

Package ‘jsmodule’

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Title 'RStudio' Addins and 'Shiny' Modules for Medical Research

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Description

'RStudio' addins and 'Shiny' modules for descriptive statistics, regression and survival analysis.

Depends R (>= 3.4.0)

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labelled, methods, epiDisplay, GGally, ggplot2, haven,
rstudioapi, shinycustomloader, MatchIt(>= 3.0.0), survey,
tableone, jskm(>= 0.4.2), survival, purrr, geopack, maxstat,
survC1, survIDINRI, timeROC, devEMF, graphics, grDevices,
shinyWidgets, pROC, Hmisc, see, readr, RColorBrewer, Cairo,
ggpubr

URL <https://github.com/jinseob2kim/jsmodule>

BugReports <https://github.com/jinseob2kim/jsmodule/issues>

Suggests testthat, shinytest, knitr, rmarkdown

VignetteBuilder knitr

NeedsCompilation no

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| | |
|-----------|--|
| coxModule | <i>coxModule: shiny module server for Cox's model.</i> |
|-----------|--|

Description

Shiny module server for Cox's model.

Usage

```
coxModule(
  input,
  output,
  session,
  data,
  data_label,
  data_varStruct = NULL,
  nfactor.limit = 10,
  design.survey = NULL,
  default.unires = T,
  limit.unires = 20,
  id.cluster = NULL
)
```

Arguments

| | |
|----------------|--|
| input | input |
| output | output |
| session | session |
| data | reactive data |
| data_label | reactive data label |
| data_varStruct | reactive list of variable structure, Default: NULL |

`nfactor.limit` nlevels limit in factor variable, Default: 10
`design.survey` reactive survey data. default: NULL
`default.unires` Set default independent variables using univariate analysis.
`limit.unires` Change to `default.unires = F` if number of independent variables > `limit.unires`,
 Default: 20
`id.cluster` reactive cluster variable if marginal cox model, Default: NULL

Details

Shiny modulde server for Cox's model.

Value

Shiny modulde server for Cox's model.

Examples

```

library(shiny);library(DT);library(data.table);library(jstable)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      coxUI("cox")
    ),
    mainPanel(
      DTOutput("coxtable")
    )
  )
)

server <- function(input, output, session) {

  data <- reactive(mtcars)
  data.label <- reactive(jstable::mk.lev(mtcars))

  out_cox <- callModule(coxModule, "cox", data = data, data_label = data.label,
    data_varStruct = NULL)

  output$coxtable <- renderDT({
    datatable(out_cox()$table, rownames=T, caption = out_cox()$caption)
  })
}

```

coxUI

coxUI: shiny modulde UI for Cox's model.

Description

Shiny modulde UI for Cox's model.

Usage

```
coxUI(id)
```

Arguments

```
id          id
```

Details

Shiny module UI for Cox's model.

Value

```
coxUI
```

Examples

```
coxUI(1)
```

| | |
|---------|--|
| csvFile | <i>csvFile: Shiny module Server for file upload.</i> |
|---------|--|

Description

Shiny module Server for file(csv or xlsx) upload.

Usage

```
csvFile(input, output, session, nfactor.limit = 20)
```

Arguments

```
input          input
output         output
session        session
nfactor.limit  nfactor limit to include, Default: 20
```

Details

Shiny module Server for file(csv or xlsx) upload.

Value

Shiny module Server for file(csv or xlsx) upload.

Examples

```

library(shiny);library(DT);library(data.table);library(readxl);library(jstable)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      csvFileInput("datafile")
    ),
    mainPanel(
      tabsetPanel(type = "pills",
        tabPanel("Data", DTOutput("data")),
        tabPanel("Label", DTOutput("data_label", width = "100%"))
      )
    )
  )
)

server <- function(input, output, session) {
  data <- callModule(csvFile, "datafile")

  output$data <- renderDT({
    data()$data
  })

  output$label <- renderDT({
    data()$label
  })
}

```

 csvFileInput

csvFileInput: Shiny module UI for file upload.

Description

Shiny module UI for file(csv or xlsx) upload.

Usage

```
csvFileInput(id, label = "Upload data (csv/xlsx/sav/sas7bdat/dta)")
```

Arguments

| | |
|-------|--|
| id | id |
| label | label, Default: 'csv/xlsx/sav/sas7bdat/dta file' |

Details

Shiny module UI for file(csv or xlsx) upload.

Value

Shiny module UI for file(csv or xlsx) upload.

Examples

```
library(shiny);library(DT);library(data.table);library(readxl);library(jstable)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      csvFileInput("datafile")
    ),
    mainPanel(
      tabsetPanel(type = "pills",
        tabPanel("Data", DTOutput("data")),
        tabPanel("Label", DTOutput("data_label", width = "100%"))
      )
    )
  )
)

server <- function(input, output, session) {
  data <- callModule(csvFile, "datafile")

  output$data <- renderDT({
    data()$data
  })

  output$label <- renderDT({
    data()$label
  })
}
```

FilePs

FilePs: Shiny module Server for file upload for propensity score matching.

Description

Shiny module Server for file upload for propensity score matching.

Usage

```
FilePs(input, output, session, nfactor.limit = 20)
```

Arguments

| | |
|---------------|---------------------------------------|
| input | input |
| output | output |
| session | session |
| nfactor.limit | nfactor limit to include, Default: 20 |

Details

Shiny module Server for file upload for propensity score matching.

Value

Shiny module Server for file upload for propensity score matching.

Examples

```
library(shiny);library(DT);library(data.table);library(readxl);library(jstable)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      FilePsInput("datafile")
    ),
    mainPanel(
      tabsetPanel(type = "pills",
        tabPanel("Data", DTOutput("data")),
        tabPanel("Matching data", DTOutput("matdata")),
        tabPanel("Label", DTOutput("data_label", width = "100%"))
      )
    )
  )
)

server <- function(input, output, session) {
  mat.info <- callModule(FilePs, "datafile")

  output$data <- renderDT({
    mat.info()$data
  })

  output$matdata <- renderDT({
    mat.info()$matdata
  })

  output$label <- renderDT({
    mat.info()$label
  })
}
```

FilePsInput

FilePsInput: Shiny module UI for file upload for propensity score matching.

Description

Shiny module UI for file upload for propensity score matching.

Usage

```
FilePsInput(id, label = "Upload data (csv/xlsx/sav/sas7bdat/dta)")
```

Arguments

```
id          id
label      label, Default: 'csv/xlsx/sav/sas7bdat file'
```

Details

Shiny module UI for file upload for propensity score matching.

Value

Shiny module UI for file upload for propensity score matching.

Examples

```
library(shiny);library(DT);library(data.table);library(readxl);library(jstable)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      FilePsInput("datafile")
    ),
    mainPanel(
      tabsetPanel(type = "pills",
        tabPanel("Data", DTOutput("data")),
        tabPanel("Matching data", DTOutput("matdata")),
        tabPanel("Label", DTOutput("data_label", width = "100%"))
      )
    )
  )
)

server <- function(input, output, session) {
  mat.info <- callModule(FilePs, "datafile")

  output$data <- renderDT({
    mat.info()$data
  })

  output$matdata <- renderDT({
    mat.info()$matdata
  })

  output$label <- renderDT({
    mat.info()$label
  })
}
```

| | |
|--------------|---|
| FileRepeated | <i>FileRepeated: File upload server module for repeated measure analysis.</i> |
|--------------|---|

Description

File upload server module for repeated measure analysis.

Usage

```
FileRepeated(input, output, session, nfactor.limit = 20)
```

Arguments

| | |
|---------------|---------------------------------------|
| input | input |
| output | output |
| session | session |
| nfactor.limit | nfactor limit to include, Default: 20 |

Details

File upload server module for repeated measure analysis.

Value

File upload server module for repeated measure analysis.

Examples

```
library(shiny);library(DT);library(data.table);library(readxl);library(jstable)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      FileRepeatedInput("datafile")
    ),
    mainPanel(
      tabsetPanel(type = "pills",
        tabPanel("Data", DTOutput("data")),
        tabPanel("Label", DTOutput("data_label", width = "100%"))
      )
    )
  )
)

server <- function(input, output, session) {
  data <- callModule(FileRepeated, "datafile")

  output$data <- renderDT({
```

```

      data()$data
    })

    output$label <- renderDT({
      data()$label
    })
  }

```

FileRepeatedInput *FileRepeatedInput: File upload UI for repeated measure analysis.*

Description

File upload UI for repeated measure analysis.

Usage

```
FileRepeatedInput(id, label = "Upload data (csv/xlsx/sav/sas7bdat/dta)")
```

Arguments

| | |
|-------|--|
| id | id |
| label | label, Default: 'csv/xlsx/sav/sas7bdat/dta file' |

Details

File upload UI for repeated measure analysis.

Value

File upload UI for repeated measure analysis.

Examples

```

library(shiny);library(DT);library(data.table);library(readxl);library(jstable)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      FileRepeatedInput("datafile")
    ),
    mainPanel(
      tabsetPanel(type = "pills",
        tabPanel("Data", DTOutput("data")),
        tabPanel("Label", DTOutput("data_label", width = "100%"))
      )
    )
  )
)

```

```
server <- function(input, output, session) {  
  data <- callModule(FileRepeated, "datafile")  
  
  output$data <- renderDT({  
    data()$data  
  })  
  
  output$label <- renderDT({  
    data()$label  
  })  
}
```

FileSurvey

FileSurvey: File upload server module for survey data analysis.

