g.princals

It's R-script to improve aesthetic plotting of princals function of Gifi package

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Proposal

g.princals is a function designed to address aesthetic issues encountered when using plot.princals of "Gifi" package(3), which exclusively generates plots using a "graphic" package. g.princals leverages the power of the ggplot2 package, renowned for producing high-quality visuals.

Instruction

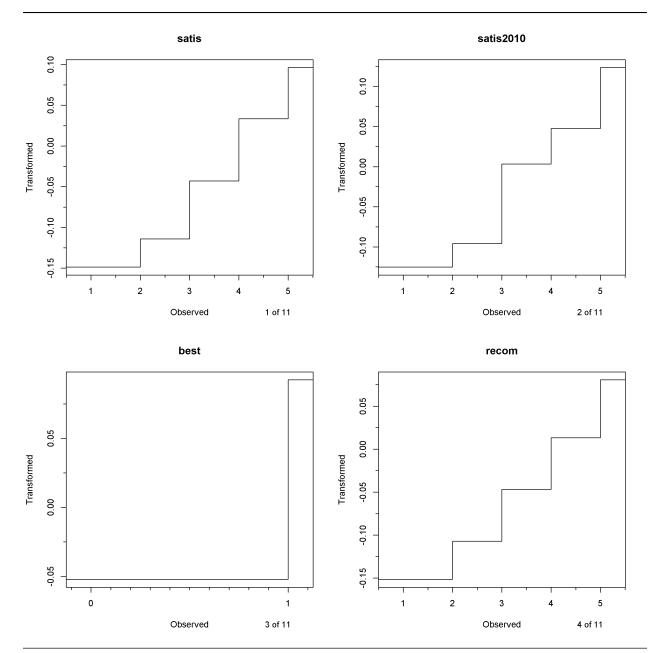
"g.princals" replaces the default "plot" function in R, generating customized graphics for customer items. - x: call a object was generated by princals(dataset). - plot.dim: Vector with dimensions to be plotted with the default condition being set to c(1, 2). - var.subset: with the default condition being set to "all" - max.plot.array: with the default condition being set to 2. - stepvec: Vector whether step function should be plotted (see details in princals/R Documentation).with the default condition being set to NA. - col.lines: colour of line. Default condition being set to "black". - main: Title of picture. Default condition being set to name of princals object. - show: Options to choose are TRUE,FALSE,T,F,1 and 0. Default condition being set to "1" mean it shows plots. - save: Options to choose are TRUE,FALSE,T,F,1 and 0. Default condition being set to "1" mean it saves plots. - name: label or name of princals object. Default condition being set to name of princals object. - units: unit of width/height in 'mm' - width: Default condition being set to 300 pixels.

R code

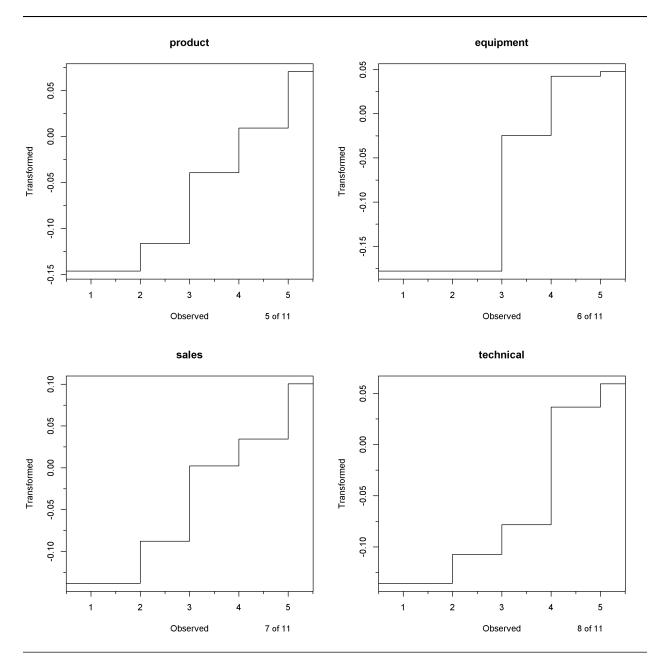
Finally, it were showed a picture which generated by "g.princals".

Output

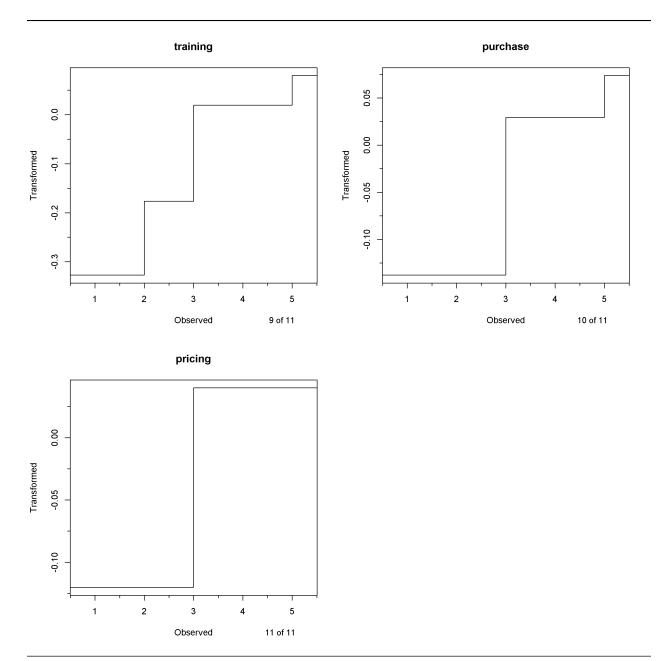
In this section, an R script and corresponding plots created using the g.princals function are presented.



