Package 'corrtable'

November 2, 2023

Title Creates and Saves Out a Correlation Table with Significance
Title Creates and Saves Out a Correlation Table with Significance Levels Indicated
Version 0.1.1
Description After using this, a publication-ready correlation table with p-values indicated will be created. The input can be a full data frame; any string and Boolean terms will be dropped as part of functionality. Correlations and p-values are calculated using the 'Hmisc' framework. Output of the correlation_matrix() function is a table of strings; this gets saved out to a '.csv2' with the save_correlation_matrix() function for easy insertion into a paper. For more details about the process, consult https://paulvanderlaken.com/2020/07/28/ publication-ready-correlation-matrix-significance-r/>.
License GPL-3
Encoding UTF-8
RoxygenNote 7.2.1
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Author Paul van der Laken [aut] (https://orcid.org/0000-0002-0404-9114), Laura Lambert [ctb, cre] (https://orcid.org/0000-0003-4057-7114)
Maintainer Laura Lambert <laura.lambert.99@gmail.com></laura.lambert.99@gmail.com>
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2 correlation_matrix

Description

Creates a publication-ready / formatted correlation matrix, using Hmisc::rcorr in the backend.

Usage

```
correlation_matrix(
   df,
   type = "pearson",
   digits = 3,
   decimal.mark = ".",
   use = "all",
   show_significance = TRUE,
   replace_diagonal = FALSE,
   replacement = ""
)
```

Arguments

df	dataframe; containing numeric and/or logical columns to calculate correlations for	
type	character; specifies the type of correlations to compute; gets passed to Hmisc::rcorr; options are "pearson" or "spearman"; defaults to "pearson"	
digits	integer/double; number of decimals to show in the correlation matrix; gets passed to formatC; defaults to 3	
decimal.mark	character; which decimal.mark to use; gets passed to formatC; defaults to .	
use	character; which part of the correlation matrix to display; options are "all", "upper", "lower"; defaults to "all"	
show_significance		
	boolean; whether to add * to represent the significance levels for the correlations; defaults to TRUE	
replace_diagonal		
	boolean; whether to replace the correlations on the diagonal; defaults to FALSE	
replacement	character; what to replace the diagonal and/or upper/lower triangles with; defaults to "" (empty string)	

Value

a correlation matrix

save_correlation_matrix

Examples

```
correlation_matrix(iris)
correlation_matrix(mtcars)
```

```
save_correlation_matrix
```

Creates and save to file a fully formatted correlation matrix, using correlation_matrix and Hmisc::rcorr in the backend

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Description

Creates and save to file a fully formatted correlation matrix, using correlation_matrix and Hmisc::rcorr in the backend

Usage

```
save_correlation_matrix(df, filename, ...)
```

Arguments

df dataframe; passed to correlation_matrix

filename either a character string naming a file or a connection open for writing. "" indicates output to the console; passed to write.csv
... any other arguments passed to correlation_matrix

Value

'csv' file. No value is returned.

Examples

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