Cartography::Thematic cartography package

Description:

The purpose of cartography is to visualize the thematic maps. It also offers several features that improve the graphic presentation of maps. It uses sf to produce base graphics.

install.packages("cartography")
library(cartography)
library(sf)
library(ggplot)

Transformation:



Polygons to Grid:



mtq_pencil <- getPencilLayer(x = mtq)



Polygons to Border:

mtq.borders <- getBorders(x = mtq)

Map layout:



Full layout:

North arrow:

north(pos = "topright")

Scale Bar:

Barscale(size = 10)

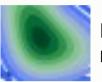
Symbology:



Typology: typoLayer(x = mtq, var " ")



Choropleth: choroLayer(x =mtq, var = "", method = "", nclass=, col = carto.pal(pal1="", n1 = 5)



library(GADMTools)

Isopleth: isopleth(mtq, data= " ",
palette = (RColorBrewer: :brewer.pal())



Label map: labelLayer(x=mtq, txt = "LIBGEO", col= "black", cex= 0.5, font=1, halo= TRUE, bg= "white", overlap= FALSE)



Proportional symbols:

propSymbolsLayer(x=mtq, var=" ",
inches= 0.3, symbols="square")

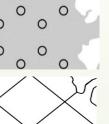


Double proportional symbols:

propTrianglesLayer(x=mtq, var1 = " ",
var2= " ")



Link map: getLinkLayer(x=mtq,
xid= " ", df = , dfid= c("", "")



Hatched Layer:
hatchedLayer(mtq, "dot")

(mtq, "diamond",
density =0.5)

Legends:

values.rnd=0, style="e")



Legend for Proportional Bars Maps

100 67

Legend for Graduated Size Lines Man

15 10 5

Legend for Proportional Circles Maps



Legend for Proportional Circles Maps



~Legend for Graduated Size Lines Maps~ legendGradLines(title.txt = "Legend for Graduated Size Lines Maps", pos = "topright", title.cex = 0.8, values.cex = 0.6, breaks = c(0,1,5,10,15,20), lwd = c(0.2,2,4,5,10), col = "blue", values.rnd = 2)

~Legend for Proportional Bars Maps~

="Legend for Proportional Bars Maps", title.cex

=0.8, cex= 1, border= "grey", lwd= 1, values.cex=

legendBarsSymbols(pos="topleft", title.txt

0.6, var= c(), inches= 0.5, col= "green",

~Legend for Proportional Cicles Maps~

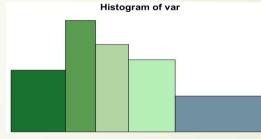
legendCirclesSymbols(pos = "topleft", inches = 0.1,
var = c(min(0), max(100)), title.txt = "Legend"

legendCirclesSymbols(pos = "left", var = c(min(5), max(50)), inches = 0.1, style = "e", title.txt = "Legend for Proportional Circles Maps")

See more of the legends: Legend Typo, Hatched, Waffle, Choro, and Prop triangles.

Classifications:

for Proportional Circles Maps")



Quantile intervals

breaks <- getBreaks(v = var, nclass = 6, method = "quantile") pal <- carto.pal("green.pal",3, "turquoise.pal", 3) hist(var, probability = TRUE, breaks = breaks, col = "pal")

Options are: sd, equal, pretty, kmeans, fisher, jenks and so on..

Color pallets:

Carto.pal(pal1= "blue.pal", n1=10, pal2= "green.pal", n2=10, middle =TRUE, transparency= TRUE)





Also, check out RcolorBrewer package.