The tkrplot Package

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Description simple mechanism for placing R graphics in a Tk widget

Title TK Rplot

Depends R (>= 2.2), grDevices

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TkRplot

Tk Rplot

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), ...)

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 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 <- tktopleft()
b <- 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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