Package 'charcuterie'

September 13, 2024

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Title Handle Strings as Vectors of Characters		
Version 0.0.4		
Description Creates a new chars class which looks like a string but is actually a vector of individual characters, making 'strings' iterable. This class enables vector operations on 'strings' such as reverse, sort, head, and set operations.		
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Contents		
c.chars		

c.chars

	format.chars	5
	head.chars	5
	intersect.chars	6
	is_alnum	6
	is_letter	7
	is_number	7
	is_punct	8
	print.chars	8
	rev.chars	9
	setdiff.chars	10
	sort.chars	10
	string	11
	tail.chars	11
	union.chars	12
	unique.chars	13
	[.chars	13
Index		15

c.chars

Combine chars Objects

Description

Combine chars Objects

Usage

```
## S3 method for class 'chars' c(...)
```

Arguments

... chars objects.

Value

a larger chars object containing the combined elements of

```
c(chars("java"), chars("script"))
```

chars 3

chars

Create a chars Object

Description

Create a chars Object

Usage

```
chars(x, ...)
```

Arguments

x object to convert to chars.

... other options passed to methods.

Value

an object of class chars.

chars.character

Create a chars Object From a String

Description

Create a chars Object From a String

Usage

```
## S3 method for class 'character'
chars(x, ...)
```

Arguments

x string to convert to a chars object (length 1 only).

... unused

Details

chars expects a single string as input. To create a list of these, consider lapply(strings, chars)

Value

an object of class chars, essentially splitting the string into individual characters

4 except

chars.default

Convert an Object to chars

Description

Convert an Object to chars

Usage

```
## Default S3 method:
chars(x, ...)
```

Arguments

x object to convert ... other options

Value

.NotYetImplemented() error

except

Elements of x Except Those in y

Description

Does not treat the operation as a set.

Usage

```
except(x, y)
```

Arguments

x larger vector.y smaller vector.

Value

elements of x not appearing in y.

```
except(c(1:5), 3)
except(chars("abcde"), "c")
except(chars("abracadabra"), "b")
```

format.chars 5

format.chars

Format a chars Object

Description

Format a chars Object

Usage

```
## S3 method for class 'chars' format(x, ...)
```

Arguments

x a chars object.

further arguments passed to or from other methods.

Value

a formatted chars object.

head.chars

Return the First Parts of a chars Object

Description

Return the First Parts of a chars Object

Usage

```
## S3 method for class 'chars' head(x, ...)
```

Arguments

x a chars object.

... further arguments passed to or from other methods.

Value

the first (n) elements of a chars object as a chars object.

```
head(chars("abcdefhgi"))
head(chars("javascript"), 4)
```

is_alnum

intersect.chars

Setwise Intersection of chars Objects

Description

Setwise Intersection of chars Objects

Usage

```
## S3 method for class 'chars'
intersect(x, y, ...)
```

Arguments

x a chars object.

y a chars object or character vector.

... further arguments passed to or from other methods.

Value

the setwise intersection of x and y.

Examples

```
union(chars("pine"), chars("apple"))
```

is_alnum

Is a Character a Letter OR a Number?

Description

A combination of is_letter() and is_number().

Usage

```
is_alnum(x)
```

Arguments

Χ

A vector of characters.

Value

A boolean vector indicating whether each element of x is a letter or a number.

is_letter 7

Examples

```
is_alnum(chars("Lee7c0deR 4 L1fe"))
Filter(is_alnum, chars("2 B or !2 B"))
```

is_letter

Is a Character a Letter?

Description

Compares against the values of letters (the English alphabet), ignoring case.

Usage

```
is_letter(x)
```

Arguments

Х

A vector of characters.

Value

A boolean vector indicating whether each element of x is a letter (appears in letters ignoring case).

Examples

```
is_letter(chars("Lee7c0deR"))
Filter(is_letter, chars("w00t"))
```

is_number

Is a Character a Number?

Description

Compares against the values of 0:9 (as a number).

Usage

```
is_number(x)
```

Arguments

Χ

A vector of characters.

8 print.chars

Value

A boolean vector indicating whether each element of x is a number (appears in 0:9 as a number)

Examples

```
is_number(chars("Lee7c0deR"))
Filter(is_number, chars("w00t"))
```

is_punct

Is a Character Punctuation?

