# Package 'RVerbalExpressions'

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rx

Constructs a Verbal Expression

# Description

Add this to the beginning of every verbal expression chain. This simply returns an empty character vector so that the next step in the chain can provide a value without explicitly writing value = "blah".

# Usage

rx()

rx\_alnum 3

# **Examples**

```
rx()
# this
rx() %>%
    rx_find("cat") %>%
    rx_anything() %>%
    rx_find("dog")
# instead of
rx_find(value = "cat") %>%
    rx_anything() %>%
    rx_find("dog")
```

rx\_alnum

Match alphanumeric characters.

# Description

Matches both letters (case insensitive) and numbers (a through z and 0 through 9).

# Usage

```
rx_alnum(.data = NULL, inverse = FALSE)
```

# **Arguments**

.data Expression to append, typically pulled from the pipe %>%

inverse Invert match behavior, defaults to FALSE (match alphanumeric characters). Use

TRUE to *not* match alphanumeric characters.

```
rx_alnum()
rx_alnum(inverse = TRUE)

# create an expression
x <- rx_alnum()

# create input
string <- "Apple 1!"

# extract match
regmatches(string, gregexpr(x, string))</pre>
```

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rx\_alpha

Match alphabetic characters.

# Description

Matches letters (case insensitive) only.

#### Usage

```
rx_alpha(.data = NULL, inverse = FALSE)
```

# **Arguments**

.data Expression to append, typically pulled from the pipe %>%

inverse Invert match behavior, defaults to FALSE (match alphabetic characters). Use

TRUE to not match alphabetic characters.

# **Examples**

```
rx_alpha()
rx_alpha(inverse = TRUE)

# create an expression
x <- rx_alpha()

# create input
string <- "Apple 1!"

# extract match
regmatches(string, gregexpr(x, string))</pre>
```

rx\_anything

Match any character(s) any (including zero) number of times.

#### **Description**

This expression will match everything except line breaks using the *dot* and the *star*. The Dot . is a *metacharacter* and the Star \* is a *quantifier*. When combined the expression is considered greedy because it will match everything (except line breaks) 0 or more times.

# Usage

```
rx_anything(.data = NULL, mode = "greedy")
```

rx\_anything\_but 5

# **Arguments**

.data Expression to append, typically pulled from the pipe %>%

mode Matching mode (greedy (default) orlazy). Lazy matching stops after the first

match, greedy continues searching until end of the string and then back-tracks

to the last match.

#### References

```
Dot: https://www.regular-expressions.info/dot.html
Star Quantifier: https://www.regular-expressions.info/repeat.html
Greedy and Lazy Quantifiers: https://www.regular-expressions.info/repeat.html#greedy
```

#### **Examples**

```
rx_anything()
rx_anything(mode = "lazy")

x <- rx() %>%
    rx_start_of_line() %>%
    rx_anything() %>%
    rx_end_of_line()

grepl(x, "anything!") # this should be true
grepl(rx_anything(), "") # this should be true
grepl(rx_something(), "") # this should be false
```

rx\_anything\_but

Match any character(s) except these any (including zero) number of times.

#### **Description**

This expression will match everything except whatever characters the user specifies in the value parameter. It does this by adding a caret symbol ^ at the beginning of a character set []. Typing a caret after the opening square bracket negates the character class. The result is that the character class matches any character that is not in the character class. Unlike the dot, negated character classes also match (invisible) line break characters. If you don't want a negated character class to match line breaks, you need to include the line break characters in the class.

#### Usage

```
rx_anything_but(.data = NULL, value, mode = "greedy")
```

fx\_any\_of

#### **Arguments**

.data Expression to append, typically pulled from the pipe %>%

value Characters to not match

mode Matching mode (greedy (default) orlazy). Lazy matching stops after the first

match, greedy continues searching until end of the string and then back-tracks

to the last match.

#### References

Character Class: https://www.regular-expressions.info/charclass.html

# **Examples**

```
rx_anything_but(value = "abc")
```

rx\_any\_of

Match any of these characters exactly once.

#### **Description**

Constructs a *character class*, sometimes called a *character set*. With this particular expression, you can tell the regex engine to match only one out of several characters. It does this by simply placing the characters you want to match between square brackets.

