Using package mapoland

Michał Bojanowski
michal2992@gmail.com

Very drafty draft

Abstract

This document shows some examples how to use package mapoland.

Contents

$LastChangedDate: 2010-03-12 19:14:26 +0100 (Fri, 12 Mar 2010) $
$LastChangedRevision: 30 $
$LastChangedBy: mbojan $

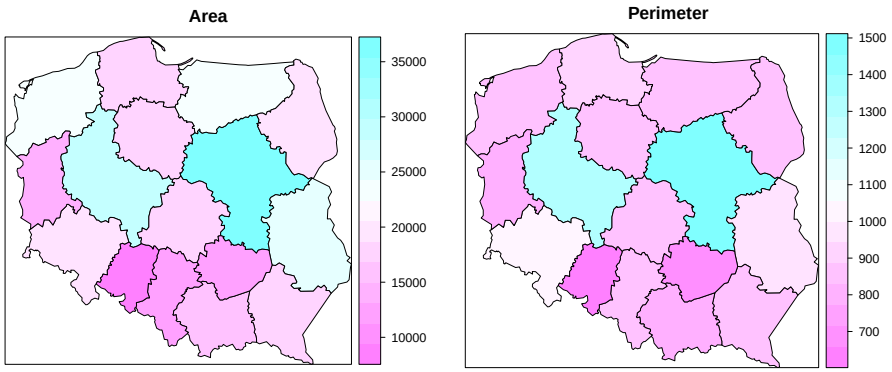

Figure 1: Area and perimeter of voivodships.

1 Methods in package **mapoland**

You can use the function `voivPlot` as a quick way of picturing vectors of numerical data on the map of voivodships.

Let's take the data from the built-in data frame with some voivodships meta data. Safe, warningless strategy is to always set the names on the data vector so that the values are matched properly with the polygons.

```
> a <- structure( voivData$area, names=rownames(voivData))
> a
```

```
       2         4         6         8        10        12        14        16
19811.959 17953.512 24967.242 13897.891 18087.237 15094.854 35423.937  9372.941
      18        20        22        24        26        28        30        32
17752.153 19860.875 18187.755 12256.173 11671.402 24062.894 29810.466 22622.055
```

```
> p <- structure( voivData$perimeter, names=rownames(voivData))
> p
```

```
      2       4       6       8      10      12      14      16
1017.352  852.430  979.159  796.102  874.261  824.362 1455.794  657.401
     18      20      22      24      26      28      30      32
 848.519  839.330  913.339  861.915  670.448  884.376 1294.942  867.074
```

The function `voivPlot` is a wrapper for `spplot` from package sp, which in turn relies on grapics system from grid package. Now we can produce the maps with the following code:[1]

```
> print(voivPlot(a, main="Area"))
> print(voivPlot(p, main="Perimeter"))
```

2 References

Bojanowski, Michal (2009). bojan: Michal Bojanowski's R package. R package version 0.3-0. URL http://www.bojanorama.pl

[1] Calling `print` is not neccessary while in interactive session.

Bojanowski, Michal and Tomasz W. Jerzynski (2010). mapoland: Maps of Poland for data visualization and graphics. R package version 0.2-0. URL http://mapoland.r-forge.r-project.org