

Package: tidytab (via r-universe)

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Title Create Tables of Frequencies

Version 0.3.0

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Description Functions to create tables of frequencies.

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URL <https://github.com/gvelasq/tidytab>,
<https://gvelasq.github.io/tidytab/>

BugReports <https://github.com/gvelasq/tidytab/issues>

Depends R (>= 3.2)

Imports crayon, dplyr, here, purrr, readr, rlang (>= 0.2.0), stats,
stringr, tibble, tidyr, tidyselect, utils

Suggests cli, covr, pkgdown, testthat (>= 3.0.0)

ByteCompile true

Config/testthat/edition 3

Encoding UTF-8

LazyData true

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.3

Config/pak/sysreqs libicu-dev libx11-dev

Repository <https://r-multiverse.r-universe.dev>

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Contents

%gin%	2
br	3
tab	3
Index	6

%gin%	<i>A reimagination of %in% for partial string matching</i>
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Description

%gin% is a reimagination of %in% using grepl() for partial string matching.

Usage

pattern %gin% x

Arguments

- | | |
|---------|---|
| pattern | Character string to be matched. |
| x | R object to be matched against. The object must be a character vector or an object coercible by as.character() to a character vector. |

References

%gin% was first written for [@ivelasq's r-data-recipes](#) GitHub repository.

Examples

```
# %in% evaluates to FALSE because it looks for full string matches
"t" %in% "tonic"

# %gin% evaluates to TRUE
"t" %gin% "tonic"

# %gin% can be used with tab()
tab("Toyota" %gin% rownames(mtcars))
```

br	<i>Browse data</i>
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Description

`br()` is an alias for `utils::View()` and invokes the data viewer. See `utils::View()` for details. `br()` invisibly returns its input so that it can be dropped into magrittr pipe chains.

Usage

```
br(x, title)
```

Arguments

<code>x</code>	An R object coercible into a data frame.
<code>title</code>	Optional title for viewer window.

tab	<i>Create tables of frequencies</i>
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Description

`tab()` creates n-way tables of frequencies in the R console, similar to those created by Stata's `tabulate` function. When three or more variables are passed to `tab()`, only flat tables are displayed. `ta()` is a shortened alias for `tab()`.

`ftab()` creates only flat tables of frequencies.

The convenience functions `tab1()` and `tab2()` are inspired by functions of the same name in Stata. They allow rapid tabulation of a set of variables. `tab1()` creates one-way tables of frequencies for each listed variable. `tab2()` creates two-way tables of frequencies for all listed variable combinations.

Usage

```
tab(x, ..., m = TRUE)

ta(x, ..., m = TRUE)

ftab(x, ..., m = TRUE)

tab1(x, ..., m = TRUE)

tab2(x, ..., m = TRUE)
```

Arguments

<code>x</code>	A vector, data.frame, or tibble.
<code>...</code>	A comma separated list of unquoted variable names or positions. Select helpers from dplyr and tidyselect are supported.
<code>m</code>	If TRUE (the default), missing values are reported.

Details

If a single variable is passed to `tab()`, a table of frequencies is printed (with a total row and columns 'Freq.', 'Percent', and 'Cum.').

If two variables are passed to `tab()`, a special 2x2 contingency table is printed (with a total row and a total column).

If three or more variables are passed to `tab()`, a flat contingency table is printed (with columns 'Freq.', 'Percent', and 'Cum.').

The invisibly returned tibble excludes total rows and columns to avoid collision of variable classes.

Value

A tibble containing a table of frequencies for the variables listed in `...`

See Also

The `statar` package by Matthieu Gomez provides a `tab()` function with output similar to `tidytab`'s `ftab()`. Both packages use a variant of `stataascii()` to format tables for display in the R console. Differences between the packages include:

- `tidytab` supports select helpers from **dplyr** and **tidyselect**.
- `tidytab` displays tables in colors: dark grey for block drawing characters and red for NAs.
- `tidytab` allows for tabulation of named and unnamed vectors.
- `tidytab` implements automatic table wrapping for tables wider than the R console.
- `tidytab`'s `tab()` and `ftab()` display a total row with total frequencies for one-way tabulations.
- `tidytab`'s `tab()` displays a special 2x2 contingency table for two-way tabulations (flat two-way tables are available with `ftab()`).
- `tidytab`'s convenience functions `tab1()` and `tab2()` allow for rapid tabulation of a set of variables into either one- or two-way tables.

The `janitor` package by Sam Firke provides the `tabyl()` function for SPSS-like tables of frequencies and adornments.

Base R provides the `ftable()` and `xtabs()` functions for unadorned tables of frequencies.

Examples

```
# one-way table of frequencies
mtcars |> tab(cyl)

# two-way table of frequencies (a special 2x2 contingency table)
mtcars |> tab(cyl, gear)

# flat contingency tables of three (or more) variables
mtcars |> tab(cyl, gear, am)

# tables wider than the R console are automatically wrapped
mtcars |> tab(cyl, gear, am, vs)

# missing values are displayed in red
tab(letters[24:27])

# ftab() displays only flat contingency tables (here, with two variables)
mtcars |> ftab(cyl, gear)

# tab1() displays one-way tables for each variable
mtcars |> tab1(cyl, gear)

# tab2() displays two-way tables for all variable combinations
mtcars |> tab2(cyl, gear, am)

# ta() is a shortened alias for tab(), inspired by Stata
mtcars |> ta(gear)
```

Index

`%gin%`, [2](#)

`br`, [3](#)

`ftab (tab)`, [3](#)

`ta (tab)`, [3](#)

`tab`, [3](#)

`tab1 (tab)`, [3](#)

`tab2 (tab)`, [3](#)