

Spatial Visualisations

Organisation and Background Information

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Monday, October 13, 2014



Outline

Background information

Assignment of this week

Next assignment

R-package maps

R - modular design

- ▶ This is a big advantage because everybody can create his/her own package - and many have done so
- ▶ Result: growing number of packages
- ▶ Some of them deal with very specific problems.

But modular design can also be a disadvantage

- ▶ because the structure of the package might vary a lot.
- ▶ People have different ideas on how to organize things.
- ▶ We will see this today, when we compare packages maps and maptools.

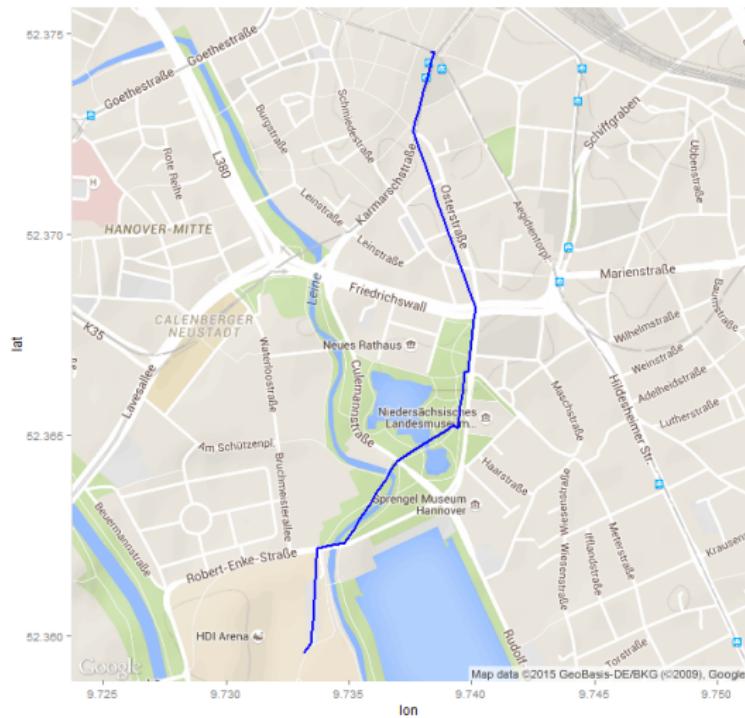
Problems with the installation of packages

- ▶ Info on stackoverflow
- ▶ Installing R-packages without Admin rights
- ▶ Overview Package Installation Problems

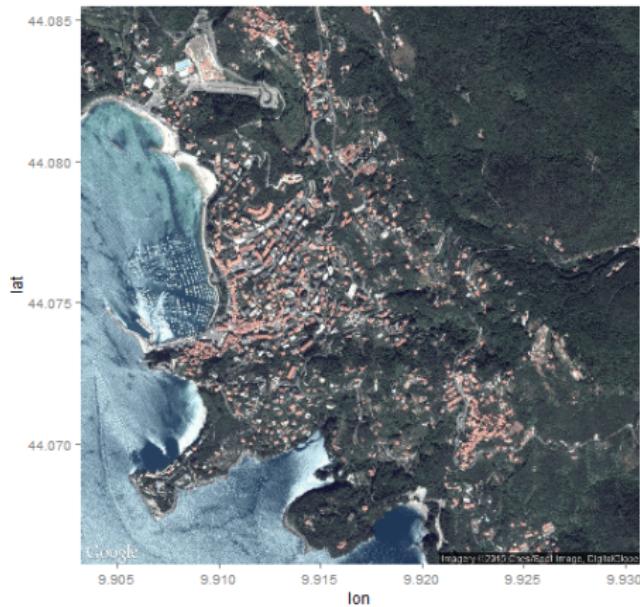
Explain your map in a few words

- ▶ What can be seen?
- ▶ What are interesting points?
- ▶ Did you experienced any problems with the usage of R?

