

# Package: blindreview (via r-universe)

September 17, 2024

**Title** Enables Blind Review of Database

**Version** 2.0.0

**Description** Randomly reassigns the group identifications to one of the variables of the database, say Treatment, and randomly reassigns the observation numbers of the dataset. Reorders the observations according to these new numbers. Centers each group of Treatment at the grand mean in order to further mask the treatment. An unmasking function is provided so that the user can identify the potential outliers in terms of their original values when blinding is no longer needed. It is suggested that a forward search procedure be performed on the masked data. Details of some forward search functions may be found in <https://CRAN.R-project.org/package=forsearch>.

**Depends** R (>= 4.2)

**License** GPL (>= 3)

**SystemRequirements** gmp (>= 4.1)

**Encoding** UTF-8

**RoxygenNote** 7.2.3

**Imports** Hmisc(>= 4.7.2)

**Suggests** rmarkdown, knitr

**NeedsCompilation** no

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**Repository** https://githubwilly.r-universe.dev

**RemoteUrl** https://github.com/cran/blindreview

**RemoteRef** HEAD

**RemoteSha** 4c2f3f33d4430a9ba985dca3818a19d76dc8cabb

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brMask	<i>Enables Blind Review of Database</i>
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### Description

Assigns identification randomly to one of the variables of the dataset as chosen by the user, say Treatment, and assigns random number to the observations of the dataset. Reorders the observations. A file is created so that the user can identify any outliers identified by the review in terms of their original, unchanged values.

### Usage

```
brMask(data, blinded, verbose=TRUE)
```

### Arguments

data	Database to be evaluated
blinded	Character, name of variable to be blinded
verbose	TRUE causes function identifier to display before and after run

### Details

The first variable of the database must be Observation. The first element of the brMask object is the database to be reviewed blindly.

### Value

LIST	
Masked DataFrame	Database with substitute variable and substitute observation numbers
Randomization Date	Date of randomization of blinded items
Variable	Codes for unblinding variable that was blinded
Observations	Codes for unblinding observation numbers
Call	Call to this function

### Author(s)

William R. Fairweather

## References

Atkinson, A and M Riani. Robust Diagnostic Regression Analysis, Springer, New York, 2000.  
 Pinheiro, JC and DM Bates. Mixed-Effects Models in S and S-Plus, Springer, New York, 2000.  
<https://CRAN.R-project.org/package=forssearch> E9 Statistical Principles for clinical Trials, US Food & Drug Administration and International Conference on Harmonization, 1998

## Examples

```
Observation <- 1:14
Dose <- c(3.4,5.2,7,8.5,10.5,13,18,21,28,6.5,10,14,21.5,29)
Prep <- factor(c(rep(0,9),rep(1,5)))
Convulse <- c(0,5,11,14,18,21,23,30,27,2,10,18,21,27)
Total <- c(33,32,38,37,40,37,31,37,30,40,30,40,35,37)
NoConvulse <- Total-Convulse
mice <- data.frame(Observation,Dose,Prep,Convulse>Total,NoConvulse)
brMask(data=mice,blinded="Prep")
```

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unmask	<i>Print Tables of Encoded and Original Variable IDs and Observation Numbers</i>
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## Description

Prints tables resulting from masking performed by brMask function to permit user to identify potential outliers by their original identities

## Usage

```
unmask(object, obsrange=NULL, verbose=TRUE)
```

## Arguments

object	Name of brMask object
obsrange	NULL or vector of integers, NULL causes entire data frame of observation numbers to be printed
verbose	TRUE causes function identifier to display before and after run

## Value

None returned, printout only

## Author(s)

William R. Fairweather

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