Package: impexpcsv (via r-universe)

August 21, 2024

Title Import Various csv Files with Common Columns and Export in One csv file

Description Import various csv files with common columns and export in one csv file. Csv files are imported with data.table::fread(), row-binded with data.table::rbindlist() and exported with data.table::fwrite().

Imports data.table

Version 0.0.6

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Author Sandro Burri <gibo.gaf@gmail.com>

Maintainer Sandro Burri <gibo.gaf@gmail.com>

Encoding UTF-8

RoxygenNote 7.3.1

Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

Repository https://swissstatsr.r-universe.dev

RemoteUrl https://github.com/SwissStatsR/impexpcsv

RemoteRef HEAD

RemoteSha 0c5382bfb63b0ea4560a98f44e953acbdb91d1b9

Contents

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all_columns   *Retrieves all column names from different csv files*

Description

Retrieves all column names from different csv files

Usage

```
all_columns(csv_files, ...)
```

Arguments

csv_files   a character vector with paths to one ore more csv files

...   further arguments to be passed to data.table::fread() (except nrows, which is set
                to 0)

Examples

```
# The package contains two small csv files: csv01.csv and csv02.csv
# The first one has 3 columns: x, y and z
# The second one has only 2 columns: x and z
all_columns(
  c(system.file("extdata", "csv01.csv", package = "impexpcsv"),
  system.file("extdata", "csv02.csv", package = "impexpcsv"))
)
```

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bind_csv   *Create a "row-binded" csv file appending common columns of various*
                               csv files

Description

Create a "row-binded" csv file appending common columns of various csv files

Usage

```
bind_csv(csv_files, col_names = NULL, csv_output, sep_output = ";", ...)
```

Arguments

`csv_files`	a character vector with paths to one ore more csv files
`col_names`	a character vector with the names of the columns to be imported from each csv file. If NULL (default), all common columns will be imported.
`csv_output`	path to the csv file to be created and saved
`sep_output`	column separator of csv_output (defalut: ";")
`...`	further arguments to be passed to data.table::fread() (except nrows, which is set to 0)

Value

a NULL value. A summary message is printed on the screen.

Examples

```
## Not run:
csv_files <- c(
  system.file("extdata", "csv01.csv", package = "impexpcsv"),
  system.file("extdata", "csv02.csv", package = "impexpcsv")
)

bind_csv(csv_files, csv_output = "big_csv.csv")
bind_csv(csv_files, col_names = "x", csv_output = "big_csv.csv")
bind_csv(csv_files, col_names = c("z", "x"), csv_output = "big_csv.csv")

## End(Not run)
```

---

bind_csv_all	*Create a "row-binded" csv file appending all columns of various csv files*

Description

Create a "row-binded" csv file appending all columns of various csv files

Usage

```
bind_csv_all(csv_files, col_names = NULL, csv_output, sep_output = ";", ...)
```

Arguments

`csv_files`	a character vector with paths to one ore more csv files
`col_names`	a character vector with the names of the columns to be imported from each csv file. If NULL (default), all common columns will be imported.
`csv_output`	path to the csv file to be created and saved

sep_output	column separator of csv_output (defalut: ";")
...	further arguments to be passed to data.table::fread() (except nrows, which is set to 0)

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common_columns   *Find common columns of various csv files*

Description

Find common columns of various csv files

Usage

```
common_columns(csv_files, ...)
```

Arguments

csv_files	a character vector with paths to one ore more csv files
...	further arguments to be passed to data.table::fread() (except nrows, which is set to 0)

Value

a character vector with the names of the common columns of the csv files

Examples

```
# The package contains two small csv files: csv01.csv and csv02.csv
# The first one has 3 columns: x, y and z
# The second one has only 2 columns: x and z
common_columns(
  c(system.file("extdata", "csv01.csv", package = "impexpcsv"),
  system.file("extdata", "csv02.csv", package = "impexpcsv"))
)
```

---

import_list_csv   *Import various csv files in a "row-binded" data.table with the same columns*

Description

Import various csv files in a "row-binded" data.table with the same columns

Usage

```
import_list_csv(csv_files, col_names = NULL, ...)
```

Arguments

`csv_files`	a character vector with paths to one ore more csv files
`col_names`	a character vector with the names of the columns to be imported from each csv file. If NULL (default), all common columns will be imported.
`...`	further arguments to be passed to data.table::fread() (except nrows, which is set to 0)

Value

a data table with all the csv files binded together

Examples

```
# The package contains two small csv files: csv01.csv and csv02.csv
# The first one has 3 columns: x, y and z
# The second one has only 2 columns: x and z

# By default, import_list_csv imports all the common columns of the csv
# files
import_list_csv(
  c(system.file("extdata", "csv01.csv", package = "impexpcsv"),
  system.file("extdata", "csv02.csv", package = "impexpcsv"))
)

# Import only column "x" of each csv file
import_list_csv(
  c(system.file("extdata", "csv01.csv", package = "impexpcsv"),
  system.file("extdata", "csv02.csv", package = "impexpcsv")),
  col_names = "x"
)
```

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