Package 'sdcMicroGUI'

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Type Package

Title Graphical user interface for package sdcMicro

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Description A point and click graphical user interface based on top of the sdcMicro package to create anonymized data set. The graphical user interface provides full reproducibility of any result via the script menu in the GUI.

Depends sdcMicro (>= 4.1.0), gWidgetsRGtk2, tcltk, cairoDevice

Imports vcd, foreign, Hmisc,tools

License GPL-2

URL https://github.com/alexkowa/sdcMicroGUI

Collate 'aux_functions.R' 'plot.indivRisk.r' 'sdcGUI.r' 'zzz.r' 'HelpHelperFunctions.R'

NeedsCompilation no

Repository CRAN

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R topics documented:

`plot.indivRisk` *plot method for indivRisk objects*

Description

Plots an interactive histogramm or ecdf plot with various interactive sliders.

Usage

```
## S3 method for class 'indivRisk'
plot(x, ...)
```

Arguments

`x`	object of class 'indivRisk'
`...`	Additional arguments passed through.

Details

With the sliders one can move the individual risk threshold. By this movement the threshold will be moved on the plot and the slider with a re-idendification rate and the slider of the number of unsafe records (based on your chosen threshold) are also moved based on the individual risk threshold. This plot is very similar to the individual risk plot of the software mu-Argus.

Author(s)

Matthias Templ

References

look e.g. on the mu-Argus manuals available at http://neon.vb.cbs.nl/casc/Software/MuManual4.1.pdf

Templ, M. *Statistical Disclosure Control for Microdata Using the R-Package sdcMicro*, Transactions on Data Privacy, vol. 1, number 2, pp. 67-85, 2008. http://www.tdp.cat/issues/abs.a004a08.php

See Also

`indivRisk`

Examples

```
## example from Capobianchi, Polettini and Lucarelli:
data(francdat)
ff <- freqCalc(francdat, keyVars=c(2,4,5,6),w=8)
irisk <- indivRisk( ff )
## and now apply:
## plot(irisk)
```

```
data(free1)
ff <- freqCalc(free1, keyVars=1:3, w=30)
irisk2 <- indivRisk(ff)
## and now apply:
## plot(irisk2)
```

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sdcGUI *GUI for the sdcMicro package*

Description

This graphical user interface supports the main functions of sdcMicro.

Usage

```
sdcGUI()
```

Details

This GUI provides an extension to the package sdcMicro. The developed GUI makes sdcMicro accessible to a wider range of users including ones not used to the R command line interface. The user can access all basic functions for microdata protection by using this GUI.

The graphical user interface of sdcMicro allows an interactive interaction between objects. Flexibility is provided by automatic displaying of the main results (e.g., the summary of the frequency counts and the estimated disclosure risk) which are updated after a user interaction automatically. Additional flexibility is provided by storing all the users operations with all parameters in a script which can then be saved, modified and/or reloaded. Thus, full reproducibility is provided also when using this GUI instead of the CLI version.

It is programmed based on the gWidgetsRGtk2 and RGtk2 package.

Author(s)

Thomas Petelin, Matthias Templ, Alexander Kowarik

Examples

```
##sdcGUI()
```

sdcGUIoutput *Retrieve the current dataset (with changes) from the sdcGUI*

Description

After altering your data set inside the graphical user interface, you can retrieve the data set with 'sdcGUIoutput()' to use it further in R.

Usage

```
sdcGUI()
```

Details

Only possible if the GUI has been already used with a dataset.

Author(s)

Alexander Kowarik

Examples

```
## Not run:
dataSDC <- sdcGUIoutput()

## End(Not run)
```

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