Package ‘furrr’

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**furrr_options**

These options fine tune furrr functions, such as `future_map()`. They are either used by furrr directly, or are passed on to `future::future()`.

**Usage**

```r
furrr_options(
  ..., stdout = TRUE,
  conditions = NULL,
  globals = TRUE,
  packages = NULL,
  lazy = FALSE,
  seed = FALSE,
  scheduling = 1,
  chunk_size = NULL,
  prefix = NULL
)
```

**Arguments**

- `...`: These dots are reserved for future extensibility and must be empty.
- `stdout`: A logical.
  - If `TRUE`, standard output of the underlying futures is captured and relayed as soon as possible.
  - If `FALSE`, output is silenced by sinking it to the null device.
  - If `NA`, output is not intercepted. This is not recommended.
- `conditions`: A character string of conditions classes to be captured and relayed. The default is the same as the condition argument of `future::Future()`. To not intercept conditions, use `conditions = character(0L)`. Errors are always relayed.
- `globals`: A logical, a character vector, a named list, or `NULL` for controlling how globals are handled. For details, see the Global variables section below.
- `packages`: A character vector, or `NULL`. If supplied, this specifies packages that are guaranteed to be attached in the R environment where the future is evaluated.
- `lazy`: A logical. Specifies whether futures should be resolved lazily or eagerly.
seed

A logical, an integer of length 1 or 7, a list of length(.x) with pre-generated random seeds, or NULL. For details, see the Reproducible random number generation (RNG) section below.

scheduling

A single integer, logical, or Inf. This argument controls the average number of futures ("chunks") per worker.

- If 0, then a single future is used to process all elements of .x.
- If 1 or TRUE, then one future per worker is used.
- If 2, then each worker will process two futures (provided there are enough elements in .x).
- If Inf or FALSE, then one future per element of .x is used.

This argument is only used if chunk_size is NULL.

chunk_size

A single integer, Inf, or NULL. This argument controls the average number of elements per future ("chunk"). If Inf, then all elements are processed in a single future. If NULL, then scheduling is used instead to determine how .x is chunked.

prefix

A single character string, or NULL. If a character string, then each future is assigned a label as {prefix}-{chunk-id}. If NULL, no labels are used.

Global variables

globals controls how globals are identified, similar to the globals argument of future::future(). Since all function calls use the same set of globals, furrr gathers globals upfront (once), which is more efficient than if it was done for each future independently.

- If TRUE or NULL, then globals are automatically identified and gathered.
- If a character vector of names is specified, then those globals are gathered.
- If a named list, then those globals are used as is.
- In all cases, .f and any ... arguments are automatically passed as globals to each future created, as they are always needed.

Reproducible random number generation (RNG)

Unless seed = FALSE, furrr functions are guaranteed to generate the exact same sequence of random numbers given the same initial seed / RNG state regardless of the type of futures and scheduling ("chunking") strategy.

Setting seed = NULL is equivalent to seed = FALSE, except that the future.rng.onMisuse option is not consulted to potentially monitor the future for faulty random number usage. See the seed argument of future::future() for more details.

RNG reproducibility is achieved by pre-generating the random seeds for all iterations (over .x) by using L’Ecuyer-CMRG RNG streams. In each iteration, these seeds are set before calling .f(.x[[i]],...). Note, for large length(.x) this may introduce a large overhead.

A fixed seed may be given as an integer vector, either as a full L’Ecuyer-CMRG RNG seed of length 7, or as a seed of length 1 that will be used to generate a full L’Ecuyer-CMRG seed.

If seed = TRUE, then .Random.seed is returned if it holds a L’Ecuyer-CMRG RNG seed, otherwise one is created randomly.
If `seed = NA`, a L’Ecuyer-CMRG RNG seed is randomly created.

If none of the function calls `.f(.x[[i]],...)` use random number generation, then `seed = FALSE` may be used.

In addition to the above, it is possible to specify a pre-generated sequence of RNG seeds as a list such that `length(seed) == length(.x)` and where each element is an integer seed that can be assigned to `.Random.seed`. Use this alternative with caution. *Note that `as.list(seq_along(.x))` is not a valid set of such `.Random.seed` values.*

In all cases but `seed = FALSE`, after a furrr function returns, the RNG state of the calling R process is guaranteed to be "forwarded one step" from the RNG state before the call. This is true regardless of the future strategy / scheduling used. This is done in order to guarantee that an R script calling `future_map()` multiple times should be numerically reproducible given the same initial seed.

