

Spatial Visualisations

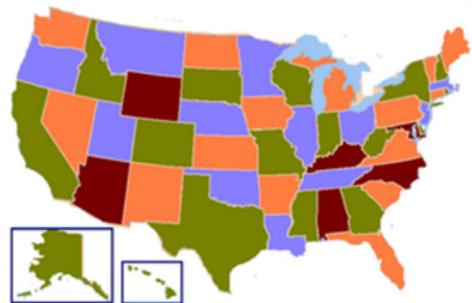
Tipps and Tricks

Jan-Philipp Kolb

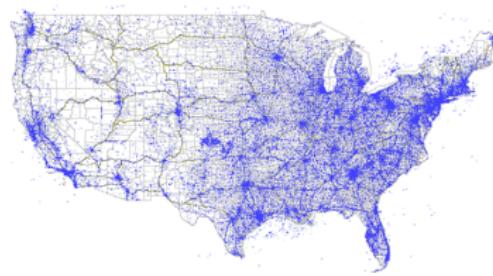
Monday, November 16, 2014



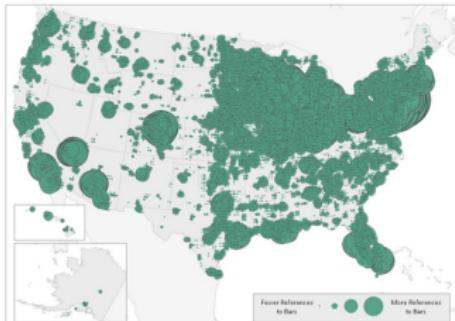
Overview maps



Choropleth maps



Dot maps



Bubble plots

Jan-Philip Kolb



