Package ‘tor’

July 15, 2024

Title Import Multiple Files From a Single Directory at Once

Version 1.1.3

Description The goal of tor (to-R) is to help you to import multiple files from a single directory at once, and to do so as quickly, flexibly, and simply as possible.

License GPL-3

URL `https://github.com/maurolepore/tor`, `https://maurolepore.github.io/tor/`

BugReports `https://github.com/maurolepore/tor/issues`

Depends R (>= 3.2)

Imports fs, readr, rlang, tibble

Suggests covr, knitr, rmarkdown, spelling, testthat (>= 3.0.0), withr

Config/testthat/edition 3

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NeedsCompilation no

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Contents

list_any *Import multiple files of any format from a directory into a list.*

Description

Import multiple files of any format from a directory into a list.

Usage

```
list_any(
  path = ".",
  .f,
  regexp = NULL,
  ignore.case = FALSE,
  invert = FALSE,
  ...
)
```

Arguments

path	A character vector of one path. Defaults to the working directory.
.f	A function able to read the desired file format.
regexp	A regular expression (e.g. `[.]csv$`) passed on to `grep()` to filter paths.
ignore.case	if `FALSE`, the pattern matching is *case sensitive* and if `TRUE`, case is ignored during matching.
invert	If `TRUE` return files which do *not* match
...	Additional arguments passed to `.f`.

Value

A list.

See Also

Other functions to import files into a list: `list_csv()`

Other functions to import files of any format: `load_any()`

Examples

```
tor_example()

(path <- tor_example("csv"))
dir(path)

list_any(path, read.csv)
list_any(path, ~ read.csv(.x, stringsAsFactors = FALSE))

(path_mixed <- tor_example("mixed"))
dir(path_mixed)

list_any(
  path_mixed, ~ get(load(.x)),
  "[.]Rdata$",
  ignore.case = TRUE
)

list_any(
  path_mixed, ~ get(load(.x)),
  regexp = "[.]csv$",
  invert = TRUE
)
```

list_csv — *Import multiple common files from a directory into a list.*

Description

These functions wrap common use-cases of `list_any()`.

Usage

```
list_csv(
  path = ".",
  regexp = "[.]csv$",
  ignore.case = TRUE,
  invert = FALSE,
  ...
)

list_tsv(
  path = ".",
  regexp = "[.]tsv$",
  ignore.case = TRUE,
  invert = FALSE,
  ...
)

list_rds(path = ".", regexp = "[.]rds$", ignore.case = TRUE, invert = FALSE)

list_rdata(
  path = ".",
  regexp = "[.]rdata$|[.]rda$",
  ignore.case = TRUE,
  invert = FALSE
)
```

Arguments

`path`	A character vector of one path. Defaults to the working directory.
`regexp`	A regular expression (e.g. `[.]csv$`) passed on to `grep()` to filter paths.
`ignore.case`	if `FALSE`, the pattern matching is *case sensitive* and if `TRUE`, case is ignored during matching.
`invert`	If `TRUE` return files which do *not* match
`...`	Arguments passed to `readr::read_csv()` or `readr::read_tsv()`.

Value

A list.

See Also

Other functions to import files into a list: `list_any()`

Other functions to import files of common formats: `load_csv()`

Examples

```
(rds <- tor_example("rds"))
dir(rds)

list_rds(rds)

(tsv <- tor_example("tsv"))
dir(tsv)

list_tsv(tsv)

(mixed <- tor_example("mixed"))
dir(mixed)

list_rdata(mixed)

list_csv(mixed)

list_rdata(mixed, regexp = "[.]RData", ignore.case = FALSE)
```

`load_any` *Import multiple files of any format from a directory into an environment.*

Description

Import multiple files of any format from a directory into an environment.

Usage

```
load_any(
  path = ".",
  .f,
  regexp = NULL,
  ignore.case = FALSE,
  invert = FALSE,
  envir = .GlobalEnv,
  ...
)
```

Arguments

`path`	A character vector of one path. Defaults to the working directory.
`.f`	A function able to read the desired file format.
`regexp`	A regular expression (e.g. `[.]csv$`) passed on to `grep()` to filter paths.
`ignore.case`	if `FALSE`, the pattern matching is *case sensitive* and if `TRUE`, case is ignored during matching.
`invert`	If `TRUE` return files which do *not* match
`envir`	an `environment` or `NULL`.
`...`	Additional arguments passed to `.f`.

Value

`invisible(path)`.

See Also

Other functions to import files into an environment: `load_csv()`

Other functions to import files of any format: `list_any()`

Examples

```
e <- new.env()
load_any(tor_example("rdata"), .f = ~ get(load(.x)), envir = e)
ls(e)

# The data is now available in the environment `e`
e$rdata1
e$rdata2
```

load_csv *Import multiple common files from a directory into an environment.*

Description

These functions wrap common use-cases of `load_any()`.

Usage

```
load_csv(
  path = ".",
  regexp = "[.]csv$",
  ignore.case = TRUE,
  invert = FALSE,
  envir = .GlobalEnv,
  ...
)

load_tsv(
  path = ".",
  regexp = "[.]tsv$",
  ignore.case = TRUE,
  invert = FALSE,
  envir = .GlobalEnv,
  ...
)

load_rds(
  path = ".",
  regexp = "[.]rds$",
  ignore.case = TRUE,
  invert = FALSE,
  envir = .GlobalEnv
)

load_rdata(
  path = ".",
  regexp = "[.]rdata$|[.]rda$",
  ignore.case = TRUE,
  invert = FALSE,
  envir = .GlobalEnv
)
```

Arguments

`path`	A character vector of one path. Defaults to the working directory.
`regexp`	A regular expression (e.g. `[.]csv$`) passed on to `grep()` to filter paths.
`ignore.case`	if `FALSE`, the pattern matching is *case sensitive* and if `TRUE`, case is ignored during matching.
`invert`	If `TRUE` return files which do *not* match
`envir`	an `environment` or `NULL`.
`...`	Arguments passed to `readr::read_csv()` or `readr::read_tsv()`.

Value

`invisible(path)`.

See Also

Other functions to import files into an environment: `load_any()`

Other functions to import files of common formats: `list_csv()`

Examples

```
(path_csv <- tor_example("csv"))
dir(path_csv)

load_csv(path_csv)
# Each file is now available in the global environment
csv1
csv2

(path_mixed <- tor_example("mixed"))
dir(path_mixed)

# Loading the data in an environment other than the global environment
e <- new.env()
load_rdata(path_mixed, envir = e)
# Each dataframe is now available in the environment `e`
e$lower_rdata
e$upper_rdata
```

tor_example *Easily access example data.*

Description

Easily access example data.

Usage

```
tor_example(path = NULL)
```

Arguments

`path`	Length-1 character vector. A path to an available directory.

Value

A character string listing available directories or a length-1 string giving a path to a directory.

Author(s)

Copied from `readr_example()` from the **readr** package, by Jim Hester and colleagues.

Examples

```
tor_example()

tor_example("csv")

dir(tor_example("csv"))
```

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