Package ‘tor’

October 14, 2022

Title Import Multiple Files From a Single Directory at Once

Version 1.1.2

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

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

Depends R (>= 3.2)

Imports fs, readr, rlang, tibble

Suggests covr, knitr, rmarkdown, spelling, testthat

Encoding UTF-8

Language en-US

LazyData true

RoxygenNote 7.0.2

NeedsCompilation no

Author Mauro Lepore [aut, cre] (<https://orcid.org/0000-0002-1986-7988>)

Maintainer Mauro Lepore <maurolepore@gmail.com>

Repository CRAN

Date/Publication 2020-03-07 21:30:02 UTC

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

Usage

```r
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 \textit{case sensitive} and if `TRUE`, case is ignored during matching.
- `invert`: If `TRUE` return files which do \textit{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

```r
tor_example()

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

list_any(path, read.csv)
```
list_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

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

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

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

```r
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

```r
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**

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

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

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

```r
load_rdata(
  path = ".", 
  regexp = "\.[.]rdata\|[.]rda$",
```
load_csv

    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

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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