Examples

```r
furrr_options()
```

---

**future_imap**

*Apply a function to each element of a vector, and its index via futures*

**Description**

These functions work exactly the same as `purrr::imap()` functions, but allow you to map in parallel.

**Usage**

```r
future_imap(
  .x,
  .f,
  ..., 
  .options = furrr_options(),
  .env_globals = parent.frame(),
  .progress = FALSE
)
```

```r
future_imap_chr(
  .x,
  .f,
  ..., 
  .options = furrr_options(),
  .env_globals = parent.frame(),
  .progress = FALSE
)
```

```r
future_imap_dbl(
  .x,
  ```
future_imap(
  .f,
  ..., 
  .options = furrr_options(), 
  .envGlobals = parent.frame(), 
  .progress = FALSE)
)

future_imap_int(
  .x, 
  .f, 
  ..., 
  .options = furrr_options(), 
  .envGlobals = parent.frame(), 
  .progress = FALSE)
)

future_imap_lgl(
  .x, 
  .f, 
  ..., 
  .options = furrr_options(), 
  .envGlobals = parent.frame(), 
  .progress = FALSE)
)

future_imap_raw(
  .x, 
  .f, 
  ..., 
  .options = furrr_options(), 
  .envGlobals = parent.frame(), 
  .progress = FALSE)
)

future_imap_dfr(
  .x, 
  .f, 
  ..., 
  .id = NULL, 
  .options = furrr_options(), 
  .envGlobals = parent.frame(), 
  .progress = FALSE)
)

future_imap_dfc(
  .x, 
  .f, 
  ..., 
  ...
future imap

.options = furrr_options(),
.env_globals = parent.frame(),
.progress = FALSE
)

future_iwalk(
  .x,
  .f,
  ..., 
  .options = furrr_options(),
  .env_globals = parent.frame(),
  .progress = FALSE
)

Arguments

.x A list or atomic vector.
.f A function, formula, or vector (not necessarily atomic).
   If a function, it is used as is.
   If a formula, e.g. ~ .x + 2, it is converted to a function. There are three ways to
   refer to the arguments:
     • For a single argument function, use .
     • For a two argument function, use .x and .y
     • For more arguments, use ..1, ..2, ..3 etc
   This syntax allows you to create very compact anonymous functions.
   If character vector, numeric vector, or list, it is converted to an extractor func-
   tion. Character vectors index by name and numeric vectors index by position;
   use a list to index by position and name at different levels. If a component is not
   present, the value of .default will be returned.
...
  Additional arguments passed on to the mapped function.
.options The future specific options to use with the workers. This must be the result
  from a call to furrr_options().
.env_globals The environment to look for globals required by .x and .... Globals required
  by .f are looked up in the function environment of .f.
.progress A single logical. Should a progress bar be displayed? Only works with multisec-
  tion, multicore, and multiprocess futures. Note that if a multicore/multisession
  future falls back to sequential, then a progress bar will not be displayed.
   Warning: The .progress argument will be deprecated and removed in a future
   version of furrr in favor of using the more robust progressr package.
.id Either a string or NULL. If a string, the output will contain a variable with that
   name, storing either the name (if .x is named) or the index (if .x is unnamed)
   of the input. If NULL, the default, no variable will be created.
   Only applies to _dfr variant.

Value

A vector the same length as .x.
future_invoke_map

Examples

    plan(multisession, workers = 2)

    future_imap_chr(sample(10), ~ paste0(.y, " ", .x))

future_invoke_map  Invoke functions via futures

Description

[Deprecated]

These functions work exactly the same as `purrr::invoke_map()` functions, but allow you to invoke in parallel.

Usage

future_invoke_map(
  .f,
  .x = list(NULL),
  ..., 
  .env = NULL,
  .options = furrr_options(),
  .env_globals = parent.frame(),
  .progress = FALSE
)

future_invoke_map_chr(
  .f,
  .x = list(NULL),
  ..., 
  .env = NULL,
  .options = furrr_options(),
  .env_globals = parent.frame(),
  .progress = FALSE
)

future_invoke_map_dbl(
  .f,
  .x = list(NULL),
  ..., 
  .env = NULL,
  .options = furrr_options(),
  .envGlobals = parent.frame(),
  .progress = FALSE
)
future_invoke_map_int(
  .f,
  .x = list(NULL),
  ..., 
  .env = NULL,
  .options = furrr_options(),
  .envGlobals = parent.frame(),
  .progress = FALSE
)