Spatial Visualisations Line maps

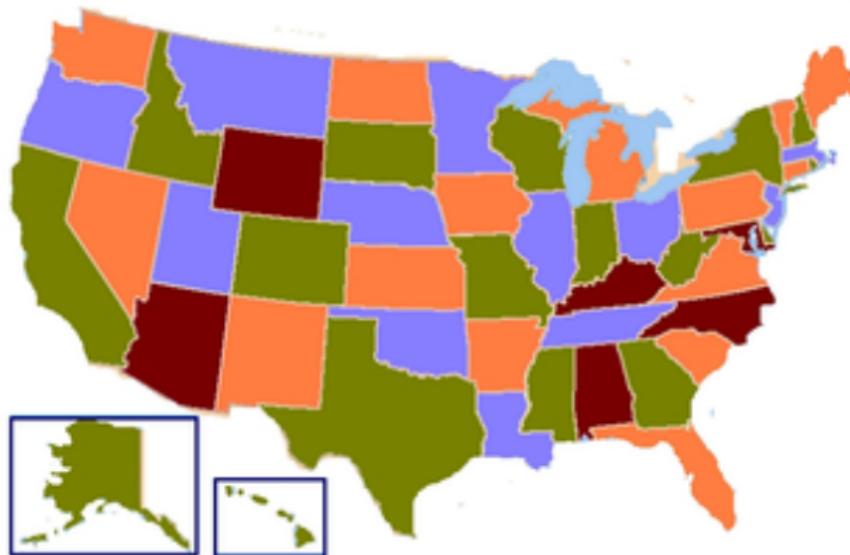
Gliederung

Types of maps

Tips and Tricks

Further sources/websites

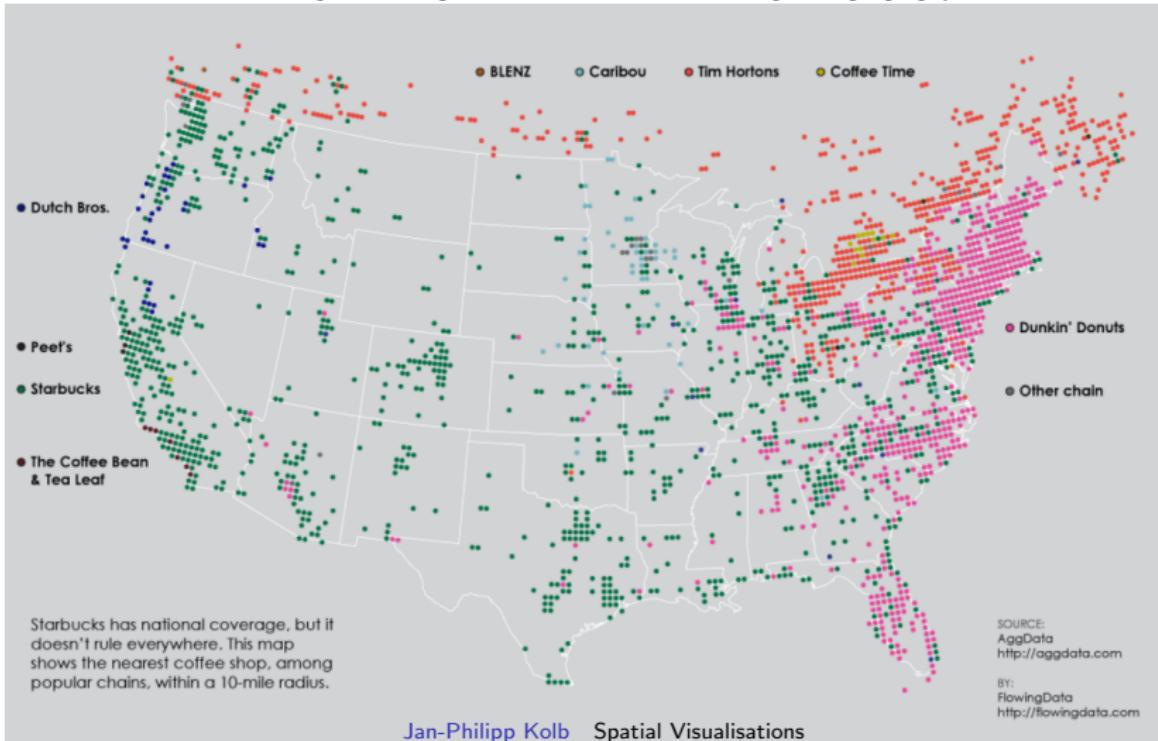
Choropleth maps



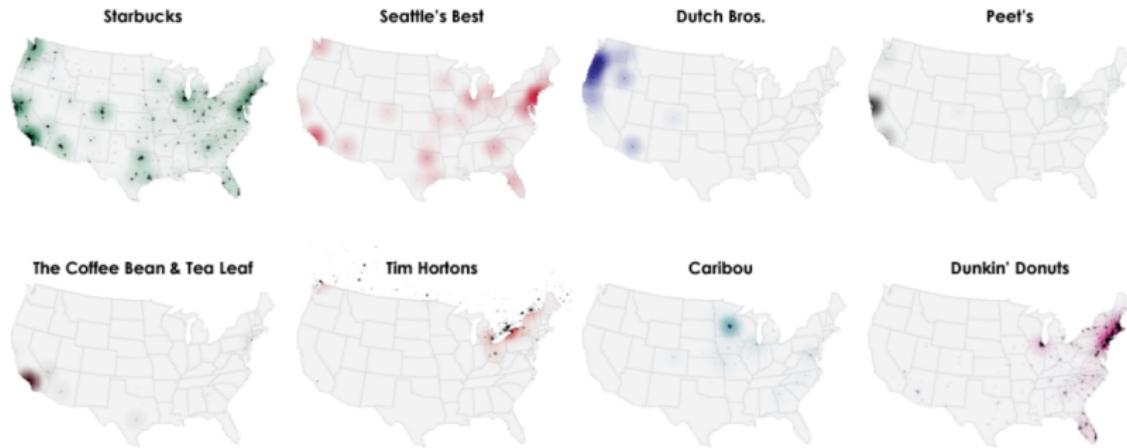
http://en.wikipedia.org/wiki/Four_color_theorem