Description

File upload server module for survey data analysis.

Usage

```
FileSurvey(input, output, session, nfactor.limit = 20)
```

Arguments

| | |
|---------------|---------------------------------------|
| input | input |
| output | output |
| session | session |
| nfactor.limit | nfactor limit to include, Default: 20 |

Details

File upload server module for survey data analysis.

Value

File upload server module for survey data analysis.

Examples

```
library(shiny);library(DT);library(data.table);library(readxl);library(jstable)  
ui <- fluidPage(  
  sidebarLayout(  
    sidebarPanel(  
      FileSurveyInput("datafile")  
    ),  
    mainPanel(  
      tabsetPanel(type = "pills",
```

```

        tabPanel("Data", DTOutput("data")),
        tabPanel("Label", DTOutput("data_label", width = "100%"))
      )
    )
  )

server <- function(input, output, session) {
  data <- callModule(FileSurvey, "datafile")

  output$data <- renderDT({
    data()$data
  })

  output$label <- renderDT({
    data()$label
  })
}

```

FileSurveyInput

FileSurveyInput: File upload UI for survey data analysis.

Description

File upload UI for survey data analysis.

Usage

```
FileSurveyInput(id, label = "Upload data (csv/xlsx/sav/sas7bdat/dta)")
```

Arguments

| | |
|-------|--|
| id | id |
| label | label, Default: 'csv/xlsx/sav/sas7bdat/dta file' |

Details

File upload UI for survey data analysis.

Value

File upload UI for survey data analysis.

Examples

```

library(shiny);library(DT);library(data.table);library(readxl);library(jstable)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      FileSurveyInput("datafile")
    ),
    mainPanel(
      tabsetPanel(type = "pills",
        tabPanel("Data", DTOutput("data")),
        tabPanel("Label", DTOutput("data_label", width = "100%"))
      )
    )
  )
)

server <- function(input, output, session) {
  data <- callModule(FileSurvey, "datafile")

  output$data <- renderDT({
    data()$data
  })

  output$label <- renderDT({
    data()$label
  })
}

```

 GEEModuleLinear

GEEModuleLinear: shiny modulde server for gaussian generalized estimating equation(GEE) using reactive data.

Description

Shiny modulde server for gaussian generalized estimating equation(GEE) using reactive data.

Usage

```

GEEModuleLinear(
  input,
  output,
  session,
  data,
  data_label,
  data_varStruct = NULL,
  nfactor.limit = 10,
  id.gee
)

```

Arguments

| | |
|----------------|---|
| input | input |
| output | output |
| session | session |
| data | reactive data, ordered by id. |
| data_label | reactive data label |
| data_varStruct | List of variable structure, Default: NULL |
| nfactor.limit | nlevels limit in factor variable, Default: 10 |
| id.gee | reactive repeated measure variable |

Details

Shiny module server for gaussian generalized estimating equation(GEE) using reactive data.

Value

Shiny module server for gaussian generalized estimating equation(GEE).

Examples

```
library(shiny);library(DT);library(data.table);library(jstable)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      GEEModuleUI("linear")
    ),
    mainPanel(
      DTOutput("lineartable")
    )
  )
)

server <- function(input, output, session) {

  data <- reactive(mtcars)
  data.label <- reactive(jstable::mk.lev(mtcars))
  id.gee <- reactive("mpg")

  out_linear <- callModule(GEEModuleLinear, "linear", data = data, data_label = data.label,
    data_varStruct = NULL, id.gee = id.gee)

  output$lineartable <- renderDT({
    hide = which(colnames(out_linear()$table) == "sig")
    datatable(out_linear()$table, rownames=T, extension= "Buttons", caption = out_linear()$caption,
      options = c(opt.tbreg(out_linear()$caption),
        list(columnDefs = list(list(visible=FALSE, targets =hide))
        ),
        list(scrollX = TRUE)
      )
    )
  })
}
```

```

    ) %>% formatStyle("sig", target = 'row', backgroundColor = styleEqual("**", 'yellow'))
  })
}

```

GEEModuleLogistic *GEEModuleLogistic: shiny modulde server for binomial gaussian generalized estimating equation(GEE) using reactive data.*

Description

Shiny modulde server for binomial gaussian generalized estimating equation(GEE) using reactive data.

Usage

```

GEEModuleLogistic(
  input,
  output,
  session,
  data,
  data_label,
  data_varStruct = NULL,
  nfactor.limit = 10,
  id.gee
)

```

Arguments

| | |
|----------------|---|
| input | input |
| output | output |
| session | session |
| data | reactive data, ordered by id. |
| data_label | reactive data label |
| data_varStruct | List of variable structure, Default: NULL |
| nfactor.limit | nlevels limit in factor variable, Default: 10 |
| id.gee | reactive repeated measure variable |

Details

Shiny modulde server for binomial gaussian generalized estimating equation(GEE) using reactive data.

Value

Shiny modulde server for binomial gaussian generalized estimating equation(GEE).

Examples

```

library(shiny);library(DT);library(data.table);library(jstable)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      GEEModuleUI("logistic")
    ),
    mainPanel(
      DTOutput("logisticstable")
    )
  )
)

server <- function(input, output, session) {

  data <- reactive(mtcars)
  data.label <- reactive(jstable::mk.lev(mtcars))
  id.gee <- reactive("mpg")

  out_logistic <- callModule(GEEModuleLogistic, "logistic", data = data, data_label = data.label,
                             data_varStruct = NULL, id.gee = id.gee)

  output$logisticstable <- renderDT({
    hide = which(colnames(out_logistic())$table) == "sig")
    datatable(out_logistic())$table, rownames=T, extension= "Buttons",
    caption = out_logistic()$caption,
    options = c(opt.tbreg(out_logistic())$caption,
                list(columnDefs = list(list(visible=FALSE, targets =hide))
                ),
                list(scrollX = TRUE)
    )
  }) %>% formatStyle("sig", target = 'row',backgroundcolor = styleEqual("**", 'yellow'))
}

```

 GEEModuleUI

GEEModuleUI: shiny module UI for generalized estimating equation(GEE).

Description

Shiny module UI for generalized estimating equation(GEE).

Usage

```
GEEModuleUI(id)
```

Arguments

id id

Details

Shiny module UI for generalized estimating equation(GEE).

Value

Shiny module UI for generalized estimating equation(GEE).

Examples

```
library(shiny);library(DT);library(data.table);library(jstable)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      GEEModuleUI("linear")
    ),
    mainPanel(
      DTOutput("lineartable")
    )
  )
)

server <- function(input, output, session) {

  data <- reactive(mtcars)
  data.label <- reactive(jstable::mk.lev(mtcars))
  id.gee <- reactive("mpg")

  out_linear <- callModule(GEEModuleLinear, "linear", data = data, data_label = data.label,
    data_varStruct = NULL, id.gee = id.gee)

  output$lineartable <- renderDT({
    hide = which(colnames(out_linear())$table) == "sig")
    datatable(out_linear())$table, rownames=T, extension="Buttons", caption = out_linear()$caption,
    options = c(opt.tbreg(out_linear())$caption,
      list(columnDefs = list(list(visible=FALSE, targets =hide))
    ),
    list(scrollX = TRUE)
  )
  ) %>% formatStyle("sig", target = 'row', backgroundColor = styleEqual("**", 'yellow'))
})
}
```

ggpairsModule

ggpairsModule: shiny module server for basic/scatter plot.

Description

Shiny module server for basic/scatter plot.

Usage

```
ggpairsModule(  
  input,  
  output,  
  session,  
  data,  
  data_label,  
  data_varStruct = NULL,  
  nfactor.limit = 20  
)
```

Arguments

| | |
|----------------|--|
| input | input |
| output | output |
| session | session |
| data | data |
| data_label | data label |
| data_varStruct | List of variable structure, Default: NULL |
| nfactor.limit | nlevels limit for categorical variables, Default: 20 |

Details

Shiny module server for basic/scatter plot.

Value

Shiny module server for basic/scatter plot.

Examples

```
library(shiny);library(DT);library(data.table);library(jstable);library(ggplot2)  
library(GGally)  
  
ui <- fluidPage(  
  sidebarLayout(  
    sidebarPanel(  
      ggpairsModuleUI1("ggpairs")  
    ),  
    mainPanel(  
      plotOutput("ggpairs_plot"),  
      ggpairsModuleUI2("ggpairs")  
    )  
  )  
)  
  
server <- function(input, output, session) {
```

```

data <- mtcars
data.label <- jstable::mk.lev(mtcars)

out_ggpairs <- callModule(ggpairsModule, "ggpairs", data = data, data_label = data.label,
                          data_varStruct = NULL)

output$kaplan_plot <- renderPlot({
  print(out_ggpairs())
})
}

```

| | |
|----------------|--|
| ggpairsModule2 | <i>ggpairsModule2: shiny module server for basic/scatter plot for reactive data.</i> |
|----------------|--|

Description

Shiny module server for basic/scatter plot for reactive data.

