Package 'hsstools'

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Title Simplify the HSS Data Process

Version 0.0.0.9000

Description A collection of functions to simplify and streamline the process of cleaning and analysing HSS data.

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Imports magrittr

R topics documented:

hssformat *Apply HSS formatting to contingency table*

Description

Apply HSS formatting to contingency table

Usage

```
hssformat(x)
```

Arguments

x	A flextable object.

Value

a formatted flextable.

Examples

```
WIP
```

hssformat_multi *Apply HSS formatting to multi-response contingecy table*

Description

Apply HSS formatting to multi-response contingecy table

Usage

```
hssformat_multi(x)
```

Arguments

x	A flextable object.

Value

A flextable object.

Examples

```
WIP
```

hsslabel *Apply English or Arabic labels to a flextable object.*

Description

Apply English or Arabic text labels to a flextable object. hsslabel() calls upon hsslabel_var() and hsslabel_val() which return a character string of length 1 containing the variable label, and a character string of length n containing the value labels respectively.

Usage

```
hsslabel(table, lang = "english", lookup = TRUE)

hsslabel_var(variable, lang = "english", lookup = TRUE)

hsslabel_val(variable, lang = "english", lookup = TRUE)
```

Arguments

table	A flextable object.
lang	The language to return. Accepts "en" or "ar".
lookup	Set to TRUE to use a lookup table for renamed variables.
variable	The variable name
dict_var	The dictionary object containing the variable names and labels.
dict_val	The dictionary object containing the value names and labels.
lookuplist	If lookup is set to TRUE, provide object containing the lookup list.

Value

A flextable object with question and response labels.

See Also

hssdict() to create a variable or value label dictionary, hssnewnames() for creating a lookuplist of renamed variables.

Examples

```
WIP
```

hss_chisq *Runs chi-squared test on selected variables*

Description

Runs chi-squared test on selected variables

Usage

```
hss_chisq(df, vars, group, full = FALSE)
```

Arguments

df	The dataframe containing the variable(s) of interest
vars	The variable(s) of interest. Accepts a single value or character string.
group	The grouping (or disaggregation) variable.
full	should the full results be returned. If set to FALSE, only p.value is returned

Value

A vector containing the results of the chi-squared test for the selected variables.

hss_create_dict *Create a dictionary of HSS variable or value labels*

Description

Create a dictionary of HSS variable or value labels

Usage

```
hss_create_dict(form, type = "var")
```

Arguments

form	Location of the XLS form
type	Use "var" to create a dictionary of variable names and labels. Use "val" to create a dictionary of value names and labels.

Value

A dataframe containing variable or value names and their associated text labels.

Examples

```
WIP
```

hss_create_lookuplist *Create a lookup list of old & new variable names from renaming in a Stata .do file*

Description

Create a lookup list of old & new variable names from renaming in a Stata .do file

Usage

```
hss_create_lookuplist(dofile)
```

Arguments

dofile	Location of the Stata .do file with renaming commands

Value

A list with all old & new names of renamed variables

See Also

namelookup() to lookup names in the generated list.

Examples

```
WIP
```

hss_create_question_list *Create a list of questions from XLS form*

Description

Create a list of questions from XLS form

Usage

```
hss_create_question_list(dict_path)
```

Arguments

dict_path	Path to the XLS form

Value

a named character vector with question type as name and the question/variable name as value.

hss_dummydata *Generates a dataframe for testing purposes.*

Description

Generates a dataframe for testing purposes.

Usage

```
hss_dummydata(rows = 500, seed = 1234)
```

Arguments

rows	An integer to set the number of rows to generate. Default is 500.
seed	Set the seed for random number generation. Default is 1234.

Value

A dataframe

Examples

```
df <- testdata(100)
```

hss_export_tables *Exports a list of data tables to .csv*

Description

Exports a list of data tables to .csv

Usage

```
hss_export_tables(df_list, path)
```

Arguments

df_list	A named list containing the data tables. The output of hss_write_tables() usually.
path	Where to store the .csv output.

hss_get_multi — *Find 'select multiple' response variables associated with a question variable.*

Description

Find 'select multiple' response variables associated with a question variable.

