Package 'set'

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Type Package

Title Set Operation

Version 1.2

Author Zhi Jin, Jing Zhang

Maintainer Zhi Jin <nalanchongxuan@163.com>

Description More easy to get intersection, union or complementary set and combinations.

License GPL-3

Encoding UTF-8

LazyData true

RoxygenNote 7.1.1

Imports do

URL https://github.com/yikeshu0611/set

BugReports https://github.com/yikeshu0611/set/issues

NeedsCompilation no

Repository CRAN

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and *Get Intersection Set for Sets*

Description

Get intersection set for sets.

Usage

```
and(...)

a %and% b
```

Arguments

...	one or more objects
a	one object
b	the other object

Value

intersection elements

Examples

```
A <- c("a","b","c")
B <- c("a","b","c","d")
C <- c("a","e","h")
and(A, B)
and(A, B, C)
A <- c("a","b","c")
B <- c("a","b","c","d")
C <- c("a","e","h")
A %and% B
A %and% B %and% C
```

combination *Combination of Characters or Vectors*

Description

Combination of characters or vectors.

Usage

```
combination(...)
```

Arguments

...	one or more vectors

Value

binary combination

Examples

```
A <- c("a","b","c")
combination(A)

B <- c("a","b","c","d")
C <- c("a","e","h")
D <- c("a","b","e")
E <- c("a","c")
combination(A,B)
combination(A,B,C)
combination(A,B,C,D)
combination(A,B,C,D,E)
```

---

grep *Grep for vectors*

Description

Grep for vectors

Usage

```
grep_or(x, patterns)

grep_and(x, patterns)

grep_not_and(x, patterns)

grep_not_or(x, patterns)
```

Arguments

x	vectors with one or more characters
patterns	vectors with one or more characters

Value

vectors

Examples

```
x=c('a12','a','b')
patterns=c('b','1')
grep_or(x,patterns)
x=c('a12','a1','b')
patterns=c('a','1')
grep_and(x,patterns)
x=c('a12','a','b')
patterns=c('a','1')
grep_not_and(x,patterns)
x=c('a12','a','b')
patterns=c('a','1')
grep_not_or(x,patterns)
```

---

grepl *Grepl for vectors*

Description

Grepl for vectors

Usage

```
grepl_or(x, patterns)

grepl_and(x, patterns)

grepl_not_and(x, patterns)

grepl_not_or(x, patterns)
```

Arguments

x	vectors with one or more characters
patterns	vectors with one or more characters

Value

vectors

Examples

```
x=c('a12','a','b')
patterns=c('b','1')
grepl_or(x,patterns)
x=c('a12','a1','b')
patterns=c('a','1')
grepl_and(x,patterns)
```

```
x=c('a12','a','b')
patterns=c('a','1')
grepl_not_and(x,patterns)
x=c('a12','a','b')
patterns=c('a','1')
grepl_not_or(x,patterns)
```

---

not *Get Elements only Existed in Dataset a*

Description

Get elements only existed in dataset a.

Usage

```
not(...)

a %not% b
```

Arguments

...	one or more objects
a	one object
b	the other object

Value

elements only existed in dataset a

Examples

```
A <- c("a","b")
B <- c("a","b","c","d")
not(B, A)

E <- c('d')
not(B, A, E)
A <- c("a","b","c")
B <- c("a","b","c","d")
B %not% A
```

or *Get Union Set for Sets*

Description

Get union set for sets.

Usage

```
or(...)

a %or% b
```

Arguments

...	one or more objects
a	one object
b	the other object

Value

union elements

Examples

```
A <- c("a","b","c")
B <- c("a","b","c","d")
C <- c("a","e","h")
or(A, B)
or(A, B, C)
A <- c("a","b","c")
B <- c("a","b","c","d")
C <- c("a","e","h")
A %or% B
A %and% B %or% C
```

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