Package 'jsmodule'

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```
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```

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Description

Shiny module server for barplot.

Usage

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

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Arguments

```
    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 barplot.

Value

Shiny module server for barplot.

```
library(shiny)
library(ggplot2)
library(ggpubr)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      barUI("bar")
    ),
    mainPanel(
      optionUI("bar"),
      plotOutput("bar_plot"),
      ggplotdownUI("bar")
 )
server <- function(input, output, session) {</pre>
  data <- reactive(mtcars)</pre>
  data.label <- reactive(jstable::mk.lev(mtcars))</pre>
  out_bar <- barServer("bar",</pre>
    data = data, data_label = data.label,
    data_varStruct = NULL
  output$bar_plot <- renderPlot({</pre>
    print(out_bar())
  })
}
```

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barUI

barUI: shiny module UI for barplot

Description

Shiny module UI for barplot

Usage

```
barUI(id, label = "barplot")
```

Arguments

id id label

Details

Shiny module UI for barplot

Value

Shiny module UI for barplot

```
library(shiny)
library(ggplot2)
library(ggpubr)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      barUI("bar")
    ),
    mainPanel(
      optionUI("bar"),
      plotOutput("bar_plot"),
      ggplotdownUI("bar")
    )
  )
)
server <- function(input, output, session) {</pre>
  data <- reactive(mtcars)</pre>
  data.label <- reactive(jstable::mk.lev(mtcars))</pre>
  out_bar <- barServer("bar",</pre>
    data = data, data_label = data.label,
    data_varStruct = NULL
```

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```
)
  output$bar_plot <- renderPlot({
    print(out_bar())
  })
}</pre>
```

boxServer

boxServer: shiny module server for boxplot.

Description

Shiny module server for boxplot.

Usage

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

Arguments

```
    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 boxplot.

Value

Shiny module server for boxplot.

```
library(shiny)
library(ggplot2)
library(ggpubr)
ui <- fluidPage(
    sidebarLayout(
        sidebarPanel(
            boxUI("box")
      ),
      mainPanel(
            optionUI("box"),
            plotOutput("box_plot"),
            ggplotdownUI("box")</pre>
```

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```
)
)
)
server <- function(input, output, session) {
  data <- reactive(mtcars)
  data.label <- reactive(jstable::mk.lev(mtcars))

  out_box <- boxServer("box",
    data = data, data_label = data.label,
    data_varStruct = NULL
)

  output$box_plot <- renderPlot({
    print(out_box())
  })
}</pre>
```

boxUI

boxUI: shiny module UI for boxplot

Description

Shiny module UI for boxplot

Usage

```
boxUI(id, label = "boxplot")
```

Arguments

id id label

Details

Shiny module UI for boxplot

Value

Shiny module UI for boxplot

```
library(shiny)
library(ggplot2)
library(ggpubr)
ui <- fluidPage(
    sidebarLayout(</pre>
```

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```
sidebarPanel(
      boxUI("box")
    ),
    mainPanel(
      optionUI("box"),
      plotOutput("box_plot"),
      ggplotdownUI("box")
 )
)
server <- function(input, output, session) {</pre>
  data <- reactive(mtcars)</pre>
  data.label <- reactive(jstable::mk.lev(mtcars))</pre>
  out_box <- boxServer("box",</pre>
    data = data, data_label = data.label,
    data_varStruct = NULL
  )
  output$box_plot <- renderPlot({</pre>
    print(out_box())
  })
}
```

coxModule

coxModule: shiny modulde server for Cox's model.

Description

Shiny modulde 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,
  ties.coxph = "efron"
)
```

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Arguments

```
input
                  input
output
                  output
session
                  session
data
                  reactive data
data_label
                  reactuve data label
data_varStruct reactive list of variable structure, Default: NULL
                  nlevels limit in factor variable, Default: 10
nfactor.limit
design.survey
                  reactive survey data. default: NULL
default.unires Set default independent variables using univariate analysis.
                  Change to default.unires = F if number of independent variables > limit.unires,
limit.unires
                  Default: 20
id.cluster
                  reactive cluster variable if marginal cox model, Default: NULL
ties.coxph
                  'coxph' ties option, one of 'efron', 'breslow', 'exact', default: 'erfon'
```

Details

Shiny modulde server for Cox's model.

Value

Shiny modulde server for Cox's model.

```
library(shiny)
library(DT)
library(data.table)
library(jstable)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      coxUI("cox")
    ),
    mainPanel(
      DTOutput("coxtable")
  )
server <- function(input, output, session) {</pre>
  data <- reactive(mtcars)</pre>
  data.label <- reactive(jstable::mk.lev(mtcars))</pre>
  out_cox <- callModule(coxModule, "cox",</pre>
    data = data, data_label = data.label,
    data_varStruct = NULL
```

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

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 modulde UI for Cox's model.

Value

coxUI

Examples

coxUI(1)

csvFile

csvFile: Shiny module Server for file upload.

Description

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

Usage

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

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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.

```
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) {</pre>
  data <- callModule(csvFile, "datafile")</pre>
  output$data <- renderDT({</pre>
    data()$data
  output$label <- renderDT({</pre>
    data()$label
  })
}
```

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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.

```
library(shiny)
library(DT)
library(data.table)
library(readxl)
library(jstable)
ui <- fluidPage(</pre>
  sidebarLayout(
    sidebarPanel(
      csvFileInput("datafile")
    ),
    mainPanel(
      tabsetPanel(
        type = "pills",
        tabPanel("Data", DTOutput("data")),
        tabPanel("Label", DTOutput("data_label", width = "100%"))
 )
server <- function(input, output, session) {</pre>
  data <- callModule(csvFile, "datafile")</pre>
```

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

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

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.

```
library(shiny)
library(DT)
library(data.table)
library(readxl)
library(jstable)
ui <- fluidPage(
    sidebarLayout(
        sidebarPanel(
        FilePsInput("datafile")
        ),</pre>
```

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```
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) {</pre>
  mat.info <- callModule(FilePs, "datafile")</pre>
  output$data <- renderDT({</pre>
    mat.info()$data
  })
  output$matdata <- renderDT({</pre>
    mat.info()$matdata
  })
  output$label <- renderDT({</pre>
    mat.info()$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, Default: 'csv/xlsx/sav/sas7bdat file'
```

Details

Shiny module UI for file upload for propensity score matching.

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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) {</pre>
  mat.info <- callModule(FilePs, "datafile")</pre>
  output$data <- renderDT({</pre>
    mat.info()$data
  })
  output$matdata <- renderDT({</pre>
    mat.info()$matdata
  })
  output$label <- renderDT({</pre>
    mat.info()$label
  })
}
```

 ${\tt FileRepeated}$

FileRepeated: File upload server module for repeated measure analysis.