# Usage

```
rx_any_of(.data = NULL, value)
```

#### **Arguments**

.data Expression to append, typically pulled from the pipe %>%

value Expression to optionally match

#### References

Character class: https://www.regular-expressions.info/charclass.html

```
rx_any_of(value = "abc")

# create an expression
x <- rx_any_of(value = "abc")

grepl(x, "c") # should be true
grepl(x, "d") # should be false</pre>
```

rx\_avoid\_prefix 7

```
y <- rx() %>%
  rx_find("gr") %>%
  rx_any_of("ae") %>%
  rx_find("y")

regmatches("gray", regexec(y, "gray"))[[1]]
regmatches("grey", regexec(y, "grey"))[[1]]
```

rx\_avoid\_prefix

Negative lookaround functions

# Description

This function facilitates matching by providing negative assurances for surrounding symbols/groups of symbols. It allows for building expressions that are dependent on context of occurrence.

#### Usage

```
rx_avoid_prefix(.data = NULL, value)
rx_avoid_suffix(.data = NULL, value)
```

# **Arguments**

.data Expression to append, typically pulled from the pipe %>%

value Exact expression to match

```
# matches any number of digits, but not preceded by "USD"
rx() %>%
    rx_avoid_prefix('USD') %>%
    rx_digit() %>%
    rx_one_or_more()

#matches a digit, but not followed by " dollars"
rx() %>%
    rx_digit() %>%
    rx_avoid_suffix(' dollars')
```

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rx\_begin\_capture

Begin a capture group.

# Description

Begin a capture group.

# Usage

```
rx_begin_capture(.data = NULL)
```

# **Arguments**

.data

Expression to append, typically pulled from the pipe %>%

#### **Details**

Capture groups are used to extract data from within the regular expression match for further processing.

rx\_digit

Match a digit (0-9).

# Description

The function  $rx_digit()$  looks for tabs with the following expression: %%d and matches single digit. Plural version matches specified number of digits n (equivalent to  $rx_digit()$  %>%  $rx_count(n)$ ).

# Usage

```
rx_digit(.data = NULL, inverse = FALSE)
```

# **Arguments**

.data Expression to append, typically pulled from the pipe %>%

not match digit characters.

rx\_either\_of

# **Examples**

```
rx_digit()
rx_digit(inverse = TRUE)

# create an expression
x <- rx_digit()

# create input
string <- "1 apple"

# extract match
regmatches(string, regexpr(x, string))</pre>
```

rx\_either\_of

Alternatively, match either expression.

# Description

Expression to match instead. If both expressions exists, both will be returned. This just adds the vertical bar | often called an *alternator* which allows the user to find this *or* that, or both!

# Usage

```
rx_either_of(.data, ...)
```

# **Arguments**

. data Expression to append, typically pulled from the pipe %>%

... A character vector

```
x <- rx() %>%
  rx_either_of("cat", "dog") %>%
  rx_space() %>%
  rx_find("food")

string <- c("dog food", "cat food", "fish food")
grep(x, string, value = TRUE)</pre>
```

rx\_end\_of\_line

rx\_end\_capture

End a capture group.

# Description

End a capture group.

#### Usage

```
rx_end_capture(.data = NULL)
```

# **Arguments**

.data

Expression to append, typically pulled from the pipe %>%

#### **Details**

Capture groups are used to extract data from within the regular expression match for further processing.

rx\_end\_of\_line

Match the expression only if it appears till the end of the line.

# **Description**

Control whether to match the expression only if it appears till the end of the line. Basically, append a \$ to the end of the expression. The dollar sign is considered an *anchor* and matches the position of characters. It can be used to "anchor" the regex match at a certain position, in this case the dollar sign matches right after the last character in the string.

#### Usage

```
rx_end_of_line(.data = NULL, enable = TRUE)
```

#### **Arguments**

.data Expression to match, typically pulled from the pipe %>%

enable Whether to enable this behavior, defaults to TRUE

#### References

Anchors: https://www.regular-expressions.info/anchors.html

rx\_find 11

#### **Examples**

```
rx_end_of_line(enable = TRUE)
rx_end_of_line(enable = FALSE)
rx_end_of_line("abc", enable = TRUE)

# create expression
x <- rx() %>%
    rx_start_of_line(FALSE) %>%
    rx_find("apple") %>%
    rx_end_of_line()

grepl(x, "apples") # should be false
grepl(x, "apple") # should be true
```

rx\_find

Match an expression.

