## kmap()

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## Description

This is a code snippet that I use to produce maps like the ones on the next page. My current research relies extensively on European health data, for which I provide example data and maps. It might be of help to anyone working on European country-level data, which is fairly common in comparative politics.

The code writes the kmap() function to work with the associated dataset and shapefiles; see README for a description of both. It relies on ISO-2 alphabetical country codes to match them together. I still need to write a full-fledged function to make the data and graphics completely flexible.

## Use

You will need R, your data and a few ESRI shapefiles that can be read with the maptools package.

I am working on an improved version of the code that would use ggplot2 to draw the maps with more gusta.

The kmap function is coded in one line. It accepts:

- v, a variable
- q, a number of quantiles over which to split the data
- xcoord and ycoord, the map coordinates

The map is tentatively centred on the European Union by default. If no quantile is passed to the function, it will output q=4 quartiles. The intervals are returned by the function in object class.

```
> # Lung cancer mortality rates, females
> kmap(eco$mr_lung_f,q=5)
```

The next page shows two examples.

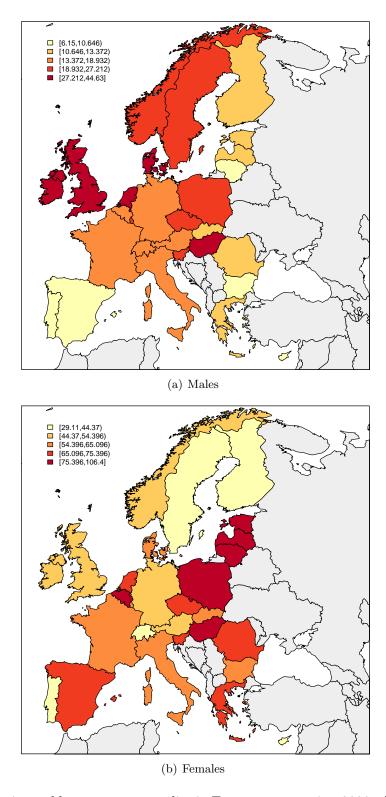


Figure 1: Estimated lung cancer mortality in European countries, 2008. All rates are age-standardised to the European population. Data: European Cancer Observatory. Maps: GISCO - Eurostat, European Commission, 2006.

## Credits

Baptiste Coulmont assisted with the code, and Éric Verdier made encouraging comments on first drafts.