

Using package `mapoland`

Michał Bojanowski
michal2992@gmail.com

Very drafty draft

Abstract

This document shows some examples how to use package `mapoland`.

Contents

1	Methods in package <code>mapoland</code>	2
2	References	2

`$LastChangedDate: 2010-03-26 13:13:46 +0100 (Fri, 26 Mar 2010) $`
`$LastChangedRevision: 41 $`
`$LastChangedBy: mbojan $`

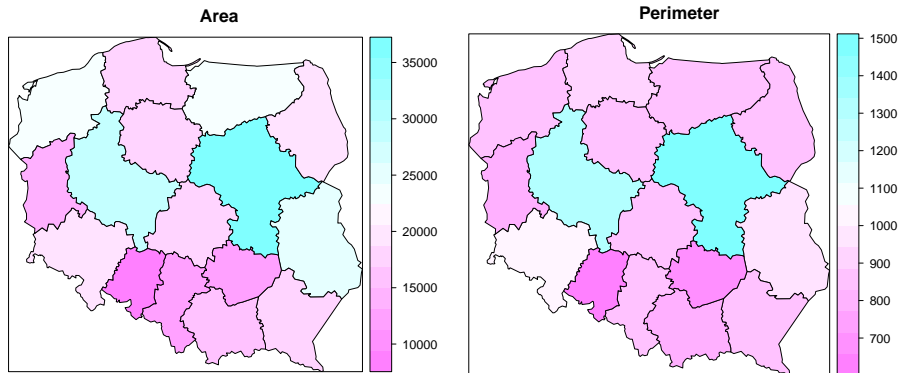


Figure 1: Area and perimeter of voivodships.

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 graphics 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>

¹Calling `print` is not necessary 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>