

Package: mutagen (via r-universe)

August 5, 2026

Title Extensions to dplyr's mutate
Version 0.5.0
Description Extensions to dplyr's mutate.
License MIT + file LICENSE
URL <https://github.com/gvelasq/mutagen>,
<https://gvelasq.github.io/mutagen/>
BugReports <https://github.com/gvelasq/mutagen/issues>
Depends R (>= 3.2)
Imports purrr (>= 1.1.0), rlang, stats
Suggests carrier, covr, dplyr, mirai, testthat (>= 3.0.0)
Config/testthat/edition 3
Encoding UTF-8
LazyData true
Roxygen list(markdown = TRUE)
RoxygenNote 7.3.3
Repository <https://r-multiverse.r-universe.dev>
Date/Publication 2025-12-01 01:22:48 UTC
RemoteUrl <https://github.com/gvelasq/mutagen>
RemoteRef v0.5.0
RemoteSha 92ab4ab2561dbc094dc2eea27550686b53430fe2

Contents

gen_coldiff	2
gen_colpercent	3
gen_listcol_na	4
gen_rowall	5
gen_rowany	6
gen_rowcount	7

gen_rowfirst	8
gen_rowlast	9
gen_rowmax	10
gen_rowmean	11
gen_rowmedian	12
gen_rowmin	13
gen_rowmiss	14
gen_rownonmiss	14
gen_rownth	15
gen_rowsd	16
gen_rowsum	17
Index	19

gen_coldiff	<i>Generate column difference indicator</i>
-------------	---

Description

This function returns a binary indicator of whether any selected columns are different.

Usage

```
gen_coldiff(data, cols, engine = "identical", ...)
```

Arguments

data	A data frame.
cols	<tidy-select> Columns to search across.
engine	A character vector indicating the function used to test for equality. One of either "identical" for <code>base::identical()</code> or "all.equal" for <code>base::all.equal()</code> .
...	Arguments passed onto the function defined in engine. For example, the tolerance argument can be passed onto <code>base::all.equal()</code> to ignore numeric differences smaller than tolerance.

Value

An integer vector of value integer 1 (1L) for different columns or an integer 0 (0L) for identical (or near-equal) columns.

Examples

```
library(dplyr, warn.conflicts = FALSE)
a <- tibble(
  x = 1:3,
  y = as.double(1:3),
  z = 1.0001:3.0001
)
```

```

gen_coldiff(a, c(x, y))
b <- a %>%
  mutate(
    q = gen_coldiff(., c(x, y)),
    r = gen_coldiff(., c(x, y), engine = "all.equal"),
    s = gen_coldiff(., c(x, z), engine = "all.equal", tolerance = 1e-4),
    t = gen_coldiff(., c(x, z), engine = "all.equal", tolerance = 1e-5)
  )
b

```

gen_colpercent

Generate column percent

Description

This function calculates a column percent. The by argument calculates column percents within unique categories of grouping columns. The prop argument calculates a proportion rather than a percent.

Usage

```
gen_colpercent(data, col, by, prop = FALSE)
```

Arguments

data	A data frame.
col	<code><tidy-select></code> A single column with which to calculate a column percent.
by	An optional character vector of columns to group by.
prop	If TRUE, percent will be shown as a proportion between 0-1 rather than a percent between 0-100. Default is FALSE.

Value

A double vector totaling 100 within col. If grouping columns are specified with by, the percent for each unique category of grouping columns will total 100 within col. If prop is specified, a double vector totaling 1 within col (or totaling 1 within unique categories of grouping columns specified with by).

