

# Package ‘RcmdrPlugin.KMggplot2’

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**Type** Package

**Title** An Rcmdr Plug-In for Kaplan-Meier Plots and Other Plots by Using the ggplot2 Package

**Version** 0.2-0

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**Description** This package is an R Commander plug-in for Kaplan-Meier plots and other plots by using the ggplot2 package.

**License** GPL-2

**Collate** 'guiparts-aaa.R' 'guiparts-checkboxes.R' 'guiparts-radioboxes.R' 'guiparts-textfield.R' 'guiparts-textfields.R' 'guiparts-toolbox.R' 'guiparts-variableboxes.R' 'package.R' 'plot-aaa.R' 'plot-pie.R' 'util-gettextKmg2.R' 'util-ggsaveKmg2.R' 'data-aaa.R' 'plot-discretebar.R' 'plot-hist.R' 'plot-box.R' 'plot-dist.R' 'plot-scatter.R' 'plot-qq.R' 'plot-contour.R' 'plot-scattermat.R' 'plot-km.R' 'plot-factorise.R' 'plot-line.R' 'util-nonFactors.R' 'zzz.R' 'theme-simple.R' 'theme-natrisk.R' 'theme-natrisk21.R' 'theme-natriskbg.R' 'theme-wsj2.R'

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RcmdrPlugin.KMggplot2-package

*Rcmdr Plug-In for Kaplan-Meier Plot and Other Plots by Using the ggplot2 Package*

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### Description

This package is an R Commander plug-in for Kaplan-Meier plots and other plots by using the ggplot2 package in GUI interface.

### Author(s)

Author: Triad sou. and Kengo NAGASHIMA Maintainer: Triad sou. <triadsou@gmail.com>

### See Also

[Rcmdr](#), [ggplot2](#), [survfit](#), [RColorBrewer](#)

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back, gparts\_base-method

*The back Method for gparts\_base Class*

---

### Description

back method places GUI grids for R-Commander windows.

### Arguments

perline            Integer; controls the number of per-line to GUI grids.

### See Also

Other guiparts: [checkboxes-class](#), [front,checkboxes-method](#), [front,radioboxes-method](#), [front,textfield-method](#), [front,textfields-method](#), [front,toolbox-method](#), [front,variableboxes-method](#), [gparts\\_base-class](#), [radioboxes-class](#), [textfield-class](#), [textfields-class](#), [toolbox-class](#), [variableboxes-class](#)

---

`box-class`*Box Plot Subclass*

---

**Description**

box class is a subclass for box plots.

**Details**

This class is a subclass which show dialog boxes of box plots for graphics editing.

**Fields**

`top`: tkwin class object; parent of widget window.

`alternateFrame`: tkwin class object; a special frame for some GUI parts.

`vbbox1`: variableboxes class object; the frame to select variables.

`vbbox2`: variableboxes class object; the frame to select facet variables.

`lbbox1`: textfields class object; the frame to set axis labels and the main title.

`rbbox1`: radioboxes class object; the frame to set the plot type.

`cbbox1`: checkboxes class object; the frame to set options.

`tbbox1`: toolbox class object; the frame to set the font, the colour set, other option, and the theme.

**Contains**

NULL

**Methods**

`plotWindow()`: Create the window that make plots.

`savePlot(plot)`: Save the plot.

`registRmList(object)`: Register deletable temporary objects.

`removeRmList()`: Remove registered temporary objects.

`setFront()`: Set front parts of frames.

`setBack()`: Set back parts of frames.

`getWindowTitle()`: Get the title of the window.

`getHelp()`: Get the title of the help document.

`getParms()`: Get graphics settings parameters.

`checkTheme(index)`: Check themes.

`checkVariable(var)`: Check a variable length.

`checkError(parms)`: Check errors.

`setDataframe(parms)`: Set data frames.

[getGgplot\(parms\)](#): Get ggplot.  
[getGeom\(parms\)](#): Get geom.  
[getScale\(parms\)](#): Get scale.  
[getCoord\(parms\)](#): Get coord.  
[getFacet\(parms\)](#): Get facet.  
[getXlab\(parms\)](#): Get xlab.  
[getYlab\(parms\)](#): Get ylab.  
[getZlab\(parms\)](#): Get zlab.  
[getMain\(parms\)](#): Get the main label.  
[getTheme\(parms\)](#): Get theme.  
[getOpts\(parms\)](#): Get other opts.  
[getPlot\(parms\)](#): Get the plot object.  
[getMessage\(\)](#): Get the plot error message.

### See Also

Other plot: [checkError, plot\\_base-method](#), [checkTheme, plot\\_base-method](#), [checkVariable, plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord, plot\\_base-method](#), [getFacet, plot\\_base-method](#), [getGeom, plot\\_base-method](#), [getGgplot, plot\\_base-method](#), [getHelp, plot\\_base-method](#), [getMain, plot\\_base-method](#), [getMessage, plot\\_base-method](#), [getOpts, plot\\_base-method](#), [getParms, plot\\_base-method](#), [getPlot, plot\\_base-method](#), [getScale, plot\\_base-method](#), [getTheme, plot\\_base-method](#), [getWindowTitle, plot\\_base-method](#), [getXlab, plot\\_base-method](#), [getYlab, plot\\_base-method](#), [getZlab, plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow, plot\\_base-method](#), [qq-class](#), [registRmList, plot\\_base-method](#), [removeRmList, plot\\_base-method](#), [savePlot, plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack, plot\\_base-method](#), [setDataframe, plot\\_base-method](#), [setFront, plot\\_base-method](#)

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|                  |                             |
|------------------|-----------------------------|
| checkboxes-class | <i>Check Boxes Subclass</i> |
|------------------|-----------------------------|

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### Description

checkboxes class is a subclass for GUI check box frame.

### Details

This class is a subclass which make GUI check box frame.

### Fields

**frame**: tkwin class object; parent of widget window.  
**length**: Integer; number of grids.  
**back\_list**: List of tkwin class object; list of grids.  
**value**: List of TclVar class object; values of the check box frame.  
**cbcheckboxes**: tkwin class object; the check box frame.

**Contains**

gparts\_base

**Methods**

back(perline = 3): back method for gparts\_base class.

front(top, initialValues, labels, title = "", right.buttons = FALSE): front method for checkboxes subclass.

**See Also**

Other guiparts: [back](#), [gparts\\_base-method](#), [front](#), [checkboxes-method](#), [front](#), [radioboxes-method](#), [front](#), [textfield-method](#), [front](#), [textfields-method](#), [front](#), [toolbox-method](#), [front](#), [variableboxes-method](#), [gparts\\_base-class](#), [radioboxes-class](#), [textfield-class](#), [textfields-class](#), [toolbox-class](#), [variableboxes-class](#)

---

checkError,plot\_base-method

*Check Errors*

---

**Description**

checkError method checks errors.

**Arguments**

parms           List of objects; graphics settings parameters.

**Value**

**errorCode** Boolean; the error code.

**See Also**

Other plot: [box-class](#), [checkTheme](#), [plot\\_base-method](#), [checkVariable](#), [plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord](#), [plot\\_base-method](#), [getFacet](#), [plot\\_base-method](#), [getGeom](#), [plot\\_base-method](#), [getGgplot](#), [plot\\_base-method](#), [getHelp](#), [plot\\_base-method](#), [getMain](#), [plot\\_base-method](#), [getMessage](#), [plot\\_base-method](#), [getOpts](#), [plot\\_base-method](#), [getParms](#), [plot\\_base-method](#), [getPlot](#), [plot\\_base-method](#), [getScale](#), [plot\\_base-method](#), [getTheme](#), [plot\\_base-method](#), [getWindowTitle](#), [plot\\_base-method](#), [getXlab](#), [plot\\_base-method](#), [getYlab](#), [plot\\_base-method](#), [getZlab](#), [plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow](#), [plot\\_base-method](#), [qq-class](#), [registerRmlist](#), [plot\\_base-method](#), [removeRmlist](#), [plot\\_base-method](#), [savePlot](#), [plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack](#), [plot\\_base-method](#), [setDataframe](#), [plot\\_base-method](#), [setFront](#), [plot\\_base-method](#)

---

checkTheme,plot\_base-method

*Check Themes*

---

### Description

checkTheme method checks a theme index.

### Arguments

index                    Character; a theme index.

### Value

**theme** Character; the theme name.

### See Also

Other plot: [box-class](#), [checkError,plot\\_base-method](#), [checkVariable,plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord,plot\\_base-method](#), [getFacet,plot\\_base-method](#), [getGeom,plot\\_base-method](#), [getGgplot,plot\\_base-method](#), [getHelp,plot\\_base-method](#), [getMain,plot\\_base-method](#), [getMessage,plot\\_base-method](#), [getOpts,plot\\_base-method](#), [getParms,plot\\_base-method](#), [getPlot,plot\\_base-method](#), [getScale,plot\\_base-method](#), [getTheme,plot\\_base-method](#), [getWindowTitle,plot\\_base-method](#), [getXlab,plot\\_base-method](#), [getYlab,plot\\_base-method](#), [getZlab,plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow,plot\\_base-method](#), [qq-class](#), [registRmList,plot\\_base-method](#), [removeRmList,plot\\_base-method](#), [savePlot,plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack,plot\\_base-method](#), [setDataframe,plot\\_base-method](#), [setFront,plot\\_base-method](#)

---

checkVariable,plot\_base-method

*Check Variable Length*

---

### Description

checkVariable method checks a variable length.

### Arguments

var                        Vector of Character; variable names.

### Value

**var** Character; the fixed variable name.



**See Also**

Other plot: [box-class](#), [checkError](#), [plot\\_base-method](#), [checkTheme](#), [plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord](#), [plot\\_base-method](#), [getFacet](#), [plot\\_base-method](#), [getGeom](#), [plot\\_base-method](#), [getGgplot](#), [plot\\_base-method](#), [getHelp](#), [plot\\_base-method](#), [getMain](#), [plot\\_base-method](#), [getMessage](#), [plot\\_base-method](#), [getOpts](#), [plot\\_base-method](#), [getParms](#), [plot\\_base-method](#), [getPlot](#), [plot\\_base-method](#), [getScale](#), [plot\\_base-method](#), [getTheme](#), [plot\\_base-method](#), [getWindowTitle](#), [plot\\_base-method](#), [getXlab](#), [plot\\_base-method](#), [getYlab](#), [plot\\_base-method](#), [getZlab](#), [plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow](#), [plot\\_base-method](#), [qq-class](#), [registRmList](#), [plot\\_base-method](#), [removeRmList](#), [plot\\_base-method](#), [savePlot](#), [plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack](#), [plot\\_base-method](#), [setDataframe](#), [plot\\_base-method](#), [setFront](#), [plot\\_base-method](#)

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 contour-class

*Contour Plot Subclass*


---

**Description**

contour class is a subclass for contour plots.

**Details**

This class is a subclass which show dialog boxes of contour plots for graphics editing.

**Fields**

top: tkwin class object; parent of widget window.  
 alternateFrame: tkwin class object; a special frame for some GUI parts.  
 vbox1: variableboxes class object; the frame to select variables.  
 vbox2: variableboxes class object; the frame to select facet variables.  
 lbbox1: textfields class object; the frame to set axis labels, the legend label, and the main title.  
 rbbox1: radioboxes class object; the frame to set the decoration type.  
 tbbbox1: toolbox class object; the frame to set the font, the colour set, other option, and the theme.

**Contains**

NULL

**Methods**

plotWindow(): Create the window that make plots.  
 savePlot(plot): Save the plot.  
 registRmList(object): Register deletable temporary objects.  
 removeRmList(): Remove registered temporary objects.  
 setFront(): Set front parts of frames.

`setBack()`: Set back parts of frames.  
`getWindowTitle()`: Get the title of the window.  
`getHelp()`: Get the title of the help document.  
`getParms()`: Get graphics settings parameters.  
`checkTheme(index)`: Check themes.  
`checkVariable(var)`: Check a variable length.  
`checkError(parms)`: Check errors.  
`setDataframe(parms)`: Set data frames.  
`getGgplot(parms)`: Get ggplot.  
`getGeom(parms)`: Get geom.  
`getScale(parms)`: Get scale.  
`getCoord(parms)`: Get coord.  
`getFacet(parms)`: Get facet.  
`getXlab(parms)`: Get xlab.  
`getYlab(parms)`: Get ylab.  
`getZlab(parms)`: Get zlab.  
`getMain(parms)`: Get the main label.  
`getTheme(parms)`: Get theme.  
`getOpts(parms)`: Get other opts.  
`getPlot(parms)`: Get the plot object.  
`getMessage()`: Get the plot error message.