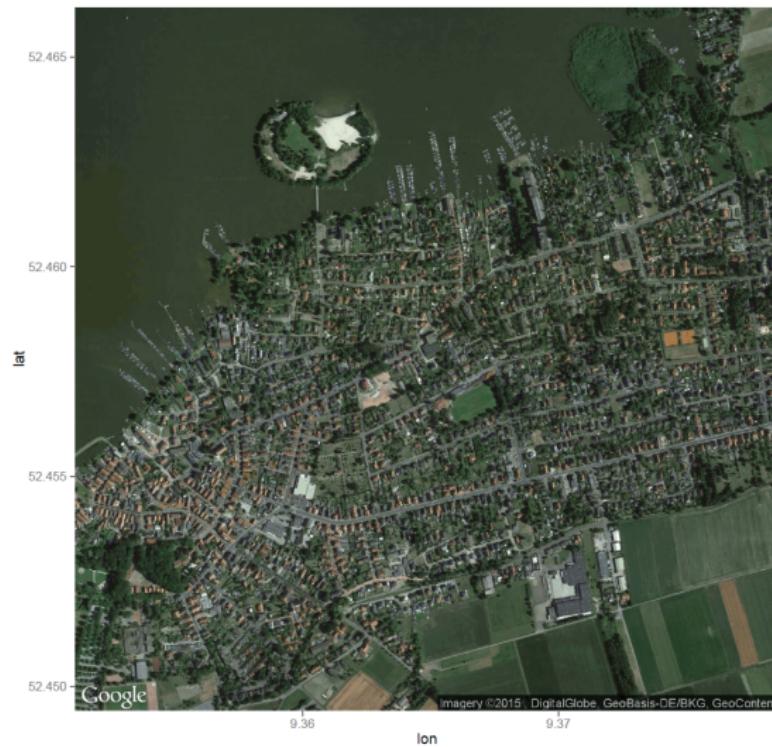
Assignment - Example 1



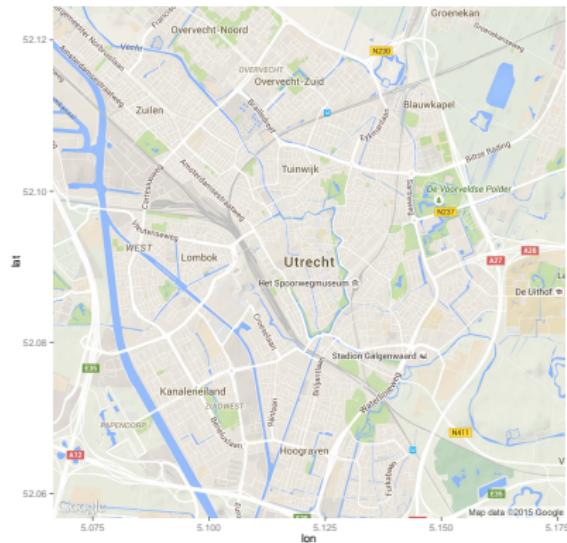
Assignment - Example 2



Assignment - Example 3



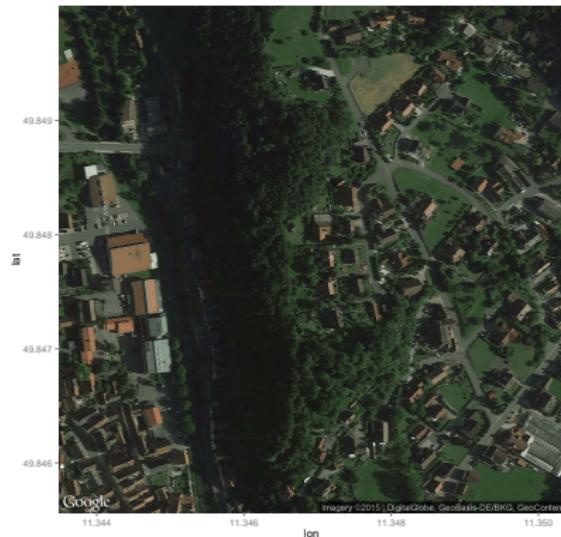
Assignment - Example 4



Assignment - Example 5



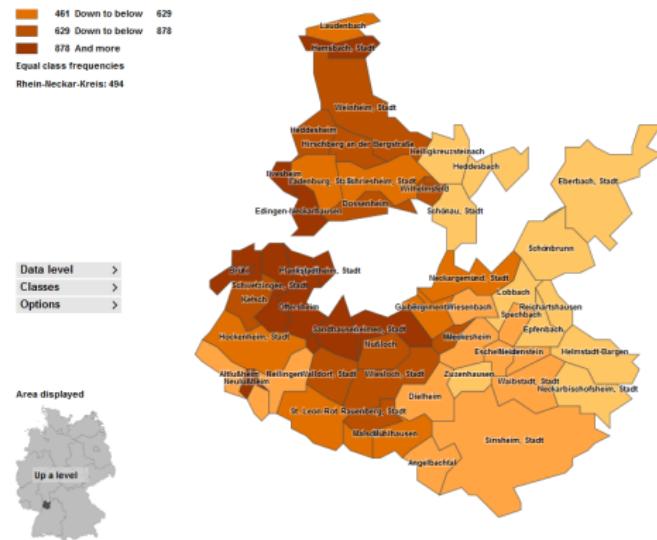
Assignment - Example 6



Assignment for next course (7 October 2015)

- ▶ I will be on a business trip next week - no session next week
- ▶ Please send me two topics for spatial visualisation
- ▶ and explain in few words, why it could be interesting
- ▶ Send the assignment to jakolb@mail.uni-mannheim.de

Census results - Germany



<https://ergebnisse.zensus2011.de/>