Description

File upload server module for repeated measure analysis.

FileRepeated

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.

```
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) {</pre>
  data <- callModule(FileRepeated, "datafile")</pre>
  output$data <- renderDT({</pre>
    data()$data
  })
  output$label <- renderDT({</pre>
    data()$label
  })
}
```

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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.

```
library(shiny)
library(DT)
library(data.table)
library(readxl)
library(jstable)
ui <- fluidPage(</pre>
  sidebarLayout(
    sidebarPanel(
      FileRepeatedInput("datafile")
    ),
    mainPanel(
      tabsetPanel(
        type = "pills",
        tabPanel("Data", DTOutput("data")),
        tabPanel("Label", DTOutput("data_label", width = "100%"))
 )
server <- function(input, output, session) {</pre>
  data <- callModule(FileRepeated, "datafile")</pre>
```

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

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

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.

```
library(shiny)
library(DT)
library(data.table)
library(readxl)
library(jstable)
ui <- fluidPage(
    sidebarLayout(
        sidebarPanel(
        FileSurveyInput("datafile")
        ),
        mainPanel(</pre>
```

FileSurveyInput 19

```
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
    })
}</pre>
```

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.

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Examples

```
library(shiny)
library(DT)
library(data.table)
library(readxl)
library(jstable)
ui <- fluidPage(</pre>
  sidebarLayout(
    sidebarPanel(
      FileSurveyInput("datafile")
    ),
    mainPanel(
      tabsetPanel(
        type = "pills",
        tabPanel("Data", DTOutput("data")),
        tabPanel("Label", DTOutput("data_label", width = "100%"))
   )
 )
)
server <- function(input, output, session) {</pre>
  data <- callModule(FileSurvey, "datafile")</pre>
  output$data <- renderDT({</pre>
    data()$data
  })
  output$label <- renderDT({</pre>
    data()$label
  })
}
```

forestcoxServer

forestcoxServer:shiny module server for forestcox

Description

Shiny module server for forestcox

Usage

```
forestcoxServer(
   id,
   data,
   data_label,
   data_varStruct = NULL,
   nfactor.limit = 10,
   design.survey = NULL,
```

forestcoxServer 21

```
cluster_id = NULL
)
```

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

design.survey reactive survey data. default: NULL

cluster_id cluster option variable for marginal cox model

Details

Shiny module server for forestcox

Value

Shiny module server for forestcox

See Also

data.table-package, setDT, setattrTableSubgroupMultiCox forest_theme, forest dml read_pptx, add_slide, ph_with, ph_location

```
library(shiny)
library(DT)
mtcars$vs <- factor(mtcars$vs)</pre>
mtcars$am <- factor(mtcars$am)</pre>
mtcars$kk <- factor(as.integer(mtcars$disp >= 150))
mtcars$kk1 <- factor(as.integer(mtcars$disp >= 200))
library(shiny)
library(DT)
mtcars$vs <- factor(mtcars$vs)</pre>
mtcars$am <- factor(mtcars$am)</pre>
mtcars$kk <- factor(as.integer(mtcars$disp >= 150))
mtcars$kk1 <- factor(as.integer(mtcars$disp >= 200))
out <- mtcars
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      forestcoxUI("Forest")
    ),
    mainPanel(
      tabsetPanel(
```

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```
type = "pills",
        tabPanel(
          title = "Data",
          DTOutput("tablesub"),
        ),
        tabPanel(
           title = "figure",
          plotOutput("forestplot", width = "100%"),
          ggplotdownUI("Forest")
      )
    )
server <- function(input, output, session) {</pre>
  data <- reactive(out)</pre>
  label <- reactive(jstable::mk.lev(out))</pre>
  outtable <- forestcoxServer("Forest", data = data, data_label = label)</pre>
  output$tablesub <- renderDT({</pre>
    outtable()[[1]]
  })
  \verb"output$forestplot <- renderPlot({\{}
    outtable()[[2]]
  })
}
```

forestcoxUI

forestcoxUI:shiny module UI for forestcox

Description

Shiny module UI for forestcox

Usage

```
forestcoxUI(id, label = "forestplot")
```

Arguments

id id

label label, Default: 'forestplot'

Details

Shinymodule UI for forestcox

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Value

Shinymodule UI

```
library(shiny)
library(DT)
mtcars$vs <- factor(mtcars$vs)</pre>
mtcars$am <- factor(mtcars$am)</pre>
mtcars$kk <- factor(as.integer(mtcars$disp >= 150))
mtcars$kk1 <- factor(as.integer(mtcars$disp >= 200))
library(shiny)
library(DT)
mtcars$vs <- factor(mtcars$vs)</pre>
mtcars$am <- factor(mtcars$am)</pre>
mtcars$kk <- factor(as.integer(mtcars$disp >= 150))
mtcars$kk1 <- factor(as.integer(mtcars$disp >= 200))
out <- mtcars
ui <- fluidPage(</pre>
  sidebarLayout(
    sidebarPanel(
      forestcoxUI("Forest")
    ),
    mainPanel(
      tabsetPanel(
        type = "pills",
        tabPanel(
          title = "Data",
          DTOutput("tablesub")
        ),
        tabPanel(
           title = "figure",
          plotOutput("forestplot", width = "100%"),
          ggplotdownUI("Forest")
        )
     )
   )
 )
)
server <- function(input, output, session) {</pre>
  data <- reactive(out)</pre>
  label <- reactive(jstable::mk.lev(out))</pre>
  outtable <- forestcoxServer("Forest", data = data, data_label = label)</pre>
  output$tablesub <- renderDT({</pre>
    outtable()[[1]]
  })
  output$forestplot <- renderPlot({</pre>
    outtable()[[2]]
```

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```
})
```

forestglmServer

forestglmServer:shiny module server for forestglm

Description

Shiny module server for forestglm

Usage

```
forestglmServer(
   id,
   data,
   data_label,
   family,
   data_varStruct = NULL,
   nfactor.limit = 10,
   design.survey = NULL,
   repeated_id = NULL
)
```

