Package ‘codified’

September 30, 2018

Title Produce Standard/Formalized Demographics Tables

Description Augment clinical data with metadata to create output used in conventional publications and reports.

Version 0.2.0

Date 2018-09-06


BugReports https://github.com/OuhscBbmc/codified/issues

Depends R(>= 3.0.0), stats

Imports checkmate (>= 1.8.4), dplyr (>= 0.7.0), kableExtra, knitr (>= 1.18.0), magrittr, methods, readr (>= 1.1.0), rlang, tibble (>= 1.4.0), tidyr (>= 0.7.0)

Suggests devtools, REDCapR, rmarkdown, testthat (>= 2.0)

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LazyData TRUE

VignetteBuilder knitr

Encoding UTF-8

RoxygenNote 6.1.0

NeedsCompilation no

Author Will Beasley [aut, cre] (<https://orcid.org/0000-0002-5613-5006>), Peter Higgins [ctb]

Maintainer Will Beasley <wibeasley@hotmail.com>

Repository CRAN

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table_nih_enrollment  Produce an NIH-compliant enrollment table.

Description

Produce an NIH enrollment table, leveraging metadata to adapt to the observed data.frame.

Usage

```r
table_nih_enrollment(d, d_lu_gender = NULL, d_lu_race = NULL, d_lu_ethnicity = NULL, variable_gender = "gender", variable_race = "race", variable_ethnicity = "ethnicity")
```

Arguments

- **d**: data.frame of observed values in the investigation. Required.
- **d_lu_gender**: data.frame that maps the observed levels of gender to the NIH-recommended levels of gender. Required only if the levels are not the same.
- **d_lu_race**: data.frame that maps the observed levels of gender to the NIH-recommended levels of gender. Required only if the levels are not the same.
- **d_lu_ethnicity**: data.frame that maps the observed levels of gender to the NIH-recommended levels of gender. Required only if the levels are not the same.
- **variable_gender**: name of the gender variable in the d data.frame. Defaults to gender.
- **variable_race**: name of the race variable in the d data.frame. Defaults to race.
- **variable_ethnicity**: name of the ethnicity variable in the d data.frame. Defaults to ethnicity.

Details


Value

Table for publication

Author(s)

Will Beasley, Peter Higgins, Andrew Peters, Sreeharsha Mandem
Examples

library(magrittr)

d_1 <- tibble::tribble(~subject_id, ~gender, ~race, ~ethnicity,
1L, "Male", "Black or African American", "Not Hispanic or Latino",
2L, "Male", "Black or African American", "Not Hispanic or Latino",
3L, "Female", "Black or African American", "Unknown/Not Reported Ethnicity",
4L, "Male", "White", "Not Hispanic or Latino",
5L, "Male", "White", "Not Hispanic or Latino",
6L, "Female", "White", "Not Hispanic or Latino",
7L, "Male", "White", "Hispanic or Latino",
8L, "Male", "White", "Hispanic or Latino"
)

table_nih_enrollment(d_1)
table_nih_enrollment_pretty(d_1)

d_1 %>%
tidyrr::spread(key=gender, value=n)

table_nih_enrollment(d_1) %>%
dplyrr::mutate(
  gender_ethnicity = paste0(gender, " by ", ethnicity)
) %>%
dplyr::select(-gender, -ethnicity) %>%
tidyrr::spread(key=gender_ethnicity, value=n)

d_2 <- tibble::tribble(~subject_id, ~gender, ~race, ~ethnicity,
1L, "Male", "Black or African American", "Not Latino",
2L, "Male", "Black or African American", "Not Latino",
3L, "Female", "Black or African American", "Unknown",
4L, "Male", "White", "Not Latino",
5L, "Male", "White", "Not Latino",
6L, "Female", "White", "Not Latino",
7L, "Male", "White", "Latino",
8L, "Male", "White", "Latino"
)

d_lu_ethnicity <- tibble::tribble(~input, ~displayed,
"Not Latino", "Not Hispanic or Latino",
"Latino", "Hispanic or Latino",
"Unknown", "Unknown/Not Reported Ethnicity"
)

table_nih_enrollment(d_2, d_lu_ethnicity=d_lu_ethnicity)
table_nih_enrollment_pretty(d_2, d_lu_ethnicity=d_lu_ethnicity)

## read a 500-patient fake dataset
path <- system.file("misc/example-data-1.csv", package="codified")
d_3 <- readrr::read_csv(path) %>%
dplyr::mutate("
```r

gender = as.character(gender),
race = as.character(race),
ethnicity = as.character(ethnicity)
)

ds_lu_gender <- tibble::tribble(
  ~input, ~displayed
  , "0" , "Female",
  , "1" , "Male",
  , "U" , "Unknown/Not Reported"
)
ds_lu_race <- tibble::tribble(
  ~input, ~displayed
  , "1" , "American Indian/Alaska Native",
  , "2" , "Asian",
  , "3" , "Native Hawaiian or Other Pacific Islander",
  , "4" , "Black or African American",
  , "5" , "White",
  , "M" , "More than One Race",
  , "6" , "Unknown or Not Reported"
)
ds_lu_ethnicity <- tibble::tribble(
  ~input, ~displayed
  , "0" , "Not Hispanic or Latino",
  , "1" , "Hispanic or Latino",
  , "0" , "Unknown/Not Reported Ethnicity"
)

table_nih_enrollment(
  d = ds_3,
  d_lu_gender = ds_lu_gender,
  d_lu_race = ds_lu_race,
  d_lu_ethnicity = ds_lu_ethnicity
)

table_nih_enrollment_pretty(
  d = ds_3,
  d_lu_gender = ds_lu_gender,
  d_lu_race = ds_lu_race,
  d_lu_ethnicity = ds_lu_ethnicity
)
```
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