Usage

```
hss_get_multi(var)
```

Arguments

var	The variable for which 'select multiple' response variable are needed.
reverse	If set to TRUE returns the new variable names. FALSE returns old names.

Value

a character string with all associated 'select multiple' variable names.

hss_lookup_var — *Helper functions to look up variable or value names and labels.*

Description

These helper functions are used to look up info related to a specific variable. This can be the variable label, the associated value labels or the old/new variable name. These functions are mostly for use within other functions.

Usage

```
hss_lookup_var(var, input_col, return_col)

hss_lookup_val(var, input_col, return_col)

hss_lookup_list(var, reverse = FALSE)
```

Arguments

var	The variable name. Only a single character value is accepted, except for hss_lookup_list, which accepts a character string.
input_col	The column in which the variable name can be found
return_col	The column for which the associated value should be returned
reverse	If set to TRUE will return the new name instead of the old name. Set to FALSE by default.

Value

A character string containing the found value(s)

hss_mergetranslated *Merges HSS dataframe with dataframe containing translated columns*

Description

Merges HSS dataframe with dataframe containing translated columns

Usage

```
hss_mergetranslated(df, df_translated)
```

Arguments

df	The original HSS dataframe
df_translated	The dataframe containing "_ar" and translated "_en" columns

Value

A merged dataframe containing HSS data and all translated columns.

hss_overview_multi *Get overview table for 'select-multiple' questions*

Description

Get overview table for 'select-multiple' questions

Usage

```
hss_overview_multi(df, vars, percent = TRUE)
```

Arguments

df	The dataframe containing the questions
vars	Selected based on a string that identifies all relevant variables
percent	T/F

hss_overview_single *Create overview table for a group of similar 'select-one' questions*

Description

Create overview table for a group of similar 'select-one' questions

Usage

```
hss_overview_single(df, vars, percent = TRUE)
```

Arguments

df	The dataframe containing the questions
vars	Selected based on a string that identifies all relevant variables
percent	T/F

Value

A dataframe with the selected questions.

hss_surveyduration *Load raw HSS Data*

Description

Loads raw HSS datafile and performs some basic cleaning: proper encoding of Arabic, dates formatted as date-time objects, calculate survey duration.

Usage

```
hss_surveyduration(path, skip = 0)
```

Arguments

path	Path to the HSS data file. Expects a .csv file
skip	Number of rows to skip. Default is 0. Use this if you know how many rows contain test data.

Value

A dataframe with an added SurveyDuration column

hss_table_multi *Generate contingency table for multiresponse questions*

Description

Generate contingency table for multiresponse questions

Usage

```
hss_table_multi(df, var, group, percent = TRUE)
```

Arguments

df	The dataframe containing the multiresponse questions
group	A grouping (or disaggregation) variable.
percent	Set to TRUE to show percentages. Set to FALSE to show counts
resp	A character string of all response variables to include

Value

A contingency table containing the multiresponse answers and a grouping variable

hss_table_single *HSS Data Table Generation*

Description

HSS Data Table Generation

Usage

```
hss_table_single(df, var, group, percent = TRUE)
```

Arguments

df	A dataframe containing the variable of interest and grouping variable.
var	A character string with the variable name of interest.
group	A character string with the grouping (or disaggregation) variable.
percent	Set to TRUE to show percentages. Set to FALSE to show counts.

Value

A contingency table with the variable of interest and grouping variable.

hss_translate *Translate HSS content from Arabic to English*

Description

Translate HSS content from Arabic to English

Usage

```
hss_translate(df, apikey)
```

Arguments

df	the dataframe containing Arabic text columns. These columns are expected to end in "_ar"

Value

A dataframe containing Arabic text columns and their English translations.

hss_write_tables *Write tables to a list for selected variables*

Description

Write tables to a list for selected variables

Usage

```
hss_write_tables(df, questions, group, percent = TRUE)
```

Arguments

df	The dataframe containing relevant variables
questions	A named character vector containing variable names and the table type required.
group	The desired grouping/disaggregation variable.

Value

A named list of dataframes.

Index