Usage

```

ggpairsModule2(
  input,
  output,
  session,
  data,
  data_label,
  data_varStruct = NULL,
  nfactor.limit = 20
)

```

Arguments

| | |
|----------------|--|
| input | input |
| output | output |
| session | session |
| data | Reactive data |
| data_label | Reactive data label |
| data_varStruct | List of variable structure, Default: NULL |
| nfactor.limit | nlevels limit for categorical variables, Default: 20 |

Details

Shiny module server for basic/scatter plot for reactive data.

Value

Shiny module server for basic/scatter plot

Examples

```
library(shiny);library(DT);library(data.table);library(jstable);library(ggplot2)
library(GGally)

ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      ggpairsModuleUI1("ggpairs")
    ),
    mainPanel(
      plotOutput("ggpairs_plot"),
      ggpairsModuleUI2("ggpairs")
    )
  )
)

server <- function(input, output, session) {

  data <- reactive(mtcars)
  data.label <- reactive(jstable::mk.lev(mtcars))

  out_ggpairs <- callModule(ggpairsModule2, "ggpairs", data = data, data_label = data.label,
                           data_varStruct = NULL)

  output$kaplan_plot <- renderPlot({
    print(out_ggpairs())
  })
}
```

ggpairsModuleUI1

ggpairsModuleUI1: Variable selection module UI for ggpairs

Description

Variable selection module UI for ggpairs

Usage

```
ggpairsModuleUI1(id)
```

Arguments

id id

Details

Variable selection module UI for ggpairs

Value

Variable selection module UI for ggpairs

Examples

```
library(shiny);library(DT);library(data.table);library(jstable);library(ggplot2)
library(GGally)

ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      ggpairsModuleUI1("ggpairs")
    ),
    mainPanel(
      plotOutput("ggpairs_plot"),
      ggpairsModuleUI2("ggpairs")
    )
  )
)

server <- function(input, output, session) {

  data <- reactive(mtcars)
  data.label <- reactive(jstable::mk.lev(mtcars))

  out_ggpairs <- callModule(ggpairsModule2, "ggpairs", data = data, data_label = data.label,
                           data_varStruct = NULL)

  output$kaplan_plot <- renderPlot({
    print(out_ggpairs())
  })
}
```

ggpairsModuleUI2

ggpairsModuleUI2: Option & download module UI for ggpairs

Description

Option & download module UI for ggpairs

Usage

```
ggpairsModuleUI2(id)
```

Arguments

id id

Details

Option & download module UI for ggpairs

Value

Option & download module UI for ggpairs

Examples

```
library(shiny);library(DT);library(data.table);library(jstable);library(ggplot2)
library(GGally)

ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      ggpairsModuleUI1("ggpairs")
    ),
    mainPanel(
      plotOutput("ggpairs_plot"),
      ggpairsModuleUI2("ggpairs")
    )
  )
)

server <- function(input, output, session) {

  data <- reactive(mtcars)
  data.label <- reactive(jstable::mk.lev(mtcars))

  out_ggpairs <- callModule(ggpairsModule2, "ggpairs", data = data, data_label = data.label,
    data_varStruct = NULL)

  output$kaplan_plot <- renderPlot({
    print(out_ggpairs())
  })
}
```

ggplotdownUI

ggplotdownUI: Option & download module UI for ggplot

Description

Option & download module UI for ggplot

Usage

```
ggplotdownUI(id)
```

Arguments

```
id          id
```

Details

Option & download module UI for ggplot

Value

Option & download module UI for ggplot

Examples

```
library(shiny);library(DT);library(data.table);library(jstable);library(ggplot2)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      kaplanUI("kaplan")
    ),
    mainPanel(
      plotOutput("kaplan_plot"),
      ggplotdownUI("kaplan")
    )
  )
)

server <- function(input, output, session) {

  data <- reactive(mtcars)
  data.label <- reactive(jstable::mk.lev(mtcars))

  out_kaplan <- callModule(kaplanModule, "kaplan", data = data, data_label = data.label,
                          data_varStruct = NULL)

  output$kaplan_plot <- renderPlot({
    print(out_kaplan())
  })
}
```

jsBasicAddin

jsBasicAddin: Rstudio addin of jsBasicGadget

Description

Rstudio addin of jsBasicGadget

Usage

```
jsBasicAddin()
```

Details

Rstudio addin of jsBasicGadget

Value

Rstudio addin of jsBasicGadget

See Also

[rstudio-editors](#)

Examples

```
if(interactive()){  
  jsBasicAddin()  
}
```

jsBasicExtAddin

jsBasicExtAddin: RStudio Addin for basic data analysis with external data.

Description

RStudio Addin for basic data analysis with external csv/xlsx/sas7bdat/sav/dta file.

Usage

```
jsBasicExtAddin(nfactor.limit = 20, max.filesize = 2048)
```

Arguments

`nfactor.limit` nlevels limit for categorical variables, Default: 20
`max.filesize` Maximum file size to upload (MB), Default: 2048 (2 GB)

Details

RStudio Addin for basic data analysis with external csv/xlsx/sas7bdat/sav/dta file.

Value

RStudio Addin for basic data analysis with external data.

See Also

[lung fwrite opt.tbreg](#)

Examples

```
if(interactive()){  
  jsBasicExtAddin()  
}
```

`jsBasicGadget`*jsBasicGadget: Shiny Gadget of Basic Statistics in Medical Research.*

Description

Shiny Gadget including Data, Label info, Table 1, Regression(linear, logistic), Basic plot

Usage

```
jsBasicGadget(data, nfactor.limit = 20)
```

Arguments

| | |
|----------------------------|---|
| <code>data</code> | <code>data</code> |
| <code>nfactor.limit</code> | nlevels limit for categorical variables |

Details

Shiny Gadget including Data, Label info, Table 1, Regression(linear, logistic), Basic plot

Value

Shiny Gadget including Data, Label info, Table 1, Regression(linear, logistic), Basic plot

Examples

```
if(interactive()){  
  jsBasicGadget(mtcars)  
}
```

jsPropensityAddin *jsPropensityAddin: Rstudio addin of jsPropensityGadget*

Description

Rstudio addin of jsPropensityGadget

Usage

```
jsPropensityAddin()
```

Details

Rstudio addin of jsPropensityGadget

Value

Rstudio addin of jsPropensityGadget

See Also

[rstudio-editors](#)

Examples

```
if(interactive()){  
  jsPropensityAddin()  
}
```

jsPropensityExtAddin *jsPropensityExtAddin: RStudio Addin for propensity score analysis with external data.*

Description

RStudio Addin for propensity score analysis with external csv/xlsx/sas7bdat/sav/dta file.

Usage

```
jsPropensityExtAddin(nfactor.limit = 20, max.filesize = 2048)
```

Arguments

`nfactor.limit` nlevels limit for categorical variables, Default: 20
`max.filesize` Maximum file size to upload (MB), Default: 2048 (2 GB)

Details

RStudio Addin for propensity score analysis with external csv/xlsx/sas7bdat/sav/dta file.

Value

RStudio Addin for propensity score analysis with external data.

See Also

[pbc.fwrite](#), [data.table](#), [svydesign](#), [opt.tbreg](#)

Examples

```
if(interactive()){
  jsPropensityExtAddin()
}
```

jsPropensityGadget *jsPropensityGadget: Shiny Gadget for propensity score analysis.*

Description

Shiny Gadget including original/matching/IPTW data, Label info, Table 1, Cox model, Basic/kaplan-meier plot.

Usage

```
jsPropensityGadget(data, nfactor.limit = 20)
```

Arguments

`data` `data`
`nfactor.limit` nlevels limit for categorical variables, Default: 20

Details

Shiny Gadget including original/matching/IPTW data, Label info, Table 1, Cox model, Basic/kaplan-meier plot.

Value

Shiny Gadget including original/matching/IPTW data, Label info, Table 1, Cox model, Basic/kaplan-meier plot.

See Also

[data.table](#), [matchit](#), [match.data](#), [cox2.display](#), [svycox.display](#), [survfit](#), [coxph](#), [Surv](#), [jskm](#), [svyjskm](#), [ggsave](#), [svykm](#)

Examples

```
if(interactive()){  
  jsPropensityGadget(mtcars)  
}
```

jsRepeatedAddin *jsRepeatedAddin: Rstudio addin of jsRepeatedGadget*

Description

Rstudio addin of jsRepeatedGadget

Usage

```
jsRepeatedAddin()
```

Details

Rstudio addin of jsRepeatedGadget

Value

Rstudio addin of jsRepeatedGadget

See Also

[rstudio-editors](#)

Examples

```
if(interactive()){  
  jsRepeatedAddin()  
}
```

jsRepeatedExtAddin *jsRepeatedExtAddin: RStudio Addin for repeated measure analysis with external data.*

Description

RStudio Addin for repeated measure analysis with external csv/xlsx/sas7bdat/sav/dta file.

Usage

```
jsRepeatedExtAddin(nfactor.limit = 20, max.filesize = 2048)
```

Arguments

`nfactor.limit` nlevels limit for categorical variables, Default: 20
`max.filesize` Maximum file size to upload (MB), Default: 2048 (2 GB)

Details

RStudio Addin for repeated measure analysis with external csv/xlsx/sas7bdat/sav/dta file.

Value

RStudio Addin for repeated measure analysis with external data.

