

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.

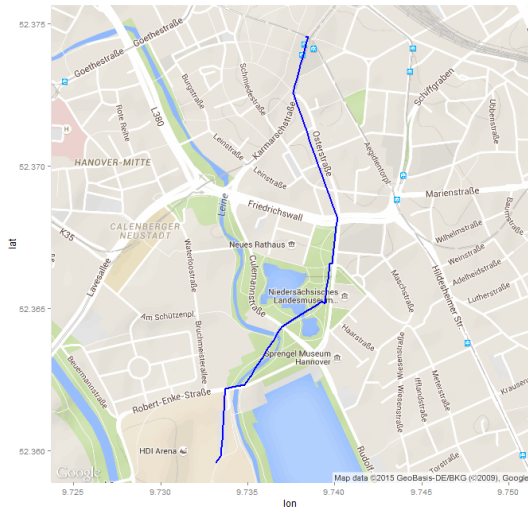
Problems with the installation of packages

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

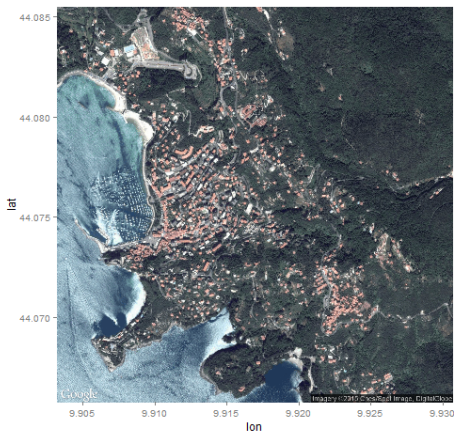
Explain your map in a few words

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

Assignment - Example 1



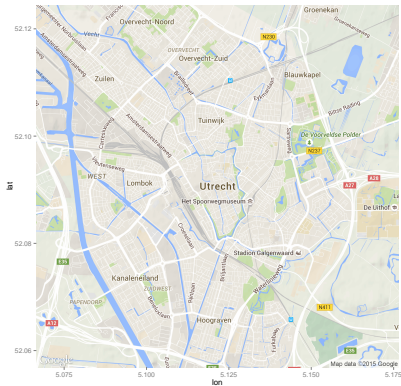
Assignment - Example 2



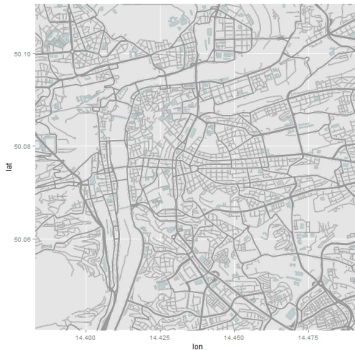
Assignment - Example 3



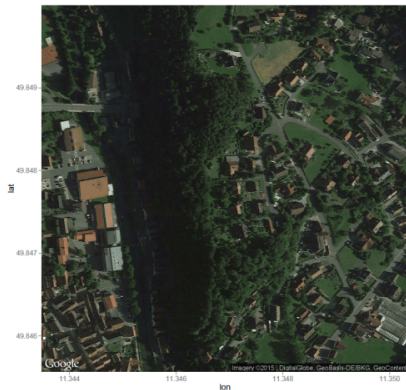
Assignment - Example 4



Assignment - Example 5



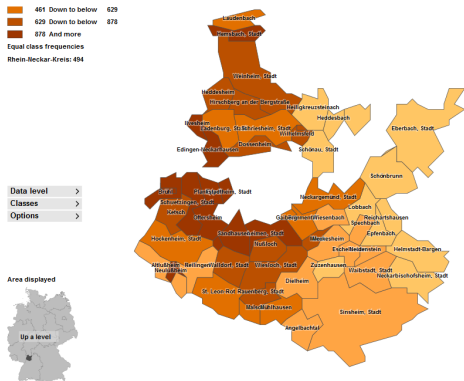
Assignment - Example 6



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
 <p>Retrieval of Population figures, summarized results by regions and predefined tables and diagrams by topic</p>	 <p>Create your own flexible tables, flexible diagrams and comparison of Municipalities and regions</p>	 <p>Presentation of various indicators at Land, district and municipal level with the possibility of adjusting the class number and class limits.</p>

[Important information](https://ergebnisse.zensus2011.de/)

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

American Community Survey

Data for the American Community Survey:



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

Download Bulk Census Data for the US

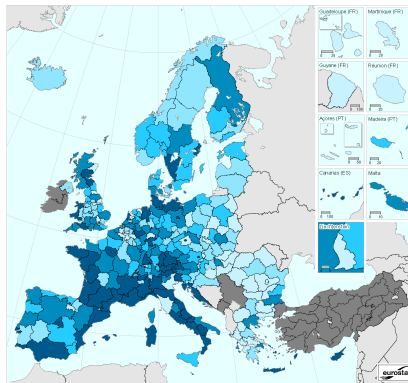
CENSUS.IRE.ORG

`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)