Dotmaps - Coffee Place Geography

Source: <http://flowingdata.com/2014/03/18/coffee-place-geography/>

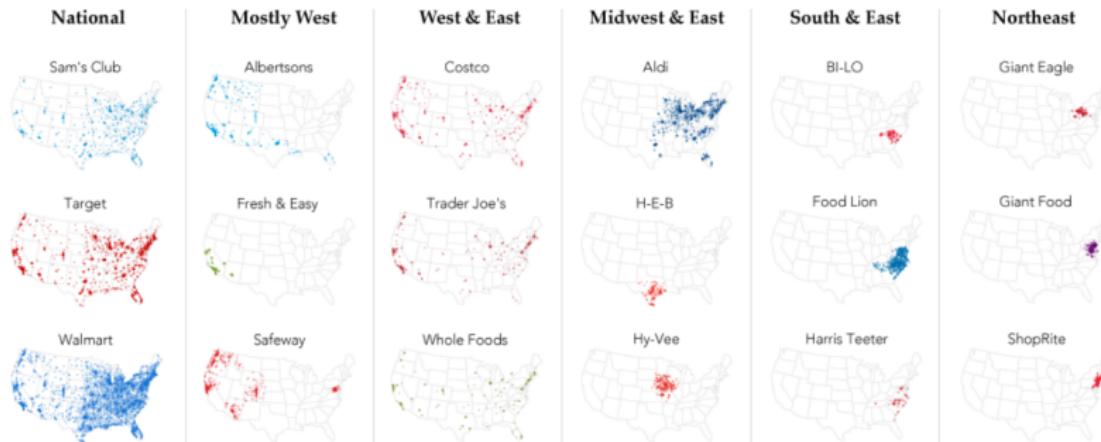


Many maps in a grid - Coffee Place Geography



Source: <http://flowingdata.com/2014/03/18/coffee-place-geography/>

Grocery store geography



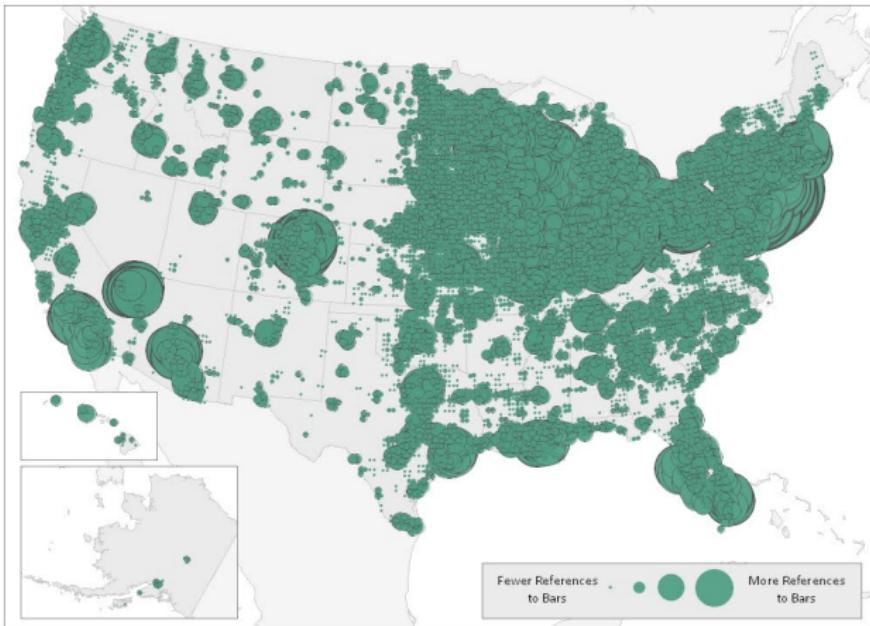
Source: <http://flowingdata.com/2013/06/26/grocery-store-geography/>

