Package: tern.rbmi (via r-universe)

June 16, 2024

Title Create interface for rbmi and tern

Version 0.1.3

Date 2024-03-19

Description `RBMI` tabulation with `rtables` and `tern` packages.

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URL https://github.com/insightsengineering/tern.rbmi,
https://insightsengineering.github.io/tern.rbmi/

BugReports https://github.com/insightsengineering/tern.rbmi/issues

Depends R (>= 3.6), rbmi (>= 1.2.5), tern (>= 0.9.4)

Imports broom (>= 0.5.4), checkmate (>= 2.1.0), formatters (>= 0.5.6),
lifecycle (>= 0.2.0), magrittr (>= 1.5), rtables (>= 0.6.7)

Suggests dplyr (>= 1.0.3), knitr (>= 1.42), Matrix, rmarkdown (>=
2.19), testthat (>= 3.0.4), tidyr (>= 0.8.3)

VignetteBuilder knitr

Remotes insightsengineering/tern@*release

Config/Needs/verdepcheck insightsengineering/rbmi,
insightsengineering/tern, tidymodels/broom, mllg/checkmate,
insightsengineering/formatters, r-lib/lifecycle,
tidyverse/magrittr, insightsengineering/rtables,
tidyverse/dplyr, yihui/knitr, rstudio/rmarkdown,
r-lib/testthat, tidyverse/tidyr

Config/Needs/website insightsengineering/nesttemplate

Config/testthat/edition 3

Encoding UTF-8

Language en-US

LazyData true

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.1

Collate 'tabulate_rbmi.R' 'tern.rbmi-package.R'

Repository https://insightsengineering.r-universe.dev

RemoteUrl https://github.com/insightsengineering/tern.rbmi

RemoteRef v0.1.3

RemoteSha 87e71af219889c5a6aeb8752f5f4461b3c0d1d47

Contents

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a_rbmi_lsmeans	*Formatted Analysis function which can be further customized by calling [rtables::make_afun()](#) on it. It is used as* afun *in* [rtables::analyze()](#).

Description

[Experimental]

Usage

```
a_rbmi_lsmeans(df, .in_ref_col, show_relative = c("reduction", "increase"))
```

Arguments

df	input dataframe
.in_ref_col	boolean variable, if reference column is specified
show_relative	"reduction" if (control - treatment, default) or "increase" (treatment - control) of relative change from baseline?

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h_tidy_pool	*Helper function to produce data frame with results of pool for a single visit*

Description

[Experimental]

Usage

```
h_tidy_pool(x)
```

Arguments

x	(pool) is a list of pooled object from `rbmi` analysis results. This list includes analysis results, confidence level, hypothesis testing type.

Examples

```
data("rbmi_test_data")
pool_obj <- rbmi_test_data

h_tidy_pool(pool_obj$pars[1:3])
```

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rbmi_test_data	*Example dataset for* `tern.rbmi` *package. This is an pool object from the rbmi analysis, see* `browseVignettes(package = "tern.rbmi")`

Description

[Experimental]

Usage

```
rbmi_test_data
```

Format

An object of class `pool` of length 5.

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summarize_rbmi   *Analyze function for tabulating LS means estimates from tidied* rbmi
                                     pool *results.*

Description

[Experimental]

Usage

```
summarize_rbmi(
  lyt,
  ...,
  table_names = "rbmi_summary",
  .stats = NULL,
  .formats = NULL,
  .indent_mods = NULL,
  .labels = NULL
)
```

Arguments

`lyt`	(`layout`) input layout where analyses will be added to.
`...`	additional argument.
`table_names`	(`character`) this can be customized in case that the same `vars` are analyzed multiple times, to avoid warnings from `rtables`.
`.stats`	(`character`) statistics to select for the table.
`.formats`	(named `character` or `list`) formats for the statistics.
`.indent_mods`	(named `integer`) indent modifiers for the labels.
`.labels`	(named `character`) labels for the statistics (without indent).

Examples

```
library(rtables)
library(dplyr)
library(broom)

data("rbmi_test_data")
pool_obj <- rbmi_test_data
```

```
df <- tidy(pool_obj)

basic_table() %>%
  split_cols_by("group", ref_group = levels(df$group)[1]) %>%
  split_rows_by("visit", split_label = "Visit", label_pos = "topleft") %>%
  summarize_rbmi() %>%
  build_table(df)
```

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s_rbmi_lsmeans	*Statistics function which is extracting estimates from a tidied LS means data frame.*

Description

[Experimental]

Usage

```
s_rbmi_lsmeans(df, .in_ref_col, show_relative = c("reduction", "increase"))
```

Arguments

df	input dataframe
.in_ref_col	boolean variable, if reference column is specified
show_relative	"reduction" if (control - treatment, default) or "increase" (treatment - control) of relative change from baseline?

Examples

```
library(rtables)
library(dplyr)
library(broom)

data("rbmi_test_data")
pool_obj <- rbmi_test_data
df <- tidy(pool_obj)

s_rbmi_lsmeans(df[1, ], .in_ref_col = TRUE)

s_rbmi_lsmeans(df[2, ], .in_ref_col = FALSE)
```

| tidy.pool | *Helper method (for* broom::tidy() *) to prepare a data frame from an* pool rbmi *object containing the LS means and contrasts and multiple visits* |

Description

[Experimental]

Usage

```
## S3 method for class 'pool'
tidy(x, ...)
```

Arguments

x	(pool) is a list of pooled object from rbmi analysis results. This list includes analysis results, confidence level, hypothesis testing type.
...	Additional arguments. Not used. Needed to match generic signature only.

Value

A dataframe

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