byparser.r

denis

2021-07-15

#!/usr/bin/r  
  
# Comparison of BayesFactor against other packages  
# This R markdown file runs a series of tests to ensure that the BayesFactor   
# package is giving correct answers, and can gracefully handle probable input.  
library(arm)

## Loading required package: MASS

## Loading required package: Matrix

## Loading required package: lme4

##   
## arm (Version 1.11-2, built: 2020-7-27)

## Working directory is /home/denis/projects/perl/perlstyle/matrix/bin/desktop/coffeelp

library(lme4)  
  
# ANOVA  
# First we generate some data.  
# Number of participants  
N <- 20  
sig2 <- 1  
sig2ID <- 1  
  
# 3x3x3 design, with participant as random factor  
effects <- expand.grid(A = c("A1", "A2", "A3"),  
 B = c("B1", "B2", "B3"),  
 C = c("C1", "C2", "C3"),  
 ID = paste("Sub", 1:N, sep = ""))  
Xdata <- c(N\*sig2\*sig2ID, data = effects)  
beta <- matrix(c(50, -.2, .2, 0, 0, -.1, -.1, rnorm(N-1,0,sqrt(sig2ID)),  
 0,0,0,0,-.1,.1,.1,-.1,0,0,0,0,  
 0,0,0,0,0,0,0,0),  
 ncol = 1)  
effects$A = rnorm(sqrt(sig2))  
# Typical repeated measures ANOVA  
mns <- c(effects$A, list(effects$B, effects$c, effects$ID), mean)  
mns

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## 20 Levels: Sub1 Sub2 Sub3 Sub4 Sub5 Sub6 Sub7 Sub8 Sub9 Sub10 Sub11 ... Sub20  
##   
## [[544]]  
## standardGeneric for "mean" defined from package "base"  
##   
## function (x, ...)   
## standardGeneric("mean")  
## <environment: 0x558027d74228>  
## Methods may be defined for arguments: x  
## Use showMethods("mean") for currently available ones.