future_invoke_map_lgl(
  .f,
  .x = list(NULL),
  ..., 
  .env = NULL,
  .options = furrr_options(),
  .envGlobals = parent.frame(),
  .progress = FALSE
)

future_invoke_map_raw(
  .f,
  .x = list(NULL),
  ..., 
  .env = NULL,
  .options = furrr_options(),
  .envGlobals = parent.frame(),
  .progress = FALSE
)

future_invoke_map_dfr(
  .f,
  .x = list(NULL),
  ..., 
  .env = NULL,
  .options = furrr_options(),
  .envGlobals = parent.frame(),
  .progress = FALSE
)

future_invoke_map_dfc(
  .f,
  .x = list(NULL),
  ..., 
  .env = NULL,
  .options = furrr_options(),
  .envGlobals = parent.frame(),
Arguments

- **.f**: A list of functions.
- **.x**: A list of argument-lists the same length as .f (or length 1). The default argument, list(NULL), will be recycled to the same length as .f, and will call each function with no arguments (apart from any supplied in ...).
- **...**: Additional arguments passed to each function.
- **.env**: Environment in which do.call() should evaluate a constructed expression. This only matters if you pass as .f the name of a function rather than its value, or as .x symbols of objects rather than their values.
- **.options**: The future specific options to use with the workers. This must be the result from a call to furrr_options().
- **.env_globals**: The environment to look for globals required by .x and .... Globals required by .f are looked up in the function environment of .f.
- **.progress**: A single logical. Should a progress bar be displayed? Only works with multisession, multicore, and multiprocess futures. Note that if a multicore/multisession future falls back to sequential, then a progress bar will not be displayed.

**Warning:** The .progress argument will be deprecated and removed in a future version of furrr in favor of using the more robust progressr package.

Examples

```r
plan(multisession, workers = 2)

df <- dplyr::tibble(
  f = c("runif", "rpois", "rnorm"),
  params = list(
    list(n = 10),
    list(n = 5, lambda = 10),
    list(n = 10, mean = -3, sd = 10)
  )
)

future_invoke_map(df$f, df$params, .options = furrr_options(seed = 123))
```

**future_map**

Apply a function to each element of a vector via futures

Description

These functions work exactly the same as purrr::map() and its variants, but allow you to map in parallel.
Usage

\[
\begin{align*}
\text{future_map} & \quad (x, f, \ldots, \text{options} = \text{furrr_options}(), \text{envGlobals} = \text{parent.frame}(), \text{progress} = \text{FALSE}) \\
\text{future_map_chr} & \quad (x, f, \ldots, \text{options} = \text{furrr_options}(), \text{envGlobals} = \text{parent.frame}(), \text{progress} = \text{FALSE}) \\
\text{future_map_dbl} & \quad (x, f, \ldots, \text{options} = \text{furrr_options}(), \text{envGlobals} = \text{parent.frame}(), \text{progress} = \text{FALSE}) \\
\text{future_map_int} & \quad (x, f, \ldots, \text{options} = \text{furrr_options}(), \text{envGlobals} = \text{parent.frame}(), \text{progress} = \text{FALSE}) \\
\text{future_map_lgl} & \quad (x, f, \ldots, \text{options} = \text{furrr_options}(), \text{envGlobals} = \text{parent.frame}(), \text{progress} = \text{FALSE}) \\
\text{future_map_raw} & \quad (x, \\
\end{align*}
\]
future_map

  .f,
  ...,  
  .options = furrr_options(),
  .env_globals = parent.frame(),
  .progress = FALSE
)

future_map_dfr(
  .x,
  .f,
  ...,  
  .id = NULL,
  .options = furrr_options(),
  .env_globals = parent.frame(),
  .progress = FALSE
)

future_map_dfc(
  .x,
  .f,
  ...,  
  .options = furrr_options(),
  .env_globals = parent.frame(),
  .progress = FALSE
)

future_walk(
  .x,
  .f,
  ...,  
  .options = furrr_options(),
  .env_globals = parent.frame(),
  .progress = FALSE
)

Arguments

.x           A list or atomic vector.
.f           A function, formula, or vector (not necessarily atomic).

If a function, it is used as is.
If a formula, e.g. ~ .x + 2, it is converted to a function. There are three ways to refer to the arguments:
  • For a single argument function, use .
  • For a two argument function, use .x and .y
  • For more arguments, use .1, .2, .3 etc

This syntax allows you to create very compact anonymous functions.