Examples

```

library(dplyr, warn.conflicts = FALSE)
a <- as_tibble(mtcars)
gen_colpercent(a, gear)
b <-
  a %>%
    select(gear, cyl, carb) %>%
    arrange(gear, cyl, carb) %>%
    mutate(

```

```

    pct1 = gen_colpercent(., gear),
    pct2 = gen_colpercent(., gear, by = "cyl"),
    pct3 = gen_colpercent(., gear, by = c("cyl", "carb")),
    prop1 = gen_colpercent(., gear, prop = TRUE)
  )
b

```

gen_listcol_na

Generate list or list-column with NULLs replaced with NAs

Description

This function takes a list and replaces all NULL values with NA. It is useful for working with list-columns in a data frame.

Usage

```
gen_listcol_na(x)
```

Arguments

x A list or list-column to modify.

Details

Parallelization is supported via `purrr::in_parallel()`.

Value

A list with all NULL values replaced with NA.

Examples

```

library(dplyr, warn.conflicts = FALSE)
a <-
  mtcars %>%
  select(cyl, vs, am) %>%
  slice(1:6) %>%
  as_tibble() %>%
  mutate(listcol = list(NULL, "b", "c", "d", "e", "f"))
glimpse(a)
b <-
  a %>%
  mutate(across(starts_with("listcol"), gen_listcol_na))
glimpse(b)

```

gen_rowall	<i>Generate rowwise match of all values</i>
------------	---

Description

This function performs a rowwise match of all supplied values across columns in a data frame. If all of the row values equal one of the supplied values, this function returns an integer 1 (1L) for that row, otherwise it returns an integer 0 (0L).

Usage

```
gen_rowall(data, cols, values)
```

Arguments

data	A data frame.
cols	<code><tidy-select></code> Columns to search across.
values	A list of values to match.

Details

Parallelization is supported via `purrr::in_parallel()`.

Value

A binary integer vector indicating whether all supplied values were matched with an integer 1 (1L), otherwise it returns an integer 0 (0L).

Examples

```
library(dplyr, warn.conflicts = FALSE)
a <- tibble(
  x = 1:3,
  y = rep(NA, 3),
  z = letters[1:3],
  aa = rep(FALSE, 3)
)
val <- list(1, NA, "a", FALSE)
val2 <- list(3, NA, "c", FALSE)
gen_rowall(a, values = val)
b <- a %>%
  mutate(
    q = gen_rowall(., values = val),
    r = gen_rowall(., values = val2)
  )
b
```

gen_rowany	<i>Generate rowwise match of any values</i>
------------	---

Description

This function performs a rowwise match of any supplied values across columns in a data frame. If any of the row values equal one of the supplied values, this function returns an integer 1 (1L) for that row, otherwise it returns an integer 0 (0L).

Usage

```
gen_rowany(data, cols, values)
```

Arguments

data	A data frame.
cols	<code><tidy-select></code> Columns to search across.
values	A list of values to match.

Details

Parallelization is supported via `purrr::in_parallel()`.

Value

A binary integer vector indicating whether any supplied values were matched with an integer 1 (1L), otherwise it returns an integer 0 (0L).

Examples

```
library(dplyr, warn.conflicts = FALSE)
a <- tibble(
  x = 1:3,
  y = rep(NA, 3),
  z = letters[1:3],
  aa = rep(FALSE, 3)
)
val <- list(1, NA, "a", FALSE)
val2 <- list(5, NaN, "d", Inf)
gen_rowany(a, values = val)
b <- a %>%
  mutate(
    q = gen_rowany(., values = val),
    r = gen_rowany(., values = val2)
  )
b
```

gen_rowcount	<i>Generate rowwise count of columns matching a set of values</i>
--------------	---

Description

This function performs a rowwise count of columns in a data frame that match a set of supplied values.

Usage

```
gen_rowcount(data, cols, values)
```

Arguments

data	A data frame.
cols	<code><tidy-select></code> Columns to search across.
values	A list of values to match.

Details

Parallelization is supported via `purrr::in_parallel()`.

Value

An integer vector with the number of matched values.

