

Package ‘cncaGUI’

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Type Package

Title Canonical Non-symmetrical Correspondence Analysis in R

Version 0.0-2

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Depends R (>= 2.14.2), rgl (>= 0.92.858), tcltk (>= 2.14.2), tcltk2 (>= 1.2-3), tkrplot (>= 0.0-23)

Description Provides a GUI with which users can construct and interact
with Canonical Non-symmetrical Correspondence Analysis.

License GPL (>= 2)

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R topics documented:

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cncaGUI-package

Canonical Non-symmetrical Correspondence Analysis package

Description

Provides a GUI with which users can construct and interact with Canonical Non-symmetrical Correspondence Analysis

Details

Package: cncaGUI
Type: Package
Version: 0.0-2
Date: 2012-07-01
License: GPL (>=2)
LazyLoad: yes

Author(s)

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cnca

Canonical Non-symmetrical Correspondence Analysis in R

Description

Provides a GUI with which users can construct and interact with Canonical Non-symmetrical Correspondence Analysis

Usage

```
cnca(fespecies, fvambientales)
```

Arguments

fespecies a data frame with information about species
fvambientales a data frame with information about enviromental variables

Details

When the function is launched, firstly, you can change the names of the sets of species, variables and sites. Then, an options window is displayed where you can change the color, the size, the label and/or the symbol of an element or of a set of elements; to select the transformation data; to tick the checkbox to show the axes in the graph; to tick the checkbox to show the points representing the sites and to tick the checkbox to show the sites labels. Press the Graph button and choose the number of axes to be retained. When the graph will be shown the function will allow you to change characteristics of the points with the mouse. Press the right mouse button and a window will be displayed to change the color, the size, the label and/or the symbol of the nearest point of position clicked. Press the left mouse button and a window will be displayed to select one option: Change the position label, Remove label or Do nothing. Press the 3D button and a window will be displayed with the 3D-graph.

Value

A graph showing the data representation and an output file containing the contributions, qualities of representation, coordinates and eigen values

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References

Willems P, Galindo P (2008). "Canonical non-symmetrical correspondence analysis: an alternative in constrained ordination." *SORT*, **32(1)**, 93–112.

Examples

```
data(especies)
data(variables)
cnca(especies, variables)
```

especies

Species data

Description

12 species of hunting spiders caught in pitfall traps in a Dutch dune area Ter-Braak (1986).

Usage

```
data(especies)
```

Format

A data frame with 28 observations on 12 variables.

References

Ter-Braak CJF (1986). "Canonical Correspondence Analysis: a New Eigenvector Technique for Multivariate Direct Gradient Analysis." *Ecology*, **67(5)**, 1167-1179

Examples

```
data(especies)
```

variables

Environmental variables data

Description

Six environmental variables measured in 28 sites

Usage

```
data(variables)
```

Format

A data frame with 28 observations on 6 variables.

References

Ter-Braak CJF (1986). "Canonical Correspondence Analysis: a New Eigenvector Technique for Multivariate Direct Gradient Analysis." *Ecology*, **67(5)**, 1167-1179

Examples

```
data(variables)
```

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