kmaps

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Description

This note documents a code snippet that I use to produce maps like the ones on the next page. It might help people working on European country-level data, which is fairly common in comparative politics.

The code works with the companion dataset and ESRI shapefiles, matched by ISO-2 alphabetical country codes; see README for a description of sources. If you find a way to optimize the code, please let me know.

Packages

You will need R and the rgeos package to read the maps and join them to the data with the fortify function. You will also need ggplot2 and a few other packages to draw the maps with maximum gusta.

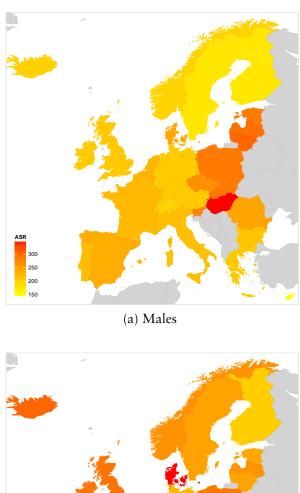
The most important chunk of code follows. It matches the map polygons to the data frame object.

```
map@data$id <- rownames(map@data)
map.points <- fortify(map, region = "id")
map.df <- join(map.points, map@data, by = "id")
map.df <- join(map.df, eco, by = "iso2")</pre>
```

Coordinates

The map is tentatively centred on the European Union by passing Cartesian coordinates to ggplot2. I use a range of [-24, 35] for longitude and [34, 72] for latitude.

The next page shows two examples.



ASR 180 160 140 120 100 (b) Females

Figure 1: Estimated cancer mortality in European countries, 2008. Age-standardised rates for all sites but non-skin melanoma per 100,000 population.

Data: European Cancer Observatory. Maps: GISCO – Eurostat, European Commission, 2006. © EuroGeographics for the administrative boundaries.

Credits

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Typeset with TEX and knitr in RStudio.