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anova.graph {AMC}
R Documentation

                                                ANOVA graphs
Description:

Creates a graph with the means of each treatment and the expected value if
there is no interaction
between the factors.

Usage:

anova.graph(dados)

Arguments:

dados  data.frame with the original data.


Details:

Data input must be an object of class data.frame in which the first column
must be a random variable
(block), the second and third columns must be the two factors of interest
and the fourth column must
be the response variable.
The columns names must be "bloco","A","B" and "resp".
The factors being tested must be dummy variables in the form of 0 (presence)
or 1 (absence) and the
blocks, which is not going to be tested, must be represented by an integer,
ranging from 1 untill nb
the total number of blocks).

Value:

The graph shows the relations between the factors effects in the form of the
treatments means.
The first of the two factors (second column of input data.frame) will be the
dependent variable and
the second one is represented by two types of line, as explicited in the
graphic legend.
The asterisik plotted in the graphic is the expected value of the treatment
combining the two factors
at the same time (treatment A.B, in this case).
The error bars are calculated using bootstrap (based on 999 resamples for
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each treatment).

Warning:

Probablility of commiting type I error (α) when doing multiple comparisons
may be underestimated.

Author(s):

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References:

Manly, B. F. J. (2007) Randomization, bootstrap and Monte Carlo methods in
Biology. (3rd ed.)
Chapman & Hall/CRC.

See also:

data.gen to create random data conformed with the randomized block design
involving two factors.
anova.MC to do a Monte Carlo test the effectes of two factor from randomized
block designs.
anova.power to perform a power analysis of Monte Carlo ANOVA.

Examples:

dados=data.gen(10,30,5,1,10,15,10)
anova.graph(dados)
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