Package 'edm1.vector'

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Title Set of functions for vector manipulation

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Description Provides a set of functions to manipulate data directly in vectors according to a lot of custom algorythms.

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Imports stringr,
stringi

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`appndr` *appndr*

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_split *better_split*

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_unique *better_unique*

Description

Returns the element that are not unique from the input vector

Usage

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

Arguments

inpt_v	is the input vector containing the elements
occu	is a parameter that specifies the occurence 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 synthax is the following "comparaison_type-actual_value-". The comparaison type may be "==" or ">" or "<". Occu can also be a vector containing all the occurence that must have the elements to be returned.

Examples

```
print(better_unique(inpt_v=c("oui", "oui", "non", "non", "peut", "peut1", "non")))

#[1] "oui" "non"

print(better_unique(inpt_v=c("oui", "oui", "non", "non", "peut", "peut1", "non"), occu="=

#[1] "oui"

print(better_unique(inpt_v=c("oui", "oui", "non", "non", "peut", "peut1", "non"), occu=">

#[1] "non"

print(better_unique(inpt_v=c("oui", "oui", "non", "non", "peut", "peut1", "non"), occu=c(

#[1] "non"   "peut"  "peut1"

print(better_unique(inpt_v = c("a", "b", "c", "c"), occu = "==-1-"))

[1] "a" "b"

print(better_unique(inpt_v = c("a", "b", "c", "c"), occu = "<-2-"))

[1] "a" "b"
```

---

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

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

Examples

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

#[[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", "aurevoi
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` *closer_ptrn_adv*

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 controling 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 farest 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"
```

`cutr_v` *cutr_v*

Description

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

Usage

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

Arguments

`inpt_v`	is the input vector
`untl`	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, untl="min"))

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

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

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

`cut_v` *v_to_datf*

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_meshup *data_meshup*

Description

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

Usage

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

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
```

elements_equalifier *elements_equalifier*

Description

Takes an input vector with elements that have different occurence, and output a vector with all these elements with the same number of occurence, see examples

Usage

```
elements_equalifier(inpt_v, untl = 3)
```

Arguments

inpt_v	is the input vector
untl	is how many times each elements will be in the output vector

Examples

```
print(elements_equalifier(letters, untl = 2))
```

```
 [1] "a" "b" "c" "d" "e" "f" "g" "h" "i" "j" "k" "l" "m" "n" "o" "p" "q" "r" "s"
[20] "t" "u" "v" "w" "x" "y" "z" "a" "b" "c" "d" "e" "f" "g" "h" "i" "j" "k" "l"
[39] "m" "n" "o" "p" "q" "r" "s" "t" "u" "v" "w" "x" "y" "z"
```

```
print(elements_equalifier(c(letters, letters[-1]), untl = 2))
```

```
 [1] "a" "b" "c" "d" "e" "f" "g" "h" "i" "j" "k" "l" "m" "n" "o" "p" "q" "r" "s"
[20] "t" "u" "v" "w" "x" "y" "z" "b" "c" "d" "e" "f" "g" "h" "i" "j" "k" "l" "m"
[39] "n" "o" "p" "q" "r" "s" "t" "u" "v" "w" "x" "y" "z" "a"
```

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

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

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???????????"
```

---

extrt_only_v *extrt_only_v*

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

inpt_v	is the input vector
pttrn_v	is the vector contining all the elements that can be in inpt_v

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
```

---

id_keepr *id_keepr_datf*

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

inpt_datf	is the input dataframe
col_v	is the vector containing the column numbers or names to be compared to their respective elements in "el_v"
el_v	is a vector containing the elements that may be contained in their respective column described in "col_v"
rstr_l	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

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

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"
```

---

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

inpt_l	is the input list
max_	is a value you are sure is the minimum step value of all the sub-lists
get_lst	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 algorythmn 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", "substract", "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
```

---

lst_flatnr *lst_flatnr*

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 *match_by*

Description

Allow to match elements by ids, see examples.

Usage

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

Arguments

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

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 *nb2_follow*

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
# we have 1 times the pattern 5 just after the 4nth index of inpt_v

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

[1] "3"   "oui"

# we have 3 times continuously the pattern 'oui' and 0 times the pattern 5 just after the

print(nb2_follow(inpt_v = c(1, "non", "5", "5", "5", "nop", 5), inpt_idx = 2, inpt_follow

[1] "3" "5"
```

nb_follow *nb_follow*

Description

Allow to get the number of certains patterns that may be after an index of a vector continuously, 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
```

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 imbriquator 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 *new_ordered*

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
```

---

occu *occu*

Description

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

Usage

```
occu(inpt_v)
```

Arguments

inpt_v	the input dataframe

Examples

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

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

---

old_to_new_idx *old_to_new_idx*

Description

Allow to convert index of elements in a vector `inpt_v` to index of an vector type 1:sum(nchar(inpt_v)), see examples

Usage