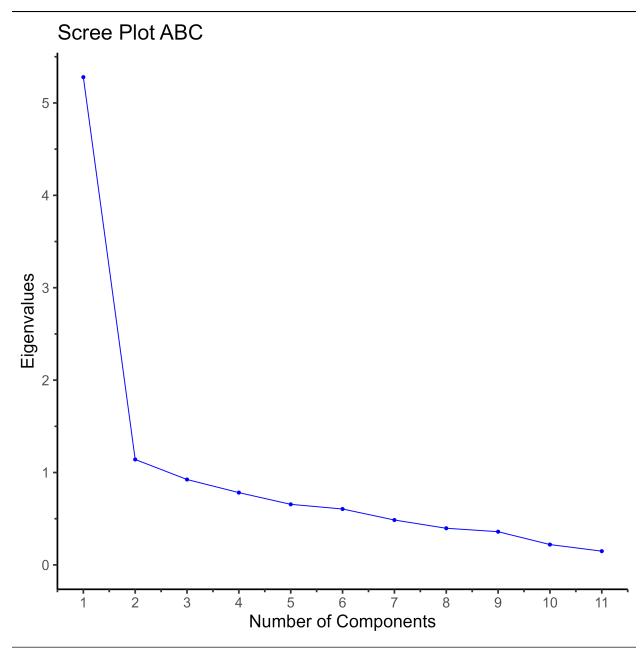
 $Picture. \ \textit{Transplots of ABC dataset, just 1} \ \overline{\textbf{1}} \ \textit{to 4 variables}$



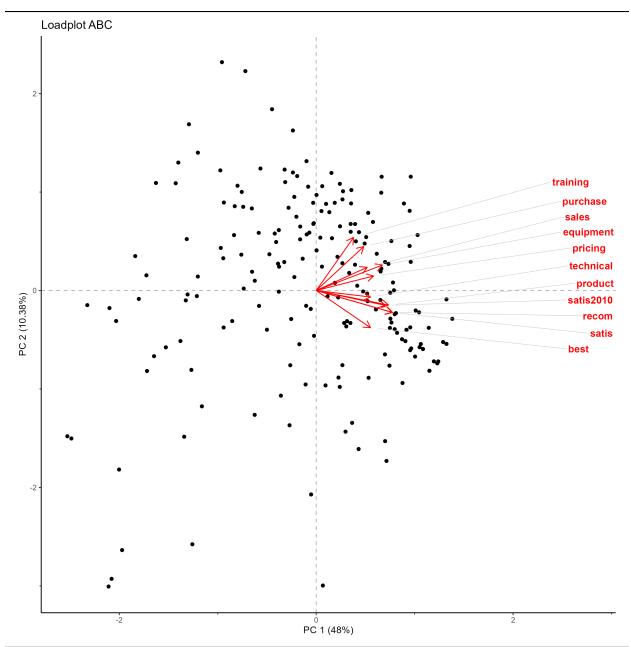
Picture. Transplots of ABC dataset, just 5 to 8 variables



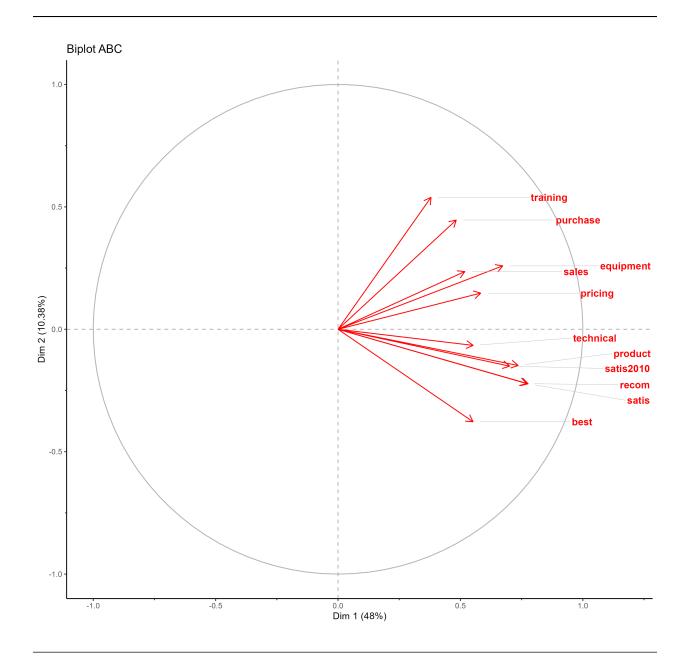
Picture. Transplots of ABC dataset, just 9 to 11 variables



Picture. Screeplot of ABC dataset



Picture. Loadplot of ABC dataset



Picture. Biplot of ABC dataset

Reference

 $\rm https://rdrr.io/rforge/Gifi/src/R/plot.princals.R$