### See Also

Other plot: [box-class](#), [checkError](#), [plot\\_base-method](#), [checkTheme](#), [plot\\_base-method](#), [checkVariable](#), [plot\\_base-method](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord](#), [plot\\_base-method](#), [getFacet](#), [plot\\_base-method](#), [getGeom](#), [plot\\_base-method](#), [getGgplot](#), [plot\\_base-method](#), [getHelp](#), [plot\\_base-method](#), [getMain](#), [plot\\_base-method](#), [getMessage](#), [plot\\_base-method](#), [getOpts](#), [plot\\_base-method](#), [getParms](#), [plot\\_base-method](#), [getPlot](#), [plot\\_base-method](#), [getScale](#), [plot\\_base-method](#), [getTheme](#), [plot\\_base-method](#), [getWindowTitle](#), [plot\\_base-method](#), [getXlab](#), [plot\\_base-method](#), [getYlab](#), [plot\\_base-method](#), [getZlab](#), [plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow](#), [plot\\_base-method](#), [qq-class](#), [registRmList](#), [plot\\_base-method](#), [removeRmList](#), [plot\\_base-method](#), [savePlot](#), [plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack](#), [plot\\_base-method](#), [setDataframe](#), [plot\\_base-method](#), [setFront](#), [plot\\_base-method](#)

---

|             |                                       |
|-------------|---------------------------------------|
| dataContour | <i>A Dummy Data for Contour Plots</i> |
|-------------|---------------------------------------|

---

**Description**

A Dummy Data for Contour Plots

**Format**

A data frame with 10000 observations on the following 3 variables.

x a x-axis variable

y a y-axis variable

z density

**See Also**

contour-class

**Examples**

```
# This data is generated by the code below:
# set.seed(5435678)
# dataContour <- data.frame(
#   x = (zx <- (rep(1:100, 100) - 5) / 2),
#   y = (zy <- (rep(1:100, each=100) - 5) / 2),
#   z = (z <- zx*zy)
# )
# save(dataContour, file = "dataContour.RData")

try(data(dataContour, package = "RcmdrPlugin.KMggplot2"))
try(activeDataSet("dataContour"))
```

---

|        |   |
|--------|---|
| dataKm | <i>A Dummy Data for Survival Analysis</i> |
|--------|---|

---

**Description**

A Dummy Data for Survival Analysis

**Format**

A data frame with 200 observations on the following 8 variables.

time time from entry (months)  
 age age  
 height height  
 weight weight  
 event event variable (0: censor, 1: event)  
 trt treatment group (has three groups "Group-A", "Group-B", and "Group-C")  
 marker a biomarker level (has two groups "High", and "Low")  
 sex sex

**See Also**

km-class

**Examples**

```
# This data is generated by the code below:
# set.seed(5435678)
# age <- round(rnorm(200, 65, 10))
# height <- rep(c(170, 160), each = 50) + rnorm(200, 0, 6)
# weight <- rep(c(50, 45.5), each = 50) + 0.91 * (height - 152.4) + rnorm(200, 0, 7)
# event <- sample(c(0, 1), 200, rep = TRUE, prob = c(0.1, 0.9))
# trt <- factor(sample(c("Group-A", "Group-B", "Group-C"), 200, rep = TRUE))
# marker <- factor(sample(c("High", "Low"), 200, rep = TRUE, prob = c(0.3, 0.7)))
# sex <- factor(rep(c("M", "F"), each = 50))
# mu <- 10 + 0.1 * (age - 65) + as.numeric(sex) + as.numeric(marker) + 5 * (as.numeric(trt) - 2)
# time <- rgamma(200, mu, 1)
# time[time >= 20] <- 20
# event[time == 20] <- 0
# dataKm <- data.frame(time, age, height, weight, event, trt, marker, sex)
# save(dataKm, file = "dataKm.RData")

try(data(dataKm, package = "RcmdrPlugin.KMggplot2"))
try(activeDataSet("dataKm"))
```

---

dataLine

*A Dummy Data for Line Charts*

---

**Description**

A Dummy Data for Line Charts

**Format**

A data frame with 144 observations on the following 5 variables.

date date

group a measurement group (has three groups "T", "H", and "L")

marker a biomarker level (has two groups "High", and "Low")

sex sex

y a measurement variable

**See Also**

line-class

**Examples**

```
# This data is generated by the code below:
# set.seed(5435678)
# date <- rep(seq(Sys.Date(), len = 12, by = "1 month"), each = 12)
# group <- rep(c("T", "H", "L"), 12, each = 4)
# marker <- factor(rep(c("High", "Low"), 36, each = 2))
# sex <- factor(rep(c("M", "F"), 72))
# mu <- rep(c(200, 50, 150), 12, each = 4) + 10 * as.numeric(sex) + 30 * as.numeric(marker)
# y <- rnorm(144, mu, 25)
# dataLine <- data.frame(date, group, marker, sex, y)
# save(dataLine, file = "dataLine.RData")

try(data(dataLine, package = "RcmdrPlugin.KMggplot2"))
try(activeDataSet("dataLine"))
```

---

discretebar-class      *Discrete Bar Charts Subclass*

---

**Description**

discretebar class is a subclass for discrete bar charts.

**Details**

This class is a subclass which show dialog boxes of discrete bar charts for graphics editing.

**Fields**

top: tkwin class object; parent of widget window.

alternateFrame: tkwin class object; a special frame for some GUI parts.

vbbox1: variableboxes class object; the frame to select variables.

vbbox2: variableboxes class object; the frame to select facet variables.

lbbbox1: textfields class object; the frame to set axis labels and the main title.

rbbox1: radioboxes class object; the frame to set the axis scaling.

tbbox1: toolbox class object; the frame to set the font, the colour set, other option, and the theme.

## **Contains**

NULL

## **Methods**

plotWindow(): Create the window that make plots.

savePlot(plot): Save the plot.

registRmList(object): Register deletable temporary objects.

removeRmList(): Remove registered temporary objects.

setFront(): Set front parts of frames.

setBack(): Set back parts of frames.

getWindowTitle(): Get the title of the window.

getHelp(): Get the title of the help document.

getParms(): Get graphics settings parameters.

checkTheme(index): Check themes.

checkVariable(var): Check a variable length.

checkError(parms): Check errors.

setDataframe(parms): Set data frames.

getGgplot(parms): Get ggplot.

getGeom(parms): Get geom.

getScale(parms): Get scale.

getCoord(parms): Get coord.

getFacet(parms): Get facet.

getXlab(parms): Get xlab.

getYlab(parms): Get ylab.

getZlab(parms): Get zlab.

getMain(parms): Get the main label.

getTheme(parms): Get theme.

getOpts(parms): Get other opts.

getPlot(parms): Get the plot object.

getMessage(): Get the plot error message.

**See Also**

Other plot: [box-class](#), [checkError](#), [plot\\_base-method](#), [checkTheme](#), [plot\\_base-method](#), [checkVariable](#), [plot\\_base-method](#), [contour-class](#), [dist-class](#), [factorize-class](#), [getCoord](#), [plot\\_base-method](#), [getFacet](#), [plot\\_base-method](#), [getGeom](#), [plot\\_base-method](#), [getGgplot](#), [plot\\_base-method](#), [getHelp](#), [plot\\_base-method](#), [getMain](#), [plot\\_base-method](#), [getMessage](#), [plot\\_base-method](#), [getOpts](#), [plot\\_base-method](#), [getParms](#), [plot\\_base-method](#), [getPlot](#), [plot\\_base-method](#), [getScale](#), [plot\\_base-method](#), [getTheme](#), [plot\\_base-method](#), [getWindowTitle](#), [plot\\_base-method](#), [getXlab](#), [plot\\_base-method](#), [getYlab](#), [plot\\_base-method](#), [getZlab](#), [plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow](#), [plot\\_base-method](#), [qq-class](#), [registRmList](#), [plot\\_base-method](#), [removeRmList](#), [plot\\_base-method](#), [savePlot](#), [plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack](#), [plot\\_base-method](#), [setDataframe](#), [plot\\_base-method](#), [setFront](#), [plot\\_base-method](#)

---

 dist-class

*Distribution Plot Subclass*


---

**Description**

dist class is a subclass for distribution plots.

**Details**

This class is a subclass which show dialog boxes of distribution plots for graphics editing.

**Fields**

top: tkwin class object; parent of widget window.

alternateFrame: tkwin class object; a special frame for some GUI parts.

lbbox1: textfields class object; the frame to set distribution parameters.

lbbox2: textfields class object; the frame to set axis labels, the legend label, and the main title.

rbbox1: radioboxes class object; the frame to set the function type.

tbbox1: toolbox class object; the frame to set the font, the colour set, other option, and the theme.

windowTitle: Character; the window title.

distType: Character; the distribution type ("discrete" or "continuous").

distName: Character; the distribution name.

parmNames: List of Characters; names of distribution parameters.

parmInits: List of Characters; initial values of distribution parameters.

**Contains**

NULL

## Methods

`plotWindow()`: Create the window that make plots.  
`savePlot(plot)`: Save the plot.  
`registRmList(object)`: Register deletable temporary objects.  
`removeRmList()`: Remove registered temporary objects.  
`setFront()`: Set front parts of frames.  
`setBack()`: Set back parts of frames.  
`getWindowTitle()`: Get the title of the window.  
`getHelp()`: Get the title of the help document.  
`getParms()`: Get graphics settings parameters.  
`checkTheme(index)`: Check themes.  
`checkVariable(var)`: Check a variable length.  
`checkError(parms)`: Check errors.  
`setDataframe(parms)`: Set data frames.  
`getGgplot(parms)`: Get ggplot.  
`getGeom(parms)`: Get geom.  
`getScale(parms)`: Get scale.  
`getCoord(parms)`: Get coord.  
`getFacet(parms)`: Get facet.  
`getXlab(parms)`: Get xlab.  
`getYlab(parms)`: Get ylab.  
`getZlab(parms)`: Get zlab.  
`getMain(parms)`: Get the main label.  
`getTheme(parms)`: Get theme.  
`getOpts(parms)`: Get other opts.  
`getPlot(parms)`: Get the plot object.  
`getMessage()`: Get the plot error message.

## See Also

Other plot: [box-class](#), [checkError](#), [plot\\_base-method](#), [checkTheme](#), [plot\\_base-method](#), [checkVariable](#), [plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [factorize-class](#), [getCoord](#), [plot\\_base-method](#), [getFacet](#), [plot\\_base-method](#), [getGeom](#), [plot\\_base-method](#), [getGgplot](#), [plot\\_base-method](#), [getHelp](#), [plot\\_base-method](#), [getMain](#), [plot\\_base-method](#), [getMessage](#), [plot\\_base-method](#), [getOpts](#), [plot\\_base-method](#), [getParms](#), [plot\\_base-method](#), [getPlot](#), [plot\\_base-method](#), [getScale](#), [plot\\_base-method](#), [getTheme](#), [plot\\_base-method](#), [getWindowTitle](#), [plot\\_base-method](#), [getXlab](#), [plot\\_base-method](#), [getYlab](#), [plot\\_base-method](#), [getZlab](#), [plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow](#), [plot\\_base-method](#), [qq-class](#), [registRmList](#), [plot\\_base-method](#), [removeRmList](#), [plot\\_base-method](#), [savePlot](#), [plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack](#), [plot\\_base-method](#), [setDataframe](#), [plot\\_base-method](#), [setFront](#), [plot\\_base-method](#)



---

|                 |                           |
|-----------------|---------------------------|
| factorize-class | <i>Factorize Subclass</i> |
|-----------------|---------------------------|

---

**Description**

factorize class is a subclass for factorizing numeric variables.

**Details**

This class is a subclass which show dialog boxes of a factorizer for graphics editing.

**Fields**

top: tkwin class object; parent of widget window.  
alternateFrame: tkwin class object; a special frame for some GUI parts.  
vbbox1: variableboxes class object; the frame to select variables.  
rbbox1: radioboxes class object; the frame to set options.

**Contains**

NULL

**Methods**

plotWindow(): Create the window that make plots.  
savePlot(plot): Save the plot.  
registRmList(object): Register deletable temporary objects.  
removeRmList(): Remove registered temporary objects.  
setFront(): Set front parts of frames.  
setBack(): Set back parts of frames.  
getWindowTitle(): Get the title of the window.  
getHelp(): Get the title of the help document.  
getParms(): Get graphics settings parameters.  
checkTheme(index): Check themes.  
checkVariable(var): Check a variable length.  
checkError(parms): Check errors.  
setDataframe(parms): Set data frames.  
getGgplot(parms): Get ggplot.  
getGeom(parms): Get geom.  
getScale(parms): Get scale.  
getCoord(parms): Get coord.

[getFacet\(parms\)](#): Get facet.  
[getXlab\(parms\)](#): Get xlab.  
[getYlab\(parms\)](#): Get ylab.  
[getZlab\(parms\)](#): Get zlab.  
[getMain\(parms\)](#): Get the main label.  
[getTheme\(parms\)](#): Get theme.  
[getOpts\(parms\)](#): Get other opts.  
[getPlot\(parms\)](#): Get the plot object.  
[getMessage\(\)](#): Get the plot error message.

