Package 'GetR'

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Type Package

Title GetR: Calculate Guttman error trees in R

Version 0.1

Date 2013-02-16

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Description The GetR package calculates Guttman error trees, which can
be used to find homogeneous subgroups regarding Guttman errors.

Depends party

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Description

The GetR package calculates Guttman error trees, which can be used to find homogeneous sub-
groups regarding Guttman errors.

Details

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Author(s)

Johannes Beller, Soeren Kliem

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checkData   *Perform a data check*

Description

Performs various data checks to see if the data are applicable for Guttman error tree analysis.

Usage

```
checkData(data)
```

Arguments

data   a data.frame or matrix.

Details

Function was adapted from the mokken Package (van der Ark, 2007).

Value

Returns a data.frame or throws an error if something is wrong with the dataset.

References

Van der Ark, L. A. (2007). Mokken scale analysis in R. Journal of Statistical Software. http://www.jstatsoft.org/v20/i11

Examples

```
###
1+1
```

Communality   *Communality Data*

Description

Dataset containing responses to one of the Adjective Checklist scales.

Usage

```
data(Communality)
```

Source

Data were adapted from the mokken Package (van der Ark, 2007).

References

Van der Ark, L. A. (2007) Mokken scale analysis in R. *Journal of Statistical Software*. http://www.jstatsoft.org/v20/i11

Examples

```
data(Communality)
```

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gTree   *Calculate Guttman error trees using recursive partitioning*

Description

The gTree function calculates Guttman error trees ("GETs") by recursively partitioning the Guttman errors.

Usage

```
gTree(formula, data = list(), type = "once")
```

Arguments

formula	a formula.
data	a data.frame
type	a factor. Has currently no use.

Value

Returns a Guttman error tree.

Examples

```
data(Communality)
Communality$ge <- guttmanErrors(Communality[,1:10])
Communality.tree <- gTree(ge ~ sex + age, data = Communality)
plot(Communality.tree)
```

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guttmanErrors   *Calculate Guttman errors*

Description

The function returns the number of Guttman errors for each participant.

Usage

```
guttmanErrors(data)
```

Arguments

data   a matrix or data.frame which comprises the participant's responses.

Details

Function was adapted from the mokken Package (van der Ark, 2007).

Value

Numeric vector with the number of Guttman errors per participant.

References

Van der Ark, L. A. (2007) Mokken scale analysis in R. *Journal of Statistical Software*. http://www.jstatsoft.org/v20/i11

Examples

```
data(Communality)
ge <- guttmanErrors(Communality[,1:10])
hist(ge)
```

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