Use cartography with spatial objects from sf or sp packages to create thematic maps.

library(cartography)
library(sf)
mtq <- st_read("martinique.shp")
plotSymbolsLayer(x = mtq, var = "P13_POP", legend.title = "Population", col = "#a7dfb4")

Thematic maps with cartography :: CHEAT SHEET

**Symbology**

In most functions the x argument should be an sf object. sp objects are handled through spdf and df arguments.

- **Choropleth**
  - chorolayer(x = mtq, var = "myvar", method = "quantile", nclass = 8)

- **Typology**
  - typolayer(x = mtq, var = "myvar")

- **Proportional Symbols**
  - propSymbolsLayer(x = mtq, var = "myvar", inches = 0.1, symbols = "circle")

- **Colorized Proportional Symbols**
  - propSymbolsChoroLayer(x = mtq, var = "myvar", var2 = "myvar2")

- **Double Proportional Symbols**
  - propTrianglesLayer(x = mtq, var1 = "myvar", var2 = "myvar2")

- **OpenStreetMap Basemap** (see osm package)
  - tilesLayer(tiles)

- **Isopleth** (see SpatialPosition package)
  - smoothLayer(x = mtq, var = "myvar", typefct = "exponential", span = 500, beta = 2)

- **Discontinuities**
  - discLayer(x = mtq.borders, df = mtq, var = "myvar", threshold = 0.5)

- **Flows**
  - propLinkLayer(x = mtq, df = link, type = "hexagonal", var = "myvar", threshold = 0.5)

- **Dot Density**
  - dotDensityLayer(x = mtq, var = "myvar")

- **Labels**
  - labelLayer(x = mtq, txt = "myvar", halo = TRUE, overlap = FALSE)

**Transformations**

- **Polgons to Grid**
  - mtq_grid <- getGridLayer(x = mtq, cellsize = 3.6e+07, type = "hexagonal", var = "myvar")

- **Points to Links**
  - mtq_link <- getLinkLayer(x = mtq, df = df)

- **Polgons to Borders**
  - mtq_border <- getBorders(x = mtq)

- **Polgons to Pencil Lines**
  - mtq_pen <- getPencilLayer(x = mtq)

**Map Layout**

- **North Arrow**
  - north(pos = "topright")

- **Scale Bar**
  - barscale(size = 5)

- **Full Layout**
  - layoutLayer(title = "Martinique", tabtitle = TRUE, author = "Author", sources = "Sources", north = TRUE, scale = 5)

**Color Palettes**

carto.pal(pal1 = "blue.pal", n1 = 5, pal2 = "sand.pal", n2 = 3)