# **Description**

Identify a specific pattern exactly.

#### Usage

```
rx_find(.data = NULL, value)
```

#### **Arguments**

.data Expression to append, typically pulled from the pipe %>%

value Exact expression to match

#### References

```
Capturing group: https://www.regular-expressions.info/brackets.html Stack Overflow: https://stackoverflow.com/questions/3512471
```

```
rx_find(value = "apple")

# create expression
x <- rx_find(value = "apples")

grepl(x, "apple") # should be false
grepl(x, "apples") # should be true</pre>
```

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rx\_line\_break

Match a line break.

#### **Description**

This expression looks for line breaks, both Unix and Windows style by using the appropriate *non printable characters*.

#### Usage

```
rx_line_break(.data = NULL)
```

# **Arguments**

.data

Expression to append, typically pulled from the pipe %>%

#### References

```
Unix style: https://codepoints.net/U+000A
Windows style: https://codepoints.net/U+000D
Non printable character: https://www.regular-expressions.info/nonprint.html
```

# **Examples**

```
rx_line_break()

# create an expression
x <- rx_line_break()

# create input
string <- "foo\nbar"

# extract match
regmatches(string, regexpr(x, string))</pre>
```

rx\_lowercase

Match lower case letters.

# **Description**

Matches lower case letters only.

# Usage

```
rx_lowercase(.data = NULL, inverse = FALSE)
```

rx\_maybe 13

# **Arguments**

.data Expression to append, typically pulled from the pipe %>%

inverse Invert match behavior, defaults to FALSE (match lower case). Use TRUE to not

match lower case.

#### **Examples**

```
rx_lowercase()
rx_lowercase(inverse = TRUE)

# create an expression
x <- rx_lowercase()
y <- rx_lowercase(inverse = TRUE)

# create input
string <- "Apple 1!"

# extract match
regmatches(string, gregexpr(x, string))
regmatches(string, gregexpr(y, string))</pre>
```

rx\_maybe

Optionally match an expression.

# Description

This expression uses a *quantifier*? to optionally match things. Specifically, the question mark makes the preceding token in the regular expression optional.

# Usage

```
rx_maybe(.data = NULL, value)
```

# **Arguments**

.data Expression to append, typically pulled from the pipe %>%

value Expression to optionally match

# References

Quantifiers: https://www.regular-expressions.info/optional.html

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#### **Examples**

```
rx_maybe(value = "abc")

# create expression
x <- rx() %>%
    rx_start_of_line() %>%
    rx_maybe("abc") %>%
    rx_end_of_line(enable = FALSE)

grepl(x, "xyz") # should be true
```

rx\_multiple

Match the previous group any number of times.

# **Description**

Match the previous group any number of times.

#### Usage

```
rx_multiple(.data = NULL, value = NULL, min = NULL, max = NULL)
```

#### **Arguments**

.data	Expression to append, typically pulled from the pipe %>%
value	Item to match
min	Minimum number of times it should be present
max	Maximum number of times it should be present

rx\_none\_or\_more

Match the previous stuff zero or many times.

# Description

This function simply adds a \* to the end of the expression.

#### Usage

```
rx_none_or_more(.data = NULL, mode = "greedy")
```

# Arguments

.data Expression to append, typically pulled from the pipe %>%

mode Matching mode (greedy (default) orlazy). Lazy matching stops after the first

match, greedy continues searching until end of the string and then back-tracks

to the last match.

rx\_not 15

#### **Examples**

```
rx_none_or_more()

# create an expression
x <- rx() %>%
    rx_find("a") %>%
    rx_none_or_more()

# create input
input <- "aaa"

# extract match
regmatches(input, regexpr(x, input))</pre>
```

rx\_not

Ensure that the parameter does not follow.

# **Description**

This expression uses a *negative lookahead* to ensure the value given does not follow the previous verbal expression, perl = TRUE is required. For example, if you were to look for the letter q but not the letter u you might translate this to, "find the letter q everytime the letter q does *not* come after it".