Description

Compares against the regex group [[:punct:]].

Usage

```
is_punct(x)
```

Arguments

Х

A vector of characters.

Value

A boolean vector indicating whether each element of x is considered as punctuation.

Examples

```
is_punct(chars("I can haz?"))
Filter(Negate(is_punct), chars("abc,123;$*%?"))
```

print.chars

Print a chars Object

Description

Print a chars Object

Usage

```
## S3 method for class 'chars'
print(x, ...)
```

rev.chars 9

Arguments

x a chars object.

... further arguments passed to or from other methods.

Value

x (invisibly), used to print to console.

rev.chars

Reverse Elements of a chars Object

Description

Reverse Elements of a chars Object

Usage

```
## S3 method for class 'chars'
rev(x)
```

Arguments

x a chars object

Value

a chars object with the elements reversed.

```
rev(chars("racecar"))
rev(chars("alphabet"))
```

10 sort.chars

setdiff.chars

Setwise Difference Between chars Objects

Description

Setwise Difference Between chars Objects

Usage

```
## S3 method for class 'chars' setdiff(x, y, ...)
```

Arguments

x a chars object.

y a chars object or character vector.

... further arguments passed to or from other methods.

Value

the setwise difference of x and y.

Examples

```
setdiff(chars("javascript"), chars("script"))
```

sort.chars

Sort a chars Object

Description

Sort a chars Object

Usage

```
## S3 method for class 'chars'
sort(x, decreasing = FALSE, ...)
```

Arguments

x a chars object.

decreasing logical. Should the sort be increasing or decreasing? Not available for partial

sorting.

. . . further arguments passed to or from other methods.

string 11

Value

```
a sorted chars object.
```

Examples

```
sort(chars("alphabet"))
```

string

Create a String From a chars Object

Description

Create a String From a chars Object

Usage

```
string(x, collapse = "", ...)
```

Arguments

x one or more chars objects.

collapse an optional character string to separate the results. Not NA_character_.

... other arguments passed to paste()

Value

a character (traditional R string) with the elements of x in a single value.

tail.chars

Return the Last Parts of a chars Object

Description

Return the Last Parts of a chars Object

Usage

```
## S3 method for class 'chars' tail(x, ...)
```

Arguments

x a chars object.

... further arguments passed to or from other methods.

12 union.chars

Value

the last (n) elements of a chars object as a chars object.

Examples

```
tail(chars("javascript"))
tail(chars("abcdefghi"))
```

union.chars

Setwise Union of chars Objects

Description

Setwise Union of chars Objects

Usage

```
## S3 method for class 'chars' union(x, y, ...)
```

Arguments

x a chars object.

y a chars object or character vector.

. . . further arguments passed to or from other methods.

Value

the setwise union of x and y.

```
union(chars("java"), chars("script"))
```

unique.chars 13

unique.chars

Extract Unique Elements of chars Objects.

Description

Extract Unique Elements of chars Objects.

Usage

```
## S3 method for class 'chars'
unique(x, ...)
```

Arguments

x a chars object.

... further arguments passed to or from other methods.

Value

a chars object containing unique elements.

Examples

```
unique(chars("mississippi"))
```

[.chars

Extract or Replace Parts of a chars Object

Description

Extract or Replace Parts of a chars Object

Usage

```
## S3 method for class 'chars' x[...]
```

Arguments

x a chars object.

... further arguments passed to or from other methods.

Value

the extracted parts of a chars object, or a chars object with replacements performed.

14 [.chars

```
s <- chars("censor")
s[2:5]
s[2:5] <- "X"
s</pre>
```

Index

```
[.chars, 13
c.chars, 2
chars, 3
chars.character, 3
chars.default, 4
except, 4
format.chars, 5
head.chars, 5
{\tt intersect.chars}, {\color{red} 6}
is_alnum, 6
is_letter, 7
is_letter(),6
is_number, 7
is_number(), 6
is\_punct, 8
paste(), 11
print.chars, 8
rev.chars, 9
setdiff.chars, 10
sort.chars, 10
string, 11
tail.chars, 11
union.chars, 12
unique.chars, \\ 13
```