If character vector, numeric vector, or list, it is converted to an extractor function. Character vectors index by name and numeric vectors index by position;
use a list to index by position and name at different levels. If a component is not present, the value of .default will be returned.

... Additional arguments passed on to the mapped function.

.options The future specific options to use with the workers. This must be the result from a call to furrr_options().

.envGlobals The environment to look for globals required by .x and .... Globals required by .f are looked up in the function environment of .f.

.progress A single logical. Should a progress bar be displayed? Only works with multisession, multicore, and multiprocess futures. Note that if a multicore/multisession future falls back to sequential, then a progress bar will not be displayed.

Warning: The .progress argument will be deprecated and removed in a future version of furrr in favor of using the more robust progressr package.

.id Either a string or NULL. If a string, the output will contain a variable with that name, storing either the name (if .x is named) or the index (if .x is unnamed) of the input. If NULL, the default, no variable will be created.

Only applies to _dfr variant.

Value

All functions return a vector the same length as .x.

- future_map() returns a list
- future_map_lgl() a logical vector
- future_map_int() an integer vector
- future_map_dbl() a double vector
- future_map_chr() a character vector

The output of .f will be automatically typed upwards, e.g. logical -> integer -> double -> character.

Examples

library(magrittr)
plan(multisession, workers = 2)

1:10 %>%
  future_map(rnorm, n = 10, .options = furrr_options(seed = 123)) %>%
  future_map_dbl(mean)

# If each element of the output is a data frame, use
# `future_map_dfr()` to row-bind them together:
mtcars %>%
  split(..$cyl) %>%
  future_map(~ lm(mpg ~ wt, data = .x)) %>%
  future_map_dfr(~ as.data.frame(t(as.matrix(coef(.)))))

# You can be explicit about what gets exported to the workers.
# To see this, use multisession (not multicore as the forked workers
future_map2

Map over multiple inputs simultaneously via futures

Description

These functions work exactly the same as purrr::map2() and its variants, but allow you to map in parallel. Note that “parallel” as described in purrr is just saying that you are working with multiple inputs, and parallel in this case means that you can work on multiple inputs and process them all in parallel as well.

Usage

future_map2(
  .x,
  .y,
  .f,
  ...,
  .options = furrr_options(),
  .envGlobals = parent.frame(),
  .progress = FALSE
)

future_map2_chr(
  .x,
  .y,
  .f,
  ...,
  .options = furrr_options(),
  .envGlobals = parent.frame(),
  .progress = FALSE
)

future_map2_dbl(
  .x,
  .y,
future_map2

.f,
..., .options = furrr_options(), .env_globals = parent.frame(), .progress = FALSE
)

future_map2_int(
  .x,
  .y,
  .f,
  ..., .options = furrr_options(), .env_globals = parent.frame(), .progress = FALSE
)

future_map2_lgl(
  .x,
  .y,
  .f,
  ..., .options = furrr_options(), .env_globals = parent.frame(), .progress = FALSE
)

future_map2_raw(
  .x,
  .y,
  .f,
  ..., .options = furrr_options(), .env_globals = parent.frame(), .progress = FALSE
)

future_map2_dfr(
  .x,
  .y,
  .f,
  ..., .id = NULL, .options = furrr_options(), .env_globals = parent.frame(), .progress = FALSE
)
future_map2

```r
future_map2_dfc(
  .x,
  .y,
  .f,
  ..., 
  .options = furrr_options(),
  .envGlobals = parent.frame(),
  .progress = FALSE
)

future_pmap(
  .l,
  .f,
  ..., 
  .options = furrr_options(),
  .envGlobals = parent.frame(),
  .progress = FALSE
)

future_pmap_chr(
  .l,
  .f,
  ..., 
  .options = furrr_options(),
  .envGlobals = parent.frame(),
  .progress = FALSE
)

future_pmap_dbl(
  .l,
  .f,
  ..., 
  .options = furrr_options(),
  .envGlobals = parent.frame(),
  .progress = FALSE
)

future_pmap_int(
  .l,
  .f,
  ..., 
  .options = furrr_options(),
  .envGlobals = parent.frame(),
  .progress = FALSE
)

future_pmap_lgl(
  .l,
  .l,
```
future_map2

