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

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Repository CRAN

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R topics documented:

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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

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)
title	title for the table, write in string format
marg	Marginal row table, default is FALSE

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 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 `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 `ncol(obj)` and columns with the summary metrics

Examples

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

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

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

`freq_tbl`	*freq_tbl*

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 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!")
```

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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.

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rep_na   *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

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Value

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

Examples

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

---

tab	*tab*

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 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

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

---

tbl	*tbl*

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

`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

```
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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