Package: tkrplot (via r-universe)

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

Title TK Rplot

Depends R (>= 2.13), grDevices, tcltk

License GPL

SystemRequirements Windows or X11

NeedsCompilation yes

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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), ...)
.my.tkdev(hscale = 1, vscale = 1)
.make.tkindex()
```

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.

.my.tkdev and .make.tkindex are useful for defining new functions like tkrplot.

Examples

```
## 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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