

Package ‘deduped’

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Type Package

Title Making “Deduplicated” Functions

Version 0.2.0

Description Contains one main function deduped() which speeds up slow, vectorized functions by only performing computations on the unique values of the input and expanding the results at the end.

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Encoding UTF-8

Imports collapse, fastmatch,

RoxygenNote 7.2.3

Suggests dplyr, purrr, readr, testthat (>= 3.0.0), withr

Config/testthat/edition 3

URL <https://github.com/orgadish/deduped>

BugReports <https://github.com/orgadish/deduped/issues>

NeedsCompilation no

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Repository CRAN

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`deduped`*Deduplicate a vectorized function to act on unique elements*

Description

Converts a vectorized function into one that only performs the computations on unique values in the first argument. The result is then expanded so that it is the same as if the computation was performed on all elements.

Usage

```
deduped(f)
```

Arguments

`f` Function that accepts a vector or list as its first input.

Value

Deduplicated version of `f`.

Examples

```
x <- sample(LETTERS, 10)
x

large_x <- sample(rep(x, 10))
length(large_x)

slow_func <- function(x) {
  for (i in x) {
    Sys.sleep(0.001)
  }
}

system.time({
  y1 <- slow_func(large_x)
})
system.time({
  y2 <- deduped(slow_func)(large_x)
})

all(y1 == y2)
```

deduped_map	<i>Apply a function to each unique element</i>
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Description

DEPRECATED as of deduped 0.2.0.

Please use `deduped(lapply())` or `deduped(purrr::map())` instead.

Usage

```
deduped_map(.x, .f, ..., .progress = FALSE)
```

Arguments

<code>.x</code>	A list or atomic vector.
<code>.f</code>	A function, specified in one of the following ways: <ul style="list-style-type: none"> • A named function, e.g. <code>mean</code>. • An anonymous function, e.g. <code>\(x) x + 1</code> or <code>function(x) x + 1</code>. • A formula, e.g. <code>~ .x + 1</code>. You must use <code>.x</code> to refer to the first argument. Only recommended if you require backward compatibility with older versions of R. • A string, integer, or list, e.g. <code>"idx"</code>, <code>1</code>, or <code>list("idx", 1)</code> which are shorthand for <code>\(x) pluck(x, "idx")</code>, <code>\(x) pluck(x, 1)</code>, and <code>\(x) pluck(x, "idx", 1)</code> respectively. Optionally supply <code>.default</code> to set a default value if the indexed element is NULL or does not exist.
<code>...</code>	Additional arguments passed on to the mapped function. We now generally recommend against using <code>...</code> to pass additional (constant) arguments to <code>.f</code> . Instead use a shorthand anonymous function: <pre># Instead of x > map(f, 1, 2, collapse = ",") # do: x > map(\(x) f(x, 1, 2, collapse = ","))</pre> This makes it easier to understand which arguments belong to which function and will tend to yield better error messages.
<code>.progress</code>	Whether to show a progress bar. Use <code>TRUE</code> to turn on a basic progress bar, use a string to give it a name, or see progress_bars for more details.

Value

A list whose length is the same as the length of the input, matching the output of `purrr::map()`.

See Also

[deduped\(\)](#)

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