

Package ‘Rz’

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Type Package

Title GUI Tool for Data Management like SPSS or Stata

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Description R is very powerful but it lacks some of the functionalities found in Stata or SPSS to manage survey data. The 'memisc' package provides these (variable labels, value labels, definable missing values and so on), but to efficiently work these functions need a graphical interface to allow the user to get an overview of the data. This package provides such a graphical interface, similar in fashion to SPSS's Variable View and data managing system. It uses the 'memisc' package as its backend. Additionally, 'Rz' has a powerful plot assistant interface based on 'ggplot2'.

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URL <http://m884.jp/Rz.html>

Depends R (>= 2.14), methods, grid, foreign, memisc, psych, ggplot2 (>= 0.9.2)

Suggests quantreg, Hmisc, cairoDevice, vcd

Imports RGtk2 (>= 2.20), formatR

NeedsCompilation no

Repository CRAN

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Rz-package	<i>GUI Tool for Data Management like SPSS or Stata</i>
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Description

R is very powerfull but not enough for social science because of lack in some functionality for managing survey data SPSS or Stata provides. Memisc package supplements those, variable labels, value labels, definable missing values and so on, but to efficiently work these functions need graphical interface to overlook data. This package provides such graphical interface similar to SPSS's Variable View and data managing system using memisc package as backend. Additionally, Rz has powerful plot assistant interface based on ggplot2.

Details

Simply excute Rz() to start.

See Also

[RzThemeEditor](#)

crossTable	<i>Cross Tabulation</i>
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Description

Output well-formatted cross tabulation. Also can genarate latex syntax of cross tabulation.

Usage

```
crossTable(..., deparse.level = 2)
## S3 method for class 'CrossTable'
summary(object, digits=3, latex=FALSE, ...)
```

Arguments

deparse.level passed to [table](#)
... passed to [table](#)
object crossTable object
digits integer, used for number formatting
latex logical, generate latex syntax if TRUE

Value

crossTable returns a object which belongs to CrossTable class and table class.

Author(s)

Masahiro Hayashi

Examples

```
sex <- factor(rbinom(1:1000, 1, 0.5), labels=c("male" , "female"))
age <- factor(rbinom(1:1000, 2, 0.4), labels=c("young", "middle", "old"))
weight <- factor(rbinom(1:1000, 2, 0.6), labels=c("light", "middle", "heavy"))

cross.table1 <- crossTable(sex, age)
summary(cross.table1)

cross.table2 <- crossTable(sex, age, weight)
summary(cross.table2)

summary(cross.table2, latex = TRUE)
```

rzAddData

Add data.set to Rz

Description

Add data.set to Rz

Usage

```
rzAddData(data.set, name = NULL)
```

Arguments

data.set data.set or data.frame to be added.
name data.set.name

Details

Add data.set to Rz

Author(s)

Masahiro Hayashi

See Also

[rzReloadData](#), [rzAddItem](#)

rzAddItem

Add a variable to a dataset

Description

Add a variable to a dataset

Usage

```
rzAddItem(item, name = as.character(substitute(item)),
          data.set.name = NULL, description = name,
          measurement = c("auto", "nominal", "ordinal", "interval", "ratio"),
          overwrite = FALSE, ask = FALSE)
```

Arguments

item	an item object or a variable such as factor or numeric.
name	character: the variable name.
data.set.name	character: a name of a dataset in Rz. NULL means the current dataset.
description	character: the variable label.
measurement	character: measurement of the variable.
overwrite	logical: if TRUE will overwrite an existing variable.
ask	logical: confirm execution if TRUE.

Author(s)

Masahiro Hayashi

See Also

[rzAddData](#), [rzReloadData](#)

rzReloadData	<i>Reload data.set from globalenv</i>
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Description

Reload data.set from globalenv

Usage

```
rzReloadData(data.set.name = NULL, ask = TRUE)
```

Arguments

`data.set.name` character: dataset's name to be reloaded. If NULL, current dataset is reloaded.
`ask` logical: confirm execution if TRUE

Details

Reload data.set from globalenv

Author(s)

Masahiro Hayashi

See Also

[rzAddData](#), [rzAddItem](#)

RzThemeEditor	<i>Theme Editor for ggplot2</i>
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Description

Theme Editor for ggplot2

Usage

```
RzThemeEditor(new = FALSE, ...)
```

Arguments

`new` logical: rebuild UI
`...` currently no use

Details

Start RzThemeEditor.

Author(s)

Masahiro Hayashi

See Also

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