### See Also

Other plot: [box-class](#), [checkError](#), [plot\\_base-method](#), [checkTheme](#), [plot\\_base-method](#), [checkVariable](#), [plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [getCoord](#), [plot\\_base-method](#), [getFacet](#), [plot\\_base-method](#), [getGeom](#), [plot\\_base-method](#), [getGgplot](#), [plot\\_base-method](#), [getHelp](#), [plot\\_base-method](#), [getMain](#), [plot\\_base-method](#), [getMessage](#), [plot\\_base-method](#), [getOpts](#), [plot\\_base-method](#), [getParms](#), [plot\\_base-method](#), [getPlot](#), [plot\\_base-method](#), [getScale](#), [plot\\_base-method](#), [getTheme](#), [plot\\_base-method](#), [getWindowTitle](#), [plot\\_base-method](#), [getXlab](#), [plot\\_base-method](#), [getYlab](#), [plot\\_base-method](#), [getZlab](#), [plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow](#), [plot\\_base-method](#), [qq-class](#), [registRmList](#), [plot\\_base-method](#), [removeRmList](#), [plot\\_base-method](#), [savePlot](#), [plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack](#), [plot\\_base-method](#), [setDataframe](#), [plot\\_base-method](#), [setFront](#), [plot\\_base-method](#)

---

front,checkboxes-method

*The front Method for checkboxes Subclass*

---

### Description

The front Method for checkboxes Subclass

### Arguments

|                            |  |
|----------------------------|--|
| <code>top</code>           | tkwin class object; top of widget window.              |
| <code>initValues</code>    | List of integer; initialization values of check boxes. |
| <code>labels</code>        | List of character; values of check boxes labels.       |
| <code>title</code>         | Character; the title of the check box frame.           |
| <code>right.buttons</code> | Boolean; whether check boxes are right aligned or not. |

### See Also

Other guiparts: [back](#), [gparts\\_base-method](#), [checkboxes-class](#), [front](#), [radioboxes-method](#), [front](#), [textfield-method](#), [front](#), [textfields-method](#), [front](#), [toolbox-method](#), [front](#), [variableboxes-method](#), [gparts\\_base-class](#), [radioboxes-class](#), [textfield-class](#), [textfields-class](#), [toolbox-class](#), [variableboxes-class](#)

---

front,radioboxes-method

*The front Method for radioboxes Subclass*

---

### Description

The front Method for radioboxes Subclass

### Arguments

|               |   |
|---------------|---|
| top           | tkwin class object; top of widget window.                 |
| labels        | List of character; values of radio boxes labels.          |
| title         | Character; the title of the radio box frame.              |
| initValue     | Integer; the initialization value of the radio box frame. |
| right.buttons | Boolean; whether radio boxes are right aligned or not.    |

### See Also

Other guiparts: [back,gparts\\_base-method](#), [checkboxes-class](#), [front,checkboxes-method](#), [front,textfield-method](#), [front,textfields-method](#), [front,toolbox-method](#), [front,variableboxes-method](#), [gparts\\_base-class](#), [radioboxes-class](#), [textfield-class](#), [textfields-class](#), [toolbox-class](#), [variableboxes-class](#)

---

front,textfield-method

*The front Method for textfield Subclass*

---

### Description

The front Method for textfield Subclass

### Arguments

|              |   |
|--------------|---|
| top          | tkwin class object; top of widget window.                 |
| initialValue | Character; initialization values of the text field frame. |
| boxwidth     | Integer; the size of the text field frame.                |
| title        | Character; the title of the text field frame.             |

### See Also

Other guiparts: [back,gparts\\_base-method](#), [checkboxes-class](#), [front,checkboxes-method](#), [front,radioboxes-method](#), [front,textfields-method](#), [front,toolbox-method](#), [front,variableboxes-method](#), [gparts\\_base-class](#), [radioboxes-class](#), [textfield-class](#), [textfields-class](#), [toolbox-class](#), [variableboxes-class](#)

---

front,textfields-method

*The front Method for textfields Subclass*

---

### Description

The front Method for textfields Subclass

### Arguments

|            |  |
|------------|--|
| top        | tkwin class object; top of widget window.                |
| initValues | List of character; initialization values of text fields. |
| titles     | List of character; titles of text fields.                |
| boxwidth   | Character; size of text fields.                          |

### See Also

Other guiparts: [back,gparts\\_base-method](#), [checkboxes-class](#), [front,checkboxes-method](#), [front,radioboxes-method](#), [front,textfield-method](#), [front,toolbox-method](#), [front,variableboxes-method](#), [gparts\\_base-class](#), [radioboxes-class](#), [textfield-class](#), [textfields-class](#), [toolbox-class](#), [variableboxes-class](#)

---

front,toolbox-method

*The front Method for toolbox Subclass*

---

### Description

The front Method for toolbox Subclass

### Arguments

|               |   |
|---------------|---|
| top           | tkwin class object; top of widget window.                   |
| showcolourbox | Boolean; whether the colour set frame is shown or not.      |
| fontSize      | Character; the initialization value of the font size.       |
| fontFamily    | Numeric; the initialization value of the font family.       |
| colourSet     | Numeric; the initialization value of the colour set.        |
| saveGraph     | Numeric; the initialization value of the save graph option. |
| themeBase     | Numeric; the initialization value of the theme.             |

### See Also

Other guiparts: [back,gparts\\_base-method](#), [checkboxes-class](#), [front,checkboxes-method](#), [front,radioboxes-method](#), [front,textfield-method](#), [front,textfields-method](#), [front,variableboxes-method](#), [gparts\\_base-class](#), [radioboxes-class](#), [textfield-class](#), [textfields-class](#), [toolbox-class](#), [variableboxes-class](#)

---

front,variableboxes-method

*The front Method for variableboxes Subclass*

---

### Description

The front Method for variableboxes Subclass

### Arguments

|        |  |
|--------|--|
| top    | tkwin class object; top of widget window.        |
| types  | List of character; types of variableLists.       |
| titles | List of character; titles of variable box frame. |
| modes  | List of character; select modes.                 |

### See Also

Other guiparts: [back,gparts\\_base-method](#), [checkboxes-class](#), [front,checkboxes-method](#), [front,radioboxes-method](#), [front,textfield-method](#), [front,textfields-method](#), [front,toolbox-method](#), [gparts\\_base-class](#), [radioboxes-class](#), [textfield-class](#), [textfields-class](#), [toolbox-class](#), [variableboxes-class](#)

---

getCoord,plot\_base-method

*Get coord*

---

### Description

getCoord method gets coord.

### Arguments

|       |  |
|-------|--|
| parms | List of objects; graphics settings parameters. |
|-------|--|

### Value

**coord** Character; a code snippet for coords.

**See Also**

Other plot: [box-class](#), [checkError,plot\\_base-method](#), [checkTheme,plot\\_base-method](#), [checkVariable,plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getFacet,plot\\_base-method](#), [getGeom,plot\\_base-method](#), [getGgplot,plot\\_base-method](#), [getHelp,plot\\_base-method](#), [getMain,plot\\_base-method](#), [getMessage,plot\\_base-method](#), [getOpts,plot\\_base-method](#), [getParms,plot\\_base-method](#), [getPlot,plot\\_base-method](#), [getScale,plot\\_base-method](#), [getTheme,plot\\_base-method](#), [getWindowTitle,plot\\_base-method](#), [getXlab,plot\\_base-method](#), [getYlab,plot\\_base-method](#), [getZlab,plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow,plot\\_base-method](#), [qq-class](#), [registRmlist,plot\\_base-method](#), [removeRmlist,plot\\_base-method](#), [savePlot,plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack,plot\\_base-method](#), [setDataframe,plot\\_base-method](#), [setFront,plot\\_base-method](#)

---

[getFacet,plot\\_base-method](#)

*Get facet*

---

**Description**

`getFacet` method gets facet.

**Arguments**

`parms` List of objects; graphics settings parameters.

**Value**

**facet** Character; a code snippet for the facet.

**See Also**

Other plot: [box-class](#), [checkError,plot\\_base-method](#), [checkTheme,plot\\_base-method](#), [checkVariable,plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord,plot\\_base-method](#), [getGeom,plot\\_base-method](#), [getGgplot,plot\\_base-method](#), [getHelp,plot\\_base-method](#), [getMain,plot\\_base-method](#), [getMessage,plot\\_base-method](#), [getOpts,plot\\_base-method](#), [getParms,plot\\_base-method](#), [getPlot,plot\\_base-method](#), [getScale,plot\\_base-method](#), [getTheme,plot\\_base-method](#), [getWindowTitle,plot\\_base-method](#), [getXlab,plot\\_base-method](#), [getYlab,plot\\_base-method](#), [getZlab,plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow,plot\\_base-method](#), [qq-class](#), [registRmlist,plot\\_base-method](#), [removeRmlist,plot\\_base-method](#), [savePlot,plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack,plot\\_base-method](#), [setDataframe,plot\\_base-method](#), [setFront,plot\\_base-method](#)

---

getGeom,plot\_base-method  
*Get geom*

---

**Description**

getGeom method gets geom.

**Arguments**

parms            List of objects; graphics settings parameters.

**Value**

**geom** Character; a code snippet for geometric objects.

**See Also**

Other plot: [box-class](#), [checkError,plot\\_base-method](#), [checkTheme,plot\\_base-method](#), [checkVariable,plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord,plot\\_base-method](#), [getFacet,plot\\_base-method](#), [getGgplot,plot\\_base-method](#), [getHelp,plot\\_base-method](#), [getMain,plot\\_base-method](#), [getMessage,plot\\_base-method](#), [getOpts,plot\\_base-method](#), [getParms,plot\\_base-method](#), [getPlot,plot\\_base-method](#), [getScale,plot\\_base-method](#), [getTheme,plot\\_base-method](#), [getWindowTitle,plot\\_base-method](#), [getXlab,plot\\_base-method](#), [getYlab,plot\\_base-method](#), [getZlab,plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow,plot\\_base-method](#), [qq-class](#), [registRmList,plot\\_base-method](#), [removeRmList,plot\\_base-method](#), [savePlot,plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack,plot\\_base-method](#), [setDataframe,plot\\_base-method](#), [setFront,plot\\_base-method](#)

---

getGgplot,plot\_base-method  
*Get ggplot*

---

**Description**

getGgplot method gets ggplot.

**Arguments**

parms            List of objects; graphics settings parameters.

**Value**

**ggplot** Character; a code snippet for ggplot functions.

**See Also**

Other plot: [box-class](#), [checkError,plot\\_base-method](#), [checkTheme,plot\\_base-method](#), [checkVariable,plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord,plot\\_base-method](#), [getFacet,plot\\_base-method](#), [getGeom,plot\\_base-method](#), [getHelp,plot\\_base-method](#), [getMain,plot\\_base-method](#), [getMessage,plot\\_base-method](#), [getOpts,plot\\_base-method](#), [getParms,plot\\_base-method](#), [getPlot,plot\\_base-method](#), [getScale,plot\\_base-method](#), [getTheme,plot\\_base-method](#), [getWindowTitle,plot\\_base-method](#), [getXlab,plot\\_base-method](#), [getYlab,plot\\_base-method](#), [getZlab,plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow,plot\\_base-method](#), [qq-class](#), [registRmList,plot\\_base-method](#), [removeRmList,plot\\_base-method](#), [savePlot,plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack,plot\\_base-method](#), [setDataframe,plot\\_base-method](#), [setFront,plot\\_base-method](#)

---

[getHelp,plot\\_base-method](#)

*Get Help*

---

**Description**

`getHelp` method gets the title of the help document.

**Value**

**help** Character; the title of the help document.

**See Also**

Other plot: [box-class](#), [checkError,plot\\_base-method](#), [checkTheme,plot\\_base-method](#), [checkVariable,plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord,plot\\_base-method](#), [getFacet,plot\\_base-method](#), [getGeom,plot\\_base-method](#), [getGgplot,plot\\_base-method](#), [getMain,plot\\_base-method](#), [getMessage,plot\\_base-method](#), [getOpts,plot\\_base-method](#), [getParms,plot\\_base-method](#), [getPlot,plot\\_base-method](#), [getScale,plot\\_base-method](#), [getTheme,plot\\_base-method](#), [getWindowTitle,plot\\_base-method](#), [getXlab,plot\\_base-method](#), [getYlab,plot\\_base-method](#), [getZlab,plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow,plot\\_base-method](#), [qq-class](#), [registRmList,plot\\_base-method](#), [removeRmList,plot\\_base-method](#), [savePlot,plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack,plot\\_base-method](#), [setDataframe,plot\\_base-method](#), [setFront,plot\\_base-method](#)

---

[getMain,plot\\_base-method](#)

*Get Main Label*

---

**Description**

`getMain` method gets the main label (graph title).



**Arguments**

parms            List of objects; graphics settings parameters.

**Value**

**main** Character; a code snippet for the main label.

**See Also**

Other plot: [box-class](#), [checkError,plot\\_base-method](#), [checkTheme,plot\\_base-method](#), [checkVariable,plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord,plot\\_base-method](#), [getFacet,plot\\_base-method](#), [getGeom,plot\\_base-method](#), [getGgplot,plot\\_base-method](#), [getHelp,plot\\_base-method](#), [getMessage,plot\\_base-method](#), [getOpts,plot\\_base-method](#), [getParms,plot\\_base-method](#), [getPlot,plot\\_base-method](#), [getScale,plot\\_base-method](#), [getTheme,plot\\_base-method](#), [getWindowTitle,plot\\_base-method](#), [getXlab,plot\\_base-method](#), [getYlab,plot\\_base-method](#), [getZlab,plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow,plot\\_base-method](#), [qq-class](#), [registRmList,plot\\_base-method](#), [removeRmList,plot\\_base-method](#), [savePlot,plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack,plot\\_base-method](#), [setDataframe,plot\\_base-method](#), [setFront,plot\\_base-method](#)

---

getMessage,plot\_base-method  
*Get Plot Error Message*

---

**Description**

getMessage method gets the plot error message.

