Package: progressify (via r-universe)

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Version 0.5.0

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 parallel-processing map-reduce packages 'future.apply', 'furrr', 'crossmap', 'foreach', 'doFuture', and 'futurize'. It also supports domain-specific packages including 'boot', 'car', 'fwb', 'lme4', 'partykit', 'sandwich', 'SimDesign', 'Sim.DiffProc', and 'tm', 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, utils

Imports methods

Suggests base64enc, boot, car, commonmark, crossmap, doFuture, foreach, furrr, future.apply, fwb, futurize, lme4, partykit, plyr, purrr, sandwich, SimDesign, Sim.DiffProc, tm, tools

VignetteBuilder progressify

Encoding UTF-8

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NeedsCompilation no

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`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`.

Expression unwrapping

The transpilation mechanism includes logic to "unwrap" expressions enclosed in constructs such as `!`, `{ }`, `( )`, `local()`, `I()`, `identity()`, `invisible()`, `suppressMessages()`, `suppressWarnings()`, `suppressPackageStartupMessages()`, `withCallingHandlers()`, and `with()`. The transpiler descends through wrapping constructs until it finds a transpilable expression, avoiding the need to place `progressify()` inside such constructs. This allows for patterns like:

```
y <- {
  lapply(xs, fcn)
} |> suppressMessages() |> progressify()
```

avoiding having to write:

```
y <- {
  lapply(xs, fcn) |> progressify()
} |> suppressMessages()
```

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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