.f,
..., 
.options = furrr_options(),
.envGlobals = parent.frame(),
.progress = FALSE
)

future_pmap_raw(
  .l,
  .f,
  ..., 
.options = furrr_options(),
.envGlobals = parent.frame(),
.progress = FALSE
)

future_pmap_dfr(
  .l,
  .f,
  ..., 
.id = NULL,
.options = furrr_options(),
.envGlobals = parent.frame(),
.progress = FALSE
)

future_pmap_dfc(
  .l,
  .f,
  ..., 
.options = furrr_options(),
.envGlobals = parent.frame(),
.progress = FALSE
)

future_walk2(
  .x,
  .y,
  .f,
  ..., 
.options = furrr_options(),
.envGlobals = parent.frame(),
.progress = FALSE
)

future_pwalk(
  .l,
  .f,
...,
.options = furrr_options(),
.env_globals = parent.frame(),
.progress = FALSE
)

Arguments

.x Vectors of the same length. A vector of length 1 will be recycled.
.y Vectors of the same length. A vector of length 1 will be recycled.
.f A function, formula, or vector (not necessarily atomic).

If a function, it is used as is.
If a formula, e.g. ~ .x + 2, it is converted to a function. There are three ways to refer to the arguments:

• For a single argument function, use .
• For a two argument function, use .x and .y
• For more arguments, use .1, .2, .3 etc

This syntax allows you to create very compact anonymous functions.

If character vector, numeric vector, or list, it is converted to an extractor function. Character vectors index by name and numeric vectors index by position; use a list to index by position and name at different levels. If a component is not present, the value of .default will be returned.

... Additional arguments passed on to the mapped function.
.options The future specific options to use with the workers. This must be the result from a call to furrr_options().
.env_globals The environment to look for globals required by .x and .... Globals required by .f are looked up in the function environment of .f.
.progress A single logical. Should a progress bar be displayed? Only works with multisession, multicore, and multiprocess futures. Note that if a multicore/multisession future falls back to sequential, then a progress bar will not be displayed.

Warning: The .progress argument will be deprecated and removed in a future version of furrr in favor of using the more robust progressr package.

.id Either a string or NULL. If a string, the output will contain a variable with that name, storing either the name (if .x is named) or the index (if .x is unnamed) of the input. If NULL, the default, no variable will be created.

Only applies to _dfrr variant.

.l A list of vectors, such as a data frame. The length of .l determines the number of arguments that .f will be called with. List names will be used if present.

Value

An atomic vector, list, or data frame, depending on the suffix. Atomic vectors and lists will be named if .x or the first element of .l is named.

If all input is length 0, the output will be length 0. If any input is length 1, it will be recycled to the length of the longest.
Examples

```r
plan(multisession, workers = 2)

x <- list(1, 10, 100)
y <- list(1, 2, 3)
z <- list(5, 50, 500)

future_map2(x, y, ~ .x + .y)

# Split into pieces, fit model to each piece, then predict
by_cyl <- split(mtcars, mtcars$cyl)
mods <- future_map(by_cyl, ~ lm(mpg ~ wt, data = .))
future_map2(mods, by_cyl, predict)

future_pmap(list(x, y, z), sum)

# Matching arguments by position
future_pmap(list(x, y, z), function(a, b, c) a / (b + c))

# Vectorizing a function over multiple arguments
df <- data.frame(
  x = c("apple", "banana", "cherry"),
  pattern = c("p", "n", "h"),
  replacement = c("x", "f", "q"),
  stringsAsFactors = FALSE
)

future_pmap(df, gsub)
future_pmap_chr(df, gsub)
```

---

**future_map_if**

Apply a function to each element of a vector conditionally via futures

### Description

These functions work exactly the same as `purrr::map_if()` and `purrr::map_at()`, but allow you to run them in parallel.

### Usage

```r
future_map_if(
  .x,
  .p,
  .f,
  ..., .else = NULL,
  .options = furrr_options(),
)```
```r
future_map_if

.env_globals = parent.frame(),
.progress = FALSE
)

future_map_at(
  .x,
  .at,
  .f,
  ...
  .options = furrr_options(),
  .env_globals = parent.frame(),
  .progress = FALSE
)

Arguments

.x A list or atomic vector.

.p A single predicate function, a formula describing such a predicate function, or a
logical vector of the same length as .x. Alternatively, if the elements of .x are
themselves lists of objects, a string indicating the name of a logical element in
the inner lists. Only those elements where .p evaluates to TRUE will be modified.

