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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**R topics documented:**

- `dropTags` .......................................................... 2
- `getLabel2` .......................................................... 2
- `make_binary_word` ............................................... 3
- `make_choose_all_table` ........................................... 4
**dropTags**

- **Description**
  Cuts html tags from a variable. Used to clean labels

- **Usage**
  ```r
dropTags(x)
  ```

- **Arguments**
  - *x*: a string

- **Value**
  - a string

**getLabel2**

- **Description**
  Get a variable’s label from a data frame and variable

- **Usage**
  ```r
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
**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

```r
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

```r
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)
```
**make_choose_all_table**  
*Count The Responses to a Choose All That Apply Question*

**Description**
Count The Responses 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

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**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 instrument 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**

**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
Index

dropTags, 2

getLabel2, 2

make_binary_word, 3
make_choose_all_table, 4
make_choose_one_table, 4
make_instrument, 5

taybull, 5
taybull2, 6