Where Bars Outnumber Grocery Stores



Source: <http://www.visualizing.org/galleries/>

Bubble plots - Total Number of Bars

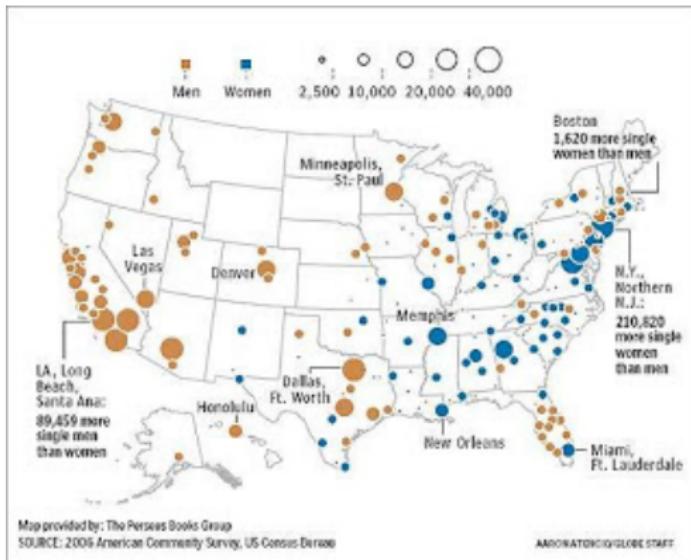


BARS: Size of symbol represents absolute number of mentions of bars in the Google Maps directory. A maximum value of 1139 is located in Chicago, IL. Data collected in August 2008.
Copyleft FloatingSheep.org, 2010

Source: <http://www.floatingsheep.org/2010/02/beer-belly-of-america.html>

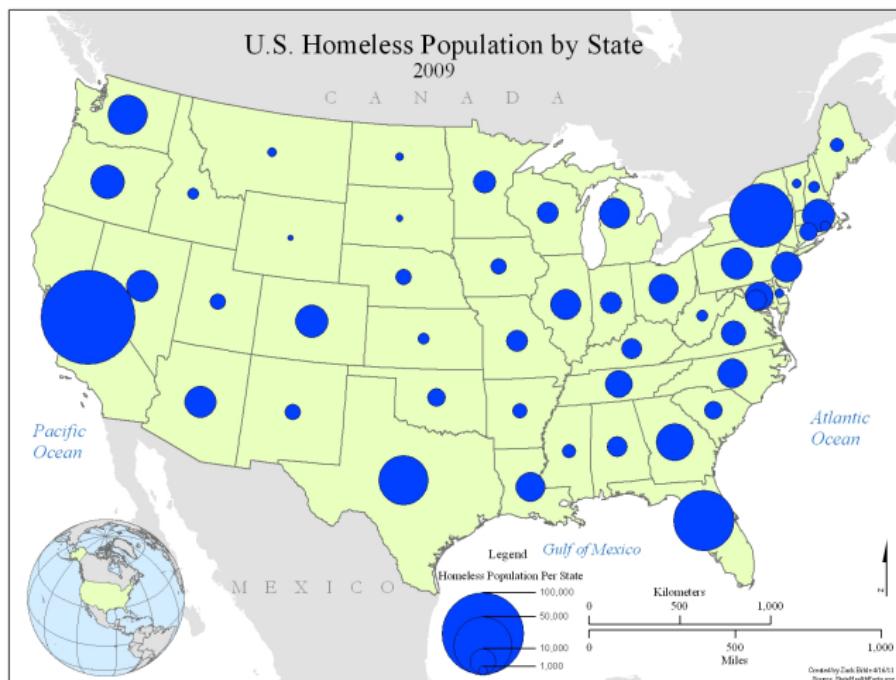
Jan-Philipp Kolb Spatial Visualisations

Bubble plots with more information



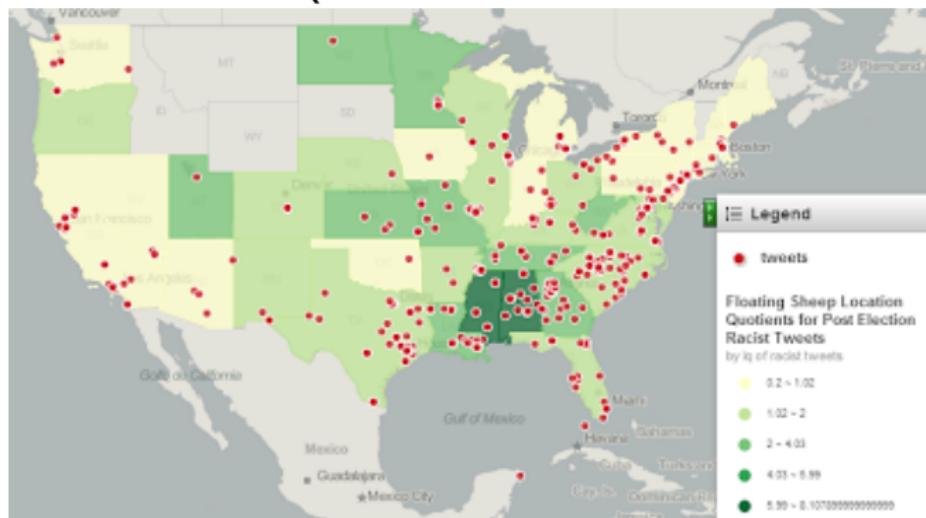
<http://healyecc.blogspot.de/2012/02/geo-using-geography-to-increase-your.html>