See Also

[fwrite colon opt.tbreg](#)

Examples

```
if(interactive()){  
  jsRepeatedExtAddin()  
}
```

`jsRepeatedGadget` *jsRepeatedGadget: Shiny Gadget of Repeated measure analysis.*

Description

Shiny Gadget including Data, Label info, Table 1, GEE(linear, logistic), Basic plot

Usage

```
jsRepeatedGadget(data, nfactor.limit = 20)
```

Arguments

`data` data
`nfactor.limit` nlevels limit for categorical variables

Details

Shiny Gadget including Data, Label info, Table 1, GEE(linear, logistic), Basic plot

Value

Shiny Gadget including Data, Label info, Table 1, GEE(linear, logistic), Basic plot

Examples

```
if(interactive()){  
  jsRepeatedGadget(mtcars)  
}
```

`jsSurveyAddin`*jsSurveyAddin: Rstudio addin of jsSurveyGadget*

Description

Rstudio addin of jsSurveyGadget

Usage

```
jsSurveyAddin()
```

Details

Rstudio addin of jsSurveyGadget

Value

Rstudio addin of jsSurveyGadget

See Also

[rstudio-editors](#)

Examples

```
if(interactive()){  
  jsSurveydAddin()  
}
```

`jsSurveyExtAddin`*jsSurveyExtAddin: RStudio Addin for survey data analysis with external data.*

Description

RStudio Addin for survey data analysis with external csv/xlsx/sas7bdat/sav/dta file.

Usage

```
jsSurveyExtAddin(nfactor.limit = 20, max.filesize = 2048)
```

Arguments

`nfactor.limit` nlevels limit for categorical variables, Default: 20
`max.filesize` Maximum file size to upload (MB), Default: 2048 (2 GB)

Details

RStudio Addin for survey data analysis with external csv/xlsx/sas7bdat/sav/dta file.

Value

RStudio Addin for survey data analysis with external data.

See Also

[fwrite opt.tb1,opt.tbreg](#)

Examples

```
if(interactive()){  
  jsSurveyExtAddin()  
}
```

jsSurveyGadget

jsSurveyGadget: Shiny Gadget of survey data analysis.

Description

Shiny Gadget including Data, Label info, Table 1, svyglm, Basic plot

Usage

```
jsSurveyGadget(data, nfactor.limit = 20)
```

Arguments

`data` data
`nfactor.limit` nlevels limit for categorical variables

Details

Shiny Gadget including Data, Label info, Table 1, svyglm, Basic plot

Value

Shiny Gadget including Data, Label info, Table 1, svyglm, Basic plot

Examples

```
if(interactive()){
  jsSurveyGadget(mtcars)
}
```

 kaplanModule

kaplanModule: shiny module server for kaplan-meier plot.

Description

Shiny module server for kaplan-meier plot.

Usage

```
kaplanModule(
  input,
  output,
  session,
  data,
  data_label,
  data_varStruct = NULL,
  nfactor.limit = 10,
  design.survey = NULL,
  id.cluster = NULL,
  timeby = NULL,
  range.x = NULL,
  range.y = NULL
)
```

Arguments

| | |
|----------------|--|
| input | input |
| output | output |
| session | session |
| data | Reactive data |
| data_label | Reactive data label |
| data_varStruct | Reactive List of variable structure, Default: NULL |
| nfactor.limit | nlevels limit in factor variable, Default: 10 |
| design.survey | Reactive survey data. default: NULL |
| id.cluster | Reactive cluster variable if marginal model, Default: NULL |
| timeby | timeby, Default: NULL |
| range.x | range of x axis, Default: NULL |
| range.y | range of y axis, Default: NULL |

Details

Shiny module server for kaplan-meier plot.

Value

Shiny module server for kaplan-meier plot.

Examples

```
library(shiny);library(DT);library(data.table);library(jstable);library(ggplot2)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      kaplanUI("kaplan")
    ),
    mainPanel(
      plotOutput("kaplan_plot"),
      ggplotdownUI("kaplan")
    )
  )
)

server <- function(input, output, session) {

  data <- reactive(mtcars)
  data.label <- reactive(jstable::mk.lev(mtcars))

  out_kaplan <- callModule(kaplanModule, "kaplan", data = data, data_label = data.label,
    data_varStruct = NULL)

  output$kaplan_plot <- renderPlot({
    print(out_kaplan())
  })
}
```

kaplanUI

kaplanUI: shiny module UI for kaplan-meier plot

Description

Shiny module UI for kaplan-meier plot

Usage

```
kaplanUI(id)
```

Arguments

id id

Details

Shiny module UI for kaplan-meier plot

Value

Shiny module UI for kaplan-meier plot

Examples

```
library(shiny);library(DT);library(data.table);library(jstable);library(ggplot2)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      kaplanUI("kaplan")
    ),
    mainPanel(
      plotOutput("kaplan_plot"),
      ggplotdownUI("kaplan")
    )
  )
)

server <- function(input, output, session) {

  data <- reactive(mtcars)
  data.label <- reactive(jstable::mk.lev(mtcars))

  out_kaplan <- callModule(kaplanModule, "kaplan", data = data, data_label = data.label,
                          data_varStruct = NULL)

  output$kaplan_plot <- renderPlot({
    print(out_kaplan())
  })
}
```

logistic.display2

logistic.display2: Modified epiDisplay's logistic.display function.

Description

Modified epiDisplay's logistic.display function for reactive data.

Usage

```
logistic.display2(
  logistic.model,
  alpha = 0.05,
  crude = TRUE,
  crude.p.value = FALSE,
```

```

    decimal = 2,
    simplified = FALSE
  )

```

Arguments

```

logistic.model  glm object(binomial)
alpha           alpha, Default: 0.05
crude           crude, Default: TRUE
crude.p.value   crude.p.value, Default: FALSE
decimal         decimal, Default: 2
simplified      simplified, Default: FALSE

```

Details

Modified `epiDisplay`'s `logistic.display` function for reactive data.

Value

logistic table

Examples

```

model1 <- glm(am ~ cyl + disp, data = mtcars, family = binomial)
logistic.display2(model1, crude = TRUE, crude.p.value = TRUE, decimal = 3)

```

| | |
|-----------------|--|
| logisticModule2 | <i>logisticModule2: Shiny module server for logistic regression for reactive data.</i> |
|-----------------|--|

Description

Shiny module server for logistic regression for reactive data.

Usage

```

logisticModule2(
  input,
  output,
  session,
  data,
  data_label,
  data_varStruct = NULL,
  nfactor.limit = 10,
  design.survey = NULL,
  default.unires = T,
  limit.unires = 20
)

```

Arguments

| | |
|----------------|---|
| input | input |
| output | output |
| session | session |
| data | reactive data |
| data_label | reactive data label |
| data_varStruct | List of variable structure, Default: NULL |
| nfactor.limit | nlevels limit in factor variable, Default: 10 |
| design.survey | reactive survey data. default: NULL |
| default.unires | Set default independent variables using univariate analysis, Default: T |
| limit.unires | Change to default.unires = F if number of independent variables > limit.unires, Default: 20 |

Details

Shiny module server for logistic regression.

Value

Shiny module server for logistic regression.

Examples

```
library(shiny);library(DT);library(data.table);library(jstable)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      regressModuleUI("logistic")
    ),
    mainPanel(
      DTOutput("logistictable")
    )
  )
)

server <- function(input, output, session) {

  data <- reactive(mtcars)
  data.label <- reactive(jstable::mk.lev(mtcars))

  out_logistic <- callModule(logisticModule2, "logistic", data = data, data_label = data.label,
                             data_varStruct = NULL)

  output$logistictable <- renderDT({
    datatable(out_logistic()$table, rownames=T, caption = out_logistic()$caption)
  })
}
```

| | |
|--------|---|
| mklist | <i>mklist: function to make variable list Including specific variables.</i> |
|--------|---|

Description

Function to make variable list Including specific variables.

Usage

```
mklist(varlist, vars)
```

Arguments

| | |
|---------|-------------------------|
| varlist | Original variable list. |
| vars | variable to include. |

Details

Internal function

Value

variable list Including specific variables.

Examples

```
data_varStruct <- list(variable = names(mtcars))
mklist(data_varStruct, names(mtcars))
```

| | |
|-----------|--|
| mksetdiff | <i>mksetdiff: function to make variable list excluding specific variables.</i> |
|-----------|--|

Description

Function to make variable list excluding specific variables.

Usage

```
mksetdiff(varlist, vars)
```

Arguments

| | |
|---------|------------------------|
| varlist | Original variable list |
| vars | variable to exclude. |

Details

Internal function

Value

variable list excluding specific variables.

