

Interesting Geo Links

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Learning R

- ▶ Learning R
- ▶ Useful tutorials

Making maps

- ▶ A very comprehensive tutorial was published by Francisco Rodriguez-Sanchez.
- ▶ Hints on the usage of OpenStreetMap data with R
- ▶ Task view for mapping tools
- ▶ Another Intro on making maps
- ▶ Robinlovelace - Open Street Map: loading, analysing and visualising free maps with R and QGIS

< ## Making more maps

Example 1

Example 2

Example 3

Example 4

Example 5

Even more maps. . .

- ▶ World ocean atlas
- ▶ Display of geographic data
- ▶ Use ggmap and maptools to create choropleths

R as GIS

- ▶ R as GIS

More Intros - making maps with R

- ▶ part 1
- ▶ part 3
- ▶ David Kahle's Homepage

Work with OpenStreetMap data

In general (three osm apis)

- ▶ Mapping the world with tweets
- ▶ Ryan Peek - Making Maps
- ▶ Introductory Point Pattern Analysis of Open Crime Data in London
- ▶ Stop and Frisk: Spatial Analysis of Racial Differences
- ▶ Organize a walk around London with R
- ▶ Visualizing GIS data with R and Open Street Map
- ▶ John snow and openstreetmap

Videos on OSM

- ▶ Roland Olbricht: Schatzsuche in OpenStreetMap
- ▶ Claas Leiner: Daten aus OSM extrahieren und in QGIS weiterverarbeiten

Interactive maps

- ▶ Exchange data between R and the Google Maps API using Shiny

Flowing data

- ▶ Where people run

Interesting geolinks

- ▶ gis-mannheim
- ▶ FWTools: Open Source GIS Binary Kit for Windows and Linux
- ▶ More people tweet more
- ▶ Mapping Biomes
- ▶ Openlayers

Twitter and Maps

- ▶ The USA in two words
- ▶ Twitter data analysis

```
library(streamR)
library(twitterR)
library(RCurl)
```

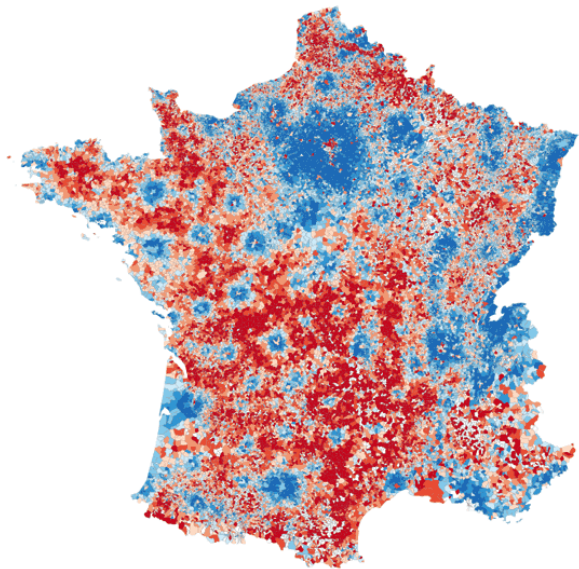
More links

- ▶ [OpenRouteService.org](https://openrouteservice.org/) is in use at BKG
- ▶ Merge Shapefile
- ▶ Football tribes
- ▶ Map projections
- ▶ CartoDB

Spatial statistics

- ▶ Spatial temporal statistics
- ▶ Literature
- ▶ Link course Uni Mannheim
- ▶ PostGIS start

French Map on Income



Further maps

- ▶ Election results
- ▶ point-in-polygon analysis
- ▶ Presentation - spatial
- ▶ R ggmap examples: CloudMade Maps and spatial maps and data visualisation

<http://stackoverflow.com/questions/22387624/ggplot2-with-ggmap-odd-shaped-polygon-r>

<http://www.r-bloggers.com/visualising-crime-hotspots-in-england-and-wales-using-ggmap>

<http://blogs.casa.ucl.ac.uk/category/r-spatial-tips/>

<http://blog.dominodatalab.com/geographic-visualization-with-rs-ggmaps/>

- ▶ wine tasting map
- ▶ rCrimemap
- ▶ Zeit Deutschlandkarte
- ▶ Refugees destination - origin