Package 'tidyREDCap'

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Title Helper Functions for Working with REDCap Data

Version 0.2.0

Description Helper functions for processing REDCap data in R. 'REDCap' (Research Electronic Data CAPture; <https://projectredcap.org>) is a web-enabled application for building and managing surveys and databases developed at Vanderbilt University.

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Encoding UTF-8

LazyData true

RoxygenNote 7.0.2

Depends R (>= 3.5.0)

Imports purrr, stringr, tibble, magrittr, dplyr, janitor, tidyr, rlang

Suggests testthat (>= 2.1.0), knitr, rmarkdown, redcapAPI

VignetteBuilder knitr

URL <https://raymondbalise.github.io/tidyREDCap/index.html>

BugReports <https://github.com/RaymondBalise/tidyREDCap/issues>

NeedsCompilation no

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Repository CRAN

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R topics documented:

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dropTags   *dropTags*

Description

Cuts html tags from a variable. Used to clean labels

Usage

```
dropTags(x)
```

Arguments

x   a string

Value

a string

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getLabel2   *Get a variable's label from a data frame and variable*

Description

Get a variable's label from a data frame and variable

Usage

```
getLabel2(data, aVariable)
```

Arguments

data   The name of the data set

aVariable   The name of the variable

Value

A variable's response label without the repeated text from of a *choose all that apply* question

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make_binary_word　　　　　*Convert a "choose all that apply" Question Into a Binary Word*

Description

This function takes a data frame holding binary variables with values corresponding to a dummy-coded "choose all that apply" question. It can be used for any *binary word* problem.

Usage

```
make_binary_word(df, yes_value = "Checked", the_labels = letters)
```

Arguments

df	A data frame with the variables corresponding to binary indicators (the dummy coded variables) for a "choose all that apply" question.
yes_value	A character string that corresponds to choosing "yes" in the binary variables of df. Defaults to the REDCap "Checked" option.
the_labels	A character vector of single letters holding the letters used to make the binary word. See the article/vignette called "Make Binary Word" for an example: https://raymondbalise.github.io/tidyREDCap/articles/makeBinaryWord.html.

Value

A character vector with length equal to the rows of df, including one letter or underscore for each column of df. For instance, if df has one column for each of the eight options of the Nacho Craving Index example instrument (https://libguides.du.edu/c.php?g=948419&p=6839916), with a row containing the values "Chips" (checked), "Yellow cheese" (unchecked), "Orange cheese" (checked), "White cheese" (checked), "Meat" (checked), "Beans" (unchecked), "Tomatoes" (unchecked) and "Peppers" (checked), then the character string corresponding to that row will be "a_cde__h". The underscores represent that the options for "Yellow cheese", "Beans", and "Tomatoes" were left unchecked.

Examples

```
test_df <- tibble::tibble(
  q1 = c("Unchecked", "Checked"),
  q2 = c("Unchecked", "Unchecked"),
  q3 = c("Checked", "Checked"),
  q4 = c("Checked", "Unchecked")
)
make_binary_word(test_df)
```

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make_choose_all_table   *Count The Reponses to a Choose All That Apply Question*

Description

Count The Reponses to a Choose All That Apply Question

Usage

```
make_choose_all_table(df, variable)
```

Arguments

df	The name of the data set
variable	The name of the REDCap variable

Value

A variable's response label without the choose all the question

---

make_choose_one_table   *make_choose_one_table*

Description

Pass this function either 1) a labeled factor or 2) a data frame and also a factor in the frame, and it will return a janitor-style table. Use subset = TRUE if you are making a report on a variable that is part of a *choose all that apply* question.

Usage

```
make_choose_one_table(arg1, arg2, subset = FALSE)
```

Arguments

arg1	data frame that has a factor or a factor name
arg2	if arg1 is a data frame, this is a factor name
subset	can be equal to TRUE/FALSE. This option removes extra variable name text from the label. This option is useful for *choose all that apply* questions.

Value

a table

---

make_instrument *Extract an Instrument from an REDCap Export*

Description

This function takes a data frame and the names of the first and last variables in an instrumnt and returns a data frame with the instrument.

Usage

```
make_instrument(df, first_var, last_var, drop_which_when = FALSE)
```

Arguments

df	A data frame with the instrument
first_var	The name of the first variable in an instrument
last_var	The name of the last variable in an instrument
drop_which_when	
	Drop the record_id and redcap_event_name variables

Value

A data frame that has an instrument (with at least one not NA value)

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taybull *taybull function*

Description

Make a labeled janitor table from a single variable

Usage

```
taybull(variable, subset = FALSE)
```

Arguments

variable	a factor to report on
subset	parse off extra variable if used with a choose all question

Value

a table

---

taybull2   *taybull2*

Description

Make a labeled janitor table from a dataset and variable

Usage

```
taybull2(data, aVariable, subset = FALSE)
```

Arguments

data	a dataframe that has the factor to report on
aVariable	a factor to report on
subset	TRUE/FALSE used to remove the repeated text from of a *choose all that apply* question

Value

a table

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