# Usage

```
rx_not(.data = NULL, value)
```

#### **Arguments**

.data Expression to append, typically pulled from the pipe %>%

value Value to ensure absence of

# References

Negative lookahead: https://www.regular-expressions.info/lookaround.html

```
rx_not(value = "FEB-28")

# construct expression
x <- rx() %>%
    rx_start_of_line() %>%
    rx_find('FEB-29') %>%
    rx_not("FEB-28")

# create a string
string <- c("FEB-29-2017", "FEB-28-2017")</pre>
```

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```
# extract matches, perl = TRUE is required for negative lookahead
regmatches(string, regexpr(x, string, perl = TRUE))

# another example
rx() %>%
    rx_find("q") %>%
    rx_not("u") %>%
    grepl(x = c("qu", "qa", "qq", "q", "q u"), perl = TRUE)
```

rx\_one\_or\_more

Match the previous stuff one or more times.

# **Description**

This function simply adds a + to the end of the expression.

# Usage

```
rx_one_or_more(.data = NULL, mode = "greedy")
```

# Arguments

.data

Expression to append, typically pulled from the pipe %>%

mode

Matching mode (greedy (default) orlazy). Lazy matching stops after the first match, greedy continues searching until end of the string and then back-tracks

to the last match.

```
rx_one_or_more()

# create an expression
x <- rx() %>%
    rx_find("a") %>%
    rx_one_or_more()

# create input
input <- "aaa"

# extract match
regmatches(input, regexpr(x, input))</pre>
```

rx\_punctuation 17

rx\_punctuation

Match punctuation characters.

# **Description**

```
Matches punctuation characters only: ! \" # $ % & ' ( ) * + , - . / : ; < = > ? @ [ \ ] ^ _ ` { | } ~.
```

#### Usage

```
rx_punctuation(.data = NULL, inverse = FALSE)
```

# **Arguments**

.data Expression to append, typically pulled from the pipe %>%

inverse Invert match behavior, defaults to FALSE (match punctuation). Use TRUE to not

match punctuation.

# Examples

```
rx_punctuation()
rx_punctuation(inverse = TRUE)

# create an expression
x <- rx_punctuation()

# create input
string <- 'Apple 1!'

# extract match
regmatches(string, gregexpr(x, string))

# dont extract punctuation
y <- rx_punctuation(inverse = TRUE)
regmatches(string, gregexpr(y, string))</pre>
```

rx\_range

Match any character within the range defined by the parameters.

#### **Description**

Value parameter will be interpreted as pairs. For example, range(c('a', 'z', '0', '9')) will be interpreted to mean any character within the ranges a–z (ascii x–y) or 0–9 (ascii x–y). The method expects an even number of parameters; unpaired parameters are ignored.

rx\_seek\_prefix

#### Usage

```
rx_range(.data = NULL, value)
```

#### **Arguments**

. data Expression to append, typically pulled from the pipe %>%

value Range of characters. The method expects an even number of parameters; un-

paired parameters are ignored.

# **Examples**

```
rx_range(value = c('1', '3'))
# create an expression
x <- rx_range(value = c('1', '3'))
grepl(x, "2") # should be true
grepl(x, "4") # should be false</pre>
```

rx\_seek\_prefix

Positive lookaround functions

#### **Description**

This function facilitates matching by providing assurances for surrounding symbols/groups of symbols. It allows for building expressions that are dependent on context of occurrence.

# Usage

```
rx_seek_prefix(.data = NULL, value)
rx_seek_suffix(.data = NULL, value)
```

# **Arguments**

.data Expression to append, typically pulled from the pipe %>%

value Exact expression to match

```
# this will match anything between square brackets
rx() %>%
    rx_seek_prefix("[") %>%
    rx_anything("lazy") %>%
    rx_seek_suffix(']')
```

rx\_something 19

rx\_something

*Match any character(s) at least once.* 

#### **Description**

This expression is almost identical to rx\_anything() with one major exception, a + is used instead of a \*. This means rx\_something() expects *something* whereas anything() expects *anything* including... nothing!

#### Usage

```
rx_something(.data = NULL, mode = "greedy")
```

#### Arguments

.data

Expression to append, typically pulled from the pipe %>%

mode

Matching mode (greedy (default) orlazy). Lazy matching stops after the first match, greedy continues searching until end of the string and then back-tracks

to the last match.

#### References

