Package 'tidysmd'

October 14, 2022

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Title Tidy Standardized Mean Differences
Version 0.1.1
Description Tidy standardized mean differences ('SMDs'). 'tidysmd' uses the 'smd' package to calculate standardized mean differences for variables in a data frame, returning the results in a tidy format.
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https://malcolmbarrett.github.io/tidysmd/
<pre>BugReports https://github.com/malcolmbarrett/tidysmd/issues</pre>
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nhefs_weights

NHEFS with various propensity score weights

Description

A dataset containing various propensity score weights for causaldata::nhefs_complete.

Usage

```
nhefs_weights
```

Format

A data frame with 1566 rows and 14 variables:

```
qsmk Quit smoking
```

race Race

age Age

education Education level

smokeintensity Smoking intensity

smokeyrs Number of smoke-years

exercise Exercise level

active Daily activity level

wt71 Participant weight in 1971 (baseline)

w_ate ATE weight

w_att ATT weight

w_atc ATC weight

w_atm ATM weight

w_ato ATO weight

tidy_smd

Tidy Standardized Mean Differences

Description

tidy_smd() calculates the standardized mean difference (SMD) for variables in a dataset between groups. Optionally, you may also calculate weighted SMDs. tidy_smd() wraps smd::smd(), returning a tidy dataframe with the columns variable, weights, and smd, as well as fourth column the contains the level of .group the SMD represents. You may also supply multiple weights to calculate multiple weighted SMDs, useful when comparing different types of weights.

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Usage

```
tidy_smd(
   .df,
   .vars,
   .group,
   .wts = NULL,
   include_unweighted = TRUE,
   na.rm = FALSE,
   gref = 1L,
   std.error = FALSE
)
```

Arguments

. df A data frame

.vars Variables for which to calculate SMD

.group Grouping variable

.wts Variables to use for weighting the SMD calculation

include_unweighted

Logical. If using .wts, also calculate the unweighted SMD?

na.rm Remove NA values from x? Defaults to FALSE.

gref an integer indicating which level of g to use as the reference group. Defaults to

1.

std.error Logical indicator for computing standard errors using compute_smd_var. De-

faults to FALSE.

Value

a tibble

Examples

```
tidy_smd(nhefs_weights, c(age, education, race), .group = qsmk)
tidy_smd(nhefs_weights, c(age, education), .group = qsmk, std.error = TRUE)

tidy_smd(
   nhefs_weights,
   c(age, race, education),
   .group = qsmk,
   .wts = c(w_ate, w_att, w_atm)
)
```

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