Package ‘signs’

January 16, 2020

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
License   MIT + file LICENSE
Encoding  UTF-8
LazyData  true
Imports   scales, rlang (&gt;= 0.4.0)
RoxygenNote 7.0.2
Suggests ggplot2, dplyr, ggrepel, testthat (&gt;= 2.1.0), knitr, rmarkdown, covr

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Author    Benjamin E. Wolfe [aut, cre] &lt;https://orcid.org/0000-0002-4339-9328&gt;
Maintainer Benjamin E. Wolfe &lt;benjamin.e.wolfe@gmail.com&gt;
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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,
  ..., # Other arguments passed on to `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

- `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 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
signs_format

Examples

```r
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

```r
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

```r
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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