Examples

```
library(dplyr, warn.conflicts = FALSE)
a <- tibble(
  x = 1:3,
  y = rep(NA, 3),
  z = letters[1:3],
  aa = rep(FALSE, 3)
)
val <- list(1, NA, "a", FALSE)
gen_rowcount(a, values = val)
gen_rowcount(a, everything(), values = val)
gen_rowcount(a, starts_with(letters[25:26]), values = val)
b <- a %>% mutate(q = gen_rowcount(., values = val))
b
```

gen_rowfirst	<i>Generate rowwise first nonmissing value</i>
--------------	--

Description

This function returns the rowwise first nonmissing value in a data frame.

Usage

```
gen_rowfirst(data, cols)
```

Arguments

data	A data frame.
cols	<code><tidy-select></code> Columns to search across.

Details

Parallelization is supported via `purrr::in_parallel()`.

Value

A vector of the rowwise first nonmissing value. The vector's type will be of common type to all rowwise nonmissing values.

Examples

```
library(dplyr, warn.conflicts = FALSE)
a <- tibble(
  x = c(1, NA, 2),
  y = c(NA, 3, NA),
  z = c(4, NA, 5)
)
gen_rowfirst(a)
gen_rowfirst(a, all_of(letters[25:26]))
b <- a %>% mutate(q = gen_rowfirst(.))
b
c <-
  a %>%
  mutate(w = c("a", TRUE, NA), .before = "x") %>%
  mutate(q = gen_rowfirst(.))
c # note that q is of type <chr>
```

gen_rowlast	<i>Generate rowwise last nonmissing value</i>
-------------	---

Description

This function returns the rowwise last nonmissing value in a data frame.

Usage

```
gen_rowlast(data, cols)
```

Arguments

data	A data frame.
cols	<code><tidy-select></code> Columns to search across.

Details

Parallelization is supported via `purrr::in_parallel()`.

Value

A vector of the rowwise last nonmissing value. The vector's type will be of common type to all rowwise nonmissing values.

Examples

```
library(dplyr, warn.conflicts = FALSE)
a <- tibble(
  x = c(1, NA, 2),
  y = c(NA, 3, NA),
  z = c(4, NA, 5)
)
gen_rowlast(a)
gen_rowlast(a, all_of(letters[24:25]))
b <- a %>% mutate(q = gen_rowlast(.))
b
c <-
  a %>%
  mutate(aa = c("a", TRUE, NA), .after = "z") %>%
  mutate(q = gen_rowlast(.))
c # note that q is of type <chr>
```

gen_rowmax	<i>Generate rowwise maximum value</i>
------------	---------------------------------------

Description

This function returns the rowwise maximum value in a data frame.

Usage

```
gen_rowmax(data, cols)
```

Arguments

data	A data frame.
cols	<code><tidy-select></code> Columns to search across.

Details

Parallelization is supported via `purrr::in_parallel()`.

Value

A vector of the rowwise maximum value.

Examples

```
library(dplyr, warn.conflicts = FALSE)
a <- tibble(
  x = c(1, NA, 2),
  y = c(NA, 3, NA),
  z = c(4, NA, 5)
)
gen_rowmax(a)
gen_rowmax(a, everything())
gen_rowmax(a, starts_with(letters[24:25]))
b <- a %>% mutate(q = gen_rowmax(.))
b
```

gen_rowmean	<i>Generate rowwise mean</i>
-------------	------------------------------

Description

This function returns the rowwise arithmetic mean value in a data frame.

Usage

```
gen_rowmean(data, cols)
```

Arguments

data	A data frame.
cols	<code><tidy-select></code> Columns to search across.

Details

Parallelization is supported via `purrr::in_parallel()`.

Value

A double vector of the rowwise arithmetic mean value. Missing values are ignored.

