

tmap: An R Package for thematic maps

by Martijn Tennekes

Abstract A thematic map is a geographical map in which statistical data are visualized. The theme refers to the statistical phenomena that is shown, such as the unemployment rate at municipal level. The best known thematic map type is the choropleth, where regions are coloured according to a statistical variable, for instance unemployment rate or population density. Another popular thematic map type is the bubble map, in which the sizes of the bubbles are defined by a statistical variable, for instance city population.

With the tmap package, thematic maps can be generated with great flexibility. A thematic map is created by stacking layers, for instance one for colouring municipalities, one for thick borders of higher level regions, and one for text labels.

The standard work flow that is needed to create a thematic map is embedded in tmap by several convenient functions for reading, appending, and transforming spatial data.

Introductory section which may include references in parentheses (R Core Team, 2014), or cite a reference such as R Core Team (2014) in the text.

Introduction

Bla bla bla test Tennekes (2015) and (Roger S. Bivand, 2013).

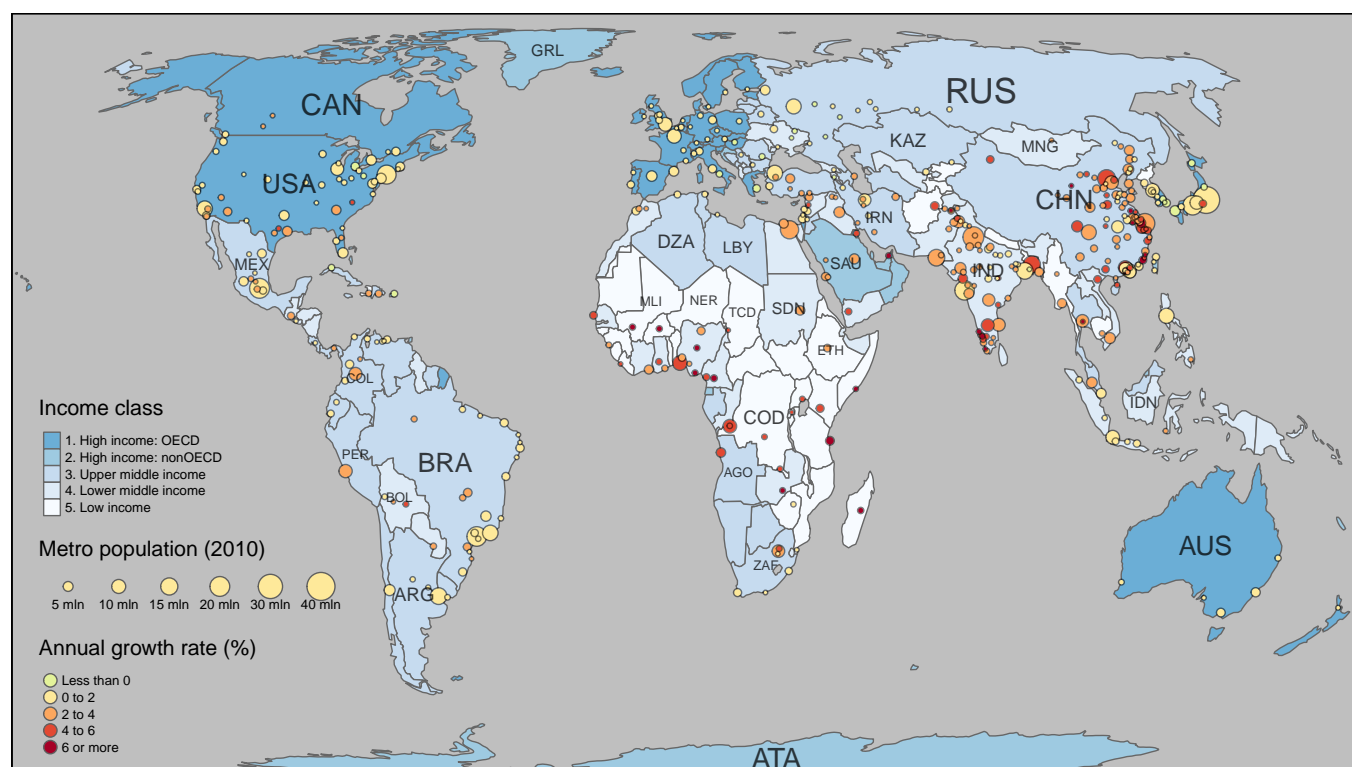


Figure 1: Bubble map.

Another section

There will likely be several sections, perhaps including code snippets, such as:

```
library(tmap)
data(Europe)
qtm(Europe)
```

Summary

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Bibliography

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- M. Tennekes. *tmap: Thematic Maps*, 2015. URL <http://CRAN.R-project.org/package=tmap>. R package version 0.7. [p1]