**Value**

**message** Character; the plot error message.

**See Also**

Other plot: [box-class](#), [checkError,plot\\_base-method](#), [checkTheme,plot\\_base-method](#), [checkVariable,plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord,plot\\_base-method](#), [getFacet,plot\\_base-method](#), [getGeom,plot\\_base-method](#), [getGgplot,plot\\_base-method](#), [getHelp,plot\\_base-method](#), [getMain,plot\\_base-method](#), [getOpts,plot\\_base-method](#), [getParms,plot\\_base-method](#), [getPlot,plot\\_base-method](#), [getScale,plot\\_base-method](#), [getTheme,plot\\_base-method](#), [getWindowTitle,plot\\_base-method](#), [getXlab,plot\\_base-method](#), [getYlab,plot\\_base-method](#), [getZlab,plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow,plot\\_base-method](#), [qq-class](#), [registRmList,plot\\_base-method](#), [removeRmList,plot\\_base-method](#), [savePlot,plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack,plot\\_base-method](#), [setDataframe,plot\\_base-method](#), [setFront,plot\\_base-method](#)

---

`getOpts,plot_base-method`

*Get Other opts*

---

### Description

`getOpts` method gets other graph options.

### Arguments

`parms` List of objects; graphics settings parameters.

### Value

**opts** Character; a code snippet for other graph options.

### See Also

Other plot: [box-class](#), [checkError,plot\\_base-method](#), [checkTheme,plot\\_base-method](#), [checkVariable,plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord,plot\\_base-method](#), [getFacet,plot\\_base-method](#), [getGeom,plot\\_base-method](#), [getGgplot,plot\\_base-method](#), [getHelp,plot\\_base-method](#), [getMain,plot\\_base-method](#), [getMessage,plot\\_base-method](#), [getParms,plot\\_base-method](#), [getPlot,plot\\_base-method](#), [getScale,plot\\_base-method](#), [getTheme,plot\\_base-method](#), [getWindowTitle,plot\\_base-method](#), [getXlab,plot\\_base-method](#), [getYlab,plot\\_base-method](#), [getZlab,plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow,plot\\_base-method](#), [qq-class](#), [registRmList,plot\\_base-method](#), [removeRmList,plot\\_base-method](#), [savePlot,plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack,plot\\_base-method](#), [setDataframe,plot\\_base-method](#), [setFront,plot\\_base-method](#)

---

`getParms,plot_base-method`

*Get Graphics Parameters*

---

### Description

`getParms` method gets graphics settings parameters.

### Value

**parms** List of objects; graphics settings parameters.

**See Also**

Other plot: [box-class](#), [checkError,plot\\_base-method](#), [checkTheme,plot\\_base-method](#), [checkVariable,plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord,plot\\_base-method](#), [getFacet,plot\\_base-method](#), [getGeom,plot\\_base-method](#), [getGgplot,plot\\_base-method](#), [getHelp,plot\\_base-method](#), [getMain,plot\\_base-method](#), [getMessage,plot\\_base-method](#), [getOpts,plot\\_base-method](#), [getPlot,plot\\_base-method](#), [getScale,plot\\_base-method](#), [getTheme,plot\\_base-method](#), [getWindowTitle,plot\\_base-method](#), [getXlab,plot\\_base-method](#), [getYlab,plot\\_base-method](#), [getZlab,plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow,plot\\_base-method](#), [qq-class](#), [registRmlist,plot\\_base-method](#), [removeRmlist,plot\\_base-method](#), [savePlot,plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack,plot\\_base-method](#), [setDataframe,plot\\_base-method](#), [setFront,plot\\_base-method](#)

---

getPlot,plot\_base-method

*Get Plot*

---

**Description**

getPlot method gets the plot object.

**Arguments**

**parms**           List of objects; graphics settings parameters.

**Value**

**plot** ggplot2 class object; the plot.

**See Also**

Other plot: [box-class](#), [checkError,plot\\_base-method](#), [checkTheme,plot\\_base-method](#), [checkVariable,plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord,plot\\_base-method](#), [getFacet,plot\\_base-method](#), [getGeom,plot\\_base-method](#), [getGgplot,plot\\_base-method](#), [getHelp,plot\\_base-method](#), [getMain,plot\\_base-method](#), [getMessage,plot\\_base-method](#), [getOpts,plot\\_base-method](#), [getParms,plot\\_base-method](#), [getScale,plot\\_base-method](#), [getTheme,plot\\_base-method](#), [getWindowTitle,plot\\_base-method](#), [getXlab,plot\\_base-method](#), [getYlab,plot\\_base-method](#), [getZlab,plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow,plot\\_base-method](#), [qq-class](#), [registRmlist,plot\\_base-method](#), [removeRmlist,plot\\_base-method](#), [savePlot,plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack,plot\\_base-method](#), [setDataframe,plot\\_base-method](#), [setFront,plot\\_base-method](#)

---

getScale, plot\_base-method  
*Get scale*

---

**Description**

getScale method gets scale.

**Arguments**

parms            List of objects; graphics settings parameters.

**Value**

**scale** Character; a code snippet for scales.

**See Also**

Other plot: [box-class](#), [checkError](#), [plot\\_base-method](#), [checkTheme](#), [plot\\_base-method](#), [checkVariable](#), [plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord](#), [plot\\_base-method](#), [getFacet](#), [plot\\_base-method](#), [getGeom](#), [plot\\_base-method](#), [getGgplot](#), [plot\\_base-method](#), [getHelp](#), [plot\\_base-method](#), [getMain](#), [plot\\_base-method](#), [getMessage](#), [plot\\_base-method](#), [getOpts](#), [plot\\_base-method](#), [getParms](#), [plot\\_base-method](#), [getPlot](#), [plot\\_base-method](#), [getTheme](#), [plot\\_base-method](#), [getWindowTitle](#), [plot\\_base-method](#), [getXlab](#), [plot\\_base-method](#), [getYlab](#), [plot\\_base-method](#), [getZlab](#), [plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow](#), [plot\\_base-method](#), [qq-class](#), [registRmList](#), [plot\\_base-method](#), [removeRmList](#), [plot\\_base-method](#), [savePlot](#), [plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack](#), [plot\\_base-method](#), [setDataframe](#), [plot\\_base-method](#), [setFront](#), [plot\\_base-method](#)

---

gettextKmg2            *A gettextRcmdr Wrapper Function*

---

**Description**

This function is a gettextRcmdr wrapper function for this package.

**Usage**

```
gettextKmg2(...)
```

**Arguments**

...            arguments passed to gettext function

**See Also**

[Rcmdr.Utilities](#)

---

getTheme,plot\_base-method  
*Get theme*

---

**Description**

getTheme method gets the graph theme.

**Arguments**

parms            List of objects; graphics settings parameters.

**Value**

**theme** Character; a code snippet for the theme.

**See Also**

Other plot: [box-class](#), [checkError,plot\\_base-method](#), [checkTheme,plot\\_base-method](#), [checkVariable,plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord,plot\\_base-method](#), [getFacet,plot\\_base-method](#), [getGeom,plot\\_base-method](#), [getGgplot,plot\\_base-method](#), [getHelp,plot\\_base-method](#), [getMain,plot\\_base-method](#), [getMessage,plot\\_base-method](#), [getOpts,plot\\_base-method](#), [getParms,plot\\_base-method](#), [getPlot,plot\\_base-method](#), [getScale,plot\\_base-method](#), [getWindowTitle,plot\\_base-method](#), [getXlab,plot\\_base-method](#), [getYlab,plot\\_base-method](#), [getZlab,plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow,plot\\_base-method](#), [qq-class](#), [registRmList,plot\\_base-method](#), [removeRmList,plot\\_base-method](#), [savePlot,plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack,plot\\_base-method](#), [setDataframe,plot\\_base-method](#), [setFront,plot\\_base-method](#)

---

getWindowTitle,plot\_base-method  
*Get Title*

---

**Description**

getWindowTitle method gets the title of the window.

**Value**

**title** Character; the title of the window.

**See Also**

Other plot: [box-class](#), [checkError,plot\\_base-method](#), [checkTheme,plot\\_base-method](#), [checkVariable,plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord,plot\\_base-method](#), [getFacet,plot\\_base-method](#), [getGeom,plot\\_base-method](#), [getGgplot,plot\\_base-method](#), [getHelp,plot\\_base-method](#), [getMain,plot\\_base-method](#), [getMessage,plot\\_base-method](#), [getOpts,plot\\_base-method](#), [getParms,plot\\_base-method](#), [getPlot,plot\\_base-method](#), [getScale,plot\\_base-method](#), [getTheme,plot\\_base-method](#), [getXlab,plot\\_base-method](#), [getYlab,plot\\_base-method](#), [getZlab,plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow,plot\\_base-method](#), [qq-class](#), [registRmList,plot\\_base-method](#), [removeRmList,plot\\_base-method](#), [savePlot,plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack,plot\\_base-method](#), [setDataframe,plot\\_base-method](#), [setFront,plot\\_base-method](#)

---

`getXlab,plot_base-method`

*Get xlab*

---

**Description**

`getXlab` method gets the x-axis label.

**Arguments**

`parms` List of objects; graphics settings parameters.

**Value**

**xlab** Character; a code snippet for the x-axis label.

**See Also**

Other plot: [box-class](#), [checkError,plot\\_base-method](#), [checkTheme,plot\\_base-method](#), [checkVariable,plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord,plot\\_base-method](#), [getFacet,plot\\_base-method](#), [getGeom,plot\\_base-method](#), [getGgplot,plot\\_base-method](#), [getHelp,plot\\_base-method](#), [getMain,plot\\_base-method](#), [getMessage,plot\\_base-method](#), [getOpts,plot\\_base-method](#), [getParms,plot\\_base-method](#), [getPlot,plot\\_base-method](#), [getScale,plot\\_base-method](#), [getTheme,plot\\_base-method](#), [getWindowTitle,plot\\_base-method](#), [getYlab,plot\\_base-method](#), [getZlab,plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow,plot\\_base-method](#), [qq-class](#), [registRmList,plot\\_base-method](#), [removeRmList,plot\\_base-method](#), [savePlot,plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack,plot\\_base-method](#), [setDataframe,plot\\_base-method](#), [setFront,plot\\_base-method](#)

---

getYlab,plot\_base-method  
*Get ylab*

---

**Description**

getYlab method gets the y-axis label.

**Arguments**

parms            List of objects; graphics settings parameters.

**Value**

**ylab** Character; a code snippet for the y-axis label.

**See Also**

Other plot: [box-class](#), [checkError,plot\\_base-method](#), [checkTheme,plot\\_base-method](#), [checkVariable,plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord,plot\\_base-method](#), [getFacet,plot\\_base-method](#), [getGeom,plot\\_base-method](#), [getGgplot,plot\\_base-method](#), [getHelp,plot\\_base-method](#), [getMain,plot\\_base-method](#), [getMessage,plot\\_base-method](#), [getOpts,plot\\_base-method](#), [getParms,plot\\_base-method](#), [getPlot,plot\\_base-method](#), [getScale,plot\\_base-method](#), [getTheme,plot\\_base-method](#), [getWindowTitle,plot\\_base-method](#), [getXlab,plot\\_base-method](#), [getZlab,plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow,plot\\_base-method](#), [qq-class](#), [registRmList,plot\\_base-method](#), [removeRmList,plot\\_base-method](#), [savePlot,plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack,plot\\_base-method](#), [setDataframe,plot\\_base-method](#), [setFront,plot\\_base-method](#)

---

getZlab,plot\_base-method  
*Get zlab*

---

**Description**

getZlab method gets the label of the stratum.

**Arguments**

parms            List of objects; graphics settings parameters.

**Value**

**zlab** Character; a code snippet for the label of the stratum.

**See Also**

Other plot: [box-class](#), [checkError](#), [plot\\_base-method](#), [checkTheme](#), [plot\\_base-method](#), [checkVariable](#), [plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord](#), [plot\\_base-method](#), [getFacet](#), [plot\\_base-method](#), [getGeom](#), [plot\\_base-method](#), [getGgplot](#), [plot\\_base-method](#), [getHelp](#), [plot\\_base-method](#), [getMain](#), [plot\\_base-method](#), [getMessage](#), [plot\\_base-method](#), [getOpts](#), [plot\\_base-method](#), [getParms](#), [plot\\_base-method](#), [getPlot](#), [plot\\_base-method](#), [getScale](#), [plot\\_base-method](#), [getTheme](#), [plot\\_base-method](#), [getWindowTitle](#), [plot\\_base-method](#), [getXlab](#), [plot\\_base-method](#), [getYlab](#), [plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow](#), [plot\\_base-method](#), [qq-class](#), [registRmList](#), [plot\\_base-method](#), [removeRmList](#), [plot\\_base-method](#), [savePlot](#), [plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack](#), [plot\\_base-method](#), [setDataframe](#), [plot\\_base-method](#), [setFront](#), [plot\\_base-method](#)

ggsaveKmg2

*A Modified Function of ggsave for recordedplot Class Objects***Description**

This is a modified function of `ggsave` for `recordedplot` class objects.