Examples

```
library(dplyr, warn.conflicts = FALSE)
a <- tibble(
  x = c(1, NA, 2),
  y = c(NA, 3, NA),
  z = c(4, NA, 5)
)
gen_rowmean(a)
gen_rowmean(a, everything())
gen_rowmean(a, all_of(letters[25:26]))
b <- a %>% mutate(q = gen_rowmean(.))
b
```

gen_rowmedian	<i>Generate rowwise median</i>
---------------	--------------------------------

Description

This function returns the rowwise median value in a data frame.

Usage

```
gen_rowmedian(data, cols)
```

Arguments

data	A data frame.
cols	<code><tidy-select></code> Columns to search across.

Details

Parallelization is supported via `purrr::in_parallel()`.

Value

A double vector of the rowwise median value. Missing values are ignored.

Examples

```
library(dplyr, warn.conflicts = FALSE)
a <- tibble(
  x = c(1, NA, 2),
  y = c(2, 3, 2),
  z = c(4, NA, 5)
)
gen_rowmedian(a)
gen_rowmedian(a, everything())
gen_rowmedian(a, all_of(letters[25:26]))
b <- a %>% mutate(q = gen_rowmedian(.))
b
```

gen_rowmin	<i>Generate rowwise minimum value</i>
------------	---------------------------------------

Description

This function returns the rowwise minimum value in a data frame.

Usage

```
gen_rowmin(data, cols)
```

Arguments

data	A data frame.
cols	<code><tidy-select></code> Columns to search across.

Details

Parallelization is supported via `purrr::in_parallel()`.

Value

A vector of the rowwise minimum value.

Examples

```
library(dplyr, warn.conflicts = FALSE)
a <- tibble(
  x = c(1, NA, 2),
  y = c(NA, 3, NA),
  z = c(4, NA, 5)
)
gen_rowmin(a)
gen_rowmin(a, everything())
gen_rowmin(a, starts_with(letters[25:26]))
b <- a %>% mutate(q = gen_rowmin(.))
b
```

gen_rowmiss	<i>Generate rowwise count of missing values</i>
-------------	---

Description

This function returns the rowwise count of missing values in a data frame.

Usage

```
gen_rowmiss(data, cols)
```

Arguments

data	A data frame.
cols	<code><tidy-select></code> Columns to search across.

Details

Parallelization is supported via `purrr::in_parallel()`.

Value

An integer vector of the rowwise count of missing values.

Examples

```
library(dplyr, warn.conflicts = FALSE)
a <- tibble(
  x = c(1, NA, 2),
  y = c(NA, 3, NA),
  z = c(4, NA, 5)
)
gen_rowmiss(a)
gen_rowmiss(a, all_of(letters[25:26]))
b <- a %>% mutate(q = gen_rowmiss(.))
b
```

gen_rownonmiss	<i>Generate rowwise count of nonmissing values</i>
----------------	--

Description

This function returns the rowwise count of nonmissing values in a data frame.

Usage

```
gen_rownonmiss(data, cols)
```

Arguments

`data` A data frame.

`cols` [<tidy-select>](#) Columns to search across.

Details

Parallelization is supported via [purrr::in_parallel\(\)](#).

Value

An integer vector of the rowwise count of nonmissing values.

Examples

```
library(dplyr, warn.conflicts = FALSE)
a <- tibble(
  x = c(1, NA, 2),
  y = c(NA, 3, NA),
  z = c(4, NA, 5)
)
gen_rownonmiss(a)
gen_rownonmiss(a, all_of(letters[25:26]))
b <- a %>% mutate(q = gen_rownonmiss(.))
b
```

gen_rownth	<i>Generate rowwise nth nonmissing value</i>
------------	--

Description

This function returns the rowwise nth nonmissing value in a data frame.

Usage

```
gen_rownth(data, cols, n)
```

Arguments

`data` A data frame.

`cols` [<tidy-select>](#) Columns to search across.

`n` An integer vector of length 1 that specifies the position of the rowwise nth non-missing value to search for. A negative integer will index from the end.

Details

Parallelization is supported via [purrr::in_parallel\(\)](#).