Examples

```
data_varStruct <- list(variable = names(mtcars))
mksetdiff(data_varStruct, "mpg")
```

optionUI

optionUI: Option UI with icon

Description

Option UI with icon

Usage

```
optionUI(id)
```

Arguments

id id

Details

Option UI with icon

Value

Option UI with icon

See Also

[dropdownButton](#), [tooltipOptions](#)

Examples

```
library(shiny);library(DT);library(data.table);library(jstable);library(ggplot2)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      kaplanUI("kaplan")
    ),
    mainPanel(
      optionUI("kaplan"),
```

```

      plotOutput("kaplan_plot"),
      ggplotdownUI("kaplan")
    )
  )
)

server <- function(input, output, session) {

  data <- reactive(mtcars)
  data.label <- reactive(jstable::mk.lev(mtcars))

  out_kaplan <- callModule(kaplanModule, "kaplan", data = data, data_label = data.label,
                          data_varStruct = NULL)

  output$kaplan_plot <- renderPlot({
    print(out_kaplan())
  })
}

```

reclassificationJS *reclassificationJS: Function for reclassification table and statistics*

Description

Modified function of PredictABEL::reclassification: return output table

Usage

```

reclassificationJS(
  data,
  cOutcome,
  predrisk1,
  predrisk2,
  cutoff,
  dec.value = 3,
  dec.p = 3
)

```

Arguments

| | |
|-----------|--|
| data | Data frame or matrix that includes the outcome and predictors variables. |
| cOutcome | Column number of the outcome variable. |
| predrisk1 | Vector of predicted risks of all individuals using initial model. |
| predrisk2 | Vector of predicted risks of all individuals using updated model. |
| cutoff | Cutoff values for risk categories. Define the cut-off values. Ex: c(0,.20,.30,1) |
| dec.value | digits of value, Default: 4 |
| dec.p | digits of p, Default: 3 |

Details

Modified function of PredictABEL::reclassification

Value

Table including NRI(categorical), NRI(continuous), IDI with 95

See Also

[rcorrp.cens](#)

Examples

```
m1 <- glm(vs ~ am + gear, data = mtcars, family = binomial)
m2 <- glm(vs ~ am + gear + wt, data = mtcars, family = binomial)
reclassificationJS(data = mtcars, cOutcome = 8,
                  predrisk1 = predict(m1, type = "response"),
                  predrisk2=predict(m2, type = "response"), cutoff = c(0,.20,.40,1))
```

regress.display2 *regress.display2: modified epiDisplay's regress.display function*

Description

regress.display function for reactive data

Usage

```
regress.display2(
  regress.model,
  alpha = 0.05,
  crude = FALSE,
  crude.p.value = FALSE,
  decimal = 2,
  simplified = FALSE
)
```

Arguments

| | |
|---------------|-------------------------------|
| regress.model | lm object |
| alpha | alpha, Default: 0.05 |
| crude | crude, Default: FALSE |
| crude.p.value | crude.p.value, Default: FALSE |
| decimal | decimal, Default: 2 |
| simplified | simplified, Default: FALSE |

Details

regress.display function for reactive data

Value

regress table

Examples

```
model1 <- glm(mpg ~ cyl + disp + vs, data = mtcars)
regress.display2(model1, crude = TRUE, crude.p.value = TRUE, decimal = 3)
```

| | |
|----------------|--|
| regressModule2 | <i>regressModule2: Shiny modulde server for linear regression for reactive data.</i> |
|----------------|--|

Description

Shiny modulde server for linear regression for reactive data.

Usage

```
regressModule2(
  input,
  output,
  session,
  data,
  data_label,
  data_varStruct = NULL,
  nfactor.limit = 10,
  design.survey = NULL,
  default.unires = T,
  limit.unires = 20
)
```

Arguments

| | |
|----------------|---|
| input | input |
| output | output |
| session | session |
| data | reactive data |
| data_label | reactive data label |
| data_varStruct | List of variable structure, Default: NULL |
| nfactor.limit | nlevels limit in factor variable, Default: 10 |
| design.survey | reactive survey data. default: NULL |

default.unires Set default independent variables using univariate analysis, Default: T
 limit.unires Change to default.unires = F if number of independent variables > limit.unires,
 Default: 20

Details

Shiny module server for linear regression.

Value

Shiny module server for linear regression.

Examples

```
library(shiny);library(DT);library(data.table);library(jstable)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      regressModuleUI("linear")
    ),
    mainPanel(
      DTOutput("lineartable")
    )
  )
)

server <- function(input, output, session) {

  data <- reactive(mtcars)
  data.label <- reactive(jstable::mk.lev(mtcars))

  out_linear <- callModule(regressModule2, "linear", data = data, data_label = data.label,
    data_varStruct = NULL)

  output$lineartable <- renderDT({
    datatable(out_linear())$table, rownames=T, caption = out_linear()$caption
  })
}
```

regressModuleUI

regressModuleUI: shiny module UI for linear regression.

Description

Shiny module UI for linear regression.

Usage

```
regressModuleUI(id)
```

Arguments

id id

Details

Shiny module UI for linear regression.

Value

Shiny module UI for linear regression.

Examples

```
library(shiny);library(DT);library(data.table);library(jstable)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      regressModuleUI("linear")
    ),
    mainPanel(
      DTOutput("lineartable")
    )
  )
)

server <- function(input, output, session) {

  data <- reactive(mtcars)
  data.label <- reactive(jstable::mk.lev(mtcars))

  out_linear <- callModule(regressModule2, "linear", data = data, data_label = data.label,
    data_varStruct = NULL)

  output$lineartable <- renderDT({
    datatable(out_linear()$table, rownames=T, caption = out_linear()$caption)
  })
}
```

rocModule

rocModule: shiny module server for roc analysis

Description

shiny module server for roc analysis

Usage

```
rocModule(
  input,
  output,
  session,
  data,
  data_label,
  data_varStruct = NULL,
  nfactor.limit = 10,
  design.survey = NULL,
  id.cluster = NULL
)
```

Arguments

| | |
|----------------|--|
| input | input |
| output | output |
| session | session |
| data | Reactive data |
| data_label | Reactive data label |
| data_varStruct | Reactive List of variable structure, Default: NULL |
| nfactor.limit | nlevels limit in factor variable, Default: 10 |
| design.survey | Reactive survey data. default: NULL |
| id.cluster | Reactive cluster variable if marginal model, Default: NULL |

Details

shiny module server for roc analysis

Value

shiny module server for roc analysis

See Also

[quantile](#) [setkey](#) [ggroc](#) [geeglm](#) [svyglm](#) [theme_modern](#) [emf](#) [dev](#)

Examples

```
library(shiny);library(DT);library(data.table);library(jstable);library(ggplot2);library(pROC)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      rocUI("roc")
    ),
    mainPanel(
      plotOutput("plot_roc"),
```

```

      ggplotdownUI("roc"),
      DTOutput("table_roc")
    )
  )
)

server <- function(input, output, session) {

  data <- reactive(mtcars)
  data.label <- jstable::mk.lev(mtcars)

  out_roc <- callModule(rocModule, "roc", data = data, data_label = data.label,
                        data_varStruct = NULL)

  output$plot_roc <- renderPlot({
    print(out_roc())$plot
  })

  output$table_roc <- renderDT({
    datatable(out_roc())$tb, rownames=F, editable = F, extensions= "Buttons",
              caption = "ROC results",
              options = c(jstable::opt.tbreg("roctable"), list(scrollX = TRUE)))
  })
}

```

rocModule2

rocModule2: shiny module server for roc analysis- input number of model as integer

Description

shiny module server for roc analysis- input number of model as integer

Usage

```

rocModule2(
  input,
  output,
  session,
  data,
  data_label,
  data_varStruct = NULL,
  nfactor.limit = 10,
  design.survey = NULL,
  id.cluster = NULL
)

```

Arguments

| | |
|----------------|--|
| input | input |
| output | output |
| session | session |
| data | Reactive data |
| data_label | Reactive data label |
| data_varStruct | Reactive List of variable structure, Default: NULL |
| nfactor.limit | nlevels limit in factor variable, Default: 10 |
| design.survey | Reactive survey data. default: NULL |
| id.cluster | Reactive cluster variable if marginal model, Default: NULL |

Details

shiny module server for roc analysis- input number of model as integer

Value

shiny module server for roc analysis- input number of model as integer

See Also

[quantile](#) [setkey](#) [ggroc](#) [geeglm](#) [svyglm](#) [theme_modern](#) [emf](#) [dev](#)

Examples

```
library(shiny);library(DT);library(data.table);library(jstable);library(ggplot2);library(pROC)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      rocUI("roc")
    ),
    mainPanel(
      plotOutput("plot_roc"),
      ggplotdownUI("roc"),
      DTOutput("table_roc")
    )
  )
)

server <- function(input, output, session) {

  data <- reactive(mtcars)
  data.label <- jstable::mk.lev(mtcars)

  out_roc <- callModule(rocModule2, "roc", data = data, data_label = data.label,
    data_varStruct = NULL)

  output$plot_roc <- renderPlot({
```

```

    print(out_roc())$plot)
  })

  output$table_roc <- renderDT({
    datatable(out_roc())$tb, rownames=F, editable = F, extensions= "Buttons",
              caption = "ROC results",
              options = c(jstable::opt.tbreg("roctable"), list(scrollX = TRUE)))
  })
}

```

 rocUI

rocUI: shiny module UI for roc analysis

Description

Shiny module UI for roc analysis

Usage

```
rocUI(id)
```

Arguments

```
id          id
```

Details

Shiny module UI for roc analysis

Value

Shiny module UI for roc analysis

Examples

```

library(shiny);library(DT);library(data.table);library(jstable);library(ggplot2);library(pROC)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      rocUI("roc")
    ),
    mainPanel(
      plotOutput("plot_roc"),
      ggplotdownUI("roc"),
      DTOutput("table_roc")
    )
  )
)

server <- function(input, output, session) {

```



```

data <- reactive(mtcars)
data.label <- jstable::mk.lev(mtcars)

out_roc <- callModule(rocModule, "roc", data = data, data_label = data.label,
                      data_varStruct = NULL)

output$plot_roc <- renderPlot({
  print(out_roc()$plot)
})

output$table_roc <- renderDT({
  datatable(out_roc()$tb, rownames=F, editable = F, extensions= "Buttons",
            caption = "ROC results",
            options = c(jstable::opt.tbreg("roctable"), list(scrollX = TRUE)))
})
}

```

| | |
|-----------|--|
| ROC_table | <i>ROC_table: extract AUC, NRI and IDI information from list of roc object in pROC packages.</i> |
|-----------|--|

Description

extract AUC, NRI and IDI information from list of roc in pROC packages

Usage

```
ROC_table(ListModel, dec.auc = 3, dec.p = 3)
```

Arguments

| | |
|-----------|--------------------------------|
| ListModel | list of roc object |
| dec.auc | digits for AUC, Default: 3 |
| dec.p | digits for p value, Default: 3 |

Details

extract AUC, NRI and IDI information from list of roc object in pROC packages.