**Usage**

```
ggsaveKmg2(filename = default_name(plot),
  plot = last_plot(), device = default_device(filename),
  path = NULL, scale = 1, width = par("din")[1],
  height = par("din")[2], units = c("in", "cm", "mm"),
  dpi = 300, ...)
```

**Arguments**

|          |  |
|----------|--|
| filename | file name/filename of plot   |
| plot     | plot to save, defaults to last plot displayed                                      |
| device   | device to use, automatically extract from file name extension                      |
| path     | path to save plot to (if you just want to set path and not filename)               |
| scale    | scaling factor   |
| width    | width (defaults to the width of current plotting window)                           |
| height   | height (defaults to the height of current plotting window)                         |
| units    | units for width and height when either one is explicitly specified (in, cm, or mm) |
| dpi      | dpi to use for raster graphics   |
| ...      | other arguments passed to graphics device  |

**See Also**

[ggsave](#)



---

gparts\_base-class      *Base Class for GUI Frames*

---

**Description**

gparts\_base class is the base class for GUI frames.

**Details**

This class is a framework for implementing subclasses which make GUI frames.

**Fields**

frame: tkwin class object; parent of widget window.

length: Integer; number of grids.

back\_list: List of tkwin class object; list of grids.

**Contains**

NULL

**Methods**

back(perline = 3): back method for gparts\_base class.

**See Also**

Other guiparts: [back,gparts\\_base-method](#), [checkboxes-class](#), [front,checkboxes-method](#), [front,radioboxes-method](#), [front,textfield-method](#), [front,textfields-method](#), [front,toolbox-method](#), [front,variableboxes-method](#), [radioboxes-class](#), [textfield-class](#), [textfields-class](#), [toolbox-class](#), [variableboxes-class](#)

---

hist-class      *Histogram Subclass*

---

**Description**

hist class is a subclass for histograms.

**Details**

This class is a subclass which show dialog boxes of histograms for graphics editing.

**Fields**

top: tkwin class object; parent of widget window.  
alternateFrame: tkwin class object; a special frame for some GUI parts.  
vbbox1: variableboxes class object; the frame to select variables.  
vbbox2: variableboxes class object; the frame to select facet variables.  
vbbox3: variableboxes class object; the frame to set the no. of bins.  
lbbox1: textfields class object; the frame to set axis labels and the main title.  
rbbox1: radioboxes class object; the frame to set the axis scaling.  
cbbox1: checkboxes class object; the frame to set options.  
tbbox1: toolbox class object; the frame to set the font, the colour set, other option, and the theme.

**Contains**

NULL

**Methods**

plotWindow(): Create the window that make plots.  
savePlot(plot): Save the plot.  
registRmList(object): Register deletable temporary objects.  
removeRmList(): Remove registered temporary objects.  
setFront(): Set front parts of frames.  
setBack(): Set back parts of frames.  
getWindowTitle(): Get the title of the window.  
getHelp(): Get the title of the help document.  
getParms(): Get graphics settings parameters.  
checkTheme(index): Check themes.  
checkVariable(var): Check a variable length.  
checkError(parms): Check errors.  
setDataframe(parms): Set data frames.  
getGgplot(parms): Get ggplot.  
getGeom(parms): Get geom.  
getScale(parms): Get scale.  
getCoord(parms): Get coord.  
getFacet(parms): Get facet.  
getXlab(parms): Get xlab.  
getYlab(parms): Get ylab.  
getZlab(parms): Get zlab.  
getMain(parms): Get the main label.  
getTheme(parms): Get theme.  
getOpts(parms): Get other opts.  
getPlot(parms): Get the plot object.  
getMessage(): Get the plot error message.

**See Also**

Other plot: [box-class](#), [checkError](#), [plot\\_base-method](#), [checkTheme](#), [plot\\_base-method](#), [checkVariable](#), [plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord](#), [plot\\_base-method](#), [getFacet](#), [plot\\_base-method](#), [getGeom](#), [plot\\_base-method](#), [getGgplot](#), [plot\\_base-method](#), [getHelp](#), [plot\\_base-method](#), [getMain](#), [plot\\_base-method](#), [getMessage](#), [plot\\_base-method](#), [getOpts](#), [plot\\_base-method](#), [getParms](#), [plot\\_base-method](#), [getPlot](#), [plot\\_base-method](#), [getScale](#), [plot\\_base-method](#), [getTheme](#), [plot\\_base-method](#), [getWindowTitle](#), [plot\\_base-method](#), [getXlab](#), [plot\\_base-method](#), [getYlab](#), [plot\\_base-method](#), [getZlab](#), [plot\\_base-method](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow](#), [plot\\_base-method](#), [qq-class](#), [registRmList](#), [plot\\_base-method](#), [removeRmList](#), [plot\\_base-method](#), [savePlot](#), [plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack](#), [plot\\_base-method](#), [setDataframe](#), [plot\\_base-method](#), [setFront](#), [plot\\_base-method](#)

---

 km-class

*Kaplan-Meier Plot Subclass*


---

**Description**

km class is a subclass for Kaplan-Meier plots.

**Details**

This class is a subclass which show dialog boxes of Kaplan-Meier plots for graphics editing.

**Fields**

top: tkwin class object; parent of widget window.

alternateFrame: tkwin class object; a special frame for some GUI parts.

vbbox1: variableboxes class object; the frame to select variables.

vbbox2: variableboxes class object; the frame to select facet variables.

lbbox1: textfields class object; the frame to set axis labels, the legend label, and the main title.

lbbox2: textfields class object; the frame to set the tick count.

rbbox1: radioboxes class object; the frame to set the plot type.

cbbox1: checkboxes class object; the frame to set option(s).

tbbox1: toolbox class object; the frame to set the font, the colour set, other option, and the theme.

**Contains**

NULL

## Methods

`plotWindow()`: Create the window that make plots.  
`savePlot(plot)`: Save the plot.  
`registRmList(object)`: Register deletable temporary objects.  
`removeRmList()`: Remove registered temporary objects.  
`setFront()`: Set front parts of frames.  
`setBack()`: Set back parts of frames.  
`getWindowTitle()`: Get the title of the window.  
`getHelp()`: Get the title of the help document.  
`getParms()`: Get graphics settings parameters.  
`checkTheme(index)`: Check themes.  
`checkVariable(var)`: Check a variable length.  
`checkError(parms)`: Check errors.  
`setDataframe(parms)`: Set data frames.  
`getGgplot(parms)`: Get ggplot.  
`getGeom(parms)`: Get geom.  
`getScale(parms)`: Get scale.  
`getCoord(parms)`: Get coord.  
`getFacet(parms)`: Get facet.  
`getXlab(parms)`: Get xlab.  
`getYlab(parms)`: Get ylab.  
`getZlab(parms)`: Get zlab.  
`getMain(parms)`: Get the main label.  
`getTheme(parms)`: Get theme.  
`getOpts(parms)`: Get other opts.  
`getPlot(parms)`: Get the plot object.  
`getMessage()`: Get the plot error message.

## See Also

Other plot: [box-class](#), [checkError](#), [plot\\_base-method](#), [checkTheme](#), [plot\\_base-method](#), [checkVariable](#), [plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord](#), [plot\\_base-method](#), [getFacet](#), [plot\\_base-method](#), [getGeom](#), [plot\\_base-method](#), [getGgplot](#), [plot\\_base-method](#), [getHelp](#), [plot\\_base-method](#), [getMain](#), [plot\\_base-method](#), [getMessage](#), [plot\\_base-method](#), [getOpts](#), [plot\\_base-method](#), [getParms](#), [plot\\_base-method](#), [getPlot](#), [plot\\_base-method](#), [getScale](#), [plot\\_base-method](#), [getTheme](#), [plot\\_base-method](#), [getWindowTitle](#), [plot\\_base-method](#), [getXlab](#), [plot\\_base-method](#), [getYlab](#), [plot\\_base-method](#), [getZlab](#), [plot\\_base-method](#), [hist-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow](#), [plot\\_base-method](#), [qq-class](#), [registRmList](#), [plot\\_base-method](#), [removeRmList](#), [plot\\_base-method](#), [savePlot](#), [plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack](#), [plot\\_base-method](#), [setDataframe](#), [plot\\_base-method](#), [setFront](#), [plot\\_base-method](#)

---

`line-class`*Line Chart Subclass*

---

**Description**

line class is a subclass for line charts.

**Details**

This class is a subclass which show dialog boxes of line charts for graphics editing.

**Fields**

`top`: tkwin class object; parent of widget window.  
`alternateFrame`: tkwin class object; a special frame for some GUI parts.  
`vbbox1`: variableboxes class object; the frame to select variables.  
`vbbox2`: variableboxes class object; the frame to select facet variables.  
`lbbox1`: textfields class object; the frame to set axis labels, the legend label, and the main title.  
`rbbox1`: radioboxes class object; the frame to set the plot type.  
`rbbox2`: radioboxes class object; the frame to set the summary type.  
`rbbox3`: radioboxes class object; the frame to set the scale type.  
`tbbox1`: toolbox class object; the frame to set the font, the colour set, other option, and the theme.

**Contains**

NULL

**Methods**

`plotWindow()`: Create the window that make plots.  
`savePlot(plot)`: Save the plot.  
`registRmList(object)`: Register deletable temporary objects.  
`removeRmList()`: Remove registered temporary objects.  
`setFront()`: Set front parts of frames.  
`setBack()`: Set back parts of frames.  
`getWindowTitle()`: Get the title of the window.  
`getHelp()`: Get the title of the help document.  
`getParms()`: Get graphics settings parameters.  
`checkTheme(index)`: Check themes.  
`checkVariable(var)`: Check a variable length.  
`checkError(parms)`: Check errors.

[setDataframe\(parms\)](#): Set data frames.  
[getGgplot\(parms\)](#): Get ggplot.  
[getGeom\(parms\)](#): Get geom.  
[getScale\(parms\)](#): Get scale.  
[getCoord\(parms\)](#): Get coord.  
[getFacet\(parms\)](#): Get facet.  
[getXlab\(parms\)](#): Get xlab.  
[getYlab\(parms\)](#): Get ylab.  
[getZlab\(parms\)](#): Get zlab.  
[getMain\(parms\)](#): Get the main label.  
[getTheme\(parms\)](#): Get theme.  
[getOpts\(parms\)](#): Get other opts.  
[getPlot\(parms\)](#): Get the plot object.  
[getMessage\(\)](#): Get the plot error message.

### See Also

[scale\\_date](#)

Other plot: [box-class](#), [checkError](#), [plot\\_base-method](#), [checkTheme](#), [plot\\_base-method](#), [checkVariable](#), [plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord](#), [plot\\_base-method](#), [getFacet](#), [plot\\_base-method](#), [getGeom](#), [plot\\_base-method](#), [getGgplot](#), [plot\\_base-method](#), [getHelp](#), [plot\\_base-method](#), [getMain](#), [plot\\_base-method](#), [getMessage](#), [plot\\_base-method](#), [getOpts](#), [plot\\_base-method](#), [getParms](#), [plot\\_base-method](#), [getPlot](#), [plot\\_base-method](#), [getScale](#), [plot\\_base-method](#), [getTheme](#), [plot\\_base-method](#), [getWindowTitle](#), [plot\\_base-method](#), [getXlab](#), [plot\\_base-method](#), [getYlab](#), [plot\\_base-method](#), [getZlab](#), [plot\\_base-method](#), [hist-class](#), [km-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow](#), [plot\\_base-method](#), [qq-class](#), [registRmList](#), [plot\\_base-method](#), [removeRmList](#), [plot\\_base-method](#), [savePlot](#), [plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack](#), [plot\\_base-method](#), [setDataframe](#), [plot\\_base-method](#), [setFront](#), [plot\\_base-method](#)

---

nonFactors

*Select Non Factor Variables*

---

### Description

This is a function to select non-factor variables for the Rcmdr package.

### Usage

```
nonFactors()
```

### See Also

[Rcmdr.Utilities](#)

---

`nonFactorsP`*Check Non Factor Variables in The Active Dataset*

---

**Description**

This is a function to check the active dataset has more than or equal to `n` non-factor variables.

**Usage**

```
nonFactorsP(n = 1)
```

**Arguments**

`n` Numeric: the target number of `n`.

**Value**

**result** Boolean; the active dataset has or does not have more than or equal to `n` non-factor variables.

**See Also**

[Rcmdr.Utilities](#)

---

`pie-class`*Pie Charts Subclass*

---

**Description**

`pie` class is a subclass for pie charts.

**Details**

This class is a subclass which show dialog boxes of pie charts for graphics editing.

**Fields**

`top`: `tkwin` class object; parent of widget window.

`alternateFrame`: `tkwin` class object; a special frame for some GUI parts.

`vbbox1`: `variableboxes` class object; the frame to select variables.

`vbbox2`: `variableboxes` class object; the frame to select facet variables.

`lbbox1`: `textfields` class object; the frame to set axis labels and the main title.

`tbbox1`: `toolbox` class object; the frame to set the font, the colour set, other option, and the theme.

