

Package ‘normalize’

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Type Package

Title Centering and Scaling of Numeric Data

Version 0.1.2

Description Provides simple methods for centering and scaling of numeric data.
Columns or rows can be ignored when normalizing or be normalized jointly.

License GPL (>= 3)

Encoding UTF-8

RoxygenNote 7.3.2

Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

Imports stats

URL <https://github.com/loelschlaeger/normalize>

BugReports <https://github.com/loelschlaeger/normalize/issues>

NeedsCompilation no

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Repository CRAN

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normalize	<i>Centering and scaling of numeric data</i>
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Description

Methods to normalize numeric data with respect to mean and variance.

Usage

```
normalize(x, center = TRUE, scale = TRUE, ...)  
  
## Default S3 method:  
normalize(x, ...)  
  
## S3 method for class 'numeric'  
normalize(x, center = TRUE, scale = TRUE, ...)  
  
## S3 method for class 'matrix'  
normalize(  
  x,  
  center = TRUE,  
  scale = TRUE,  
  byrow = FALSE,  
  ignore = integer(),  
  jointly = list(),  
  ...  
)  
  
## S3 method for class 'data.frame'  
normalize(  
  x,  
  center = TRUE,  
  scale = TRUE,  
  byrow = FALSE,  
  ignore = integer(),  
  jointly = list(),  
  ...  
)  
  
## S3 method for class 'list'  
normalize(x, center = TRUE, scale = TRUE, ...)
```

Arguments

x	An object to be normalized.
center	[logical(1)] Normalize to zero mean?

scale	[logical(1)] Normalize to unit variance?
...	Further arguments to be passed to or from other methods.
byrow	[logical(1)] Only relevant if x has two dimensions (rows and columns). In this case, set to TRUE to normalize row-wise or FALSE to normalize column-wise (default).
ignore	[integer()] Column indices (or row indices if byrow = TRUE) to not normalize.
jointly	[list()] Disjoint column indices (or row indices if byrow = TRUE) to normalize jointly.

Value

The normalized input *x* with the centering and scaling values used (if any) added as attributes "center" and "scale".

Examples

```
# can normalize numeric vectors, matrices, data.frames, and lists of those
normalize(
  list(
    c(-3, 0, 3),
    matrix(1:12, nrow = 3, ncol = 4),
    data.frame(a = 1:3, b = 4:6, c = 7:9, d = 10:12)
  )
)

# can ignore columns (or rows)
normalize(
  data.frame(a = 1:3, b = c("A", "B", "C"), c = 7:9, d = 10:12),
  ignore = 2
)

# can normalize columns (or rows) jointly
normalize(
  matrix(1:12, nrow = 3, ncol = 4),
  jointly = list(1:2, 3:4)
)
```

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