Value

A vector of the rowwise nth nonmissing value. The vector's type will be of common type to all rowwise nonmissing values.

Examples

```
library(dplyr, warn.conflicts = FALSE)
a <- tibble(
  x = c(1, NA, 2),
  y = c(NA, 3, NA),
  z = c(4, NA, 5)
)
gen_rownth(a, n = 1)
gen_rownth(a, n = 2)
gen_rownth(a, all_of(letters[25:26]), n = 1)
b <- a %>% mutate(q = gen_rownth(., n = 1), r = gen_rownth(., n = 2))
b
c <-
  a %>%
  mutate(w = c("a", TRUE, NA), .before = "x") %>%
  mutate(q = gen_rownth(., n = 1), r = gen_rownth(., n = 2))
c # note that q and r are of type <chr>
```

gen_rowsd

Generate rowwise standard deviation

Description

This function returns the rowwise standard deviation in a data frame.

Usage

```
gen_rowsd(data, cols, na.rm = TRUE)
```

Arguments

data	A data frame.
cols	<code><tidy-select></code> Columns to search across. Non-numeric columns are ignored.
na.rm	Logical vector of length one passed onto <code>stats::sd()</code> .

Details

Parallelization is supported via `purrr::in_parallel()`.

If `na.rm` is `TRUE` (the default), missing values are removed. If `na.rm` is `FALSE`, the presence of an `NA` or `NaN` in any row will return `NA` for that row. As per the documentation for `stats::sd()`, the standard deviation of a length one vector is `NA`.

Value

A double vector of the rowwise standard deviation.

Examples

```
library(dplyr, warn.conflicts = FALSE)
a <- tibble(
  x = c(1, NA, 2),
  y = c(NA, 3, NA),
  z = c(4, NA, 5),
  aa = c("a", "b", "c"),
  bb = rep(NA, 3),
  cc = rep(NaN, 3)
)
gen_rowsd(a)
gen_rowsd(a, all_of(letters[25:26]))
b <- a %>% mutate(q = gen_rowsd(.), r = gen_rowsd(., na.rm = FALSE))
b
```

gen_rowsum

Generate rowwise sum

Description

This function returns the rowwise sum in a data frame.

Usage

```
gen_rowsum(data, cols, na.rm = TRUE)
```

Arguments

data	A data frame.
cols	<code><tidy-select></code> Columns to sum. Non-numeric columns are ignored.
na.rm	Logical vector of length one passed onto <code>base::sum()</code> .

Details

Parallelization is supported via `purrr::in_parallel()`.

If `na.rm` is `TRUE` (the default), missing values are removed. If `na.rm` is `FALSE`, the presence of an NA or NaN in any row will return NA or NaN for that row.

Value

A vector of the rowwise sum. The vector's type will be of common type to all rowwise numeric values.

Examples

```
library(dplyr, warn.conflicts = FALSE)
a <- tibble(
  x = c(1, NA, 2),
  y = c(NA, 3, NA),
  z = c(4, NA, 5),
  aa = c("a", "b", "c"),
  bb = rep(NA, 3),
  cc = rep(NaN, 3)
)
gen_rowsum(a)
gen_rowsum(a, all_of(letters[25:26]))
b <- a %>% mutate(q = gen_rowsum(.), r = gen_rowsum(., na.rm = FALSE))
b
```

Index

gen_coldiff, [2](#)
gen_colpercent, [3](#)
gen_listcol_na, [4](#)
gen_rowall, [5](#)
gen_rowany, [6](#)
gen_rowcount, [7](#)
gen_rowfirst, [8](#)
gen_rowlast, [9](#)
gen_rowmax, [10](#)
gen_rowmean, [11](#)
gen_rowmedian, [12](#)
gen_rowmin, [13](#)
gen_rowmiss, [14](#)
gen_rownonmiss, [14](#)
gen_rownth, [15](#)
gen_rowsd, [16](#)
gen_rowsum, [17](#)