Package 'pepa'

October 20, 2015

	October 20, 2013
Type Pack	rage
Title Package for the Execution of Pre Cooked Analysis	
Version 0.	1.0
Date 2015	-10-05
Author Ra	aul Eyzaguirre
Maintaine	r Raul Eyzaguirre <r.eyzaguirre@cgiar.org></r.eyzaguirre@cgiar.org>
Descriptio	n This packages creates automatic reports for different types of statistical methodologies.
Depends 1	R (>= 3.0.0), st4gi
Imports r	markdown
License M	IIT + file LICENSE
Copyright	International Potato Center (2015)
LazyData	true
Suggests t	estthat
NeedsCompilation no	
p ⁱ	s documented: ty
Index	
THUCK THE PROPERTY OF THE PROP	
pty	Pepa tells you
Descriptio Explai	n n an R object in plain English if she knows about it
Usage	
<pre>pty(x, author = "International Potato Center")</pre>	

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, block, data, author = "International Potato Center")
```

Arguments

trait The trait to analize.
treat The treatments.
block The blocks.

data The name of the data frame.

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)
```

Index

```
pty, 1
pty_aovmet, 2
pty_rcbd, 3
```