Package 'Homeric'

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Type Package

Title Doughnut Plots

Version 0.1-3

Date 2016-07-11

Author Lawrence Hudson

Maintainer Lawrence Hudson <quicklizard@googlemail.com>

Description A simple implementation of doughnut plots -
pie charts with a blank center. The package is named after Homer Simpson - arguably the best-known lover of doughnuts.

License GPL-2

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`Homeric-package` *Doughnut Plots*

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Author(s)

Lawrence Hudson Maintainer: Lawrence Hudson <quicklizard@googlemail.com>

Examples

```
par(mar=rep(0,4), oma=rep(0, 4))
PlotDoughnut(1:5)
```

PlotDoughnut *Plot doughnut*

Description

Plot values as a doughnut.

Usage

```
PlotDoughnut(
    values,
    clockwise=TRUE,
    origin.degrees=0,
    radius=1,
    thickness=0.5,
    frame.plot=FALSE,
    xlim=c(-radius, radius),
    ylim=c(-radius, radius),
    col=NULL,
    n=2500,
```

```
    centre.text=NULL,
    centre.cex=par('cex'),
    centre.col='black',
    labels=names(values),
    labels.cex=par('cex'),
    labels.col='black',
    labels.radius=radius-thickness/2,
    to.degrees=360,
    ...)
```

Arguments

values	values to be plotted.
clockwise	if TRUE values are plotted clockwise.
origin.degrees	clockwise number of degrees, starting at 12 o'clock, at which the first value is plotted.
radius	radius of the outside of the doughnut.
thickness	thickness of the doughnut.
frame.plot	if TRUE a frame is drawn.
xlim	the x limits of the plot.
ylim	the y limits of the plot.
col	colours of the segments.
n	number of points that make up the inside and outside of the circles.
centre.text	text to be plotted inside the doughnut.
centre.cex	character expansion factor of the centre text.
centre.col	colour of the centre text.
labels	labels to be plotted within each.
labels.cex	character expansion factor of the labels.
labels.col	colour of the labels.
labels.radius	radius at which labels will be plotted.
to.degrees	a value of 360 plots a complete doughnut; 180 plots half a doughnut.
...	other values to be passed to plotting functions.

Details

Plots 'values' in a doughnut. 'PlotDonut' is a synonym for 'PlotDoughnut'.

Author(s)

Lawrence Hudson

Examples

```
# Six presentations of the same data
v <- c(25, 25, 12.5, 12.5, 25)
names(v) <- LETTERS[1:length(v)]
par(mfrow=c(2, 3), mar=c(0, 0, 0, 0), oma=c(0, 0, 5, 0))
PlotDoughnut(v, centre.text='Doughnut')
PlotDoughnut(v, centre.text='Counter-clockwise', clockwise=FALSE)
PlotDoughnut(v, centre.text=~Origin~at~90^o, origin.degrees=90)
PlotDoughnut(v, centre.text='Half nut', to.degrees=180, origin=-90)
PlotDoughnut(v, centre.text='Side nut', to.degrees=180, origin=0)
PlotDoughnut(v, centre.text='Taken a bite', to.degrees=270, origin=-45,
    clockwise=FALSE, thickness=0.1)
title(main='You doughnut', outer=TRUE, cex.main=3)
```

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