.f A function, formula, or vector (not necessarily atomic).

If a function, it is used as is.
If a formula, e.g. ~ .x + 2, it is converted to a function. There are three ways to
refer to the arguments:

  • For a single argument function, use .
  • For a two argument function, use .x and .y
  • For more arguments, use ..1, ..2, ..3 etc

This syntax allows you to create very compact anonymous functions.

If character vector, numeric vector, or list, it is converted to an extractor func-
tion. Character vectors index by name and numeric vectors index by position; use
a list to index by position and name at different levels. If a component is not
present, the value of .default will be returned.

... Additional arguments passed on to the mapped function.

.else A function applied to elements of .x for which .p returns FALSE.

.options The future specific options to use with the workers. This must be the result
from a call to furrr_options().

.env_globals The environment to look for globals required by .x and .... Globals required
by .f are looked up in the function environment of .f.

.progress A single logical. Should a progress bar be displayed? Only works with multisession,
multicore, and multiprocess futures. Note that if a multicore/multisession
future falls back to sequential, then a progress bar will not be displayed.

Warning: The .progress argument will be deprecated and removed in a future
version of furrr in favor of using the more robust progressr package.
```
future_modify

`.at` A character vector of names, positive numeric vector of positions to include, or a negative numeric vector of positions to exclude. Only those elements corresponding to `.at` will be modified. If the tidyselect package is installed, you can use `vars()` and the tidyselect helpers to select elements.

Value

Both functions return a list the same length as `.x` with the elements conditionally transformed.

Examples

plan(multisession, workers = 2)

# Modify the even elements
future_map_if(1:5, ~.x %% 2 == 0L, ~ -1)

future_map_at(1:5, c(1, 5), ~ -1)

future_modify
Modify elements selectively via futures

Description

These functions work exactly the same as `purrr::modify()` functions, but allow you to modify in parallel.

Usage

```r
future_modify(
  .x,
  .f,
  ...,
  .options = furrr_options(),
  .env_globals = parent.frame(),
  .progress = FALSE
)
```

```r
future_modify_at(
  .x,
  .at,
  .f,
  ...,
  .options = furrr_options(),
  .env_globals = parent.frame(),
  .progress = FALSE
)
```
future_modify_if(
  .x,
  .p,
  .f,
  ..., 
  .else = NULL,
  .options = furrr_options(),
  .env Globals = parent.frame(),
  .progress = FALSE
)

Arguments

.x A list or atomic vector.

.f A function, formula, or vector (not necessarily atomic).
   If a function, it is used as is.
   If a formula, e.g. ~ .x + 2, it is converted to a function. There are three ways to refer to the arguments:
   • For a single argument function, use .
   • For a two argument function, use .x and .y
   • For more arguments, use ..1, ..2, ..3 etc
   This syntax allows you to create very compact anonymous functions.

... Additional arguments passed on to the mapped function.

.options The future specific options to use with the workers. This must be the result from a call to furrr_options().

.envGlobals The environment to look for globals required by .x and .... Globals required by .f are looked up in the function environment of .f.

.progress A single logical. Should a progress bar be displayed? Only works with multisession, multicore, and multiprocess futures. Note that if a multicore/multisession future falls back to sequential, then a progress bar will not be displayed.

Warning: The .progress argument will be deprecated and removed in a future version of furrr in favor of using the more robust progressr package.

.at A character vector of names, positive numeric vector of positions to include, or a negative numeric vector of positions to exclude. Only those elements corresponding to .at will be modified. If the tidyselect package is installed, you can use vars() and the tidyselect helpers to select elements.

.p A single predicate function, a formula describing such a predicate function, or a logical vector of the same length as .x. Alternatively, if the elements of .x are themselves lists of objects, a string indicating the name of a logical element in the inner lists. Only those elements where .p evaluates to TRUE will be modified.

.else A function applied to elements of .x for which .p returns FALSE.
Details

From purrr:
Since the transformation can alter the structure of the input; it’s your responsibility to ensure that
the transformation produces a valid output. For example, if you’re modifying a data frame, .f must
preserve the length of the input.

Value

An object the same class as .x

Examples

library(magrittr)
plan(multisession, workers = 2)

# Convert each col to character, in parallel
future_modify(mtcars, as.character)

iris %>%
  future_modify_if(is.factor, as.character) %>%
  str()

mtcars %>%
  future_modify_at(c(1, 4, 5), as.character) %>%
  str()
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