**Contains**

NULL

**Methods**

`plotWindow()`: Create the window that make plots.  
`savePlot(plot)`: Save the plot.  
`registRmList(object)`: Register deletable temporary objects.  
`removeRmList()`: Remove registered temporary objects.  
`setFront()`: Set front parts of frames.  
`setBack()`: Set back parts of frames.  
`getWindowTitle()`: Get the title of the window.  
`getHelp()`: Get the title of the help document.  
`getParms()`: Get graphics settings parameters.  
`checkTheme(index)`: Check themes.  
`checkVariable(var)`: Check a variable length.  
`checkError(parms)`: Check errors.  
`setDataframe(parms)`: Set data frames.  
`getGgplot(parms)`: Get ggplot.  
`getGeom(parms)`: Get geom.  
`getScale(parms)`: Get scale.  
`getCoord(parms)`: Get coord.  
`getFacet(parms)`: Get facet.  
`getXlab(parms)`: Get xlab.  
`getYlab(parms)`: Get ylab.  
`getZlab(parms)`: Get zlab.  
`getMain(parms)`: Get the main label.  
`getTheme(parms)`: Get theme.  
`getOpts(parms)`: Get other opts.  
`getPlot(parms)`: Get the plot object.  
`getMessage()`: Get the plot error message.

**See Also**

Other plot: [box-class](#), [checkError](#), [plot\\_base-method](#), [checkTheme](#), [plot\\_base-method](#), [checkVariable](#), [plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord](#), [plot\\_base-method](#), [getFacet](#), [plot\\_base-method](#), [getGeom](#), [plot\\_base-method](#), [getGgplot](#), [plot\\_base-method](#), [getHelp](#), [plot\\_base-method](#), [getMain](#), [plot\\_base-method](#), [getMessage](#), [plot\\_base-method](#), [getOpts](#), [plot\\_base-method](#), [getParms](#), [plot\\_base-method](#), [getPlot](#), [plot\\_base-method](#), [getScale](#), [plot\\_base-method](#), [getTheme](#), [plot\\_base-method](#), [getWindowTitle](#), [plot\\_base-method](#), [getXlab](#), [plot\\_base-method](#), [getYlab](#), [plot\\_base-method](#), [getZlab](#), [plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [plot\\_base-class](#), [plotWindow](#), [plot\\_base-method](#), [qq-class](#), [registRmList](#), [plot\\_base-method](#), [removeRmList](#), [plot\\_base-method](#), [savePlot](#), [plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack](#), [plot\\_base-method](#), [setDataframe](#), [plot\\_base-method](#), [setFront](#), [plot\\_base-method](#)



---

 plotWindow,plot\_base-method

*Create Plot Window*


---

### Description

plotWindow method creates the window that make plots.

### See Also

Other plot: [box-class](#), [checkError,plot\\_base-method](#), [checkTheme,plot\\_base-method](#), [checkVariable,plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord,plot\\_base-method](#), [getFacet,plot\\_base-method](#), [getGeom,plot\\_base-method](#), [getGgplot,plot\\_base-method](#), [getHelp,plot\\_base-method](#), [getMain,plot\\_base-method](#), [getMessage,plot\\_base-method](#), [getOpts,plot\\_base-method](#), [getParms,plot\\_base-method](#), [getPlot,plot\\_base-method](#), [getScale,plot\\_base-method](#), [getTheme,plot\\_base-method](#), [getWindowTitle,plot\\_base-method](#), [getXlab,plot\\_base-method](#), [getYlab,plot\\_base-method](#), [getZlab,plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [qq-class](#), [registRmList,plot\\_base-method](#), [removeRmList,plot\\_base-method](#), [savePlot,plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack,plot\\_base-method](#), [setDataframe,plot\\_base-method](#), [setFront,plot\\_base-method](#)

---

 plot\_base-class

*Base Class for Plot Windows*


---

### Description

plot\_base class is the base class for plot windows.

### Details

This class is a framework for implementing subclasses which show dialog boxes for graphics editing.

### Fields

**top:** tkwin class object; parent of widget window.

**alternateFrame:** tkwin class object; a special frame for some GUI parts.

**rmList:** List of character; deletable temporary objects.

### Contains

NULL

## Methods

`plotWindow()`: Create the window that make plots.  
`savePlot(plot)`: Save the plot.  
`registRmList(object)`: Register deletable temporary objects.  
`removeRmList()`: Remove registered temporary objects.  
`setFront()`: Set front parts of frames.  
`setBack()`: Set back parts of frames.  
`getWindowTitle()`: Get the title of the window.  
`getHelp()`: Get the title of the help document.  
`getParms()`: Get graphics settings parameters.  
`checkTheme(index)`: Check themes.  
`checkVariable(var)`: Check a variable length.  
`checkError(parms)`: Check errors.  
`setDataframe(parms)`: Set data frames.  
`getGgplot(parms)`: Get ggplot.  
`getGeom(parms)`: Get geom.  
`getScale(parms)`: Get scale.  
`getCoord(parms)`: Get coord.  
`getFacet(parms)`: Get facet.  
`getXlab(parms)`: Get xlab.  
`getYlab(parms)`: Get ylab.  
`getZlab(parms)`: Get zlab.  
`getMain(parms)`: Get the main label.  
`getTheme(parms)`: Get theme.  
`getOpts(parms)`: Get other opts.  
`getPlot(parms)`: Get the plot object.  
`getMessage()`: Get the plot error message.

## See Also

Other plot: [box-class](#), [checkError](#), [plot\\_base-method](#), [checkTheme](#), [plot\\_base-method](#), [checkVariable](#), [plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord](#), [plot\\_base-method](#), [getFacet](#), [plot\\_base-method](#), [getGeom](#), [plot\\_base-method](#), [getGgplot](#), [plot\\_base-method](#), [getHelp](#), [plot\\_base-method](#), [getMain](#), [plot\\_base-method](#), [getMessage](#), [plot\\_base-method](#), [getOpts](#), [plot\\_base-method](#), [getParms](#), [plot\\_base-method](#), [getPlot](#), [plot\\_base-method](#), [getScale](#), [plot\\_base-method](#), [getTheme](#), [plot\\_base-method](#), [getWindowTitle](#), [plot\\_base-method](#), [getXlab](#), [plot\\_base-method](#), [getYlab](#), [plot\\_base-method](#), [getZlab](#), [plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plotWindow](#), [plot\\_base-method](#), [qq-class](#), [registRmList](#), [plot\\_base-method](#), [removeRmList](#), [plot\\_base-method](#), [savePlot](#), [plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack](#), [plot\\_base-method](#), [setDataframe](#), [plot\\_base-method](#), [setFront](#), [plot\\_base-method](#)

---

`qq-class`*Q-Q Plot Subclass*

---

**Description**

qq class is a subclass for Q-Q plots.

**Details**

This class is a subclass which show dialog boxes of Q-Q plots for graphics editing.

**Fields**

`top`: tkwin class object; parent of widget window.

`alternateFrame`: tkwin class object; a special frame for some GUI parts.

`vbbox1`: variableboxes class object; the frame to select variables.

`lbbox1`: textfields class object; the frame to set axis labels, the legend label, and the main title.

`lbbox2`: textfields class object; the frame to set other theoretical distribution.

`rbbox1`: radioboxes class object; the frame to set the theoretical distribution.

`tbbox1`: toolbox class object; the frame to set the font, the colour set, other option, and the theme.

**Contains**

NULL

**Methods**

`plotWindow()`: Create the window that make plots.

`savePlot(plot)`: Save the plot.

`registRmList(object)`: Register deletable temporary objects.

`removeRmList()`: Remove registered temporary objects.

`setFront()`: Set front parts of frames.

`setBack()`: Set back parts of frames.

`getWindowTitle()`: Get the title of the window.

`getHelp()`: Get the title of the help document.

`getParms()`: Get graphics settings parameters.

`checkTheme(index)`: Check themes.

`checkVariable(var)`: Check a variable length.

`checkError(parms)`: Check errors.

`setDataframe(parms)`: Set data frames.

`getGgplot(parms)`: Get ggplot.

[getGeom\(parms\)](#): Get geom.  
[getScale\(parms\)](#): Get scale.  
[getCoord\(parms\)](#): Get coord.  
[getFacet\(parms\)](#): Get facet.  
[getXlab\(parms\)](#): Get xlab.  
[getYlab\(parms\)](#): Get ylab.  
[getZlab\(parms\)](#): Get zlab.  
[getMain\(parms\)](#): Get the main label.  
[getTheme\(parms\)](#): Get theme.  
[getOpts\(parms\)](#): Get other opts.  
[getPlot\(parms\)](#): Get the plot object.  
[getMessage\(\)](#): Get the plot error message.

### See Also

Other plot: [box-class](#), [checkError](#), [plot\\_base-method](#), [checkTheme](#), [plot\\_base-method](#), [checkVariable](#), [plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord](#), [plot\\_base-method](#), [getFacet](#), [plot\\_base-method](#), [getGeom](#), [plot\\_base-method](#), [getGgplot](#), [plot\\_base-method](#), [getHelp](#), [plot\\_base-method](#), [getMain](#), [plot\\_base-method](#), [getMessage](#), [plot\\_base-method](#), [getOpts](#), [plot\\_base-method](#), [getParms](#), [plot\\_base-method](#), [getPlot](#), [plot\\_base-method](#), [getScale](#), [plot\\_base-method](#), [getTheme](#), [plot\\_base-method](#), [getWindowTitle](#), [plot\\_base-method](#), [getXlab](#), [plot\\_base-method](#), [getYlab](#), [plot\\_base-method](#), [getZlab](#), [plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow](#), [plot\\_base-method](#), [registRmList](#), [plot\\_base-method](#), [removeRmList](#), [plot\\_base-method](#), [savePlot](#), [plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack](#), [plot\\_base-method](#), [setDataframe](#), [plot\\_base-method](#), [setFront](#), [plot\\_base-method](#)

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|                  |                             |
|------------------|-----------------------------|
| radioboxes-class | <i>Radio Boxes Subclass</i> |
|------------------|-----------------------------|

---

### Description

radioboxes class is a subclass for GUI radio box frame.

### Details

This class is a subclass which make GUI radio box frame.

### Fields

[frame](#): tkwin class object; parent of widget window.  
[length](#): Integer; number of grids.  
[back\\_list](#): List of tkwin class object; list of grids.  
[value](#): TclVar class object; the value of the radio box frame.  
[rbradioboxes](#): tkwin class object; the radio box frame.

**Contains**

gparts\_base

**Methods**

back(perline = 3): back method for gparts\_base class.

front(top, labels, title = "", initialValue = 1, right.buttons = FALSE): front method for radioboxes subclass.

**See Also**

Other guiparts: [back,gparts\\_base-method](#), [checkboxes-class](#), [front,checkboxes-method](#), [front,radioboxes-method](#), [front,textfield-method](#), [front,textfields-method](#), [front,toolbox-method](#), [front,variableboxes-method](#), [gparts\\_base-class](#), [textfield-class](#), [textfields-class](#), [toolbox-class](#), [variableboxes-class](#)

---

registRmlist,plot\_base-method

*Register Deletable Temporary Objects*

---

**Description**

registRmlist method registers deletable temporary objects.

**Arguments**

object            Object; the deletable temporary object to register.

**See Also**

Other plot: [box-class](#), [checkError,plot\\_base-method](#), [checkTheme,plot\\_base-method](#), [checkVariable,plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord,plot\\_base-method](#), [getFacet,plot\\_base-method](#), [getGeom,plot\\_base-method](#), [getGgplot,plot\\_base-method](#), [getHelp,plot\\_base-method](#), [getMain,plot\\_base-method](#), [getMessage,plot\\_base-method](#), [getOpts,plot\\_base-method](#), [getParms,plot\\_base-method](#), [getPlot,plot\\_base-method](#), [getScale,plot\\_base-method](#), [getTheme,plot\\_base-method](#), [getWindowTitle,plot\\_base-method](#), [getXlab,plot\\_base-method](#), [getYlab,plot\\_base-method](#), [getZlab,plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow,plot\\_base-method](#), [qq-class](#), [removeRmlist,plot\\_base-method](#), [savePlot,plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack,plot\\_base-method](#), [setDataframe,plot\\_base-method](#), [setFront,plot\\_base-method](#)

---

removeRmlist,plot\_base-method

*Remove Registered Temporary Objects*

---

### Description

removeRmlist method removes registered temporary objects.

### See Also

Other plot: [box-class](#), [checkError,plot\\_base-method](#), [checkTheme,plot\\_base-method](#), [checkVariable,plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord,plot\\_base-method](#), [getFacet,plot\\_base-method](#), [getGeom,plot\\_base-method](#), [getGgplot,plot\\_base-method](#), [getHelp,plot\\_base-method](#), [getMain,plot\\_base-method](#), [getMessage,plot\\_base-method](#), [getOpts,plot\\_base-method](#), [getParms,plot\\_base-method](#), [getPlot,plot\\_base-method](#), [getScale,plot\\_base-method](#), [getTheme,plot\\_base-method](#), [getWindowTitle,plot\\_base-method](#), [getXlab,plot\\_base-method](#), [getYlab,plot\\_base-method](#), [getZlab,plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow,plot\\_base-method](#), [qq-class](#), [registRmlist,plot\\_base-method](#), [savePlot,plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack,plot\\_base-method](#), [setDataframe,plot\\_base-method](#), [setFront,plot\\_base-method](#)

---

savePlot,plot\_base-method

*Save Plot*

---

### Description

savePlot method saves the plot.

### Arguments

plot                   ggplot or recordedplot class object; the plot to save.

