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
```

---

cumulated_rows	<i>cumulated_rows</i>
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---

### Description

Output a vector of size that equals to the rows number of the input dataframe, with TRUE value at the indices corresponding to the row where at least a cell of any column is equal to one of the values inputed in values\_v

### Usage

```
cumulated_rows(inpt_datf, values_v = c())
```

### Arguments

inpt_datf	is the input data.frame
values_v	is a vector containing all the values that a cell has to equal to return a TRUE value in the output vector at the index corresponding to the row of the cell

### Examples

```
datf_teste <- data.frame(c(1:10), c(10:1))

print(datf_teste)

   c.1.10. c.10.1.
1         1      10
2         2       9
3         3       8
4         4       7
5         5       6
6         6       5
7         7       4
8         8       3
9         9       2
10        10       1

print(cumulated_rows(inpt_datf = datf_teste, values_v = c(2, 3)))

[1]  FALSE TRUE TRUE  FALSE  FALSE  FALSE  FALSE TRUE TRUE  FALSE
```

---

cumulated_rows_na	<i>cumulated_rows_na</i>
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---

### Description

Output a vector of size that equals to the rows number of the input dataframe, with TRUE value at the indices corresponding to the row where at least a cell of any column is equal to NA.

Usage

```
cumulated_rows_na(inpt_datf)
```

Arguments

```
inpt_datf      is the input data.frame
```

Examples

```
datf_teste <- data.frame(c(1, 2, 3, 4, 5, NA, 7), c(10, 9, 8, NA, 7, 6, NA))

print(datf_teste)

  c.1..2..3..4..5..NA..7. c.10..9..8..NA..7..6..NA.
1                        1                        10
2                        2                         9
3                        3                         8
4                        4                        NA
5                        5                         7
6                       NA                         6
7                        7                        NA

print(cumulated_rows_na(inpt_datf = datf_teste))

[1] FALSE FALSE FALSE  TRUE FALSE  TRUE  TRUE
```

---

cut_v	<i>cut_v</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"
```

---

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
```

---

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("%%"), 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> +++  +

```

---

historic\_sequence    *historic\_sequence*

---

**Description**

Allow to perform a pivot wider on a sequential dataset (here the type is dataframe), each variable will be duplicated in a column to show the value to this variable at  $n - 1$  for each individual, see examples.

**Usage**

```
historic_sequence(inpt_datf, bf_ = 1)
```

**Arguments**

`inpt_datf` is the input dataframe  
`bf_` is the number of previous value of the individual it will search for, see examples

**Examples**

```
set.seed(123)
var1 <- round(runif(n = 14, min = 100, max = 122))
set.seed(123)
var2 <- round(runif(n = 14, min = 14, max = 20))

datf <- data.frame("ids" = c(20, 20, 20, 20, 19, 19, 19, 18, 18, 18, 18,
                             17, 17, 17),
                  "individual" = c("oui", "non", "peut1", "peut2",
                                   "oui", "peut1", "peut2"),
                  "var1" = var1,
                  "var2" = var2)

print(datf)
```

	ids	individual	var1	var2
1	20	oui	106	16
2	20	non	117	19
3	20	peut1	109	16
4	20	peut2	119	19
5	19	oui	121	20
6	19	peut1	101	14
7	19	peut2	112	17
8	18	oui	120	19
9	18	non	112	17
10	18	peut1	110	17
11	18	peut2	121	20
12	17	oui	110	17
13	17	peut1	115	18
14	17	peut2	113	17

```
historic_sequence(inpt_datf = datf, bf_ = 2)
```

	id_seq	individual	var1-1	var1-2	var2-1	var2-2
1	20	oui	121	120	20	19
2	20	non	NA	112	NA	17
3	20	peut1	101	110	14	17
4	20	peut2	112	121	17	20
5	19	oui	120	110	19	17
6	19	peut1	110	115	17	18
7	19	peut2	121	113	20	17

```
historic_sequence(inpt_datf = datf, bf_ = 3)
```

	id_seq	individual	var1-1	var1-2	var1-3	var2-1	var2-2	var2-3
1	20	oui	121	120	110	20	19	17
2	20	non	NA	112	NA	NA	17	NA
3	20	peut1	101	110	115	14	17	18

4      20      peut2      112      121      113      17      20      17

---

id\_keepr

*id\_keepr\_datf*

---

## Description

Allow to get the original indexes after multiple equality comparison 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
```



---

insert_datf	<i>edml insert_datf</i>
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---

## 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

<code>datf_in</code>	is the dataframe that will be inserted
<code>datf_ins</code>	is the dataset to be inserted
<code>ins_loc</code>	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_mod	<i>intersect_mod</i>
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---

### 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))
```

```
  col1 col2
```

```

1  oui    1
2  oui    2
3  oui    3
4  oui    4
5  oui    5
6  oui    6

```

```

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

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

```

```

      col1 col2
8     non    3
9     non    4
10    non    5
3     oui    3
4     oui    4
5     oui    5

```

---

nestr\_datf1

nestr\_datf1

---

## 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=TRUE))

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

```
#3      yes      yes
```

---

```
paste_datf      paste_datf
```

---

### 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"
```

---

```
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>&gt;</code> ", " <code>&lt;</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("&amp;", "l", "&amp;")</code> with a goal length value of 5 -> <code>c("&amp;", "l", "&amp;", "&amp;", "&amp;")</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
```

---

swipr

*swipr*


---

## Description

Returns an ordered dataframes according to the elements order given. The input datafram 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

<code>inpt_datf</code>	is the input dataframe
<code>how_to</code>	is a vector containing the elements in the order wanted
<code>id_w</code>	is the column number or the column name of the elements
<code>id_ids</code>	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", "A
      "col2"=c("B", "B", "G", "S", "B", "S", "G", "B", "G", "B"))

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
10	Al	B

---

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(datf1)

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

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(datf1)

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

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

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



---

val_replacer	<i>val_replacer</i>
--------------	---------------------

---

### 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
```

---

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**

`inpt_datf` is the input dataframe  
`inpt_vec` is the vector that may be in the input dataframe  
`coeff` is the "slope coefficient" of `inpt_vec`  
`stop_until` is the maximum number of the input vector the function returns, if in the dataframe  
`conventional` 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

colins\_datf, [2](#)  
cumulated\_rows, [3](#)  
cumulated\_rows\_na, [3](#)  
cut\_v, [4](#)  
  
diff\_datf, [5](#)  
  
groupr\_datf, [5](#)  
  
historic\_sequence, [6](#)  
  
id\_keepr, [8](#)  
insert\_datf, [9](#)  
intersect\_mod, [10](#)  
  
nestr\_datf1, [11](#)  
nestr\_datf2, [12](#)  
  
paste\_datf, [13](#)  
  
see\_datf, [13](#)  
swipr, [15](#)  
  
unique\_datf, [16](#)  
  
val\_replacer, [17](#)  
vec\_in\_datf, [17](#)  
vlookup\_datf, [19](#)  
  
wider\_datf, [19](#)