(million nights)

Administrative boundaries: © EuroGeographics © UN FAO © Turstat
Cartography: Eurostat — GISCO, 9/1/2015



Data from Eurostat

The screenshot displays the Eurostat website's search database interface. At the top, there is a blue header with the European Commission logo and the text "eurostat Your key to European statistics". Navigation links include "Register", "Cookies", "Links", "Contact", "Important legal notice", and "English (en)". Below the header, a breadcrumb trail reads "European Commission > Eurostat > Statistics > Browse / Search database". A secondary navigation bar contains buttons for "Home", "Statistics" (highlighted), "Publications", "About Eurostat", and "User support".

On the left side, a "Statistics" menu lists various options: "Statistics by theme", "Statistics A - Z", "Browse / Search database" (highlighted), "Bulk download", "SDMX Web Services", "Access to microdata", "GISCO: Geographical Information and maps", "Metadata" (expanded), "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".

The main content area, titled "Browse / Search Database", includes a prompt "To use enhanced functionalities, please login or register". It features a "Search in tree:" section with a search bar and a "Search" button. Below this is a "Navigation tree:" section with links to "Create Custom Tree", "Settings", "Table of Content", and "Information". The "Data Navigation Tree" is displayed, showing a hierarchical structure of datasets categorized by themes and tables.

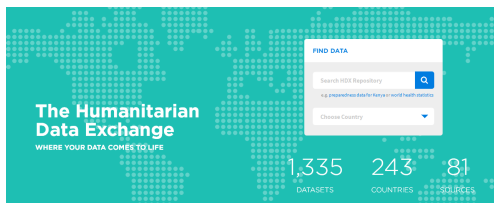
Data Navigation Tree

- Database by themes
 - 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
 - Science and technology
- Tables by themes
 - General and regional statistics
 - Economy and finance
 - Population and social conditions
 - Industry, trade and services
 - Agriculture, forestry and fisheries
 - International trade

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

The Humanitarian Data Exchange

data.hdx.rwlab.org



Ebola

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

London Datastore

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LONDON DATASTORE

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Blog Data Topics Developers Boroughs GLA Analysis More

Search for data...

Datasets

Find data by location

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

Filter by Topic

- Demographics (167)
- Employment and Skills (74)

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

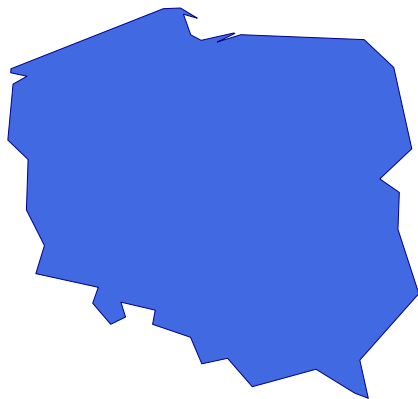
datahub

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

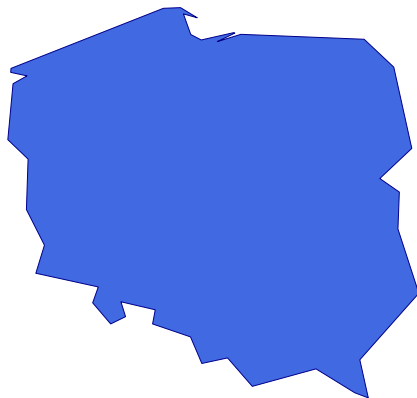


A small quiz!

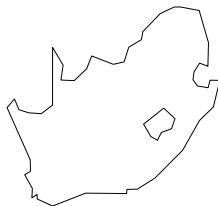
What do think - which country is it?



Poland

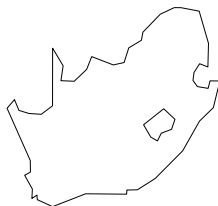


What do think - which country is it?

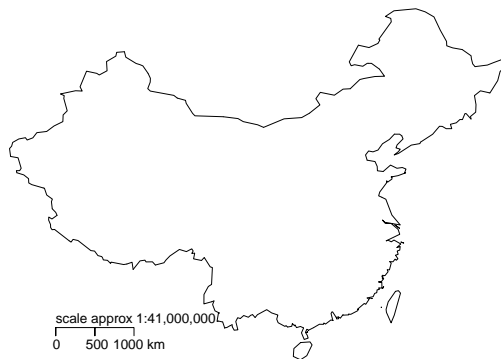


4

South Africa



What do think - which country is it?



China