Bubble plot by state - homeless population



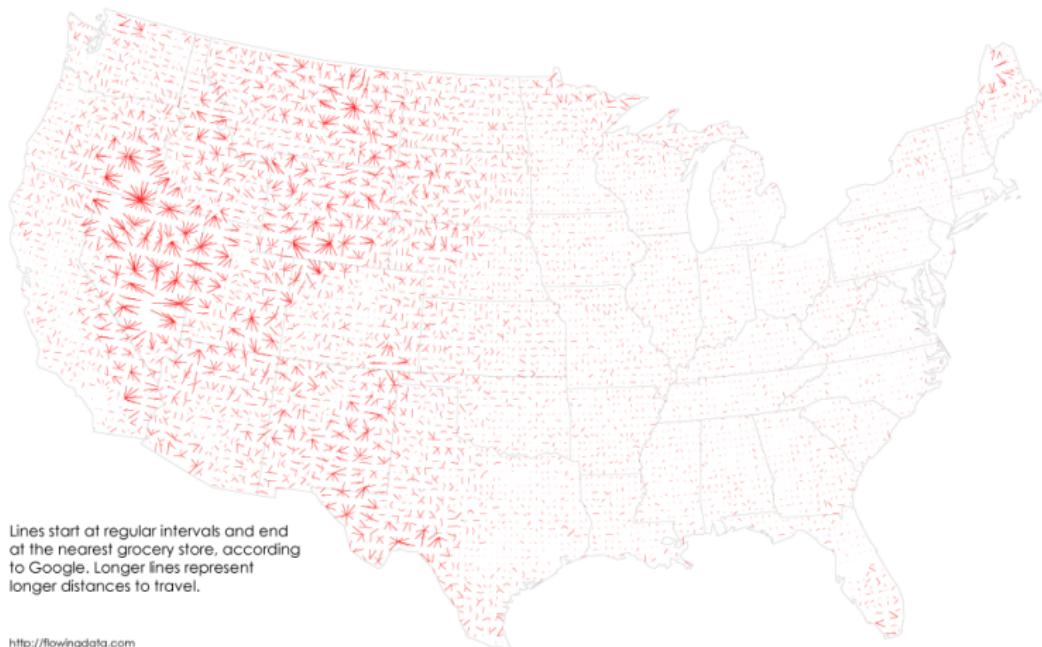
Combining choropleth and dot maps

Map of the Location Quotients for Post Election Racist Tweets

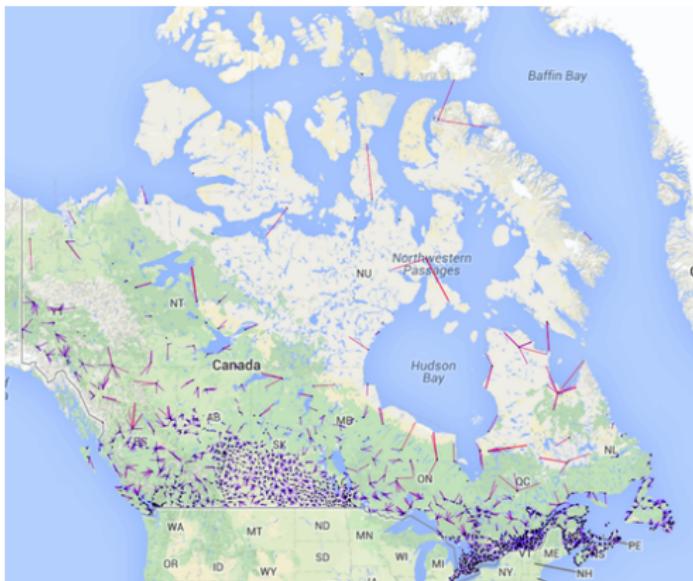


Source: <http://www.floatingsheep.org/2012/11/mapping-racist-tweets-in-response-to.html>