Value

table of AUC, NRI and IDI information

See Also

[ci.auc,roc.test](#), [data.table](#), [rbindlist](#)

Examples

```
library(pROC)
m1 <- glm(vs ~ am + gear, data = mtcars, family = binomial)
m2 <- glm(vs ~ am + gear + wt, data = mtcars, family = binomial)
m3 <- glm(vs ~ am + gear + wt + mpg, data = mtcars, family = binomial)
roc1 <- roc(m1$y, predict(m1, type = "response"))
roc2 <- roc(m2$y, predict(m2, type = "response"))
roc3 <- roc(m3$y, predict(m3, type = "response"))
list.roc <- list(roc1, roc2, roc3)
ROC_table(list.roc)
```

scatterServer

scatterServer: shiny module server for scatterplot.

Description

Shiny module server for scatterplot.

Usage

```
scatterServer(id, data, data_label, data_varStruct = NULL, nfactor.limit = 10)
```

Arguments

| | |
|----------------|--|
| id | id |
| data | Reactive data |
| data_label | Reactive data label |
| data_varStruct | Reactive List of variable structure, Default: NULL |
| nfactor.limit | nlevels limit in factor variable, Default: 10 |

Details

Shiny module server for scatterplot.

Value

Shiny module server for scatterplot.

Examples

```
library(shiny);library(ggplot2);library(ggpubr);
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      scatterUI("scatter")
    ),
    mainPanel(
```

```
      plotOutput("scatter_plot"),
      ggplotdownUI("scatter")
    )
  )
)

server <- function(input, output, session) {

  data <- reactive(mtcars)
  data.label <- reactive(jstable::mk.lev(mtcars))

  out_scatter <- scatterServer("scatter", data = data, data_label = data.label,
    data_varStruct = NULL)

  output$scatter_plot <- renderPlot({
    print(out_scatter())
  })
}
```

scatterUI

scatterUI: shiny module UI for scatterplot

Description

Shiny module UI for scatterplot

Usage

```
scatterUI(id, label = "scatterplot")
```

Arguments

| | |
|-------|-------|
| id | id |
| label | label |

Details

Shiny module UI for scatterplot

Value

Shiny module UI for scatterplot

Examples

```

library(shiny);library(ggplot2);library(ggpubr);
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      scatterUI("scatter")
    ),
    mainPanel(
      plotOutput("scatter_plot"),
      ggplotdownUI("scatter")
    )
  )
)

server <- function(input, output, session) {

  data <- reactive(mtcars)
  data.label <- reactive(jstable::mk.lev(mtcars))

  out_scatter <- scatterServer("scatter", data = data, data_label = data.label,
    data_varStruct = NULL)

  output$scatter_plot <- renderPlot({
    print(out_scatter())
  })
}

```

| | |
|-------------------|--|
| survIDINRI_helper | <i>survIDINRI_helper: Helper function for IDI.INF.OUT in survIDINRI packages</i> |
|-------------------|--|

Description

Helper function for IDI.INF.OUT in survIDINRI packages

Usage

```

survIDINRI_helper(
  var.event,
  var.time,
  list.vars.ind,
  t,
  data,
  dec.auc = 3,
  dec.p = 3,
  id.cluster = NULL
)

```

Arguments

| | |
|---------------|---|
| var.event | event |
| var.time | time |
| list.vars.ind | list of independent variable |
| t | time |
| data | data |
| dec.auc | digits for AUC, Default: 3 |
| dec.p | digits for p value, Default: 3 |
| id.cluster | cluster variable if marginal model, Default: NULL |

Details

Helper function for IDI.INF.OUT in survIDINRI packages

Value

IDI, NRI

See Also

[data.table model.matrix coxph Surv IDI.INF.OUT IDI.INF](#)

Examples

```
#library(survival)
#survIDINRI_helper("status", "time", list.vars.ind = list("age", c("age", "sex")),
#                  t = 365, data = lung)
```

tb1module

tb1module: table 1 shiny module server.

Description

Table 1 shiny module server for descriptive statistics.

Usage

```
tb1module(
  input,
  output,
  session,
  data,
  data_label,
  data_varStruct = NULL,
  nfactor.limit = 10,
```

```

design.survey = NULL,
showAllLevels = T,
argsExact = list(workspace = 2 * 10^7, simulate.p.value = T)
)

```

Arguments

| | |
|----------------|---|
| input | input |
| output | output |
| session | session |
| data | Data |
| data_label | Data label |
| data_varStruct | Variable structure list of data, Default: NULL |
| nfactor.limit | maximum factor levels to include, Default: 10 |
| design.survey | survey data of survey package. default: NULL |
| showAllLevels | Show All label information with 2 categorical variables, Default: T |
| argsExact | Option for Fisher exact test memory limit. |

Details

Table 1 shiny module server for descriptive statistics.

Value

Table 1 shiny module server for descriptive statistics.

Examples

```

library(shiny);library(DT);library(data.table);library(jstable)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      tb1moduleUI("tb1")
    ),
    mainPanel(
      DTOutput("table1")
    )
  )
)

server <- function(input, output, session) {

  data <- mtcars
  data.label <- jstable::mk.lev(mtcars)

  out_tb1 <- callModule(tb1module, "tb1", data = data, data_label = data.label,
    data_varStruct = NULL)
}

```

```

output$table1 <- renderDT({
  tb <- out_tb1()$table
  cap <- out_tb1()$caption
  out.tb1 <- datatable(tb, rownames = T, extension= "Buttons", caption = cap)
  return(out.tb1)
})
}

```

tb1module2

tb1module: table 1 shiny module server for reactive data.

Description

Table 1 shiny module server for descriptive statistics for reactive data.

Usage

```

tb1module2(
  input,
  output,
  session,
  data,
  data_label,
  data_varStruct = NULL,
  nfactor.limit = 10,
  design.survey = NULL,
  showAllLevels = T,
  argsExact = list(workspace = 2 * 10^7, simulate.p.value = T)
)

```

Arguments

| | |
|----------------|---|
| input | input |
| output | output |
| session | session |
| data | Reactive data |
| data_label | Reactive data label |
| data_varStruct | Variable structure list of data, Default: NULL |
| nfactor.limit | maximum factor levels to include, Default: 10 |
| design.survey | Reactive survey data of survey package. Default: NULL |
| showAllLevels | Show All label information with 2 categorical variables, Default: T |
| argsExact | Option for Fisher exact test memory limit. |

Details

Table 1 shiny module server for descriptive statistics.

Value

Table 1 shiny module server for descriptive statistics.

Examples

```
library(shiny);library(DT);library(data.table);library(jstable)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      tb1moduleUI("tb1")
    ),
    mainPanel(
      DTOutput("table1")
    )
  )
)

server <- function(input, output, session) {

  data <- reactive(mtcars)
  data.label <- reactive(jstable::mk.lev(mtcars))

  out_tb1 <- callModule(tb1module2, "tb1", data = data, data_label = data.label,
    data_varStruct = NULL)

  output$table1 <- renderDT({
    tb <- out_tb1()$table
    cap <- out_tb1()$caption
    out.tb1 <- datatable(tb, rownames = T, extension= "Buttons", caption = cap)
    return(out.tb1)
  })
}
```

tb1moduleUI

tb1moduleUI: table 1 module UI.

Description

Table 1 shiny module UI for descriptive statistics.

Usage

```
tb1moduleUI(id)
```

Arguments

id id

Details

Table 1 shiny module UI for descriptive statistics.

Value

Table 1 module UI.

