

# Package ‘RcmdrPlugin.MAd’

March 19, 2010

**Type** Package

**Title** Meta-Analysis with Mean Differences (MAd) Rcmdr Plug-in

**Version** 0.4

**Date** 2010-03-19

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**Description** This is an R-Commander plug-in for the MAd package (Meta-Analysis with Mean Differences). This package enables the user to conduct a meta-analysis in a menu-driven, graphical user interface environment (e.g., SPSS), while having the full statistical capabilities of R and the MAd package. The MAd package itself contains a variety of useful functions for conducting a research synthesis with mean differences data. One of the unique features of the MAd package is in its integration of user-friendly functions to complete many of the statistical steps involved in a meta-analysis with mean differences. It uses recommended procedures as described in *The Handbook of Research Synthesis and Meta-Analysis* (Cooper, Hedges, & Valentine, 2009).

**Depends** R (>= 2.10.1), Rcmdr, MAd

**Suggests** ggplot2

**License** GPL-2

**Log-Exceptions**

**Models**

**Repository** CRAN

**Date/Publication** 2010-03-19 15:05:37

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 RcmdrPlugin.MAd-package

*Meta-Analysis with Mean Differences (MAd) Rcmdr Plug-in*


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## Description

This package provides an Rcmdr plug-in for the **MAd** package, which is useful for conducting meta-analyses with mean differences data. This package will run all of the meta-analytic functions from the **MAd** package through a familiar Graphical User Interface (GUI) environment (e.g., SPSS). For more details regarding the **MAd** package, please see the **MAd** link on the CRAN website <http://CRAN.R-project.org/package=MAd>

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Package:    RcmdrPlugin.MAd-package
Type:       Package
Version:    0.4
Date:       2010-03-19
License:    GPL-2
LazyLoad:   yes
  
```

## Author(s)

AC Del Re

Maintainer: AC Del Re <acdelre@gmail.com>

## References

AC Del Re & William T. Hoyt (2010). *MAd: Meta-Analysis with Mean Differences*. R package version 0.3. <http://CRAN.R-project.org/package=MAd>

## See Also

**MAd** package: <http://CRAN.R-project.org/package=MAd>; **MAc** package: <http://CRAN.R-project.org/package=MAc>; **RcmdrPlugin.MAc** package: <http://CRAN.R-project.org/package=RcmdrPlugin.MAc>

## Examples

```

# Implementing the RcmdrPlugin.MAd package:

# 1. Begin the meta-analysis project using Excel (or a similar program) and be sure
# to have a column for id (study id), m.1 (post-test mean for treatment group),
# n.1 (treatment sample size), sd.1 (treatment standard deviation), m.2 (post-test
# mean for control/comparison group), n.2 (control/comparison sample size),
# sd.2 (control/comparison standard deviation), and all moderators. Alternatively,
# having columns for d and/or g (standardized mean difference), var.d and/or var.g
# (variance of standardized mean difference), n.1 (treatment sample size), n.2
# (control/comparison sample size). All other variables (i.e., moderators)
  
```

```
# can be named to ones liking and should be integrated in the same dataset.
# Note: this package requires the names of the required variables to be named
# exactly as stated above or the functions will not output data.
# 2. Import the worksheet or data into R:
# 2a. Save main data file (excel or spss) to a .csv file (e.g., see save options in
# Excel)
# 2b. Import the .csv data file using setwd() into R by setting the R working
# directory to the location of your .csv data file. e.g., at the R command prompt
# type: setwd("C:/Users/Desktop/R")
# Or, if preferred, use the R menu: File --> Change Dir --> (location of .csv file)
# 2c. Then, use a similar command to import the data:
# mydata <- read.csv("MetaData.csv", header=TRUE, na.strings="")
# Where 'mydata' is the name of the 'object' that the data file will be saved as,
# which can be recalled by typing the name of the object and hitting return. This
# name can be any desired name. Withing the parentheses of the command, be sure
# to match the name of the .csv exactly as named in the saved .csv file. Note:
# If the file successfully imports there will be no feedback regarding the import.
# Checking to see if the file imported successfully, type ls() at the command prompt
# and the name of the file should appear on the screen.
# 3a. Next step is to download the RcmdrPlugin.MAd package (and other relevant packages
# if they are not automatically downloaded). This package will allow the user to
# conduct their meta-analysis (using the MAd package) in a menu-driven Graphical
# User Interface (GUI) environment, which is similar to the format of the SPSS
# program. To download the RcmdrPlugin.MAd package, open R locally and look toward
# the top where the pull-down menus reside. Click on: Packages --> (select a
# CRAN mirror--find any mirror that is in relatively close proximity,
# if possible) --> (scroll down to RcmdrPlugin.MAd and click on it).
# 3b. After the package(s) are downloaded, type: library(RcmdrPlugin.MAd) at the R
# command prompt. This will load the Rcmdr GUI with the MAd package's meta-analysis
# functions in its own pull-down menu (on the top right of the program). From
# here, the researcher can use the pull-down menu to run all analyses. The first
# step in analyzing data is to click to the right of 'Data set' (top left) that
# says <No active dataset> and then select the data file that was just imported.
# If the imported data file does not show up then it was not
# imported properly. Otherwise, everything should be ready to run!
```

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