Thematic maps with mapsf:: cheat sheet

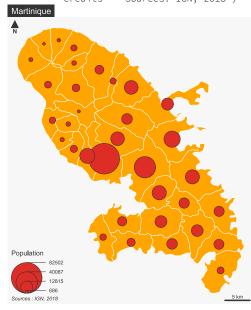
Create and integrate thematic maps in your workflow.

Base map

Import library
library(mapsf)

Import the sample data set
mtq <- mf_get_mtq()</pre>

Plot symbogy



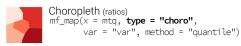
Colors

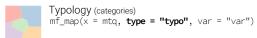
mapsf can use color palettes from hcl.colors(). mf_get_pal() is useful to create well-balanced asymetric diverging palettes

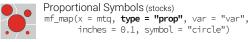
mf_get_pal(n = c(7, 2), pal = c("Burg", "Mint"))

Symbology

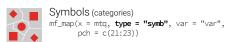
The x argument should be an sf object. Input geometries can be polygons, lines or points.

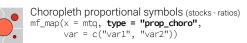




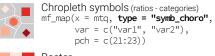








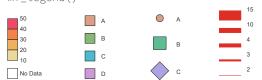






Legend

Default legends are plotted along maps.
Customization parameters are available with mf_legend()



Map Layout

Along with cartographic functions, other functions are dedicated to customize the layout design.



1) Set a map theme (figure margins, colors, title options...)

mf_theme(bg = "white", tab = TRUE,

mar = c(0,0,0,0), pos = "left")

Builtin themes are available: default, ink, dark, agolalight, candy, darkula, iceberg, green, nevermind, jsk or barcelona.

- 3 Import external image for background mf_background(filename = "img/sea.jpg")
- 4 Create a shadow effect mf_shadow(...)
- (5) Create a custom inset
 mf_inset_on(x = mtq, pos = "bottomleft")
 mf_map(...)
 mf inset off()
- (6) Create a world inset
 mf_inset_on(x = "worldmap", pos = "right")
 mf_worldmap(mtq)
 mf_inset_off()
- 7 Plot title mf_title("A beautiful beach")
- 8 Plot labels mf_label(...)
- 9 Plot annotation (in specific locations) mf_annotation(...)
- North arrow mf_arrow(...)
- 11) Scale (in km) mf_scale(...)
- 12) Credits
 mf_credits(...)

Export Maps

mf_export() exports maps in PNG or SVG formats. The exported map width/height ratio will match the one of a spatial object.

Additionally, $mf_export()$ can be used to set a theme, to extend the map space on one or several side of the figure, or to center a map on a specific area.

Extra space on the figure (bottom, left, top, right)

mf_export(x = mtq, width = 500,
filename = "my_export.png",

expandBB = c(0,0.6,0,0)

mf_map(x = mtq, add = TRUE)

Further documentation

Vignettes on mapsf website: riatelab.github.io/mapsf

> Get started

dev.off()

dev.off()

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- > How to Use Themes
- > How to Export Maps
- > How to Create Inset Maps
- > How to Create Hisel Maps
- > How to Create Faceted Maps
- > How to Use a Custom Font Family