Arguments

```
id id Reactive data
data_label Reactive data label
family family, "gaussian" or "binomial" or 'poisson' or 'quasipoisson'
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
repeated_id data when repeated id. default: F
```

Details

Shiny module server for forestglm

Value

Shiny module server for forestglm

See Also

TableSubgroupMultiGLM data.table-package,setDT, setattr cor, coef surveysummary, svytable forest_theme, forest dml read_pptx, add_slide, ph_with, ph_location

forestglmUI 25

Examples

```
library(shiny)
library(DT)
mtcars$vs <- factor(mtcars$vs)</pre>
mtcars$am <- factor(mtcars$am)</pre>
mtcars$kk <- factor(as.integer(mtcars$disp >= 150))
mtcars$kk1 <- factor(as.integer(mtcars$disp >= 200))
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      forestglmUI("Forest")
    ),
    mainPanel(
      tabsetPanel(
        type = "pills",
        tabPanel(
          title = "Data",
          DTOutput("tablesub"),
        ),
        tabPanel(
           title = "figure",
           plotOutput("forestplot", width = "100%"),
          ggplotdownUI("Forest")
        )
      )
   )
 )
out <- mtcars
server <- function(input, output, session) {</pre>
  data <- reactive(out)</pre>
  label <- reactive(jstable::mk.lev(out))</pre>
 outtable <- forestglmServer("Forest", data = data, data_label = label, family = "binomial")</pre>
  output$tablesub <- renderDT({</pre>
    outtable()[[1]]
  output$forestplot <- renderPlot({</pre>
    outtable()[[2]]
  })
}
```

forestglmUI

forestglmUI:Shiny module UI for forestglm

Description

Shiny module UI for forestcox

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Usage

```
forestglmUI(id, label = "forestplot")
```

Arguments

 $id \hspace{30mm} id \hspace{30mm}$

label label, Default: 'forestplot'

Details

Shinymodule UI for forestglm

Value

Shinymodule UI

```
library(shiny)
library(DT)
mtcars$vs <- factor(mtcars$vs)</pre>
mtcars$am <- factor(mtcars$am)</pre>
mtcars$kk <- factor(as.integer(mtcars$disp >= 150))
mtcars$kk1 <- factor(as.integer(mtcars$disp >= 200))
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      forestglmUI("Forest")
    ),
    mainPanel(
      tabsetPanel(
        type = "pills",
        tabPanel(
          title = "Data",
          DTOutput("tablesub"),
        ),
        tabPanel(
           title = "figure",
          plotOutput("forestplot", width = "100%"),
          ggplotdownUI("Forest")
      )
out <- mtcars
server <- function(input, output, session) {</pre>
  data <- reactive(out)</pre>
```

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```
label <- reactive(jstable::mk.lev(out))
outtable <- forestglmServer("Forest", data = data, data_label = label, family = "binomial")
output$tablesub <- renderDT({
   outtable()[[1]]
})
output$forestplot <- renderPlot({
   outtable()[[2]]
})
}</pre>
```

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

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Value

Shiny modulde 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) {</pre>
  data <- reactive(mtcars)</pre>
  data.label <- reactive(jstable::mk.lev(mtcars))</pre>
  id.gee <- reactive("mpg")</pre>
  out_linear <- callModule(GEEModuleLinear, "linear",</pre>
    data = data, data_label = data.label,
    data_varStruct = NULL, id.gee = id.gee
  output$lineartable <- renderDT({</pre>
    hide <- which(colnames(out_linear()$table) == "sig")</pre>
    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.

GEEModuleLogistic 29

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).

```
library(shiny)
library(DT)
library(data.table)
library(jstable)
ui <- fluidPage(
    sidebarLayout(
        sidebarPanel(
            GEEModuleUI("logistic")
        ),
        mainPanel(
            DTOutput("logistictable")
        )
    )
)</pre>
```

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```
server <- function(input, output, session) {</pre>
 data <- reactive(mtcars)</pre>
 data.label <- reactive(jstable::mk.lev(mtcars))</pre>
 id.gee <- reactive("mpg")</pre>
 out_logistic <- callModule(GEEModuleLogistic, "logistic",</pre>
    data = data, data_label = data.label,
    data_varStruct = NULL, id.gee = id.gee
 )
 output$logistictable <- renderDT({</pre>
   hide <- which(colnames(out_logistic()$table) == "sig")</pre>
    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 modulde UI for generalized estimating equation(GEE).

Description

Shiny modulde UI for generalized estimating equation(GEE).

Usage

GEEModuleUI(id)

Arguments

id

id

Details

Shiny modulde UI for generalized estimating equation(GEE).

Value

Shiny modulde UI for generalized estimating equation(GEE).

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Examples

```
library(shiny)
library(DT)
library(data.table)
library(jstable)
ui <- fluidPage(</pre>
  sidebarLayout(
    sidebarPanel(
      GEEModuleUI("linear")
    ),
    mainPanel(
      DTOutput("lineartable")
    )
 )
)
server <- function(input, output, session) {</pre>
  data <- reactive(mtcars)</pre>
  data.label <- reactive(jstable::mk.lev(mtcars))</pre>
  id.gee <- reactive("mpg")</pre>
  out_linear <- callModule(GEEModuleLinear, "linear",</pre>
    data = data, data_label = data.label,
    data_varStruct = NULL, id.gee = id.gee
  output$lineartable <- renderDT({</pre>
    hide <- which(colnames(out_linear()$table) == "sig")</pre>
    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(
```

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```
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.

