Package 'pepa'

October 23, 2015

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Type P	ackage			
Title Package for the Execution of Pre Cooked Analysis Version 0.1.0 Date 2015-10-22 Author Raul Eyzaguirre Maintainer Raul Eyzaguirre <r.eyzaguirre@cgiar.org></r.eyzaguirre@cgiar.org>				
		Descrip	Description This packages creates automatic reports for different types of statistical methodologies. Depends R (>= 3.0.0), st4gi	
		Depend		
		Imports rmarkdown		
		License	MIT + file LICENSE	
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R top	pty 1 pty_aovmet 2 pty_rcbd 3			
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pty	Pepa tells you			
Usage	olain an R object in plain English if she knows about it of (x, author = "International Potato Center")			

pty_aovmet

Arguments

x An R object. author Author.

Details

It uses a set of templates to explain R objects in plain English. It aims to produce automatic reports for some standard statistical procedures, most of them included in the st4gi package.

Value

It returns an automatic report about the selected R object.

Author(s)

Raul Eyzaguirre.

Examples

```
# Pepa tells you something about a data frame:
pty(pjpz09)
```

pty_aovmet

Pepa tells you about a MET with a RCBD

Description

Explain a fitted model for a multi environment trial (MET) with a RCBD in each environment in plain English.

Usage

```
pty_aovmet(trait, geno, env, rep, data, maxp = 0.1,
  author = "International Potato Center")
```

Arguments

trait The trait to analize.
geno The genotypes.
env The environments.

rep The replications or blocks.

data The name of the data frame containing the data.

maxp Maximum allowed proportion of missing values to estimate, default is 10%.

author Author.

Details

It fits a linear model for a MET with a RCBD and explains the results. If data is unbalanced, missing values are estimated up to an specified maximum proportion, 10% by default. Genotypes and environments are considered as fixed factors while the blocks are considered as random and nested into the environments.

pty_rcbd 3

Value

It returns an automatic report about the MET with a RCBD fitted model.

Author(s)

Raul Eyzaguirre.

Examples

```
pty_aovmet("y", "geno", "env", "rep", met8x12)
```

pty_rcbd

Pepa tells you about RCBD

Description

Explain a RCBD fitted model in plain English

Usage

```
pty_rcbd(trait, treat, rep, data, maxp = 0.1,
  author = "International Potato Center")
```

Arguments

trait The trait to analize.
treat The treatments.
rep The replications.

data The name of the data frame.

maxp Maximum allowed proportion of missing values to estimate, default is 10%.

author Author.

Details

It fits a linear model for a RCBD and explains the results. It also checks the assumptions.

Value

It returns an automatic report about the RCBD fitted model.

Author(s)

Raul Eyzaguirre.

Examples

```
pty_rcbd("trw", "geno", "rep", pjpz09)
```

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