

Package: progressify (via r-universe)

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Version 0.2.0-9005

Title Progress Reporting of Common Functions via One Magic Function

Description The `progressify()` function rewrites (transpiles) calls to sequential and parallel map-reduce functions such as `base::lapply()`, `purrr::map()`, `foreach::foreach()`, and `plyr::lply()` to signal progress updates. By combining this function with R's native pipe operator, you have a straightforward way to report progress on iterative computations with minimal refactoring, e.g. `'lapply(x, fcn) |> progressify()'` and `'purrr::map(x, fcn) |> progressify()'`. It is compatible with the parallel-processing map-reduce packages `'future.apply'`, `'furr'`, `'crossmap'`, `'foreach'`, `'doFuture'`, and `'futzurize'`. It also supports domain-specific packages including `'boot'`, `'fwb'`, `'lme4'`, `'partykit'`, `'sandwich'`, and `'SimDesign'`, e.g. `'boot::boot(data, stat, R) |> progressify()'`.

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URL <https://progressify.futureverse.org>,
<https://github.com/futureverse/progressify>

BugReports <https://github.com/futureverse/progressify/issues>

Depends R (>= 4.1.0), progressr

Imports methods

Suggests base64enc, boot, commonmark, crossmap, doFuture, foreach, furr, future.apply, fwb, futurize, lme4, partykit, plyr, purrr, sandwich, SimDesign, tools

VignetteBuilder progressify

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Repository <https://futureverse.r-universe.dev>

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progressify	<i>Evaluate a regular map-reduce call with progress updates</i>
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Description

Evaluate a regular map-reduce call with progress updates

Usage

```
progressify(
  expr,
  substitute = TRUE,
  ...,
  when = TRUE,
  eval = TRUE,
  envir = parent.frame()
)
```

Arguments

<code>expr</code>	An R expression.
<code>substitute</code>	If TRUE, <code>expr</code> is quoted.
<code>when</code>	If TRUE (default), the expression is progressified, otherwise not.
<code>eval</code>	If TRUE (default), the progressified expression is evaluated, otherwise it is returned.
<code>envir</code>	The environment in which <code>expr</code> is evaluated.
<code>...</code>	Not used.

Value

Returns the value of the evaluated expression `expr`.

Examples

```
handlers(global = TRUE) # listen to progress updates

xs <- list(1, 1:2, 1:2, 1:5)
y <- lapply(X = xs, FUN = sum) |> progressify()
str(y)
```

```
progressify_supported_packages
      List packages and functions supporting progressification
```

Description

List packages and functions supporting progressification

Usage

```
progressify_supported_packages()

progressify_supported_functions(package)
```

Arguments

package A package name.

Value

A character vector of package or function names.

Examples

```
pkgs <- progressify_supported_packages()
pkgs

fcns <- progressify_supported_functions("base")
print(fcns)

if (requireNamespace("purrr")) {
  fcns <- progressify_supported_functions("purrr")
  print(fcns)
}
```

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