```
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) {</pre>
```

ggpairsModule2 33

```
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())
})
}</pre>
```

ggpairsModule2

ggpairsModule2: shiny module server for basic/scatter plot for reactive data.

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.

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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) {</pre>
  data <- reactive(mtcars)</pre>
  data.label <- reactive(jstable::mk.lev(mtcars))</pre>
  out_ggpairs <- callModule(ggpairsModule2, "ggpairs",</pre>
    data = data, data_label = data.label,
    data_varStruct = NULL
  output$kaplan_plot <- renderPlot({</pre>
    print(out_ggpairs())
}
```

ggpairsModuleUI1

ggpairsModuleUI1: Variable selection module UI for ggpairs

Description

Variable selection module UI for ggpairs

Usage

```
ggpairsModuleUI1(id)
```

ggpairsModuleUI1 35

Arguments

id id

Details

Variable selection module UI for ggpairs

Value

Variable selection module UI for ggpairs

```
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) {</pre>
  data <- reactive(mtcars)</pre>
  data.label <- reactive(jstable::mk.lev(mtcars))</pre>
  out_ggpairs <- callModule(ggpairsModule2, "ggpairs",</pre>
    data = data, data_label = data.label,
    data_varStruct = NULL
  output$kaplan_plot <- renderPlot({</pre>
    print(out_ggpairs())
 })
}
```

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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

```
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) {</pre>
  data <- reactive(mtcars)</pre>
  data.label <- reactive(jstable::mk.lev(mtcars))</pre>
  out_ggpairs <- callModule(ggpairsModule2, "ggpairs",</pre>
    data = data, data_label = data.label,
```

ggplotdownUI 37

```
data_varStruct = NULL
)

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

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

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

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```
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())
  })
}</pre>
```

histogramServer

histogramServer: shiny module server for histogram.

Description

Shiny module server for histogram.

Usage

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

Arguments

```
    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 histogram.

Value

Shiny module server for histogram.

histogramUI 39

Examples

```
library(shiny)
library(ggplot2)
library(ggpubr)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      histogramUI("histogram")
    ),
    mainPanel(
      plotOutput("histogram"),
      ggplotdownUI("histogram")
 )
)
server <- function(input, output, session) {</pre>
  data <- reactive(mtcars)</pre>
  data.label <- reactive(jstable::mk.lev(mtcars))</pre>
  out_histogram <- histogramServer("histogram",</pre>
    data = data, data_label = data.label,
    data_varStruct = NULL
  output$histogram <- renderPlot({</pre>
    print(out_histogram())
  })
}
```

histogramUI

histogramUI: shiny module UI for histogram

Description

Shiny module UI for histogram

Usage

```
histogramUI(id, label = "histogram")
```

Arguments

id id label

Details

Shiny module UI for histogram

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Value

Shiny module UI for histogram

Examples

```
library(shiny)
library(ggplot2)
library(ggpubr)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      histogramUI("histogram")
    ),
    mainPanel(
      plotOutput("histogram"),
      ggplotdownUI("histogram")
 )
)
server <- function(input, output, session) {</pre>
  data <- reactive(mtcars)</pre>
  data.label <- reactive(jstable::mk.lev(mtcars))</pre>
  out_histogram <- histogramServer("histogram",</pre>
    data = data, data_label = data.label,
    data_varStruct = NULL
  output$histogram <- renderPlot({</pre>
    print(out_histogram())
  })
}
```

jsBasicAddin

jsBasicAddin: Rstudio addin of jsBasicGadget

Description

Rstudio addin of jsBasicGadget

Usage

jsBasicAddin()

Details

Rstudio addin of jsBasicGadget

jsBasicExtAddin 41

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
```

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

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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

```
data data

nfactor.limit 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

jsPropensityExtAddin 43

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
```

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

jsPropensityGadget

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.datacox2.display,svycox.display survfit,coxph,Surv jskm,svyjskm ggsave svykm

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

jsRepeatedAddin 45

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)
```

jsRepeatedGadget

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

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

jsSurveyAddin 47

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)
```

48 jsSurveyGadget

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

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

kaplanModule 49

| kaplanModule | kaplanModule: | shiny module | server for kaplar | n-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
                 Reactive data
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 of x axis, Default: NULL
range.x
range.y
                 range of y axis, Default: NULL
```

Details

Shiny module server for kaplan-meier plot.

50 kaplanUI

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) {</pre>
  data <- reactive(mtcars)</pre>
  data.label <- reactive(jstable::mk.lev(mtcars))</pre>
  out_kaplan <- callModule(kaplanModule, "kaplan",</pre>
    data = data, data_label = data.label,
    data_varStruct = NULL
  )
  output$kaplan_plot <- renderPlot({</pre>
    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

lineServer 51

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) {</pre>
  data <- reactive(mtcars)</pre>
  data.label <- reactive(jstable::mk.lev(mtcars))</pre>
  out_kaplan <- callModule(kaplanModule, "kaplan",</pre>
    data = data, data_label = data.label,
    data_varStruct = NULL
  output$kaplan_plot <- renderPlot({</pre>
    print(out_kaplan())
  })
}
```

lineServer

lineServer: shiny module server for lineplot.

Description

Shiny module server for lineplot.

Usage

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

52 lineServer

Arguments

```
    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 lineplot.

Value

Shiny module server for lineplot.

```
library(shiny)
library(ggplot2)
library(ggpubr)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      lineUI("line")
    ),
    mainPanel(
      optionUI("line"),
      plotOutput("line_plot"),
      ggplotdownUI("line")
 )
server <- function(input, output, session) {</pre>
  data <- reactive(mtcars)</pre>
  data.label <- reactive(jstable::mk.lev(mtcars))</pre>
  out_line <- lineServer("line",</pre>
    data = data, data_label = data.label,
    data_varStruct = NULL
  output$line_plot <- renderPlot({</pre>
    print(out_line())
  })
}
```

lineUI 53

lineUI

lineUI: shiny module UI for lineplot

Description

Shiny module UI for lineplot

Usage

```
lineUI(id, label = "lineplot")
```

Arguments

id id label

Details

Shiny module UI for lineplot

Value

Shiny module UI for lineplot

```
library(shiny)
library(ggplot2)
library(ggpubr)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      lineUI("line")
    ),
    mainPanel(
      optionUI("line"),
      plotOutput("line_plot"),
      ggplotdownUI("line")
    )
  )
)
server <- function(input, output, session) {</pre>
  data <- reactive(mtcars)</pre>
  data.label <- reactive(jstable::mk.lev(mtcars))</pre>
  out_line <- lineServer("line",</pre>
    data = data, data_label = data.label,
    data_varStruct = NULL
```

54 logistic.display2

```
output$line_plot <- renderPlot({
   print(out_line())
})
}</pre>
```

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

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

logisticModule2 55

| logisticModule2 | logisticModule2: Shiny modulde server for logistic regression for reactive data. |
|-----------------|--|
|-----------------|--|

Description

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

Details

Shiny modulde server for logistic regression.

Value

Shiny modulde server for logistic regression.

56 mk.lev2

Examples

