

Package ‘charcuterie’

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Title Handle Strings as Vectors of Characters
Version 0.0.6
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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Author Jonathan Carroll [aut, cre] (ORCID:
<https://orcid.org/0000-0002-1404-5264>)
Maintainer Jonathan Carroll <rpkg@jcarroll.com.au>
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Contents

c.chars	2
chars	3
chars.character	3
chars.default	4

count	4
except	5
format.chars	5
head.chars	6
intersect.chars	6
is_alnum	7
is_letter	7
is_number	8
is_punct	9
print.chars	9
rev.chars	10
setdiff.chars	10
sort.chars	11
string	12
tail.chars	12
union.chars	13
unique.chars	13
[.chars	14
Index	15

c.chars	<i>Combine chars Objects</i>
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Description

Combine chars Objects

Usage

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

Arguments

... chars objects.

Value

a larger chars object containing the combined elements of

Examples

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

chars	<i>Create a chars Object</i>
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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	<i>Create a chars Object From a String</i>
-----------------	--

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

chars.default	<i>Convert an Object to chars</i>
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Description

Convert an Object to chars

Usage

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

Arguments

- x object to convert
- ... other options

Value

.NotYetImplemented() error

count	<i>Count Characters in a Chars Object</i>
-------	---

Description

Count Characters in a Chars Object

Usage

```
count(x, value, ignore.case = FALSE)
```

Arguments

- x A vector of characters.
- value character (length 1) to count
- ignore.case should the letter case be ignored?

Value

integer, count of instances of value in x

Examples

```
count(chars("strawberry"), 3)
```

except	<i>Elements of x Except Those in y</i>
--------	--

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.

Examples

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

format.chars	<i>Format a chars Object</i>
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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	<i>Return the First Parts of a chars Object</i>
------------	---

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.

Examples

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

intersect.chars	<i>Setwise Intersection of chars Objects</i>
-----------------	--

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

x A vector of characters.

Value

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

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

x 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

`x` A vector of characters.

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	<i>Is a Character Punctuation?</i>
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Description

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

Usage

```
is_punct(x)
```

Arguments

x	A vector of characters.
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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	<i>Print a chars Object</i>
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Description

Print a chars Object

Usage

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

Arguments

x	a chars object.
...	further arguments passed to or from other methods.

Value

x (invisibly), used to print to console.

rev.chars	<i>Reverse Elements of a chars Object</i>
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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.

Examples

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

setdiff.chars	<i>Setwise Difference Between chars Objects</i>
---------------	---

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	<i>Sort a chars Object</i>
------------	----------------------------

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.

Value

a sorted chars object.

Examples

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

string	<i>Create a String From a chars Object</i>
--------	--

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	<i>Return the Last Parts of a chars Object</i>
------------	--

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.

Value

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

Examples

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

union.chars	<i>Setwise Union of chars Objects</i>
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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.

Examples

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

unique.chars	<i>Extract Unique Elements of chars Objects.</i>
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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.

Examples

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

Index

[.chars, [14](#)

c.chars, [2](#)

chars, [3](#)

chars.character, [3](#)

chars.default, [4](#)

count, [4](#)

except, [5](#)

format.chars, [5](#)

head.chars, [6](#)

intersect.chars, [6](#)

is_alnum, [7](#)

is_letter, [7](#)

is_letter(), [7](#)

is_number, [8](#)

is_number(), [7](#)

is_punct, [9](#)

paste(), [12](#)

print.chars, [9](#)

rev.chars, [10](#)

setdiff.chars, [10](#)

sort.chars, [11](#)

string, [12](#)

tail.chars, [12](#)

union.chars, [13](#)

unique.chars, [13](#)