Package 'progressify'

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Version 0.1.0

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::llply() 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 'futurize' package for parallelization, e.g. 'lapply(x, fcn) |> progressify() |> futurize()' and 'purrr::map(x, fcn) |> futurize() |> progressify()'.

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Depends R (>= 4.1.0), progressr

Imports methods

Suggests base64enc, commonmark, crossmap, doFuture, foreach, furrr, future.apply, futurize, partykit, plyr, purrr, tools

VignetteBuilder progressify

Encoding UTF-8

RoxygenNote 7.3.3

NeedsCompilation no

Author Henrik Bengtsson [aut, cre, cph]

Maintainer Henrik Bengtsson <henrikb@braju.com>

Repository CRAN

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Contents

`progressify` *Evaluate a regular map-reduce call with progress updates*

Description

Evaluate a regular map-reduce call with progress updates

Usage

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

Arguments

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

Value

Returns the value of the evaluated expression `expr`.

Examples

```
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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