

Package ‘fastrep’

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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

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 cross_tbl

cross_tbl

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

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

Value

A `knitr_kable` with 2x2 table fitted

Examples

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

 describe

describe

Description

In the base R we have the function `summary`, but the output is not 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. <code>data.frame</code> , list or environment (or object coercible by <code>as.data.frame</code> to a <code>data.frame</code>)
na_rm	option to remove NA from variables

Value

A tibble with `n` rows where `n` is equal to `ncol(obj)` and columns with the summary metrics

Examples

```
mtcars |>
  fastrep::describe()

airquality |> fastrep::describe(na_rm = FALSE)

iris |> fastrep::describe()
```

freq_tbl	<i>freq_tbl</i>
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Description

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

Usage

```
freq_tbl(
  obj,
  var,
  sort_by = {
    {
      var
    }
  },
  desc = FALSE
)
```

Arguments

obj	Object used to create the table. Data frame, list or environment (or object coercible by <code>as.data.frame</code> 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	<i>citation How to cite fastrep in your publications!</i>
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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	<i>rep_na</i>
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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 <code>as.data.frame</code> to a data.frame)
...	Other arguments

Value

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

Examples

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

tab	<i>tab</i>
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Description

This function is used to create `cross_tbl`

Usage

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

Arguments

obj	Object used to create the table. Data frame, list, or environment (or object coercible by <code>as.data.frame</code> 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

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

tbl	<i>tbl</i>
-----	------------

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

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

Arguments

<code>obj</code>	Object used to create the table. <code>data.frame</code> , <code>list</code> or environment (or object coercible by <code>as.data.frame</code> to a <code>data.frame</code>)
<code>title</code>	Title for the table, write in string format
<code>format</code>	Format of table, write in string format. Possible values are "latex", "html".
<code>code</code>	If you want the table code to appear in the console, put <code>code = TRUE</code> , you can combine with <code>format</code> .
<code>tabs</code>	If you want a row separator inside table, put <code>tabs = FALSE</code> .
<code>full_page</code>	If you want the table not to take up the full width of the page, put <code>full_page = FALSE</code> .
<code>...</code>	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

```
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()
```

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