Examples

```
library(shiny);library(DT);library(data.table);library(jstable)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      tb1moduleUI("tb1")
    ),
    mainPanel(
      DTOutput("table1")
    )
  )
)

server <- function(input, output, session) {

  data <- reactive(mtcars)
  data.label <- reactive(jstable::mk.lev(mtcars))

  out_tb1 <- callModule(tb1module2, "tb1", data = data, data_label = data.label,
    data_varStruct = NULL)

  output$table1 <- renderDT({
    tb <- out_tb1()$table
    cap <- out_tb1()$caption
    out.tb1 <- datatable(tb, rownames = T, extension= "Buttons", caption = cap)
    return(out.tb1)
  })
}
```

 tb1simple

tb1simple: tb1 module server for propensity score analysis

Description

Table 1 module server for propensity score analysis

Usage

```
tb1simple(
  input,
  output,
```

```

    session,
    data,
    matdata,
    data_label,
    data_varStruct = NULL,
    group_var,
    showAllLevels = T
  )

```

Arguments

| | |
|----------------|---|
| input | input |
| output | output |
| session | session |
| data | Original data with propensity score |
| matdata | Matching data |
| data_label | Data label |
| data_varStruct | List of variable structure, Default: NULL |
| group_var | Group variable to run propensity score analysis. |
| showAllLevels | Show All label information with 2 categorical variables, Default: T |

Details

Table 1 module server for propensity score analysis

Value

Table 1 with original data/matching data/IPTW data

See Also

[var_label](#) [CreateTableOneJS](#) [svydesign](#) [svyCreateTableOne](#)

Examples

```

library(shiny);library(DT);library(data.table);library(readxl);library(jstable)
library(haven);library(survey)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      FilePsInput("datafile"),
      tb1simpleUI("tb1")
    ),
    mainPanel(
      DTOutput("table1_original"),
      DTOutput("table1_ps"),
      DTOutput("table1_iptw")
    )
  )

```

```

)
)

server <- function(input, output, session) {

  mat.info <- callModule(FilePs, "datafile")

  data <- reactive(mat.info())$data
  matdata <- reactive(mat.info())$matdata
  data.label <- reactive(mat.info())$data.label

  vlist <- eventReactive(mat.info(), {
    mklist <- function(varlist, vars){
      lapply(varlist,
        function(x){
          inter <- intersect(x, vars)
          if (length(inter) == 1){
            inter <- c(inter, "")
          }
          return(inter)
        })
    }
  })
  factor_vars <- names(data())[data()[, lapply(.SD, class) %in% c("factor", "character")]]
  factor_list <- mklist(data_varStruct(), factor_vars)
  conti_vars <- setdiff(names(data()), c(factor_vars, "pscore", "iptw"))
  conti_list <- mklist(data_varStruct(), conti_vars)
  nclass_factor <- unlist(data()[, lapply(.SD, function(x){length(unique(x)[!is.na(unique(x))])}),
    .SDcols = factor_vars])
  class01_factor <- unlist(data()[, lapply(.SD, function(x){identical(levels(x), c("0", "1"))}),
    .SDcols = factor_vars])

  validate(
    need(!is.null(class01_factor), "No categorical variables coded as 0, 1 in data")
  )
  factor_01vars <- factor_vars[class01_factor]
  factor_01_list <- mklist(data_varStruct(), factor_01vars)
  group_vars <- factor_vars[nclass_factor >= 2 & nclass_factor <= 10 & nclass_factor < nrow(data())]
  group_list <- mklist(data_varStruct(), group_vars)
  except_vars <- factor_vars[nclass_factor > 10 | nclass_factor == 1 | nclass_factor == nrow(data())]

  ## non-normal: shapiro test
  f <- function(x) {
    if (diff(range(x, na.rm = T)) == 0) return(F) else return(shapiro.test(x)$p.value <= 0.05)
  }

  non_normal <- ifelse(nrow(data()) <= 3 | nrow(data()) >= 5000,
    rep(F, length(conti_vars)),
    sapply(conti_vars, function(x){f(data()[[x]])})
  )
  return(list(factor_vars = factor_vars, factor_list = factor_list, conti_vars = conti_vars,
    conti_list = conti_list, factor_01vars = factor_01vars,
    factor_01_list = factor_01_list, group_list = group_list,
    except_vars = except_vars, non_normal = non_normal)

```

```

    )
  })

out.tb1 <- callModule(tb1simple2, "tb1", data = data, matdata = matdata, data_label = data.label,
  data_varStruct = NULL, vlist = vlist,
  group_var = reactive(mat.info()$group_var))

output$table1_original <- renderDT({
  tb <- out.tb1()$original$table
  cap <- out.tb1()$original$caption
  out <- datatable(tb, rownames = T, extension= "Buttons", caption = cap)
  return(out)
})

output$table1_ps <- renderDT({
  tb <- out.tb1()$ps$table
  cap <- out.tb1()$ps$caption
  out <- datatable(tb, rownames = T, extension= "Buttons", caption = cap)
  return(out)
})

output$table1_iprw <- renderDT({
  tb <- out.tb1()$iptw$table
  cap <- out.tb1()$iptw$caption
  out <- datatable(tb, rownames = T, extension= "Buttons", caption = cap)
  return(out)
})
}

```

 tb1simple2

tb1simple2: tb1 module for propensity score analysis for reactive data

Description

tb1 module for propensity score analysis for reactive data

Usage

```

tb1simple2(
  input,
  output,
  session,
  data,
  matdata,
  data_label,
  data_varStruct = NULL,
  vlist,
  group_var,
  showAllLevels = T
)

```

Arguments

| | |
|----------------|---|
| input | input |
| output | output |
| session | session |
| data | Original reactive data with propensity score |
| matdata | Matching reactive data |
| data_label | Reactive data label |
| data_varStruct | List of variable structure, Default: NULL |
| vlist | List including factor/continuous/binary/except/non-normal variables |
| group_var | Group variable to run propensity score analysis. |
| showAllLevels | Show All label information with 2 categorical variables, Default: T |

Details

Table 1 module server for propensity score analysis

Value

Table 1 with original data/matching data/IPTW data

See Also

[CreateTableOneJS](#) [svydesign](#) [svyCreateTableOne](#)

Examples

```
library(shiny);library(DT);library(data.table);library(readxl);library(jstable)
library(haven);library(survey)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      FilePsInput("datafile"),
      tb1simpleUI("tb1")
    ),
    mainPanel(
      DTOutput("table1_original"),
      DTOutput("table1_ps"),
      DTOutput("table1_iptw")
    )
  )
)

server <- function(input, output, session) {

  mat.info <- callModule(FilePs, "datafile")

  data <- reactive(mat.info())$data
  matdata <- reactive(mat.info())$matdata
```

```

data.label <- reactive(mat.info())$data.label)

vlist <- eventReactive(mat.info(), {
  mklist <- function(varlist, vars){
    lapply(varlist,
      function(x){
        inter <- intersect(x, vars)
        if (length(inter) == 1){
          inter <- c(inter, "")
        }
        return(inter)
      })
  }
factor_vars <- names(data())[data()[, lapply(.SD, class) %in% c("factor", "character")]]
factor_list <- mklist(data_varStruct(), factor_vars)
conti_vars <- setdiff(names(data()), c(factor_vars, "pscore", "iptw"))
conti_list <- mklist(data_varStruct(), conti_vars)
nclass_factor <- unlist(data()[, lapply(.SD, function(x){length(unique(x)[!is.na(unique(x))])}),
  .SDcols = factor_vars])
class01_factor <- unlist(data()[, lapply(.SD, function(x){identical(levels(x), c("0", "1"))}),
  .SDcols = factor_vars])

  validate(
    need(!is.null(class01_factor), "No categorical variables coded as 0, 1 in data")
  )
  factor_01vars <- factor_vars[class01_factor]
  factor_01_list <- mklist(data_varStruct(), factor_01vars)
group_vars <- factor_vars[nclass_factor >=2 & nclass_factor <=10 & nclass_factor < nrow(data())]
group_list <- mklist(data_varStruct(), group_vars)
except_vars <- factor_vars[nclass_factor >10 | nclass_factor ==1 | nclass_factor ==nrow(data())]

  ## non-normal: shapiro test
  f <- function(x) {
    if (diff(range(x, na.rm = T)) == 0) return(F) else return(shapiro.test(x)$p.value <= 0.05)
  }

  non_normal <- ifelse(nrow(data()) <=3 | nrow(data()) >= 5000,
    rep(F, length(conti_vars)),
    sapply(conti_vars, function(x){f(data()[[x]])})
  )
  return(list(factor_vars = factor_vars, factor_list = factor_list, conti_vars = conti_vars,
    conti_list = conti_list, factor_01vars = factor_01vars,
    factor_01_list = factor_01_list, group_list = group_list,
    except_vars = except_vars, non_normal = non_normal)
  )
})

out.tb1 <- callModule(tb1simple2, "tb1", data = data, matdata = matdata, data_label = data.label,
  data_varStruct = NULL, vlist = vlist,
  group_var = reactive(mat.info())$group_var)

output$table1_original <- renderDT({

```

```
    tb <- out.tb1()$original$table
    cap <- out.tb1()$original$caption
    out <- datatable(tb, rownames = T, extension= "Buttons", caption = cap)
    return(out)
  })

  output$table1_ps <- renderDT({
    tb <- out.tb1()$ps$table
    cap <- out.tb1()$ps$caption
    out <- datatable(tb, rownames = T, extension= "Buttons", caption = cap)
    return(out)
  })

  output$table1_ipw <- renderDT({
    tb <- out.tb1()$ipw$table
    cap <- out.tb1()$ipw$caption
    out <- datatable(tb, rownames = T, extension= "Buttons", caption = cap)
    return(out)
  })
}
```

tb1simpleUI

tb1simpleUI : tb1 module UI for propensity score analysis

Description

Table 1 module UI for propensity score analysis.

