Package 'proratar'

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Title Proportional Allocation with Sum Consistency

Version 0.1.0

Description Provides robust functions for proportional allocation of numeric values. It guarantees sum consistency after rounding or integer truncation using one of two adjustment methods: the largest remainder method or max-value adjustment. Handles edge cases like NA weights and vector total values seamlessly.

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Encoding UTF-8

RoxygenNote 7.3.3

Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

NeedsCompilation no

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`prorate` *Proportional Allocation*

Description

Proportional Allocation

Usage

```
prorate(total, weights, digits = NULL, adjust = c("each", "max", "none"))
```

Arguments

total	Scalar numeric. The total value to allocate.
weights	Numeric vector of weights. NA values are automatically treated as zero.
digits	Integer. Number of decimal places to round to. Default is NULL (no rounding).
adjust	Character or Logical. Adjustment method for total sum consistency: "each" (default) distributes the difference 1 unit by 1 unit based on remainders; "max" allocates the entire difference to the element with the largest absolute value; "none" performs no adjustment. TRUE maps to "each" and FALSE maps to "none".

Value

A numeric vector of allocated values.

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prorate_int *Integer Proportional Allocation*

Description

Integer Proportional Allocation

Usage

```
prorate_int(total, weights, adjust = c("each", "max", "none"))
```

Arguments

total	Scalar numeric or integer. The total value to allocate. Must be a whole number.
weights	Numeric vector of weights. NA values are automatically treated as zero.
adjust	Character or Logical. Adjustment method for total sum consistency: "each" (default) distributes the difference 1 unit by 1 unit based on remainders (Largest Remainder Method); "max" allocates the entire difference to the element with the largest absolute value; "none" performs no adjustment. TRUE maps to "each" and FALSE maps to "none".

Value

An integer vector of allocated values summing exactly to total.

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