

# Package: fastrep (via r-universe)

September 9, 2024

**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, tidyrr

**Suggests** covr, knitr, rmarkdown, testthat (>= 3.0.0)

**VignetteBuilder** knitr

**Config/testthat/edition** 3

**Encoding** UTF-8

**LazyData** true

**Roxygen** list(markdown = TRUE)

**RoxygenNote** 7.2.0

**BugReports** <https://github.com/AlissonRP/fastrep/issues>

**Repository** <https://alissonrp.r-universe.dev>

**RemoteUrl** <https://github.com/alissonrp/fastrep>

**RemoteRef** HEAD

**RemoteSha** 15327ce8d5f525c36ba83d0867cda05f9a4147e8

## Contents

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

**Index****8**


---

cross_tbl	<i>cross_tbl</i>
-----------	------------------

---

**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	<i>describe</i>
----------	-----------------

---

**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>
----------	-----------------

---

**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>
--------------	---

---

**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>
--------	---------------

---

**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  $\text{ncol}(\text{obj})$  and 2 columns

**Examples**

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

---

tab	<i>tab</i>
-----	------------

---

**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

*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**

<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()
```

# Index

cross\_tbl, 2

describe, 2

freq\_tbl, 3

rep\_citation, 4

rep\_na, 4

tab, 5

tbl, 6