Census results - Germany

Welcome to the census database of the Census 2011

How do you want to get the results?

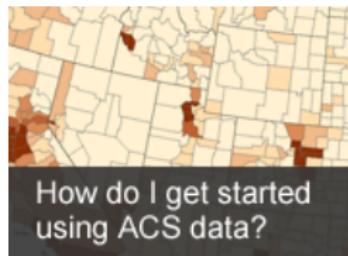
Easy way to results	Dynamic and individual results	Results cartographically and visually
		

[Important information](#)

<https://ergebnisse.zensus2011.de/>

American Community Survey

Data for the American Community Survey:



How do I get started
using ACS data?

<http://www.census.gov/acs/www/>

Download Bulk Census Data for the US

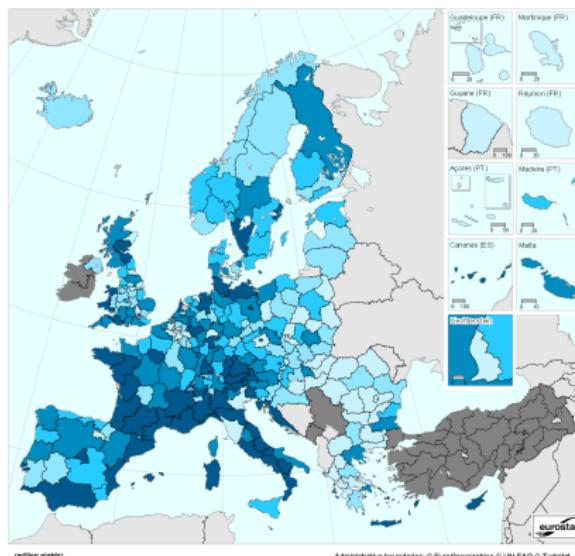
CENSUS.IRE.ORG

<http://census.ire.org/data/bulkdata.html>

Eurostat maps

Nights spent in hotel, campsites etc.