```
Metacharacters: https://www.regular-expressions.info/characters.html#special
Greedy and Lazy Quantifiers: https://www.regular-expressions.info/repeat.html#greedy
```

# Examples

```
rx_something()

# construct an expression
x <- rx_something()

grepl(x, "something!") # this should be true
grepl(x, "") # this should be false
grepl(rx_anything(), "") # this should be true</pre>
```

rx\_something\_but

*Match any character(s) except these at least once.* 

# **Description**

This expression is almost identical to rx\_anything\_but() with one major exception, a + is used instead of a \*. This means rx\_something\_but() expects *something* whereas rx\_anything\_but() expects *anything* including... nothing!

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#### Usage

```
rx_something_but(.data = NULL, value, mode = "greedy")
```

#### **Arguments**

.data Expression to append, typically pulled from the pipe %>%

value Expression to optionally match

mode Matching mode (greedy (default) orlazy). Lazy matching stops after the first

match, greedy continues searching until end of the string and then back-tracks

to the last match.

#### References

Metacharacters: https://www.regular-expressions.info/characters.html#special Greedy and Lazy Quantifiers: https://www.regular-expressions.info/repeat.html#greedy

# **Examples**

```
rx_something_but(value = "abc")

# create an expression
x <- rx_something_but(value = "python")

grepl(x, "R") # should be true
grepl(x, "py") # should be false</pre>
```

rx\_space

Match a space character.

# Description

Matches a space character.

#### Usage

```
rx_space(.data = NULL, inverse = FALSE)
```

#### **Arguments**

.data Expression to append, typically pulled from the pipe %>%

inverse Invert match behavior, defaults to FALSE (match space). Use TRUE to not match

space.

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#### **Examples**

```
# match space, default
rx_space()

# dont match space
rx_space(inverse = TRUE)

# create an expression
x <- rx_space()

# create input
string <- "1 apple\t"

# extract match
regmatches(string, regexpr(x, string))

# extract no whitespace by inverting behavior
y <- rx_space(inverse = TRUE)
regmatches(string, gregexpr(y, string))</pre>
```

rx\_start\_of\_line

Match the expression only if it appears from beginning of line.

# Description

Control whether to match the expression only if it appears from the beginning of the line.

#### Usage

```
rx_start_of_line(.data = NULL, enable = TRUE)
```

#### **Arguments**

. data Expression to append, typically pulled from the pipe %>% enable Whether to enable this behavior, defaults to TRUE

```
rx_start_of_line(enable = TRUE)
rx_start_of_line(enable = FALSE)

# create expression
x <- rx() %>%
    rx_start_of_line() %>%
    rx_find("apple")

grepl(x, "pineapple") # should be false
grepl(x, "apple") # should be true
```

22 rx\_uppercase

rx\_tab

Match a tab character.

# Description

Match a tab character.

# Usage

```
rx_tab(.data = NULL, inverse = FALSE)
```

# **Arguments**

. data Expression to append, typically pulled from the pipe %>%

inverse Invert match behavior, defaults to FALSE (match tabs). Use TRUE to not match

tabs.

#### **Details**

This function is looks for tabs with the following expression: \t

```
1. Tab character: https://codepoints.net/U+0009
```

# **Examples**

```
rx_tab()
rx_tab(inverse = TRUE)

# create an expression
x <- rx_tab()

# create input
string <- "foo\tbar"

# extract match
regmatches(string, regexpr(x, string))</pre>
```

rx\_uppercase

Match upper case letters.

# **Description**

Matches upper case letters only.

# Usage

```
rx_uppercase(.data = NULL, inverse = FALSE)
```

rx\_whitespace 23

# **Arguments**

. data Expression to append, typically pulled from the pipe %>%

inverse Invert match behavior, defaults to FALSE (match upper case). Use TRUE to not

match upper case.

# Examples

```
rx_uppercase()
rx_uppercase(inverse = TRUE)

# create an expression
x <- rx_uppercase()
y <- rx_uppercase(inverse = TRUE)

# create input
string <- "Apple 1!"

# extract match
regmatches(string, gregexpr(x, string))
regmatches(string, gregexpr(y, string))</pre>
```

rx\_whitespace

Match a whitespace character.

# Description

Match a whitespace character.

#### Usage

```
rx_whitespace(.data = NULL, inverse = FALSE)
```

# **Arguments**

.data Expression to append, typically pulled from the pipe %>%

inverse Invert match behavior, defaults to FALSE (match whitespace). Use TRUE to not

match whitespace.

#### **Details**

Match a whitespace character (one of space, tab, carriage return, new line, vertical tab and form feed).