Usage

```
tb1simpleUI(id)
```

Arguments

id id

Details

tb1 module UI for propensity score analysis

Value

Table 1 UI for propensity score analysis

Examples

```

library(shiny);library(DT);library(data.table);library(readxl);library(jstable)
library(haven);library(survey)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      FilePsInput("datafile"),
      tb1simpleUI("tb1")
    ),
    mainPanel(
      DTOutput("table1_original"),
      DTOutput("table1_ps"),
      DTOutput("table1_iptw")
    )
  )
)

server <- function(input, output, session) {

  mat.info <- callModule(FilePs, "datafile")

  data <- reactive(mat.info())$data
  matdata <- reactive(mat.info())$matdata
  data.label <- reactive(mat.info())$data.label

  vlist <- eventReactive(mat.info(), {
    mklist <- function(varlist, vars){
      lapply(varlist,
        function(x){
          inter <- intersect(x, vars)
          if (length(inter) == 1){
            inter <- c(inter, "")
          }
          return(inter)
        })
    }
  })
  factor_vars <- names(data())[data()[, lapply(.SD, class) %in% c("factor", "character")]]
  factor_list <- mklist(data_varStruct(), factor_vars)
  conti_vars <- setdiff(names(data()), c(factor_vars, "pscore", "iptw"))
  conti_list <- mklist(data_varStruct(), conti_vars)
  nclass_factor <- unlist(data()[, lapply(.SD, function(x){length(unique(x)[!is.na(unique(x))])}),
    .SDcols = factor_vars])
  class01_factor <- unlist(data()[, lapply(.SD, function(x){identical(levels(x), c("0", "1"))}),
    .SDcols = factor_vars])

  validate(
    need(!is.null(class01_factor), "No categorical variables coded as 0, 1 in data")
  )
  factor_01vars <- factor_vars[class01_factor]
  factor_01_list <- mklist(data_varStruct(), factor_01vars)
  group_vars <- factor_vars[nclass_factor >=2 & nclass_factor <=10 & nclass_factor < nrow(data())]
  group_list <- mklist(data_varStruct(), group_vars)

```



```

except_vars <- factor_vars[nclass_factor>10 | nclass_factor==1 | nclass_factor==nrow(data())]

## non-normal: shapiro test
f <- function(x) {
  if (diff(range(x, na.rm = T)) == 0) return(F) else return(shapiro.test(x)$p.value <= 0.05)
}

non_normal <- ifelse(nrow(data()) <=3 | nrow(data()) >= 5000,
  rep(F, length(conti_vars)),
  sapply(conti_vars, function(x){f(data()[[x]])})
)
return(list(factor_vars = factor_vars, factor_list = factor_list,
  conti_vars = conti_vars, conti_list = conti_list, factor_01vars = factor_01vars,
  factor_01_list = factor_01_list, group_list = group_list,
  except_vars = except_vars, non_normal = non_normal)
)
})

out.tb1 <- callModule(tb1simple2, "tb1", data = data, matdata = matdata, data_label = data.label,
  data_varStruct = NULL, vlist = vlist,
  group_var = reactive(mat.info())$group_var)

output$table1_original <- renderDT({
  tb <- out.tb1()$original$table
  cap <- out.tb1()$original$caption
  out <- datatable(tb, rownames = T, extension= "Buttons", caption = cap)
  return(out)
})

output$table1_ps <- renderDT({
  tb <- out.tb1()$ps$table
  cap <- out.tb1()$ps$caption
  out <- datatable(tb, rownames = T, extension= "Buttons", caption = cap)
  return(out)
})

output$table1_iptw <- renderDT({
  tb <- out.tb1()$iptw$table
  cap <- out.tb1()$iptw$caption
  out <- datatable(tb, rownames = T, extension= "Buttons", caption = cap)
  return(out)
})
}

```

timerROChelper

timeROChelper: Helper function for timerocModule

Description

Helper function for timerocModule

Usage

```
timeROChelper(  
  var.event,  
  var.time,  
  vars.ind,  
  t,  
  data,  
  design.survey = NULL,  
  id.cluster = NULL,  
  iid = T  
)
```

Arguments

| | |
|----------------------------|--|
| <code>var.event</code> | event |
| <code>var.time</code> | time |
| <code>vars.ind</code> | independent variable |
| <code>t</code> | time |
| <code>data</code> | data |
| <code>design.survey</code> | survey data, Default: NULL |
| <code>id.cluster</code> | cluster variable if marginal model, Default: NULL |
| <code>iid</code> | logical. if calculationg confidence interval, Default: T |

Details

Helper function for timerocModule

Value

timeROC object

See Also

[coxph](#) [svycoxph](#) [predict](#) [timeROC](#)

Examples

```
#library(survival)  
#timeROChelper("status", "time", c("age", "sex"), t = 365, data = lung)
```

| | |
|---------------|---|
| timerocModule | <i>timerocModule: shiny module server for time-dependent roc analysis</i> |
|---------------|---|

Description

shiny module server for time-dependent roc analysis

shiny module server for time-dependent roc analysis- input number of model as integer

Usage

```
timerocModule(  
  input,  
  output,  
  session,  
  data,  
  data_label,  
  data_varStruct = NULL,  
  nfactor.limit = 10,  
  design.survey = NULL,  
  id.cluster = NULL,  
  iid = T,  
  NRIIDI = T  
)
```

```
timerocModule2(  
  input,  
  output,  
  session,  
  data,  
  data_label,  
  data_varStruct = NULL,  
  nfactor.limit = 10,  
  design.survey = NULL,  
  id.cluster = NULL,  
  iid = T,  
  NRIIDI = T  
)
```

Arguments

| | |
|------------|---------------------|
| input | input |
| output | output |
| session | session |
| data | Reactive data |
| data_label | Reactive data label |

| | |
|-----------------------------|--|
| <code>data_varStruct</code> | Reactive List of variable structure, Default: NULL |
| <code>nfactor.limit</code> | nlevels limit in factor variable, Default: 10 |
| <code>design.survey</code> | Reactive survey data. default: NULL |
| <code>id.cluster</code> | Reactive cluster variable if marginal model, Default: NULL |
| <code>iid</code> | logical, get CI of AUC, Default: T |
| <code>NRIIDI</code> | logical, get NRI & IDI, Default: T |

Details

shiny module server for time-dependent roc analysis

shiny module server for time dependent roc analysis- input number of model as integer

Value

shiny module server for time-dependent roc analysis

shiny module server for time dependent roc analysis- input number of model as integer

See Also

[quantile setkey data.table rbindlist](#)

[quantile setkey data.table rbindlist](#)

Examples

```
library(shiny);library(DT);library(data.table);library(jstable);library(ggplot2)
library(timeROC);library(survIDINRI)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      timerocUI("timeroc")
    ),
    mainPanel(
      plotOutput("plot_timeroc"),
      ggplotdownUI("timeroc"),
      DTOutput("table_timeroc")
    )
  )
)

server <- function(input, output, session) {

  data <- reactive(mtcars)
  data.label <- jstable::mk.lev(mtcars)

  out_timeroc <- callModule(timerocModule, "timeroc", data = data, data_label = data.label,
    data_varStruct = NULL)

  output$plot_timeroc <- renderPlot({
    print(out_timeroc())$plot)
  })
}
```

```

    })

    output$table_timeroc <- renderDT({
      datatable(out_timeroc()$tb, rownames=F, editable = F, extensions= "Buttons",
        caption = "ROC results",
        options = c(jstable::opt.tbreg("roctable"), list(scrollX = TRUE)))
    })
  }
  library(shiny);library(DT);library(data.table);library(jstable);library(ggplot2)
  library(timeroc);library(survIDINRI)
  ui <- fluidPage(
    sidebarLayout(
      sidebarPanel(
        timerocUI("timeroc")
      ),
      mainPanel(
        plotOutput("plot_timeroc"),
        ggplotdownUI("timeroc"),
        DTOutput("table_timeroc")
      )
    )
  )
  )

  server <- function(input, output, session) {

    data <- reactive(mtcars)
    data.label <- jstable::mk.lev(mtcars)

    out_timeroc <- callModule(timerocModule2, "timeroc", data = data, data_label = data.label,
      data_varStruct = NULL)

    output$plot_timeroc <- renderPlot({
      print(out_timeroc()$plot)
    })

    output$table_timeroc <- renderDT({
      datatable(out_timeroc()$tb, rownames=F, editable = F, extensions= "Buttons",
        caption = "ROC results",
        options = c(jstable::opt.tbreg("roctable"), list(scrollX = TRUE)))
    })
  }
}

```

timerocUI

timerocUI: shiny module UI for time-dependent roc analysis

Description

Shiny module UI for time-dependent roc analysis

Usage

```
timerocUI(id)
```

Arguments

```
id          id
```

Details

Shiny module UI for time-dependent roc analysis

Value

Shiny module UI for time-dependent roc analysis

Examples

```
library(shiny);library(DT);library(data.table);library(jstable);library(ggplot2)
library(timeROC);library(survIDINRI)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      timerocUI("timeroc")
    ),
    mainPanel(
      plotOutput("plot_timeroc"),
      ggplotdownUI("timeroc"),
      DTOutput("table_timeroc")
    )
  )
)

server <- function(input, output, session) {

  data <- reactive(mtcars)
  data.label <- jstable::mk.lev(mtcars)

  out_timeroc <- callModule(timerocModule, "timeroc", data = data, data_label = data.label,
                           data_varStruct = NULL)

  output$plot_timeroc <- renderPlot({
    print(out_timeroc())$plot
  })

  output$table_timeroc <- renderDT({
    datatable(out_timeroc()$tb, rownames=F, editable = F, extensions= "Buttons",
              caption = "ROC results",
              options = c(jstable::opt.tbreg("roctable"), list(scrollX = TRUE)))
  })
}
```


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