Package ‘GGEBiplotGUI’

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Type Package

Title GGEBiplotGUI: Interactive GGE Biplots in R

Version 1.0-3

Date 2012-07-23

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Depends R (>= 2.14.2), rgl (>= 0.92.858), tcltk (>= 2.14.2), tkrplot (>= 0.0-23)

Description A GUI with which to construct and interact with GGE biplots.

License GPL (>= 2)

LazyData yes

Repository CRAN

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NeedsCompilation no

R topics documented:

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**GGEBiplotGUI: Interactive GGE Biplots in R**

**Description**

A GUI with which to construct and interact with GGE biplots.

**Details**

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The GGEBiplotGUI package provides a graphical user interface for the construction of, interaction with, and manipulation of GGE biplots in R. Some of the functions of the package are: (i) ranking the cultivars based on their performance in any given environment, (ii) ranking the environments based on the relative performance of any given cultivar, (iii) comparing the performance of any pair of cultivars in different environments, (iv) identifying the best cultivar in each environment, (v) grouping the environments based on the best cultivars, (vi) evaluating the cultivars based on both average yield and stability and (vii) evaluating the environments based on both discriminating ability and representativeness. Three-dimensional biplots are incorporated via the rgl package. GGEBiplotGUI is designed to run under any of the major platforms (Windows, Linux and MacOS X). It will be necessary to install the toolkit "bwidget".

**Author(s)**

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Ontario

Usage

GGEBiplot(Data)

Arguments

Data A data frame or matrix

Author(s)

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References

Gabriel, K. R. (1971) “The biplot graphical display of matrices with application to principal compo-


“Cultivar evaluation and mega-environment investigation based on GGE biplot.” Crop Sci, 40, 597-


and Agronomists.” CRC Press, Boca Raton, FL, USA.

Examples

data(Ontario)
GGEBiplot(Data = Ontario)

Description

The sample data are yields from the 1993 Ontario winter wheat (Triticum aestivum L.) performance

trials, in which 18 cultivars were tested at nine locations (Yan and Kang 2003).

Usage

data(Ontario)

Format

A data frame with 18 observations on the following 10 variables.

Source

Yan W, Kang MS (2003). “GGE Biplot Analysis: A Graphical Tool for Breeders, Geneticists, and

Agronomists.” CRC Press, Boca Raton, FL, USA.

Examples

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