Package 'signs'

October 14, 2022

Title Insert Proper Minus Signs

Version 0.1.2

Description Provides convenience functions to replace hyphen-minuses (ASCII 45)
with proper minus signs (Unicode character 2212). The true minus matches
the plus symbol in width, line thickness, and height above the baseline.
It was designed for mathematics, looks better in presentation,
and is understood properly by screen readers.

URL https://benjaminwolfe.github.io/signs

BugReports https://github.com/BenjaminWolfe/signs/issues

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Encoding UTF-8

LazyData true

Imports scales, rlang (>= 0.4.0)

RoxygenNote 7.0.2

Suggests ggplot2, dplyr, ggrepel, testthat (>= 2.1.0), knitr,
rmarkdown, covr

VignetteBuilder knitr

NeedsCompilation no

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Repository CRAN

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R topics documented:

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signs   *Add proper minus signs*

Description

The true minus sign (Unicode 2212) – neither an em dash, nor an en dash, nor the usual hyphen-minus – is highly underrated. It makes everything look better!

Usage

```
signs(
  x,
  ...,
  format = getOption("signs.format", scales::number),
  add_plusses = getOption("signs.add.plusses", FALSE),
  trim_leading_zeros = getOption("signs.trim.leading.zeros", FALSE),
  label_at_zero = getOption("signs.label.at.zero", "none")
)
```

Arguments

x	Numeric vector.
...	Other arguments passed on to format.
format	Any function that takes a numeric vector and returns a character vector, such as scales::number, scales::comma, or scales::percent (all of which are documented at number_format).
add_plusses	Logical. Should positive values have plus signs?
trim_leading_zeros	
	Logical. Should signs trim leading zeros from values of x between -1 and 1?
label_at_zero	Character. What should be returned when x = 0? Options "none" (no change), "blank" (a zero-length string), or "symbol" (add a plus-minus symbol).

Details

add_plusses, trim_leading_zeros, and label_at_zero are offered for convenience.

The options signs.format, signs.add.plusses, signs.trim.leading.zeros, and signs.label.at.zero are set when the package is loaded to scales::number, FALSE, FALSE, and "none", respectively. If the package is not loaded and the these options are not otherwise set, signs will use those defaults.

label_at_zero is applied *after* format; that is, if it is "blank" and you've specified an accuracy of 0.1, -0.04 will show as blank.

Value

A UTF-8 character vector

Examples

```
x <- seq(-5, 5)
scales::number(x)
signs(x)
signs(x, accuracy = 1, scale = 1, format = scales::percent)
signs(x, add_plusses = TRUE)
signs(x, add_plusses = TRUE, label_at_zero = "blank")
signs(x, add_plusses = TRUE, label_at_zero = "symbol")
signs(x, accuracy = .1, scale = .1, trim_leading_zeros = TRUE)
```

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signs_format	*A function factory to add proper minus signs*

Description

Returns a *function* that will format numeric vectors with proper minus signs.

Usage

```
signs_format(
  ...,
  format = getOption("signs.format", scales::number),
  add_plusses = getOption("signs.add.plusses", FALSE),
  trim_leading_zeros = getOption("signs.trim.leading.zeros", FALSE),
  label_at_zero = getOption("signs.label.at.zero", "none")
)
```

Arguments

`...`	Other arguments passed on to `format`.
`format`	Any function that takes a numeric vector and returns a character vector, such as `scales::number`, `scales::comma`, or `scales::percent` (all of which are documented at [number_format](#)).
`add_plusses`	Logical. Should positive values have plus signs?
`trim_leading_zeros`	
	Logical. Should `signs` trim leading zeros from values of x between -1 and 1?
`label_at_zero`	Character. What should be returned when `x = 0`? Options `"none"` (no change), `"blank"` (a zero-length string), or `"symbol"` (add a plus-minus symbol).

Details

See [signs](#) for details.

Value

A function that takes a numeric vector and returns a `UTF-8` character vector

Examples

```
x <- seq(-5, 5)
scales::number(x)

f1 <- signs_format()
f1(x)

f2 <- signs_format(accuracy = 1, scale = 1, format = scales::percent)
f2(x)

f3 <- signs_format(add_plusses = TRUE)
f3(x)

f4 <- signs_format(add_plusses = TRUE, label_at_zero = "blank")
f4(x)

f5 <- signs_format(add_plusses = TRUE, label_at_zero = "symbol")
f5(x)

f6 <- signs_format(accuracy = .1, scale = .1, trim_leading_zeros = TRUE)
f6(x)
```

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