```
library(shiny)
library(DT)
library(data.table)
library(jstable)
ui <- fluidPage(</pre>
  sidebarLayout(
    sidebarPanel(
      regressModuleUI("logistic")
    ),
    mainPanel(
      DTOutput("logistictable")
 )
)
server <- function(input, output, session) {</pre>
  data <- reactive(mtcars)</pre>
  data.label <- reactive(jstable::mk.lev(mtcars))</pre>
  out_logistic <- callModule(logisticModule2, "logistic",</pre>
    data = data, data_label = data.label,
    data_varStruct = NULL
  output$logistictable <- renderDT({</pre>
    datatable(out_logistic()$table, rownames = T, caption = out_logistic()$caption)
  })
}
```

mk.lev2

mk.lev2: level generating function

Description

make level for sav files with labels pre defined from SPSS

Usage

```
mk.lev2(out.old, out.label)
```

Arguments

```
out.old raw data
out.label pre-defined label data
```

Value

out.label data labels updated

mklist 57

mklist

mklist: function to make variable list lncluding specific variables.

Description

Function to make variable list lncluding 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))</pre>
```

mksetdiff

mksetdiff: function to make variable list excluding specific variables.

Description

Function to make variable list excluding specific variables.

Usage

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

Arguments

varlist Original variable list vars variable to exclude.

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Details

Internal function

Value

variable list excluding specific variables.

Examples

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

optionUI

optionUI: Option UI with icon

Description

Option UI with icon

Usage

```
optionUI(id)
```

Arguments

id

Details

Option UI with icon

Value

Option UI with icon

See Also

dropdownButton,tooltipOptions

id

```
library(shiny)
library(DT)
library(data.table)
library(jstable)
library(ggplot2)
ui <- fluidPage(
    sidebarLayout(
    sidebarPanel(</pre>
```

reclassificationJS 59

```
kaplanUI("kaplan")
    ),
    mainPanel(
      optionUI("kaplan"),
      plotOutput("kaplan_plot"),
      ggplotdownUI("kaplan")
 )
)
server <- function(input, output, session) {</pre>
  data <- reactive(mtcars)</pre>
  data.label <- reactive(jstable::mk.lev(mtcars))</pre>
  out_kaplan <- callModule(kaplanModule, "kaplan",</pre>
    data = data, data_label = data.label,
    data_varStruct = NULL
  )
  output$kaplan_plot <- renderPlot({</pre>
    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.

60 regress.display2

```
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)
)</pre>
```

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
)
```

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Arguments

```
regress.model Im object
alpha alpha, Default: 0.05
crude crude, Default: FALSE
crude.p.value crude.p.value, Default: FALSE
decimal decimal, Default: 2
```

simplified, Default: FALSE

Details

regress.display function for reactive data

Value

regress table

simplified

Examples

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

regressModule2

regressModule2: Shiny modulde server for linear regression for reactive data.

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
)
```

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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
                  Change to default.unires = F if number of independent variables > limit.unires,
limit.unires
                  Default: 20
```

Details

Shiny modulde server for linear regression.

Value

Shiny modulde server for linear regression.

```
library(shiny)
library(DT)
library(data.table)
library(jstable)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      regressModuleUI("linear")
    ),
    mainPanel(
      DTOutput("lineartable")
  )
)
server <- function(input, output, session) {</pre>
  data <- reactive(mtcars)</pre>
  data.label <- reactive(jstable::mk.lev(mtcars))</pre>
  out_linear <- callModule(regressModule2, "linear",</pre>
    data = data, data_label = data.label,
    data_varStruct = NULL
  )
  output$lineartable <- renderDT({</pre>
```

regressModuleUI 63

```
datatable(out_linear()$table, rownames = T, caption = out_linear()$caption)
})
}
```

regressModuleUI

regressModuleUI: shiny modulde UI for linear regression.

Description

Shiny modulde UI for linear regression.

Usage

```
regressModuleUI(id)
```

Arguments

id id

Details

Shiny modulde UI for linear regression.

Value

Shiny modulde UI for linear regression.

```
library(shiny)
library(DT)
library(data.table)
library(jstable)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      regressModuleUI("linear")
    ),
    mainPanel(
      DTOutput("lineartable")
  )
)
server <- function(input, output, session) {</pre>
  data <- reactive(mtcars)</pre>
  data.label <- reactive(jstable::mk.lev(mtcars))</pre>
  out_linear <- callModule(regressModule2, "linear",</pre>
    data = data, data_label = data.label,
```

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```
data_varStruct = NULL
)

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

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
                 Reactive data
data
data_label
                 Reactuve 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

rocModule 65

Value

shiny module server for roc analysis

See Also

quantile setkey ggroc geeglm svyglm theme_modern

```
library(shiny)
library(DT)
library(data.table)
library(jstable)
library(ggplot2)
library(pROC)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      rocUI("roc")
    ),
    mainPanel(
      plotOutput("plot_roc"),
      tableOutput("cut_roc"),
      ggplotdownUI("roc"),
      DTOutput("table_roc")
   )
 )
)
server <- function(input, output, session) {</pre>
  data <- reactive(mtcars)</pre>
  data.label <- reactive(jstable::mk.lev(data1))</pre>
  out_roc <- callModule(rocModule, "roc",</pre>
    data = data, data_label = data.label,
    data_varStruct = NULL
  output$plot_roc <- renderPlot({</pre>
    print(out_roc()$plot)
  })
  output$cut_roc <- renderTable({</pre>
    print(out_roc()$cut)
  })
  output$table_roc <- renderDT({</pre>
    datatable(out_roc()$tb,
      rownames = F, editable = F, extensions = "Buttons",
      caption = "ROC results",
      options = c(jstable::opt.tbreg("roctable"), list(scrollX = TRUE))
    )
```

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```
})
}
```

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
                 Reactuve data label
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

rocModule2 67

See Also

quantile setkey ggroc geeglm svyglm theme_modern

```
library(shiny)
library(DT)
library(data.table)
library(jstable)
library(ggplot2)
library(pROC)
ui <- fluidPage(</pre>
  sidebarLayout(
    sidebarPanel(
      rocUI("roc")
    ),
    mainPanel(
      plotOutput("plot_roc"),
      tableOutput("cut_roc"),
      ggplotdownUI("roc"),
      DTOutput("table_roc")
 )
)
server <- function(input, output, session) {</pre>
  data <- reactive(mtcars)</pre>
  data.label <- reactive(jstable::mk.lev(data1))</pre>
  out_roc <- callModule(rocModule2, "roc",</pre>
    data = data, data_label = data.label,
    data_varStruct = NULL
  output$plot_roc <- renderPlot({</pre>
    print(out_roc()$plot)
  })
  output$cut_roc <- renderTable({</pre>
    print(out_roc()$cut)
  })
  output$table_roc <- renderDT({</pre>
    datatable(out_roc()$tb,
      rownames = F, editable = F, extensions = "Buttons",
      caption = "ROC results",
      options = c(jstable::opt.tbreg("roctable"), list(scrollX = TRUE))
 })
}
```

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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