```
    space: https://codepoints.net/U+0020
    tab: https://codepoints.net/U+0009
    carriage return: https://codepoints.net/U+000D
```

4. new line: https://codepoints.net/U+000

5. vertical tab: https://codepoints.net/U+000B

6. form feed: https://codepoints.net/U+000C

24 rx\_with\_any\_case

#### **Examples**

```
# match whitespace, default
rx_whitespace()

# dont match whitespace
rx_whitespace(inverse = TRUE)

# create an expression
x <- rx_whitespace()

# create input
string <- "1 apple"

# extract match
regmatches(string, regexpr(x, string))

# extract no whitespace by inverting behavior
y <- rx_whitespace(inverse = TRUE)
regmatches(string, gregexpr(y, string))</pre>
```

rx\_with\_any\_case

Control case-insensitive matching.

# Description

Control case-insensitive matching.

# Usage

```
rx_with_any_case(.data = NULL, enable = TRUE)
```

# **Arguments**

. data  $\qquad \qquad \text{Expression to append, typically pulled from the pipe } \%\%$ 

enable Whether to enable this behavior

#### **Details**

Equivalent to adding or removing the i modifier.

```
rx_with_any_case()
# case insensitive
x <- rx() %>%
  rx_find("abc") %>%
  rx_with_any_case()
```

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```
# case sensitive
y <- rx() %>%
    rx_find("abc") %>%
    rx_with_any_case(enable = FALSE)
grepl(x, "ABC") # should be true
grepl(y, "ABC") # should be false
```

rx\_word

Match a word.

# Description

Match a word—a string of word characters (a–z, A–Z, 0–9 or \_). This function is looks for tabs with the following expression: \w+

# Usage

```
rx_{word}(.data = NULL)
```

# **Arguments**

.data

Expression to append, typically pulled from the pipe %>%

```
rx_word()

# create an expression
x <- rx_word()

# create inputs
string1 <- "foo_bar"
string2 <- "foo-bar"

# extract matches
regmatches(string1, regexpr(x, string1))
regmatches(string2, regexpr(x, string2)) # doesn't match -</pre>
```

26 rx\_word\_edge

rx\_word\_char

Match a word character.

# Description

Match a word character (a-z, A-Z, 0-9 or \_).

# Usage

```
rx_word_char(.data = NULL)
```

# **Arguments**

.data

Expression to append, typically pulled from the pipe %>%

# **Examples**

```
rx_word_char()
# Same as rx_word()
x <- rx_word_char() %>%
rx_one_or_more()
```

rx\_word\_edge

Find beginning or end of a word.

# **Description**

Match beginning or end of a word—a string consisting of of word characters (a–z, A–Z, 0–9 or \_).

#### Usage

```
rx_word_edge(.data = NULL)
```

# **Arguments**

.data

Expression to append, typically pulled from the pipe %>%

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#### **Examples**

```
rx_word_edge()

x <- rx() %>%
    rx_word_edge() %>%
    rx_alpha() %>%
    rx_one_or_more() %>%
    rx_word_edge()

# create inputs
string1 <- "foobar"
string2 <- "foo 23a bar"

# matches 'foobar'
regmatches(string1, regexpr(x, string1))
# matches 'foo' and 'bar' separately
regmatches(string2, gregexpr(x, string2))</pre>
```

sanitize

Escape characters expected special by regex engines

# Description

Takes a string and escapes all characters considered special by the regex engine. This is used internally when you add a string to the value parameter in most of the available functions. It is exported and usable externally for users that want to escape all special characters in their desired match. The following special characters are escaped .  $|*?+(){}$  \ := []

# Usage

```
sanitize(x)
```

# **Arguments**

Х

String to sanitize

```
sanitize("^")
sanitize("^+")
sanitize("^+?")
```

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