Package 'edm1'

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Title Set of functions bringing new feature to common functions

Version 2.0.0.0

Description Provides the ability to perform split operation with multiple elements in input and multiple split pattern, a sub operation with multiple replacor patterns for multiple replaced patterns..., match by another element from another vector...

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Imports stringr,
stringi

Contents

`better_match` *better_match*

Description

Allow to get the nth element matched in a vector

Usage

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

Arguments

inpt_v	is the input vector
ptrn	is the pattern to be matched
untl	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, untl=1))

#[1] 3

print(better_match(inpt_v=c(1:12, 3, 4, 33, 3), ptrn=3, untl=5))

#[1]  3 13 16

print(better_match(inpt_v=c(1:12, 3, 4, 33, 3), ptrn=c(3, 4), untl=5))

[1]  3 13 16  4 14

print(better_match(inpt_v=c(1:12, 3, 4, 33, 3), ptrn=c(3, 4), untl=c(1, 5)))

[1]  3  4 14
```

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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"
```

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better_sub *better_sub*

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 substituate 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",
                  untl = c("max", 3)))

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

`better_sub_mult` *better_sub_mult*

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(),
  untl_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 substituate those provided by pattern_v
`untl_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"),
                  untl = 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"),
                   untl = c("max", 3)))

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

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"
```

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 contaning 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 algorythm, 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 contaning 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
```

`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 substituate 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!"
```

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
```

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 substituate 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!"
```

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union_keep *union_keep*

Description

Performs a union operation keeping the number of elements of all input vectors, see examples

Usage

```
union_keep(...)
```

Arguments

...	are all the input vectors

Examples

```
print(union_keep(c("a", "ee", "ee"), c("p", "p", "a", "i"), c("a", "a", "z")))
```

```
[1] "a"  "ee" "ee" "p"  "p"  "i"  "z"
```

```
print(union_keep(c("a", "ee", "ee"), c("p", "p", "a", "i")))
```

```
[1] "a"  "ee" "ee" "p"  "p"  "i"
```

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