

Package ‘TGUIteaching’

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Type Package

Title Teaching GUI - prototype

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Author Matthias Templ, Gerlinde Dinges, Alexander Kowarik, Bernhard Meindl

Maintainer Bernhard Meindl <bernhard.meindl@statistik.gv.at>

Description Teaching-GUI prototype, for creating TGUI content to enhance classroom teaching supported by TGUI. A Graphical User Interface to enhance and support modern teaching methods in an interactive way.

License GPL

Depends TGUICore, tcltk, tkrplot, lattice, car

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TGUITeaching-package *Prototyp to enhance classroom teaching.*

Description

Teaching-GUI prototype, for creating TGUI content to enhance classroom teaching supported by TGUI. A Graphical User Interface to enhance and support modern teaching methods in an interactive way. This package uses TGUICore which provides all facilities needed to create interactive examples or ask for student feedback to enrich classroom teaching. It provides a student interface and a trainer interface and can be used in a classroom to train (statistical) contents or demonstrate (statistical) concepts. Some generic example are included to show how exercises, interactive plots and animations can be generated or integrated.

Details

Package: TGUITeaching
 Type: Package
 Version: 9.8
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Examples in this package:

ex_errors, ex_praesident	Simple Generic Examples
ex_timeseries, ex_boxplots	Interactive Generic Examples
ex_ex_Hists, ex_QQPlots	Interactive Generic Examples
ex_BinomPlot, ex_clt, ex_eda	Interactive Generic Examples
ex_animation	Animation of a teaching content
ex_dataCollection	Mask for Data Collection
ex_feedback	Feature for Textual Feedback

Author(s)

Alexander Kowarik, Bernhard Meindl, Matthias Templ, Gerlinde Dinges

See Also

The TeachingDemos package

animation

Animation of a content

Description

Animation-example to show the usage of the functions of the package TGUICore. The examples can be called from the TGUI-interface.

Usage

```
ex_animationMeanMedian()
```

Author(s)

Alexander Kowarik, Bernhard Meindl, Matthias Templ, Gerlinde Dinges

DATA_Collection

Mask for Data Collection

Description

Example showing interactive student data input using a data-input-mask provided by package TGUICore. The mask can be called from the TGUI-interface.

Usage

```
ex_dataCollection()
```

Details

The TGUI provides a mask for data input. With it it's possible to include input from students directly into course examples, course slides, graphics or tables. Different questions about current affairs or other course related things can be prepared in advance and asked during classroom teaching. The data mask in TGUITeaching provides an data collecting example with six different questions. By default a fixed dummy-dataset is generated. The predefined dummy-data will be overwritten by student data input.

Author(s)

Alexander Kowarik, Bernhard Meindl, Matthias Templ, Gerlinde Dinges

Feedback_Feature *Feature for Textual Feedback*

Description

Example to show the usage of the textual feedback feature of the package TGUICore. The feature be called from the TGUI-interface.

Usage

```
ex_feedback(eval=FALSE)
```

Arguments

eval TRUE/FALSE if the evaluation view of the example (if it exists) should be opened

Author(s)

Alexander Kowarik, Bernhard Meindl, Matthias Templ, Gerlinde Dinges

Interactive_Examples *Interactive Generic Examples*

Description

Different interactive examples to show the usage of the functions of the package TGUICore. The examples can be called from the TGUI-interface.

Usage

```
ex_boxplots(eval=FALSE)
ex_clt(eval=FALSE)
ex_eda(eval=FALSE)
ex_Hists()
ex_QQPlots(eval=FALSE)
ex_timeseries(eval=FALSE)
ex_BinomPlot()
```

Arguments

eval TRUE/FALSE if the evaluation view of the example (if it exists) should be opened

Details

The different interactive examples shows the use of e.g. sliders and several interactive features.

Note

Some visualisations are modified functions from the R package TeachingDemos.

Author(s)

Alexander Kowarik, Bernhard Meindl, Matthias Templ, Gerlinde Dinges

See Also

The TeachingDemos package

Simple_Examples

Simple Generic Examples

Description

Different simple generic examples to show the usage of the functions of the package TGUICore. The examples be called from the TGUI-interface.

Usage

```
ex_praesident(eval=FALSE)
ex_errors(eval=FALSE)
```

Arguments

eval	TRUE/FALSE if the evaluation view of the example (if it exists) should be opened
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Details

This two simple examples shows the use of single choice questions and multiple choice questions and how an image or a function can be included.

Author(s)

Alexander Kowarik, Bernhard Meindl, Matthias Templ, Gerlinde Dinges

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