

# Package ‘MDSGUI’

February 19, 2015

**Type** Package

**Title** A GUI for interactive MDS in R

**Version** 0.1.6

**Date** 2012-08-28

**Author** Andrew Timm and Sugnet Gardner-Lubbe

**Maintainer** Andrew Timm <timmand@gmail.com>

**Depends** MASS, boot, RColorBrewer, scatterplot3d, tcltk, tcltk2,  
tkrplot, rpanel, graphics, rgl

**Description** A graphical user interface (GUI) for performing Multidimensional Scaling applications and interactively analysing the results all within the GUI environment. The MDS-GUI provides means of performing Classical Scaling, Least Squares Scaling, Metric SMACOF, Non-Metric SMACOF, Kruskal's Analysis and Sammon Mapping with animated optimisation.

**License** GPL (>= 3)

**LazyLoad** yes

**OS\_type** windows

**SystemRequirements** windows, 'BWidget', 'Tktable'

**Repository** CRAN

**Repository/R-Forge/Project** mdsgui

**Repository/R-Forge/Revision** 24

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**NeedsCompilation** no

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MDSGUI-package

*An R package providing access to the MDS-GUI*

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### Description

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### Details

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Package: MDSGUI  
Type: Package  
Version: 0.1  
Date: 2012-08-28  
License: GPL (>= 3)  
LazyLoad: yes

### Note

The GUI was developed in R with the tcltk package. For the best results it is recommended that R-2.13.0 be used. Also, package version 2\_1.1-5 of tcltk2 and 0.0-23 of tkrplot produce the best results.

### Author(s)

Andrew Timm and Sugnet Gardner-Lubbe

Maintainer: Andrew Timm <timmand@gmail.com>

### References

All MDS is based on the theory covered in "Multidimensional Scaling: Second Edition" by Cox, T.G. and Cox, M.A. (2001) and "Modern Multidimensional Scaling: Theory and Applications Second Edition" by Borg, I. and Groenen, P.J.F. (2005).

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MDSgui

*A GUI for interactive MDS in R*

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**Description**

A graphical user interface (GUI) for performing Multidimensional Scaling applications and interactively analysing the results all within the GUI environment. The MDS-GUI provides means of performing Classical Scaling, Least Squares Scaling, Metric SMACOF, Non-Metric SMACOF, Kruskals Analysis and Sammon Mapping with animated optimisation.

**Usage**

```
MDSgui()
```

**Details**

MDSgui is the sole function available to the user from the MDSGUI package. The function calls the MDS-GUI (Multidimensional Scaling Graphical User Interface).

The function requires no parameters when called and data to be analysed is loaded from the MDS-GUI.

**Note**

The GUI was developed in R with the tcltk package. For the best results it is recommended that R-2.13.0 be used. Also, package version 2\_1.1-5 of tcltk2 and 0.0-23 of tkrplot produce the best results.

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**See Also**

Refer to the software User Manual and Vignette for information on the use of the MDS-GUI

**Examples**

```
## Not run: MDSgui()
```

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ShepFirstRun

*A supporting function to the MDS-GUI*

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**Description**

This function is not intended for use by user. It is instead called upon by the MDS-GUI.

**Note**

This function was found to be most effecient when treated as an individual function and not nested within the MDSgui function. The function should not be used independantly.

**Author(s)**

Andrew Timm

**See Also**

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