### See Also

Other plot: [box-class](#), [checkError,plot\\_base-method](#), [checkTheme,plot\\_base-method](#), [checkVariable,plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord,plot\\_base-method](#), [getFacet,plot\\_base-method](#), [getGeom,plot\\_base-method](#), [getGgplot,plot\\_base-method](#), [getHelp,plot\\_base-method](#), [getMain,plot\\_base-method](#), [getMessage,plot\\_base-method](#), [getOpts,plot\\_base-method](#), [getParms,plot\\_base-method](#), [getPlot,plot\\_base-method](#), [getScale,plot\\_base-method](#), [getTheme,plot\\_base-method](#), [getWindowTitle,plot\\_base-method](#), [getXlab,plot\\_base-method](#), [getYlab,plot\\_base-method](#), [getZlab,plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow,plot\\_base-method](#), [qq-class](#), [registRmlist,plot\\_base-method](#), [removeRmlist,plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack,plot\\_base-method](#), [setDataframe,plot\\_base-method](#), [setFront,plot\\_base-method](#)

---

|               |                              |
|---------------|------------------------------|
| scatter-class | <i>Scatter Plot Subclass</i> |
|---------------|------------------------------|

---

## Description

scatter class is a subclass for scatter plots.

## Details

This class is a subclass which show dialog boxes of scatter plots for graphics editing.

## Fields

top: tkwin class object; parent of widget window.  
alternateFrame: tkwin class object; a special frame for some GUI parts.  
vbbox1: variableboxes class object; the frame to select variables.  
vbbox2: variableboxes class object; the frame to select facet variables.  
lbbox1: textfields class object; the frame to set axis labels, the legend label, and the main title.  
rbbox1: radioboxes class object; the frame to set the smoothing type.  
tbbox1: toolbox class object; the frame to set the font, the colour set, other option, and the theme.

## Contains

NULL

## Methods

plotWindow(): Create the window that make plots.  
savePlot(plot): Save the plot.  
registRmlist(object): Register deletable temporary objects.  
removeRmlist(): Remove registered temporary objects.  
setFront(): Set front parts of frames.  
setBack(): Set back parts of frames.  
getWindowTitle(): Get the title of the window.  
getHelp(): Get the title of the help document.  
getParms(): Get graphics settings parameters.  
checkTheme(index): Check themes.  
checkVariable(var): Check a variable length.  
checkError(parms): Check errors.  
setDataframe(parms): Set data frames.  
getGgplot(parms): Get ggplot.

[getGeom\(parms\)](#): Get geom.  
[getScale\(parms\)](#): Get scale.  
[getCoord\(parms\)](#): Get coord.  
[getFacet\(parms\)](#): Get facet.  
[getXlab\(parms\)](#): Get xlab.  
[getYlab\(parms\)](#): Get ylab.  
[getZlab\(parms\)](#): Get zlab.  
[getMain\(parms\)](#): Get the main label.  
[getTheme\(parms\)](#): Get theme.  
[getOpts\(parms\)](#): Get other opts.  
[getPlot\(parms\)](#): Get the plot object.  
[getMessage\(\)](#): Get the plot error message.

### See Also

Other plot: [box-class](#), [checkError](#), [plot\\_base-method](#), [checkTheme](#), [plot\\_base-method](#), [checkVariable](#), [plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord](#), [plot\\_base-method](#), [getFacet](#), [plot\\_base-method](#), [getGeom](#), [plot\\_base-method](#), [getGgplot](#), [plot\\_base-method](#), [getHelp](#), [plot\\_base-method](#), [getMain](#), [plot\\_base-method](#), [getMessage](#), [plot\\_base-method](#), [getOpts](#), [plot\\_base-method](#), [getParms](#), [plot\\_base-method](#), [getPlot](#), [plot\\_base-method](#), [getScale](#), [plot\\_base-method](#), [getTheme](#), [plot\\_base-method](#), [getWindowTitle](#), [plot\\_base-method](#), [getXlab](#), [plot\\_base-method](#), [getYlab](#), [plot\\_base-method](#), [getZlab](#), [plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow](#), [plot\\_base-method](#), [qq-class](#), [registRmList](#), [plot\\_base-method](#), [removeRmList](#), [plot\\_base-method](#), [savePlot](#), [plot\\_base-method](#), [scattermat-class](#), [setBack](#), [plot\\_base-method](#), [setDataframe](#), [plot\\_base-method](#), [setFront](#), [plot\\_base-method](#)

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|                  |                                     |
|------------------|-------------------------------------|
| scattermat-class | <i>Scatter Plot Matrix Subclass</i> |
|------------------|-------------------------------------|

---

### Description

scattermat class is a subclass for a scatter plot matrix.

### Details

This class is a subclass which show dialog boxes of a scatter plot matrix for graphics editing.

### Fields

[top](#): tkwin class object; parent of widget window.  
[alternateFrame](#): tkwin class object; a special frame for some GUI parts.  
[vbbox1](#): variableboxes class object; the frame to select variables.  
[lbbox1](#): textfields class object; the frame to set the main title.  
[rbbox1](#): radioboxes class object; the frame to set the smoothing type.  
[tbbox1](#): toolbox class object; the frame to set the font, the colour set, other option, and the theme.



**Contains**

NULL

**Methods**

`plotWindow()`: Create the window that make plots.  
`savePlot(plot)`: Save the plot.  
`registRmList(object)`: Register deletable temporary objects.  
`removeRmList()`: Remove registered temporary objects.  
`setFront()`: Set front parts of frames.  
`setBack()`: Set back parts of frames.  
`getWindowTitle()`: Get the title of the window.  
`getHelp()`: Get the title of the help document.  
`getParms()`: Get graphics settings parameters.  
`checkTheme(index)`: Check themes.  
`checkVariable(var)`: Check a variable length.  
`checkError(parms)`: Check errors.  
`setDataframe(parms)`: Set data frames.  
`getGgplot(parms)`: Get ggplot.  
`getGeom(parms)`: Get geom.  
`getScale(parms)`: Get scale.  
`getCoord(parms)`: Get coord.  
`getFacet(parms)`: Get facet.  
`getXlab(parms)`: Get xlab.  
`getYlab(parms)`: Get ylab.  
`getZlab(parms)`: Get zlab.  
`getMain(parms)`: Get the main label.  
`getTheme(parms)`: Get theme.  
`getOpts(parms)`: Get other opts.  
`getPlot(parms)`: Get the plot object.  
`getMessage()`: Get the plot error message.

**See Also**

Other plot: [box-class](#), [checkError](#), [plot\\_base-method](#), [checkTheme](#), [plot\\_base-method](#), [checkVariable](#), [plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord](#), [plot\\_base-method](#), [getFacet](#), [plot\\_base-method](#), [getGeom](#), [plot\\_base-method](#), [getGgplot](#), [plot\\_base-method](#), [getHelp](#), [plot\\_base-method](#), [getMain](#), [plot\\_base-method](#), [getMessage](#), [plot\\_base-method](#), [getOpts](#), [plot\\_base-method](#), [getParms](#), [plot\\_base-method](#), [getPlot](#), [plot\\_base-method](#), [getScale](#), [plot\\_base-method](#), [getTheme](#), [plot\\_base-method](#), [getWindowTitle](#), [plot\\_base-method](#), [getXlab](#), [plot\\_base-method](#), [getYlab](#), [plot\\_base-method](#), [getZlab](#), [plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow](#), [plot\\_base-method](#), [qq-class](#), [registRmList](#), [plot\\_base-method](#), [removeRmList](#), [plot\\_base-method](#), [savePlot](#), [plot\\_base-method](#), [scatter-class](#), [setBack](#), [plot\\_base-method](#), [setDataframe](#), [plot\\_base-method](#), [setFront](#), [plot\\_base-method](#)

---

setBack,plot\_base-method

*Set Back Parts*

---

### Description

setBack method sets back parts of frames.

### See Also

Other plot: [box-class](#), [checkError,plot\\_base-method](#), [checkTheme,plot\\_base-method](#), [checkVariable,plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord,plot\\_base-method](#), [getFacet,plot\\_base-method](#), [getGeom,plot\\_base-method](#), [getGgplot,plot\\_base-method](#), [getHelp,plot\\_base-method](#), [getMain,plot\\_base-method](#), [getMessage,plot\\_base-method](#), [getOpts,plot\\_base-method](#), [getParms,plot\\_base-method](#), [getPlot,plot\\_base-method](#), [getScale,plot\\_base-method](#), [getTheme,plot\\_base-method](#), [getWindowTitle,plot\\_base-method](#), [getXlab,plot\\_base-method](#), [getYlab,plot\\_base-method](#), [getZlab,plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow,plot\\_base-method](#), [qq-class](#), [registRmList,plot\\_base-method](#), [removeRmList,plot\\_base-method](#), [savePlot,plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setDataframe,plot\\_base-method](#), [setFront,plot\\_base-method](#)

---

setDataframe,plot\_base-method

*Set Data Frames*

---

### Description

setDataframe method sets data frames.

### Arguments

parms                    List of objects; graphics settings parameters.

### See Also

Other plot: [box-class](#), [checkError,plot\\_base-method](#), [checkTheme,plot\\_base-method](#), [checkVariable,plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord,plot\\_base-method](#), [getFacet,plot\\_base-method](#), [getGeom,plot\\_base-method](#), [getGgplot,plot\\_base-method](#), [getHelp,plot\\_base-method](#), [getMain,plot\\_base-method](#), [getMessage,plot\\_base-method](#), [getOpts,plot\\_base-method](#), [getParms,plot\\_base-method](#), [getPlot,plot\\_base-method](#), [getScale,plot\\_base-method](#), [getTheme,plot\\_base-method](#), [getWindowTitle,plot\\_base-method](#), [getXlab,plot\\_base-method](#), [getYlab,plot\\_base-method](#), [getZlab,plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow,plot\\_base-method](#), [qq-class](#), [registRmList,plot\\_base-method](#), [removeRmList,plot\\_base-method](#), [savePlot,plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack,plot\\_base-method](#), [setFront,plot\\_base-method](#)

---

 setFront,plot\_base-method

*Set Front Parts*


---

### Description

setFront method sets front parts of frames.

### See Also

Other plot: [box-class](#), [checkError,plot\\_base-method](#), [checkTheme,plot\\_base-method](#), [checkVariable,plot\\_base-method](#), [contour-class](#), [discretebar-class](#), [dist-class](#), [factorize-class](#), [getCoord,plot\\_base-method](#), [getFacet,plot\\_base-method](#), [getGeom,plot\\_base-method](#), [getGgplot,plot\\_base-method](#), [getHelp,plot\\_base-method](#), [getMain,plot\\_base-method](#), [getMessage,plot\\_base-method](#), [getOpts,plot\\_base-method](#), [getParms,plot\\_base-method](#), [getPlot,plot\\_base-method](#), [getScale,plot\\_base-method](#), [getTheme,plot\\_base-method](#), [getWindowTitle,plot\\_base-method](#), [getXlab,plot\\_base-method](#), [getYlab,plot\\_base-method](#), [getZlab,plot\\_base-method](#), [hist-class](#), [km-class](#), [line-class](#), [pie-class](#), [plot\\_base-class](#), [plotWindow,plot\\_base-method](#), [qq-class](#), [registRmlist,plot\\_base-method](#), [removeRmlist,plot\\_base-method](#), [savePlot,plot\\_base-method](#), [scatter-class](#), [scattermat-class](#), [setBack,plot\\_base-method](#), [setDataframe,plot\\_base-method](#)

---

 textfield-class

*Text Field Subclass*


---

### Description

textfield class is a subclass for GUI text field frame.

### Details

This class is a subclass which make GUI text field frame.

### Fields

frame: tkwin class object; parent of widget window.

length: Integer; number of grids.

back\_list: List of tkwin class object; list of grids.

value: TclVar class object; the value of the text field frame.

### Contains

gparts\_base

### Methods

back(perline = 3): back method for gparts\_base class.

front(top, initialValue, boxwidth, title): front method for textfield subclass.

**See Also**

Other guiparts: [back](#), [gparts\\_base-method](#), [checkboxes-class](#), [front](#), [checkboxes-method](#), [front](#), [radioboxes-method](#), [front](#), [textfield-method](#), [front](#), [textfields-method](#), [front](#), [toolbox-method](#), [front](#), [variableboxes-method](#), [gparts\\_base-class](#), [radioboxes-class](#), [textfields-class](#), [toolbox-class](#), [variableboxes-class](#)

---

textfields-class

*Multiple Text Fields Subclass*


---

**Description**

textfields class is a subclass for GUI multiple text fields frame.

**Details**

This class is a subclass which make GUI multiple text fields frame.

**Fields**

frame: tkwin class object; parent of widget window.

length: Integer; number of grids.

back\_list: List of tkwin class object; list of grids.

fields: List of textfield class object; list of textfield.

**Contains**

gparts\_base

**Methods**

back(perline = 3): back method for gparts\_base class.

front(top, initialValues, titles, boxwidth = "20"): front method for textfields subclass.

