Package 'tidyna'

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Title NA-Aware Defaults for Common R Functions

Version 0.1.2

Description
Provides drop-in replacements for common R functions (mean(), sum(), sd(), min(), etc.) that default to 'na.rm = TRUE' and issue warnings when missing values are removed. It handles some special cases. The table() default is set to 'useNA = ifany'.

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Encoding UTF-8

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Imports cli (>= 3.0.0)

Suggests testthat (>= 3.0.0), withr

Config/testthat/edition 3

URL https://github.com/statzhero/tidyna

BugReports https://github.com/statzhero/tidyna/issues

NeedsCompilation no

Author Ulrich Atz [aut, cre] (ORCID: <https://orcid.org/0000-0002-1719-3780>)

Maintainer Ulrich Atz <ulrich.atz@unibocconi.it>

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correlation-functions *NA-aware Correlation Function*

Description

Drop-in replacement for `cor()` that defaults to `use = "pairwise.complete.obs"`.

Usage

```
cor(
  x,
  y = NULL,
  use = "pairwise.complete.obs",
  method = c("pearson", "kendall", "spearman"),
  ...
)
```

Arguments

`x`	A numeric vector, matrix, or data frame.
`y`	Optional. A numeric vector, matrix, or data frame.
`use`	Method for handling missing values. Default `"pairwise.complete.obs"`.
`method`	Correlation method: "pearson", "kendall", or "spearman".
`...`	Additional arguments passed to `stats::cor()`.

Value

A correlation matrix or single correlation coefficient.

Examples

```
x <- c(1, 2, NA, 4)
y <- c(2, 4, 6, 8)
cor(x, y)
```

extrema-functions *NA-aware Extrema Functions*

Description

Drop-in replacements for `min()` and `max()` that default to `na.rm = TRUE`.

Usage

```
min(..., na.rm = TRUE)

max(..., na.rm = TRUE)
```

Arguments

`...`	Numeric or character arguments.
`na.rm`	Logical. Should missing values be removed? Default `TRUE`.

Value

A length-one vector.

Examples

```
x <- c(1, NA, 5, 3)
min(x)
max(x)

# Multiple arguments
min(c(5, NA), c(1, 2))
```

`logical-functions` *NA-aware Logical Functions*

Description

Drop-in replacements for `any()` and `all()` that default to `na.rm = TRUE`.

Usage

```
any(x, na.rm = TRUE, ...)

all(x, na.rm = TRUE, ...)
```

Arguments

`x`	A numeric vector.
`na.rm`	Logical. Should missing values be removed? Default `TRUE`.
`...`	Additional arguments passed to the base function.

Value

A single logical value.

Examples

```
x <- c(TRUE, NA, FALSE)
any(x)
all(x)
```

`row-functions` *NA-aware Row-wise Functions*

Description

Drop-in replacements for `rowMeans()` and `rowSums()` that default to `na.rm = TRUE`. Importantly, `rowSums()` returns `NA` for rows where ALL values are missing.

Usage

```
rowMeans(x, na.rm = TRUE, ...)

rowSums(x, na.rm = TRUE, dims = 1L, ...)
```

Arguments

`x`	A numeric matrix or data frame.
`na.rm`	Logical. Should missing values be removed? Default `TRUE`.
`...`	Additional arguments passed to the base function.
`dims`	Integer. Number of dimensions to treat as rows.

Value

A numeric or complex array of suitable size, or a vector if the result is one-dimensional.

Examples

```
mat <- matrix(c(1, NA, 3, NA, NA, NA), nrow = 2, byrow = TRUE)
rowSums(mat)

# Compare to base R:
base::rowSums(mat, na.rm = TRUE)
```

summary-functions *NA-aware Summary Functions*

Description

Drop-in replacements for summary functions that default to `na.rm = TRUE` and warn when missing values are removed.

Usage

```
mean(x, na.rm = TRUE, ...)

sum(x, na.rm = TRUE, ...)

prod(x, na.rm = TRUE, ...)

sd(x, na.rm = TRUE, ...)

var(x, na.rm = TRUE, ...)

median(x, na.rm = TRUE, ...)

quantile(x, na.rm = TRUE, ...)
```

Arguments

`x`	A numeric vector.
`na.rm`	Logical. Should missing values be removed? Default `TRUE`.
`...`	Additional arguments passed to the base function.

Value

The computed summary statistic.

Examples

```
x <- c(1, 2, NA, 4)
mean(x)

# Suppress warnings
options(tidyna.warn = FALSE)
mean(x)
options(tidyna.warn = TRUE)

# Use base behavior
mean(x, na.rm = FALSE)
```

`table-functions` *NA-aware Table Function*

Description

Drop-in replacement for `table()` that defaults to `useNA = "ifany"`, showing NA counts when present.

Usage

```
table(..., useNA = "ifany")
```

Arguments

`...`	Objects to cross-tabulate.
`useNA`	Whether to include NA values. Default `"ifany"`.

Value

A contingency table of class `table`.

Examples

```
x <- c("a", "b", NA, "a", NA)
table(x)
```

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