Nights spent in hotels, campsites and other collective accommodation establishments,
by NUTS 2 regions, 2010 (*)
(million nights)



Data from Eurostat

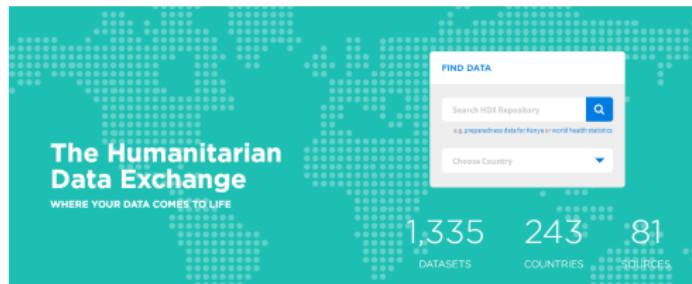
The screenshot shows the Eurostat website interface. At the top, there's a navigation bar with links for 'Register', 'Cookies', 'Links', 'Contact', 'Important legal notice', and language selection ('English (en)'). Below this is a banner with the European Commission logo and the text 'Your key to European statistics'. The main menu includes 'Home', 'Statistics' (which is highlighted in yellow), 'Publications', 'About Eurostat', and 'User support'. On the left, a sidebar titled 'Statistics' contains links for 'Statistics by theme', 'Statistics A - Z', 'Browse / Search database', 'Bulk download', 'SDMX Web Services', 'Access to microdata', 'GISCO:Geographical Information and maps', 'Metadata' (with sub-links for 'Concepts and definitions', 'Legislation and methodology', 'Classifications', 'Glossaries and thesauri', 'National methodologies', 'Euro-SDMX Metadata Structure', 'Standard code lists', 'Statistical Data and Metadata eXchange (SDMX)', and 'Data validation'), and 'Data validation'.

The central content area is titled 'Browse / Search Database'. It features a search bar with placeholder text 'Type a keyword, the code of a dataset...' and a 'Search' button. Below the search bar are buttons for 'Create Custom Tree', 'Table of Content', and 'Information'. The main content is a 'Data Navigation Tree' with two main branches: 'Database by themes' and 'Tables by themes'. Both branches have identical sub-folders: 'General and regional statistics', 'Economy and finance', 'Population and social conditions', 'Industry, trade and services', 'Agriculture, forestry and fisheries', 'International trade', 'Transport', 'Environment and energy', and 'Science and technology'.

http://epp.eurostat.ec.europa.eu/portal/page/portal/statistics/search_database

The Humanitarian Data Exchange

data.hdx.rwlabs.org



Ebola

<https://data.hdx.rwlabs.org/dataset/rowca-ebola-cases>

London Datastore

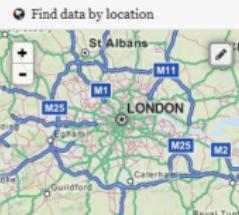
GREATER LONDON AUTHORITY MAYOR OF LONDON LONDON ASSEMBLY

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Search for data...

📍 Find data by location 
Map data © OpenStreetMap contributors.
Tiles by MapQuest.

_datasets

Search datasets...

591 datasets found Order by: Relevance

Monthly Mix-Adjusted Average House Prices, London Modified 2 days ago
Mix-adjusted house prices, by new/pre-owned dwellings, type of buyer and region, from February 2002 for London and UK, and average mix-adjusted prices by UK region. The data...
[XLS](#)

Index of Private Housing Rental Prices, Region Modified 2 days ago
The Index of Private Housing Rental Prices (IPHRP) is a quarterly experimental price index. It tracks the prices paid for renting property from private landlords in Great...
[XLS](#)