**See Also**

Other guiparts: [back](#), [gparts\\_base-method](#), [checkboxes-class](#), [front](#), [checkboxes-method](#), [front](#), [radioboxes-method](#), [front](#), [textfield-method](#), [front](#), [textfields-method](#), [front](#), [toolbox-method](#), [front](#), [variableboxes-method](#), [gparts\\_base-class](#), [radioboxes-class](#), [textfield-class](#), [toolbox-class](#), [variableboxes-class](#)

---

|               |  |
|---------------|--|
| theme_natrisk | <i>A Theme for No of At Risk in Kaplan-Meier Plots</i> |
|---------------|--|

---

**Description**

These functions generate graphics themes for no of at risk in Kaplan-Meier Plots.

**Usage**

```
theme_natrisk(base_theme, base_size = 20,  
              base_family = "")
```

**Arguments**

|             |                  |
|-------------|------------------|
| base_size   | base font size   |
| base_family | font family name |
| base_theme  | base theme name  |

**See Also**

[ggplot](#)

---

|                 |  |
|-----------------|--|
| theme_natrisk21 | <i>A Theme for No of At Risk in Kaplan-Meier Plots</i> |
|-----------------|--|

---

**Description**

These functions generate graphics themes for no of at risk in Kaplan-Meier Plots.

**Usage**

```
theme_natrisk21(base_theme, base_size = 20,  
                base_family = "")
```

**Arguments**

|             |                  |
|-------------|------------------|
| base_size   | base font size   |
| base_family | font family name |
| base_theme  | base theme name  |

**See Also**

[ggplot](#)

---

|                 |  |
|-----------------|--|
| theme_natriskbg | <i>A Theme for No of At Risk in Kaplan-Meier Plots</i> |
|-----------------|--|

---

**Description**

These functions generate graphics themes for no of at risk in Kaplan-Meier Plots.

**Usage**

```
theme_natriskbg(base_theme, base_size = 20,  
               base_family = "")
```

**Arguments**

|             |                  |
|-------------|------------------|
| base_size   | base font size   |
| base_family | font family name |
| base_theme  | base theme name  |

**See Also**

[ggplot](#)

---

|              |                                       |
|--------------|---------------------------------------|
| theme_simple | <i>A Simple Black and White Theme</i> |
|--------------|---------------------------------------|

---

**Description**

A Simple Black and White Theme

**Usage**

```
theme_simple(base_size = 16, base_family = "")
```

**Arguments**

|             |                  |
|-------------|------------------|
| base_size   | base font size   |
| base_family | font family name |

**See Also**

[ggplot](#)

---

|           |   |
|-----------|---|
| theme_ws2 | <i>A Wrapper Theme for ggthemes's theme_ws2</i> |
|-----------|---|

---

**Description**

A Wrapper Theme for ggthemes's theme\_ws2

**Usage**

```
theme_ws2(base_size = 16, base_family = "")
```

**Arguments**

|             |                  |
|-------------|------------------|
| base_size   | base font size   |
| base_family | font family name |

**See Also**

[ggplot theme\\_ws2](#)

---

|               |                          |
|---------------|--------------------------|
| toolbox-class | <i>Tool Box Subclass</i> |
|---------------|--------------------------|

---

**Description**

toolbox class is a subclass for GUI tool box frame.

**Details**

This class is a subclass which make GUI tool box frame.

**Fields**

frame: tkwin class object; parent of widget window.  
length: Integer; number of grids.  
back\_list: List of tkwin class object; list of grids.  
size: textfield class object; the value of the font size frame.  
family: listbox class object; the value of the font family frame.  
colour: listbox class object; the value of the colour set frame.  
goption: checkboxes class object; values of other options frame.  
theme: radioboxes class object; the value of the graph theme frame.

**Contains**

gparts\_base

**Methods**

back(perline = 3): back method for gparts\_base class.

front(top, showcolourbox = TRUE, fontSize = unlist(options("kmg2FontSize")), fontSize = unlist(options("kmg2FontSize")), fontColor = unlist(options("kmg2FontColor"))): front method for toolbox subclass.

**See Also**

Other guiparts: [back](#), [gparts\\_base-method](#), [checkboxes-class](#), [front](#), [checkboxes-method](#), [front](#), [radioboxes-method](#), [front](#), [textfield-method](#), [front](#), [textfields-method](#), [front](#), [toolbox-method](#), [front](#), [variableboxes-method](#), [gparts\\_base-class](#), [radioboxes-class](#), [textfield-class](#), [textfields-class](#), [variableboxes-class](#)

---

variableboxes-class    *Variable Boxes Subclass*

---

**Description**

variableboxes class is a subclass for GUI variable box frame.

**Details**

This class is a subclass which make GUI variable box frame.

**Fields**

frame: tkwin class object; parent of widget window.

length: Integer; number of grids.

back\_list: List of tkwin class object; list of grids.

variable: List of listbox class object; variables of the variable box frame.

**Contains**

gparts\_base

**Methods**

back(perline = 3): back method for gparts\_base class.

front(top, types, titles, modes = "default"): front method for variableboxes subclass.



**See Also**

Other guiparts: [back](#), [gparts\\_base-method](#), [checkboxes-class](#), [front](#), [checkboxes-method](#), [front](#), [radioboxes-method](#), [front](#), [textfield-method](#), [front](#), [textfields-method](#), [front](#), [toolbox-method](#), [front](#), [variableboxes-method](#), [gparts\\_base-class](#), [radioboxes-class](#), [textfield-class](#), [textfields-class](#), [toolbox-class](#)

---

|           |  |
|-----------|--|
| windowBox | <i>Wrapper Function of Box Plot Subclass</i> |
|-----------|--|

---

**Description**

windowBox function is a wrapper function of box class for the R-commander menu bar.

**Usage**

```
windowBox()
```

---

|               |  |
|---------------|--|
| windowContour | <i>Wrapper Function of Contour Plot Subclass</i> |
|---------------|--|

---

**Description**

windowContour function is a wrapper function of contour class for the R-commander menu bar.

**Usage**

```
windowContour()
```

---

|                   |   |
|-------------------|---|
| windowDiscretebar | <i>Wrapper Function of Discrete Bar Charts Subclass</i> |
|-------------------|---|

---

**Description**

windowDiscretebar function is a wrapper function of discretebar class for the R-commander menu bar.

**Usage**

```
windowDiscretebar()
```

---

|                |  |
|----------------|--|
| windowDistBeta | <i>Wrapper Function of Beta Distribution Plot Subclass</i> |
|----------------|--|

---

**Description**

windowDistBeta function is a wrapper function of `dist` class for the R-commander menu bar.

**Usage**

```
windowDistBeta()
```

---

|                 |  |
|-----------------|--|
| windowDistBinom | <i>Wrapper Function of Binomial Distribution Plot Subclass</i> |
|-----------------|--|

---

**Description**

windowDistBinom function is a wrapper function of `dist` class for the R-commander menu bar.

**Usage**

```
windowDistBinom()
```

---

|                  |  |
|------------------|--|
| windowDistCauchy | <i>Wrapper Function of Cauchy Distribution Plot Subclass</i> |
|------------------|--|

---

**Description**

windowDistCauchy function is a wrapper function of `dist` class for the R-commander menu bar.

**Usage**

```
windowDistCauchy()
```

---

|                 |  |
|-----------------|--|
| windowDistChisq | <i>Wrapper Function of Chi-square Distribution Plot Subclass</i> |
|-----------------|--|

---

**Description**

windowDistChisq function is a wrapper function of `dist` class for the R-commander menu bar.

**Usage**

```
windowDistChisq()
```

---

|               |   |
|---------------|---|
| windowDistExp | <i>Wrapper Function of Exponential Distribution Plot Subclass</i> |
|---------------|---|

---

**Description**

windowDistExp function is a wrapper function of dist class for the R-commander menu bar.

**Usage**

```
windowDistExp()
```

---

|             |   |
|-------------|---|
| windowDistF | <i>Wrapper Function of F Distribution Plot Subclass</i> |
|-------------|---|

---

**Description**

windowDistF function is a wrapper function of dist class for the R-commander menu bar.

**Usage**

```
windowDistF()
```

---

|                 |   |
|-----------------|---|
| windowDistGamma | <i>Wrapper Function of Gamma Distribution Plot Subclass</i> |
|-----------------|---|

---

**Description**

windowDistGamma function is a wrapper function of dist class for the R-commander menu bar.

**Usage**

```
windowDistGamma()
```

---

|                |   |
|----------------|---|
| windowDistGeom | <i>Wrapper Function of Geometric Distribution Plot Subclass</i> |
|----------------|---|

---

**Description**

windowDistGeom function is a wrapper function of dist class for the R-commander menu bar.

**Usage**

```
windowDistGeom()
```

---

|                 |  |
|-----------------|--|
| windowDistHyper | <i>Wrapper Function of Hypergeometric Distribution Plot Subclass</i> |
|-----------------|--|

---

**Description**

windowDistHyper function is a wrapper function of `dist` class for the R-commander menu bar.

**Usage**

```
windowDistHyper()
```

---

|                 |  |
|-----------------|--|
| windowDistLnorm | <i>Wrapper Function of Log-normal Distribution Plot Subclass</i> |
|-----------------|--|

---

**Description**

windowDistLnorm function is a wrapper function of `dist` class for the R-commander menu bar.

**Usage**

```
windowDistLnorm()
```

---

|                 |  |
|-----------------|--|
| windowDistLogis | <i>Wrapper Function of Logistic Distribution Plot Subclass</i> |
|-----------------|--|

---

**Description**

windowDistLogis function is a wrapper function of `dist` class for the R-commander menu bar.

**Usage**

```
windowDistLogis()
```

---

|                  |   |
|------------------|---|
| windowDistNbinom | <i>Wrapper Function of Negative Binomial Distribution Plot Subclass</i> |
|------------------|---|

---

**Description**

windowDistNbinom function is a wrapper function of `dist` class for the R-commander menu bar.

**Usage**

```
windowDistNbinom()
```

---

|                |  |
|----------------|--|
| windowDistNorm | <i>Wrapper Function of Normal Distribution Plot Subclass</i> |
|----------------|--|

---

**Description**

windowDistNorm function is a wrapper function of dist class for the R-commander menu bar.

**Usage**

```
windowDistNorm()
```

---

|                |   |
|----------------|---|
| windowDistPois | <i>Wrapper Function of Poisson Distribution Plot Subclass</i> |
|----------------|---|

---

**Description**

windowDistPois function is a wrapper function of dist class for the R-commander menu bar.

**Usage**

```
windowDistPois()
```

---

|             |   |
|-------------|---|
| windowDistT | <i>Wrapper Function of t Distribution Plot Subclass</i> |
|-------------|---|

---

**Description**

windowDistT function is a wrapper function of dist class for the R-commander menu bar.

**Usage**

```
windowDistT()
```

---

|                |   |
|----------------|---|
| windowDistUnif | <i>Wrapper Function of Uniform Distribution Plot Subclass</i> |
|----------------|---|

---

**Description**

windowDistUnif function is a wrapper function of dist class for the R-commander menu bar.

**Usage**

```
windowDistUnif()
```

---

|                   |   |
|-------------------|---|
| windowDistWeibull | <i>Wrapper Function of Weibull Distribution Plot Subclass</i> |
|-------------------|---|

---

**Description**

windowDistWeibull function is a wrapper function of dist class for the R-commander menu bar.

**Usage**

```
windowDistWeibull()
```

---

|                 |   |
|-----------------|---|
| windowFactorize | <i>Wrapper Function of Factorize Subclass</i> |
|-----------------|---|

---

**Description**

windowFactorize function is a wrapper function of factorize class for the R-commander menu bar.

**Usage**

```
windowFactorize()
```

---

|            |   |
|------------|---|
| windowHist | <i>Wrapper Function of Histogram Subclass</i> |
|------------|---|

---

**Description**

windowHist function is a wrapper function of hist class for the R-commander menu bar.

**Usage**

```
windowHist()
```

---

|          |   |
|----------|---|
| windowKM | <i>Wrapper Function of Kaplan-Meier Plot Subclass</i> |
|----------|---|

---

**Description**

windowKM function is a wrapper function of km class for the R-commander menu bar.

**Usage**

```
windowKM()
```

---

|            |  |
|------------|--|
| windowLine | <i>Wrapper Function of Line Chart Subclass</i> |
|------------|--|

---

**Description**

windowScatter function is a wrapper function of line class for the R-commander menu bar.

**Usage**

```
windowLine()
```

---

|           |  |
|-----------|--|
| windowPie | <i>Wrapper Function of Pie Charts Subclass</i> |
|-----------|--|

---

**Description**

windowPie function is a wrapper function of pie class for the R-commander menu bar.

**Usage**

```
windowPie()
```

---

|          |  |
|----------|--|
| windowQQ | <i>Wrapper Function of Q-Q Plot Subclass</i> |
|----------|--|

---

**Description**

windowQQ function is a wrapper function of qq class for the R-commander menu bar.

**Usage**

```
windowQQ()
```

---

|               |  |
|---------------|--|
| windowScatter | <i>Wrapper Function of Scatter Plot Subclass</i> |
|---------------|--|

---

**Description**

windowScatter function is a wrapper function of scatter class for the R-commander menu bar.

**Usage**

```
windowScatter()
```

---

|                  |   |
|------------------|---|
| windowScattermat | <i>Wrapper Function of Scatter Plot Matrix Subclass</i> |
|------------------|---|

---

**Description**

windowScattermat function is a wrapper function of scattermat class for the R-commander menu bar.

**Usage**

```
windowScattermat()
```



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