```
library(shiny)
library(DT)
library(data.table)
library(jstable)
library(ggplot2)
library(pROC)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      rocUI("roc")
    ),
    mainPanel(
      plotOutput("plot_roc"),
      tableOutput("cut_roc"),
      ggplotdownUI("roc"),
      DTOutput("table_roc")
 )
)
server <- function(input, output, session) {</pre>
  data <- reactive(mtcars)</pre>
  data.label <- reactive(jstable::mk.lev(data1))</pre>
  out_roc <- callModule(rocModule, "roc",</pre>
```

ROC_table 69

```
data = data, data_label = data.label,
  data_varStruct = NULL
)

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

output$cut_roc <- renderTable({
  print(out_roc()$cut)
})

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))
  )
})
}</pre>
```

ROC_table

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

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
```

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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)</pre>
```

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.

```
library(shiny)
library(ggplot2)
library(ggpubr)
ui <- fluidPage(
    sidebarLayout(
        sidebarPanel(
        scatterUI("scatter")</pre>
```

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```
),
    mainPanel(
      plotOutput("scatter_plot"),
      ggplotdownUI("scatter")
 )
)
server <- function(input, output, session) {</pre>
  data <- reactive(mtcars)</pre>
  data.label <- reactive(jstable::mk.lev(mtcars))</pre>
  out_scatter <- scatterServer("scatter",</pre>
    data = data, data_label = data.label,
    data_varStruct = NULL
  output$scatter_plot <- renderPlot({</pre>
    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

Details

Shiny module UI for scatterplot

Value

Shiny module UI for scatterplot

72 survIDINRI_helper

Examples

```
library(shiny)
library(ggplot2)
library(ggpubr)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      scatterUI("scatter")
    ),
    mainPanel(
      plotOutput("scatter_plot"),
      ggplotdownUI("scatter")
 )
)
server <- function(input, output, session) {</pre>
  data <- reactive(mtcars)</pre>
  data.label <- reactive(jstable::mk.lev(mtcars))</pre>
  out_scatter <- scatterServer("scatter",</pre>
    data = data, data_label = data.label,
    data_varStruct = NULL
  output$scatter_plot <- renderPlot({</pre>
    print(out_scatter())
  })
}
```

survIDINRI_helper

survIDINRI_helper: Helper function for IDI.INF.OUT in survIDINRI packages

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
)
```

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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,
```

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```
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.

```
library(shiny)
library(DT)
library(data.table)
library(jstable)
ui <- fluidPage(</pre>
  sidebarLayout(
    sidebarPanel(
      tb1moduleUI("tb1")
    ),
    mainPanel(
      DTOutput("table1")
  )
server <- function(input, output, session) {</pre>
  data <- mtcars
  data.label <- jstable::mk.lev(mtcars)</pre>
  out_tb1 <- callModule(tb1module, "tb1",</pre>
```

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```
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)
})
}</pre>
```

tb1module2

tb1module2: 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
                 maximum factor levels to include, Default: 10
nfactor.limit
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.
```

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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) {</pre>
  data <- reactive(mtcars)</pre>
  data.label <- reactive(jstable::mk.lev(mtcars))</pre>
  out_tb1 <- callModule(tb1module2, "tb1",</pre>
    data = data, data_label = data.label,
    data_varStruct = NULL
  )
  output$table1 <- renderDT({</pre>
    tb <- out_tb1()$table</pre>
    cap <- out_tb1()$caption</pre>
    out.tb1 <- datatable(tb, rownames = T, extension = "Buttons", caption = cap)</pre>
    return(out.tb1)
  })
}
```

tb1moduleUI

tb1moduleUI: table 1 module UI.

Description

Table 1 shiny module UI for descriptive statistics.

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Usage

```
tb1moduleUI(id)
```

Arguments

id

Details

Table 1 shiny module UI for descriptive statistics.

