Package ‘tkrplot’

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Description Simple mechanism for placing R graphics in a Tk widget.
Title TK Rplot
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Description

Placing R graphics in a Tk image.

Usage

  tkrplot(parent, fun, hscale=1, vscale=1)
  tkrreplot(lab, fun = lab$fun, hscale=lab$hscale, vscale=lab$vscale)
  tkpersp(x,y,z, theta = 30,phi = 30,expand = 0.5, r = sqrt(3), ...)

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Arguments

- **parent**: parent of widget window
- **fun**: function of no arguments that creates the plot
- **lab**: a Tk Rplot label widget
- **hscale**: horizontal scale factor for image size
- **vscale**: vertical scale factor for image size
- **x**: as for `persp`
- **y**: as for `persp`
- **z**: as for `persp`
- **theta**: as for `persp`
- **phi**: as for `persp`
- **expand**: as for `persp`
- **r**: as for `persp`
- **...**: additional arguments for `persp`

Details

The function `tkrplot` creates and returns a Tk label widget containing a Tk image of type Rplot. For now the size is hard-wired. The plot is created by calling `fun` with a special device used to create the image.

The function `tkrreplot` calls `fun` to place a new plot in the Rplot widget `lab`.

`tkpersp` is called like `persp` but produces a plot in which some of the parameters of `persp` are controlled graphically.

Examples

```r
## Not run:  
## These cannot be run by examples() but should be OK when pasted  
## into an interactive R session with the tcltk package loaded  

tt <- tktoplevel()  
bb <- 1  
img <- tkrplot(tt, function() plot(1:20,(1:20)^bb))  
f <- function(...) {  
  b <- as.numeric(tclvalue("bb"))  
  if (b != bb) {  
    bb <<- b  
    tkrreplot(img)  
  }  
}  
s <- tkscale(tt, command=f, from=0.05, to=2.00, variable="bb",  
             showvalue=FALSE, resolution=0.05, orient="horiz")  
tkpack(img,s)  
## End(Not run)
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