Package ‘fastrep’

October 13, 2022

Type Package
Title Time-Saving Package for Creating Reports
Version 0.7
Description Provides templates for reports in 'rmarkdown' and functions to create tables and summaries of data.
License GPL
Depends R (>= 4.1.0)
Imports dplyr, ggplot2, janitor, kableExtra, lifecycle, magrittr, purrr, tidyr
Suggests covr, knitr, rmarkdown, testthat (>= 3.0.0)
VignetteBuilder knitr
Config/testthat/edition 3
Encoding UTF-8
RoxygenNote 7.2.0
BugReports https://github.com/AlissonRP/fastrep/issues
NeedsCompilation no
Author Alisson Rosa [aut, cre]
Maintainer Alisson Rosa <alirperreira887@gmail.com>
Repository CRAN
Date/Publication 2022-09-12 10:42:56 UTC

R topics documented:

cross_tbl .......................................................... 2
describe .......................................................... 2
freq_tbl .......................................................... 3
rep_citation ....................................................... 4
rep_na .......................................................... 4
tab ............................................................... 5
tbl ............................................................... 6

Index 8
Description

[Experimental]

This function makes cross tables, like all functions from fastrep you need to supply a data.frame, and in this case two variables.

Usage

cross_tbl(obj, var1, var2, title = "", marg = FALSE)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>obj</td>
<td>Object used to create the table. Data frame, list, or environment (or object coercible by as.data.frame to a data frame)</td>
</tr>
<tr>
<td>var1</td>
<td>Variable that you want the table (not written in string format)</td>
</tr>
<tr>
<td>var2</td>
<td>Variable that you want on the top of the table (not written in string format)</td>
</tr>
<tr>
<td>title</td>
<td>title for the table, write in string format</td>
</tr>
<tr>
<td>marg</td>
<td>Marginal row table, default is FALSE</td>
</tr>
</tbody>
</table>

Value

A knitr_kable with 2x2 table fitted

Examples

mtcars |>
   fastrep::cross_tbl(cyl, am, "title", marg = TRUE)

Description

In the base R we have the function summary, but the output is no by default a data.frame, so describe is an enhancement of this function to summarize data frames.

Usage

describe(obj, na.rm = TRUE)
Arguments

obj Object used to create the table. Data frame, list or environment (or object coercible by \texttt{as.data.frame} to a data frame)

na.rm option to remove NA from variables

Value

A tibble with n rows where n is equal to \texttt{ncol(obj)} and columns with the summary metrics

Examples

\begin{verbatim}
mtcars |> fastrep::describe()
airquality |> fastrep::describe(na_rm = FALSE)
iris |> fastrep::describe()
\end{verbatim}

Description

This function creates a frequency table, you only need to supply a data.frame and the variable to make the table.

Usage

\begin{verbatim}
freq_tbl{
    obj,
    var,
    sort_by = {
        var
    },
    desc = FALSE
}
\end{verbatim}

Arguments

obj Object used to create the table. Data frame, list or environment (or object coercible by \texttt{as.data.frame} to a data frame)

var Variable that you want the table (not written in string format)

sort_by Variable you want to sort the tibble

desc if you want decreasing order put FALSE
Value

A tibble with 4 rows and 3 columns

Note

By default the sort_by is in alphabetical order of var

Examples

iris %>%
  fastrep::freq_tbl(Species) %>%
  fastrep::tbl("You can combine this function too!"

rep_citation

(citation How to cite fastrep in your publications!

Description

citation How to cite fastrep in your publications!

Usage

rep_citation()

Value

A print in console indicating how to cite the package.

rep_na

Description

[Deprecated]
This function counts the number of NA by variable in your data.frame

Usage

rep_na(obj, ...)

Arguments

obj
  Object used to create the table. data.frame, list or environment (or object coercible by as.data.frame to a data.frame)

... Other arguments
Value

A tibble with n rows where n is equal to ncol(obj) and 2 columns

Examples

```r
airquality %>%
  fastrep::rep_na()
```

Description

This function is used to create `cross_tbl`

Usage

```r
tab(obj, var1, var2)
```

Arguments

- `obj` Object used to create the table. Data frame, list, or environment (or object coercible by `as.data.frame` to a data frame)
- `var1` Variable that you want the table (not written in string format)
- `var2` Variable that you want on the top of the table (not written in string format)

Value

A tibble to create `cross_tbl`

Examples

```r
mtcars |>
  fastrep::cross_tbl(cyl, am)
```
**Description**

This is the primary function of fastrep, with her you can make tables in HTML or LaTeX format, the main idea is to provide minimal parameters to create their own table, so you necessarily only need to provide a data.frame

**Usage**

```r
tbl(
  obj,
  title = "",
  format = NULL,
  code = FALSE,
  tabs = FALSE,
  full_page = TRUE,
  ...
)
```

**Arguments**

- **obj**
  Object used to create the table.
  data.frame, list or environment (or object coercible by as.data.frame to a data.frame)

- **title**
  Title for the table, write in string format

- **format**
  Format of table, write in string format. Possible values are "latex", "html".

- **code**
  If you want the table code to appear in the console, put code = TRUE, you can combine with format.

- **tabs**
  If you want a row separator inside table, put tabs = FALSE.

- **full_page**
  If you want the table not to take up the full width of the page, put full_page = FALSE.

- **...**
  Other arguments

**Value**

Your object of input in the format of a knitr_kable

**Note**

Remember that by default the format is "html"

The default of code is FALSE The default of tabs is TRUE The default of full_page is TRUE

The value of format will be automatically determined if the function is called within a knitr document
Examples

```r
iris %>%
  dplyr::group_by(Species) %>%
  dplyr::summarise(mean = mean(Sepal.Length)) %>%
  fastrep::tbl("THIS FUNCTION IS SO INCREDIBLE!"

mtcars |>
  dplyr::group_by(carb) |>
  dplyr::summarise(sd = sd(wt)) |>
  fastrep::tbl()
```
Index

cross_tbl, 2
describe, 2
freq_tbl, 3
rep_citation, 4
rep_na, 4
tab, 5
tbl, 6