<http://data.london.gov.uk/dataset>

datahub

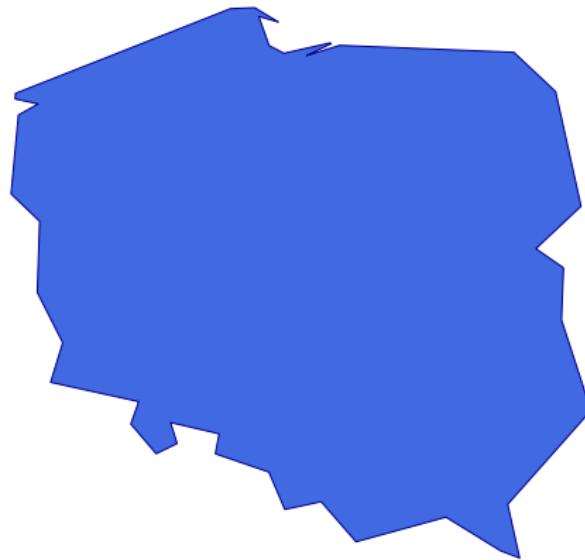
the free, powerful data management platform from the Open Knowledge Foundation

datahub.io

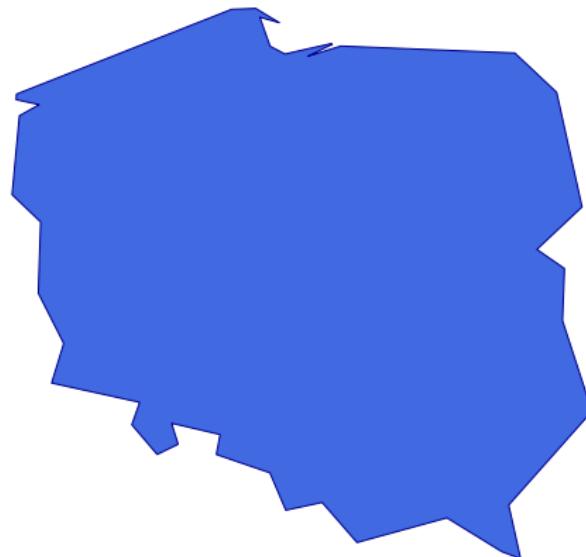


A small quiz!

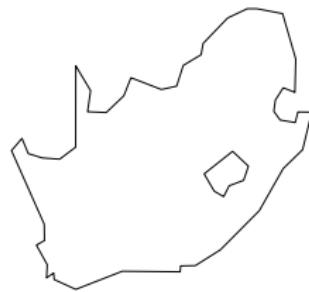
What do think - which country is it?



Poland

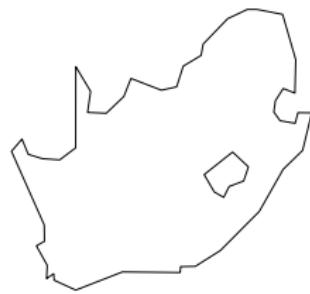


What do think - which country is it?

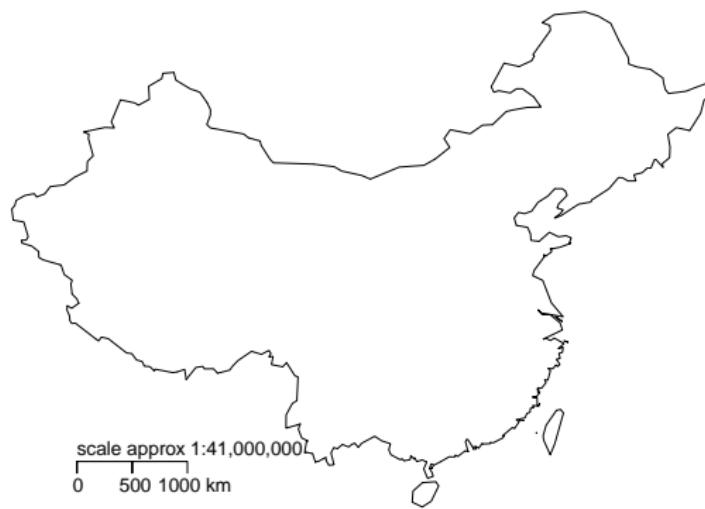


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South Africa



What do think - which country is it?



China