id

Value

Table 1 module UI.

```
library(shiny)
library(DT)
library(data.table)
library(jstable)
ui <- fluidPage(
  sidebarLayout(
    sidebarPanel(
      tb1moduleUI("tb1")
    ),
    mainPanel(
      DTOutput("table1")
    )
  )
)
server <- function(input, output, session) {</pre>
  data <- reactive(mtcars)</pre>
  data.label <- reactive(jstable::mk.lev(mtcars))</pre>
  out_tb1 <- callModule(tb1module2, "tb1",</pre>
    data = data, data_label = data.label,
    data_varStruct = NULL
  output$table1 <- renderDT({</pre>
    tb <- out_tb1()$table</pre>
    cap <- out_tb1()$caption</pre>
    out.tb1 <- datatable(tb, rownames = T, extension = "Buttons", caption = cap)</pre>
    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 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
```

```
library(shiny)
library(DT)
library(data.table)
library(readxl)
library(jstable)
library(haven)
library(survey)
ui <- fluidPage(</pre>
  sidebarLayout(
    sidebarPanel(
      FilePsInput("datafile"),
      tb1simpleUI("tb1")
    ),
    mainPanel(
      DTOutput("table1_original"),
      DTOutput("table1_ps"),
      DTOutput("table1_iptw")
 )
server <- function(input, output, session) {</pre>
  mat.info <- callModule(FilePs, "datafile")</pre>
  data <- reactive(mat.info()$data)</pre>
  matdata <- reactive(mat.info()$matdata)</pre>
  data.label <- reactive(mat.info()$data.label)</pre>
  vlist <- eventReactive(mat.info(), {</pre>
    mklist <- function(varlist, vars) {</pre>
      lapply(
        varlist,
         function(x) {
           inter <- intersect(x, vars)</pre>
           if (length(inter) == 1) {
             inter <- c(inter, "")</pre>
           }
          return(inter)
        }
      )
    }
   factor_vars <- names(data())[data()[, lapply(.SD, class) %in% c("factor", "character")]]</pre>
    factor_list <- mklist(data_varStruct(), factor_vars)</pre>
    conti_vars <- setdiff(names(data()), c(factor_vars, "pscore", "iptw"))</pre>
    conti_list <- mklist(data_varStruct(), conti_vars)</pre>
    nclass_factor <- unlist(data()[, lapply(.SD, function(x) {</pre>
      length(unique(x)[!is.na(unique(x))])
    }),
    .SDcols = factor_vars
    ])
```

```
class01_factor <- unlist(data()[, lapply(.SD, function(x) {</pre>
    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]</pre>
  factor_01_list <- mklist(data_varStruct(), factor_01vars)</pre>
  group_vars <- factor_vars[nclass_factor >= 2 & nclass_factor <= 10 &</pre>
    nclass_factor < nrow(data())]</pre>
  group_list <- mklist(data_varStruct(), group_vars)</pre>
  except_vars <- factor_vars[nclass_factor > 10 | nclass_factor == 1 |
    nclass_factor == nrow(data())]
  ## non-normal: shapiro test
  f <- function(x) {</pre>
    if (diff(range(x, na.rm = T)) == 0) {
      return(F)
    } else {
      return(shapiro.test(x)$p.value <= 0.05)</pre>
  }
  non_normal <- ifelse(nrow(data()) <= 3 | nrow(data()) >= 5000,
    rep(F, length(conti_vars)),
    sapply(conti_vars, function(x) \{
      f(data()[[x]])
    })
 )
  return(list(
    factor_vars = factor_vars, factor_list = factor_list, conti_vars = conti_vars,
    conti_list = conti_list, factor_01vars = factor_01vars,
    factor_01_list = factor_01_list, group_list = group_list,
    except_vars = except_vars, non_normal = non_normal
 ))
})
out.tb1 <- callModule(tb1simple2, "tb1",</pre>
  data = data, matdata = matdata, data_label = data.label,
  data_varStruct = NULL, vlist = vlist,
  group_var = reactive(mat.info()$group_var)
output$table1_original <- renderDT({</pre>
  tb <- out.tb1()$original$table</pre>
  cap <- out.tb1()$original$caption</pre>
 out <- datatable(tb, rownames = T, extension = "Buttons", caption = cap)</pre>
  return(out)
})
output$table1_ps <- renderDT({</pre>
```

```
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)
})
}</pre>
```

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

```
library(shiny)
library(DT)
library(data.table)
library(readxl)
library(jstable)
library(haven)
library(survey)
ui <- fluidPage(</pre>
  sidebarLayout(
    sidebarPanel(
      FilePsInput("datafile"),
      tb1simpleUI("tb1")
    ),
    mainPanel(
      DTOutput("table1_original"),
      DTOutput("table1_ps"),
      DTOutput("table1_iptw")
)
server <- function(input, output, session) {</pre>
  mat.info <- callModule(FilePs, "datafile")</pre>
  data <- reactive(mat.info()$data)</pre>
  matdata <- reactive(mat.info()$matdata)</pre>
  data.label <- reactive(mat.info()$data.label)</pre>
  vlist <- eventReactive(mat.info(), {</pre>
    mklist <- function(varlist, vars) {</pre>
      lapply(
        varlist,
        function(x) {
          inter <- intersect(x, vars)</pre>
           if (length(inter) == 1) {
             inter <- c(inter, "")</pre>
           return(inter)
```

```
}
    )
  }
 factor_vars <- names(data())[data()[, lapply(.SD, class) %in% c("factor", "character")]]</pre>
  factor_list <- mklist(data_varStruct(), factor_vars)</pre>
  conti_vars <- setdiff(names(data()), c(factor_vars, "pscore", "iptw"))</pre>
  conti_list <- mklist(data_varStruct(), conti_vars)</pre>
  nclass_factor <- unlist(data()[, lapply(.SD, function(x) {</pre>
    length(unique(x)[!is.na(unique(x))])
  }),
  .SDcols = factor_vars
  ])
  class01_factor <- unlist(data()[, lapply(.SD, function(x) {</pre>
    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]</pre>
  factor_01_list <- mklist(data_varStruct(), factor_01vars)</pre>
  \label{eq:group_vars} $$ \ensuremath{\mathsf{group\_vars}}_{\ensuremath{\mathsf{cator\_vars}}} $$ \ensuremath{\mathsf{[nclass\_factor}} $$ \ge 2 \& nclass\_factor $$ \le 10 \& $$ \ensuremath{\mathsf{cator\_vars}}_{\ensuremath{\mathsf{cator\_vars}}} $$
    nclass_factor < nrow(data())]</pre>
  group_list <- mklist(data_varStruct(), group_vars)</pre>
  except_vars <- factor_vars[nclass_factor > 10 | nclass_factor == 1 |
    nclass_factor == nrow(data())]
  ## non-normal: shapiro test
  f <- function(x) {</pre>
    if (diff(range(x, na.rm = T)) == 0) {
       return(F)
    } else {
       return(shapiro.test(x)$p.value <= 0.05)</pre>
    }
  }
  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",</pre>
  data = data, matdata = matdata, data_label = data.label,
```

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```
data_varStruct = NULL, vlist = vlist,
    group_var = reactive(mat.info()$group_var)
  output$table1_original <- renderDT({</pre>
    tb <- out.tb1()$original$table</pre>
    cap <- out.tb1()$original$caption</pre>
    out <- datatable(tb, rownames = T, extension = "Buttons", caption = cap)</pre>
    return(out)
  })
  output$table1_ps <- renderDT({
    tb <- out.tb1()$ps$table</pre>
    cap <- out.tb1()$ps$caption</pre>
    out <- datatable(tb, rownames = T, extension = "Buttons", caption = cap)</pre>
    return(out)
  })
  output$table1_iptw <- renderDT({</pre>
    tb <- out.tb1()$iptw$table</pre>
    cap <- out.tb1()$iptw$caption</pre>
    out <- datatable(tb, rownames = T, extension = "Buttons", caption = cap)</pre>
    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

