

Package ‘gsfuns’

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Type Package

Title Assorted functions for data preparation and analysis

Version 0.1.0

Description TBC

Imports lmtest, reshape2, sandwich, tidyverse, viridis

License GPL-2, GPL-3

Encoding UTF-8

LazyData true

RoxygenNote 7.1.0

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coefPlot	<i>Plot model coefficients in ggplot2</i>
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Description

Plot model coefficients in ggplot2

Usage

```
coefPlot(data, varname, estimate, se, col.var = NULL, legend.title = "Legend")
```

Arguments

<code>data</code>	Model output as dataframe, as returned by <code>tidy()</code> function (package <code>broom</code>) Must contain the following columns: variable name, estimate, etandard error
<code>varname</code>	Column containing variable names
<code>se</code>	Column with standard errors
<code>col.var</code>	Variable to map colors onto (defaults to <code>varname</code>)
<code>legend.title</code>	Legend title. Default: "Legend"

<code>coeftestCluster</code>	<i>Cluster standard errors on one or two variables</i>
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Description

Slightly modified function to cluster standard errors from `glm` or `lm` models. Taken from: https://github.com/iangow-public/acct_data/blob/master/code/cluster2.R

Usage

```
coeftestCluster(data, mod, namevec, cluster1, cluster2 = NULL, coeftest = T)
```

Arguments

<code>data</code>	Dataframe used to estimate model
<code>mod</code>	Model estimated using <code>glm</code> or <code>lm</code>
<code>namevec</code>	Names of model variables
<code>cluster1</code>	Clustering variable
<code>cluster2</code>	Second clustering variable (optional)
<code>coeftest</code>	Boolean. Return <code>coeftest</code> object (TRUE) or clustered variance-covariance matrix?

Value

`coeftest` object or a clustered variance-covariance matrix

<code>dataAsList</code>	<i>Function to convert dataframe into list organized by grouping variable</i>
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Description

Function to convert dataframe into list organized by grouping variable

Usage

```
dataAsList(data, groupingvar)
```

Arguments

data	Dataframe
groupingvar	grouping variable

Value

List with slots defined by grouping variable

generateSeries	<i>Expand interval dataframe into series</i>
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Description

Expand dataframe containing an interval into series defined by step size

Usage

```
generateSeries(  
  data,  
  start,  
  stop,  
  step = 1,  
  timeint = "day",  
  varname = "generate_series"  
)
```

Arguments

data	Dataframe
start	Variable that defines starting point of interval / series
stop	Variable that defines end point of interval / series
step	Step size of output series. Default: 1
timeint	Time increment, for dates only; Days, weeks, months, quarters or years. Default: days
varname	Name of series variable. Default: "generate_series"

Value

Dataframe containing series

plotGroupedNA	<i>Plot missing values grouped by a variable</i>
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Description

Returns a tile plot with percentages of missing observations for each grouped variable

Usage

```
plotGroupedNA(data, groupvar)
```

Arguments

data	Dataframe
groupvar	Variable to group missing observations by

Value

ggplot2 object

plotNA	<i>Plot missing values</i>
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Description

Returns a bar plot with missing values for each variable

Usage

```
plotNA(data)
```

Arguments

data	dataframe
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Value

ggplot2 object

theme_GS	<i>Custom ggplot theme using minimal elements</i>
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Description

Theme uses white background, minimal necessary elements, black axis text and slightly larger font sizes for axis text and titles than the default.

Usage

```
theme_GS()
```

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