```
old_to_new_idx(inpt_v = c())
```

Arguments

`inpt_v`	is the input vector

Examples

```
print(old_to_new_idx(inpt_v = c("oui", "no", "eeee")))

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

---

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 containded in the vector that is beeing explored by the function are present like this c("pattern_searched", "other", ..., "pattern_searched") and not as c("other_thing pattern_searched other_thing", "other", ..., "pattern_searched other_thing") Second case: It is the opposite to the first case, it means that if the pattern is partially present like in the first position and the last, it will be considered like a matched pattern. 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 occurence of the pattern in word_ to be matched in the vector being searched, if the occurence is 2 for the nth pattern in word_ and only one occurence is found in vct so no pattern will be matched, put "forever" to no longer depend on the occurence for the associated pattern
strict	a vector containing the "strict" condition for each nth vector in word_ ("strict" is the string to activate this option)
btwn	is a vector containing the condition ("yes" to activate this option) meaning that if "yes", all elements between two matched patern in vct will be returned , so the patterns you enter in word_ have to be in the order you think it will appear in vct
all_in_word	is a value (default set to "yes", "no" to activate this option) that, if activated, won't authorized a previous matched pattern to be matched again
notatall	is a string that you are sure is not present in vct

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

Arguments

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

Examples

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

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

---

pre_to_post_idx *pre_to_post_idx*

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 swicthed 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

inpt_l	is the input vector
depth	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 depth="min" and depth="max" (character) for the opposite. This value defaults to "max".
sep	is the separator of the pattern, defaults to "-"
default_val	is the default val that will be placed between the separator, defaults to "00"
add_sep	defaults to TRUE. If set to FALSE, it will remove the separator for the patterns that are included in the interval between the depth amount of separator and the actual number of separator of the element.
end_	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

Reanranges 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 rearanges in descending or asending order according to inpt_v

Usage

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

Arguments

inpt_v	is the vector that contains the sequance 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 outputed according to if inpt_v will be sorted ascendigly or descendingly

Examples

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

#[1] "non"  "oui"  "peut"
```

---

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/Y1/21, X1/Y1/Z2, ...)"

Usage

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

Arguments

inpt_v	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 "/"
sep_	is the unique separator separating the sub-elements in each elements of inpt_v
order	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 order=c(3:1), for example, and it should returns something like this c(X1/Y1/Z1, X2/Y1/Z1, X1/Y2/Z1, ...) assuming you have only two values for X.
l_order	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(regroupr(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_untl(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_untl(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_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_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_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
```

`str_remove_untl` *str_remove_untl*

Description

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

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 occurence(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"
```

---

successive_diff *successive_diff*

Description

Allow to see the difference beteen the suxxessive elements of an numeric vector

Usage

```
successive_diff(inpt_v)
```

Arguments

inpt_v	is the input numeric vector

Examples

```
print(successive_diff(c(1:10)))

[1] 1 1 1 1 1

print(successive_diff(c(1:11, 13, 19)))

[1] 1 1 1 1 1 2 6
```

---

test_order *same_order*

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
```

---

to_unique *to_unique*

Description

Allow to transform a vector containing elements that have more than 1 occurence to a vector with only uniques elements.

Usage

```
to_unique(inpt_v, distinct_type = "suffix", distinct_val = "number", sep = "-")
```

Arguments

inpt_v	is the input vectors
distinct_type	takes two values: suffix or prefix
distinct_val	takes two values: number (unique sequence of number to differencfiate each value) or letter (unique sequence of letters to differenciate each value)

Examples

```
print(to_unique(inpt_v = c("a", "a", "e", "a", "i", "i"),
                distinct_type = "suffix",
                distinct_val = "number",
                sep = "-"))

[1] "a-1" "a-2" "e"   "a-3" "i-1" "i-2"

print(to_unique(inpt_v = c("a", "a", "e", "a", "i", "i"),
                distinct_type = "suffix",
                distinct_val = "letter",
                sep = "-"))

[1] "a-a" "a-b" "e"   "a-c" "i-a" "i-b"

print(to_unique(inpt_v = c("a", "a", "e", "a", "i", "i"),
                distinct_type = "prefix",
```

```
                distinct_val = "number",
                sep = "/"))

[1] "1/a" "2/a" "e"   "3/a" "1/i" "2/i"

print(to_unique(inpt_v = c("a", "a", "e", "a", "i", "i"),
                distinct_type = "prefix",
                distinct_val = "letter",
                sep = "_"))

[1] "a_a" "b_a" "e"   "c_a" "a_i" "b_i"
```

---

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 *unique_pos*

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` *unique_total*

Description

Returns a vector with the total amount of occurences for each element in the input vector. The occurences 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 2 1 3
#[39] 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3
```

---

vector_replacor *vector_replacor*

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"
```

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