Package 'eem'

November 9, 2015

Type Package

Title What the package does (short line)

Version 1.0

Date 2015-06-21

Author Who wrote it

Maintainer Who to complain to <yourfault@somewhere.net>

Description More about what it does (maybe more than one line)

License What license is it under?

R topics documented:

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eem-package   *What the package does (short line) ~~ package title ~~*

Description

More about what it does (maybe more than one line) ~~ A concise (1-5 lines) description of the package ~~

Details

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Package:	eem
Type:	Package
Version:	1.0
Date:	2015-06-21
License:	What license is it under?

~~ An overview of how to use the package, including the most important functions ~~

Author(s)

Who wrote it

Maintainer: Who to complain to <yourfault@somewhere.net> ~~ The author and/or maintainer of the package ~~

References

~~ Literature or other references for background information ~~

See Also

~~ Optional links to other man pages, e.g. ~~ ~~ <pkg> ~~

Examples

```
~~ simple examples of the most important functions ~~
```

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anonymize	*Anonimize a column in a data frame*

Description

Fast wrapper make a column in a data frame anonymous

Usage

```
anonymize(data, column, catalog = FALSE)
```

Arguments

data	data frame
column	number of column to make anonymous
catalog	if TRUE returns a catalog to bind the anonymous to the original data

Examples

```
df_anon <- anonymize(largedata, 1)
```

eem_colors	*color list for enelmargen.org graphs*

Description

Object of type:list, to be used interactively when `scale_colour_eem()` fails or is unavailable as a method.

Usage

```
eem_colors
```

Format

```
 chr [1:20] "#A84A44" "#E47D04" "#D8A19E" "#ae8b38" "#4d7c28" ...
```

Examples

```
# see first color:
eem_colors[1]
```

order_axis	*Interactively order columns in ggplot*

Description

Order a categorical variable by the values in a numerical variable in ggplot

Usage

```
order_axis(data, axis, column)
```

Arguments

data	data frame
axis	categorical axis
column	numerical variable by which to order

Examples

```
ggplot(order_axis(df, AXIS_X, COLUMN_Y),
       aes(x = AXIS_X_o, y = COLUMN_Y))
```

---

sample_df   *Obtain a sample of a dataframe*

Description

Fast wrapper to extract a sample (with no replacement) of n rows from a data.frame

Usage

```
sample_df(data, n, bagging = FALSE)
```

Arguments

data	data frame
n	number of rows desired
bagging	with replacement? TRUE for bagging

Examples

```
small <- sample_df(largedata, 500)
```

---

scale_colour_eem   *ggplot color scales for enelmargen.org*

Description

Style colors used in *www.enelmargen.org* as of july-2015.

Usage

```
scale_colour_eem(levels)
```

Arguments

levels	Number of diferente levels in a factor. If continous = use any number over 20.

Examples

```
dsamp <- diamonds[sample(nrow(diamonds), 1000), ]
q <- (qplot(carat, price, data=dsamp, colour=clarity)
      + ggtitle("Diamonds Are Forever"))
q + scale_colour_eem(20)
```

---

scale_fill_eem *ggplot color scales for enelmargen.org*

Description

Style colors used in *www.enelmargen.org* as of july-2015.

Usage

```
scale_fill_eem(levels)
```

Arguments

levels   Number of diferente levels in a factor. If continous = use any number over 20.

Examples

```
dsamp <- diamonds[sample(nrow(diamonds), 1000), ]
q <- (qplot(carat, price, data=dsamp, colour=clarity)
      + ggtitle("Diamonds Are Forever"))
q + scale_fill_eem(20)
```

---

split_df *Split a df into random sets*

Description

Fast wrapper to split a data frame into random training and test sets

Usage

```
split_df(data, p)
```

Arguments

data   data frame
p   percent desired in training set (test will be 1-p)

Note

returns list with two data frames

Examples

```
sets <- split_df(largedata, 0.75)
```

---

theme_eem *ggplot color theme for enelmargen.org*

Description

Style plots used in *www.enelmargen.org* as of july-2015.

Usage

```
theme_eem(font_size = 20, base_family = "Verdana", legend_bottom = TRUE,
  no_legendname = TRUE)
```

Arguments

font_size   font size. Default = 20.

base_family   base family. Default = Verdana.

legend_bottom   will the legend be at the bottom? Default = TRUE

no_legendname   will the legend have no title? Default = TRUE

Details

theme_eem implements the standard redish-brown background theme. theme_eem_white imple-
ments a variant with a white panel and background. theme_eem_pdf implements standard coloring
theme optimized for use in rmarkdown to pdf documents.

Examples

```
library(ggplot2)
library(eem)
dsamp <- diamonds[sample(nrow(diamonds), 1000), ]
q <- (qplot(carat, price, data=dsamp, colour=clarity)
      + labs(title = "Diamonds Are Forever"))
q + theme_eem()
```

---

theme_eem_pdf *ggplot color theme for enelmargen.org*

Description

Style plots used in *www.enelmargen.org* as of july-2015.

Usage

```
theme_eem_pdf(font_size = 10, base_family = "Verdana",
  legend_right = TRUE, no_legendname = TRUE)
```

Arguments

`font_size`	font size. Default = 10.
`base_family`	base family. Default = Verdana.
`no_legendname`	will the legend have no title? Default = TRUE
`legend_bottom`	will the legend be at the bottom? Default = TRUE

Details

theme_eem implements the standard redish-brown background theme. `theme_eem_white` implements a variant with a white panel and background. `theme_eem_pdf` implements standard coloring theme optimized for use in rmarkdown to pdf documents.

Examples

```
library(ggplot2)
library(eem)
dsamp <- diamonds[sample(nrow(diamonds), 1000), ]
q <- (qplot(carat, price, data=dsamp, colour=clarity)
    + labs(title = "Diamonds Are Forever"))
q + theme_eem_pdf()
```

---

theme_eem_white   *ggplot color theme for enelmargen.org*

Description

Style plots used in *www.enelmargen.org* as of july-2015.

Usage

```
theme_eem_white(font_size = 20, base_family = "Verdana",
  legend_bottom = TRUE, no_legendname = TRUE)
```

Arguments

`font_size`	font size. Default = 20.
`base_family`	base family. Default = Verdana.
`legend_bottom`	will the legend be at the bottom? Default = TRUE
`no_legendname`	will the legend have no title? Default = TRUE

Details

theme_eem implements the standard redish-brown background theme. `theme_eem_white` implements a variant with a white panel and background. `theme_eem_pdf` implements standard coloring theme optimized for use in rmarkdown to pdf documents.

Examples

```
library(ggplot2)
library(eem)
dsamp <- diamonds[sample(nrow(diamonds), 1000), ]
q <- (qplot(carat, price, data=dsamp, colour=clarity)
    + labs(title = "Diamonds Are Forever"))
q + theme_eem_white()
```

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