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```
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) {</pre>
  mat.info <- callModule(FilePs, "datafile")</pre>
  data <- reactive(mat.info()$data)</pre>
  matdata <- reactive(mat.info()$matdata)</pre>
  data.label <- reactive(mat.info()$data.label)</pre>
  vlist <- eventReactive(mat.info(), {</pre>
    mklist <- function(varlist, vars) {</pre>
      lapply(
        varlist,
         function(x) {
           inter <- intersect(x, vars)</pre>
           if (length(inter) == 1) {
             inter <- c(inter, "")</pre>
           }
          return(inter)
        }
      )
    }
   factor_vars <- names(data())[data()[, lapply(.SD, class) %in% c("factor", "character")]]</pre>
    factor_list <- mklist(data_varStruct(), factor_vars)</pre>
    conti_vars <- setdiff(names(data()), c(factor_vars, "pscore", "iptw"))</pre>
    conti_list <- mklist(data_varStruct(), conti_vars)</pre>
    nclass_factor <- unlist(data()[, lapply(.SD, function(x) {</pre>
      length(unique(x)[!is.na(unique(x))])
    }),
    .SDcols = factor_vars
    ])
```

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```
class01_factor <- unlist(data()[, lapply(.SD, function(x) {</pre>
    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]</pre>
  factor_01_list <- mklist(data_varStruct(), factor_01vars)</pre>
  group_vars <- factor_vars[nclass_factor >= 2 & nclass_factor <= 10 &</pre>
    nclass_factor < nrow(data())]</pre>
  group_list <- mklist(data_varStruct(), group_vars)</pre>
  except_vars <- factor_vars[nclass_factor > 10 | nclass_factor == 1 |
    nclass_factor == nrow(data())]
  ## non-normal: shapiro test
  f <- function(x) {</pre>
    if (diff(range(x, na.rm = T)) == 0) {
      return(F)
    } else {
      return(shapiro.test(x)$p.value <= 0.05)</pre>
  }
  non_normal <- ifelse(nrow(data()) <= 3 | nrow(data()) >= 5000,
    rep(F, length(conti_vars)),
    sapply(conti_vars, function(x) \{
      f(data()[[x]])
    })
 )
  return(list(
    factor_vars = factor_vars, factor_list = factor_list,
    conti_vars = conti_vars, conti_list = conti_list, factor_01vars = factor_01vars,
    factor_01_list = factor_01_list, group_list = group_list,
    except_vars = except_vars, non_normal = non_normal
 ))
})
out.tb1 <- callModule(tb1simple2, "tb1",</pre>
  data = data, matdata = matdata, data_label = data.label,
  data_varStruct = NULL, vlist = vlist,
  group_var = reactive(mat.info()$group_var)
output$table1_original <- renderDT({</pre>
  tb <- out.tb1()$original$table</pre>
  cap <- out.tb1()$original$caption</pre>
 out <- datatable(tb, rownames = T, extension = "Buttons", caption = cap)</pre>
  return(out)
})
output$table1_ps <- renderDT({</pre>
```

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```
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)
})
</pre>
```

timeROChelper

 $time ROC helper: \ Helper \ function \ for \ time roc Module$

Description

Helper function for timerocModule

Usage

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

Arguments

```
var.event event
var.time time
vars.ind independent variable
t time
data data
design.survey survey data, Default: NULL
id.cluster cluster variable if marginal model, Default: NULL
```

Details

Helper function for timerocModule

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Value

timeROC and coxph object

See Also

coxph svycoxph predict timeROC

Examples

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

timerocModule

timerocModule: shiny module server for time-dependent roc analysis

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,
```

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```
NRIIDI = T
```

Arguments

input input output output session session data Reactive data data_label Reactuve 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 iid logical, get CI of AUC, Default: T NRIIDI 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
```

```
library(shiny)
library(DT)
library(data.table)
library(jstable)
library(ggplot2)
library(timeROC)
library(survIDINRI)
ui <- fluidPage(
    sidebarLayout(
        sidebarPanel(
            timerocUI("timeroc")
        ),
        mainPanel(</pre>
```

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```
plotOutput("plot_timeroc"),
      ggplotdownUI("timeroc"),
      DTOutput("table_timeroc")
   )
 )
)
server <- function(input, output, session) {</pre>
  data <- reactive(mtcars)</pre>
  data.label <- jstable::mk.lev(mtcars)</pre>
  out_timeroc <- callModule(timerocModule, "timeroc",</pre>
    data = data, data_label = data.label,
    data_varStruct = NULL
  output$plot_timeroc <- renderPlot({</pre>
    print(out_timeroc()$plot)
  })
  output$table_timeroc <- renderDT({</pre>
    datatable(out_timeroc()$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) {</pre>
  data <- reactive(mtcars)</pre>
  data.label <- jstable::mk.lev(mtcars)</pre>
  out_timeroc <- callModule(timerocModule2, "timeroc",</pre>
```

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```
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))
    )
})
})
})</pre>
```

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

```
library(shiny)
library(DT)
library(data.table)
library(jstable)
library(ggplot2)
library(timeROC)
library(survIDINRI)
ui <- fluidPage(</pre>
```

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```
sidebarLayout(
    sidebarPanel(
      timerocUI("timeroc")
    ),
    mainPanel(
      plotOutput("plot_timeroc"),
      ggplotdownUI("timeroc"),
      DTOutput("table_timeroc")
    )
 )
)
server <- function(input, output, session) {</pre>
  data <- reactive(mtcars)</pre>
  data.label <- jstable::mk.lev(mtcars)</pre>
  out_timeroc <- callModule(timerocModule, "timeroc",</pre>
    data = data, data_label = data.label,
    data\_varStruct = NULL
  )
  output$plot_timeroc <- renderPlot({</pre>
    print(out_timeroc()$plot)
  })
  output$table_timeroc <- renderDT({</pre>
    datatable(out_timeroc()$tb,
      rownames = F, editable = F, extensions = "Buttons",
      caption = "ROC results",
      options = c(jstable::opt.tbreg("roctable"), list(scrollX = TRUE))
    )
 })
}
```

timeROC_table

timeROC_table: extract AUC information from list of timeROChelper object.

Description

extract AUC information from list of timeROChelper object.

Usage

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

Arguments

```
ListModel list of timeROChelper object dec.auc digits for AUC, Default: 3 dec.p digits for p value, Default: 3
```

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Details

extract AUC information from list of timeROChelper object.

Value

table of AUC information

See Also

```
confint data.table
```

```
# library(survival)
# list.timeROC <- lapply(list("age", c("age", "sex")),
# function(x){
# timeROChelper("status", "time", x, t = 365, data = lung)
# })
# timeROC_table(list.timeROC)</pre>
```

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