Line plots - In search of food deserts

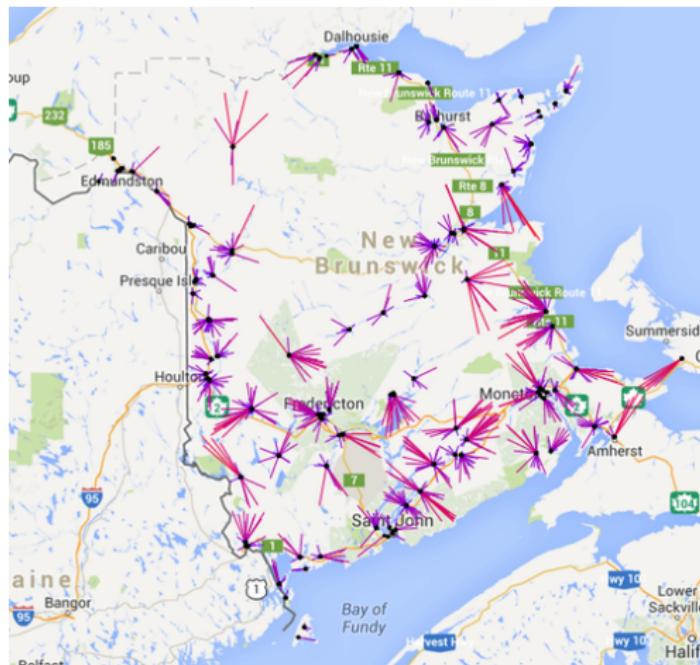


The Small Towns and Deserts of Canada



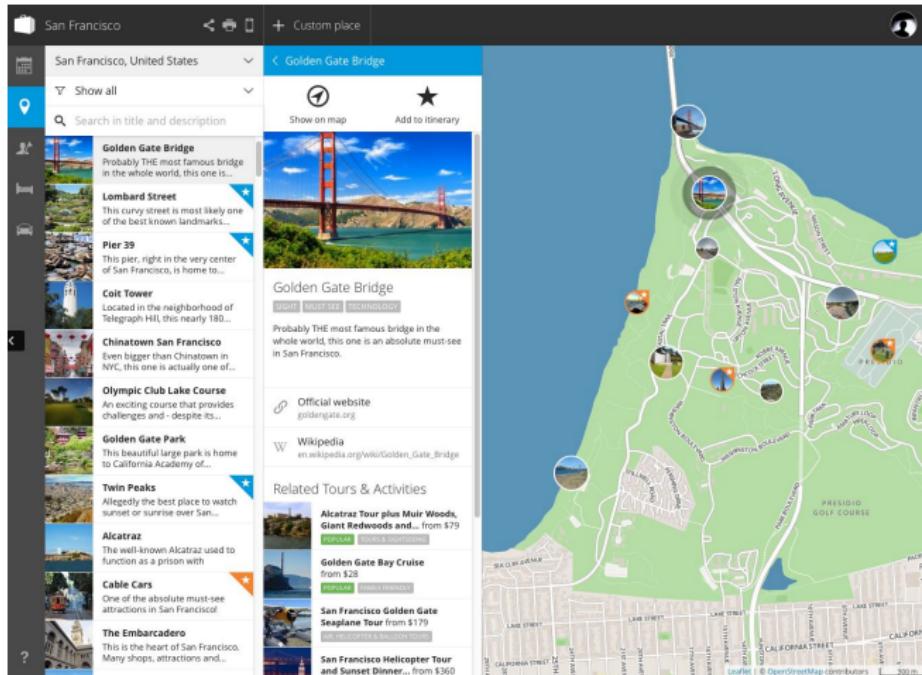
Source: <http://www.visualizing.org/galleries/>

The Small Towns and Deserts of Canada



Source: <http://www.visualizing.org/galleries/>

Map with symbols



Source: <http://lbszone.com/wp-content/uploads/2014/08/tripomatic.jpg>

Gliederung

Types of maps

Tips and Tricks

Further sources/websites

Codes to specify country

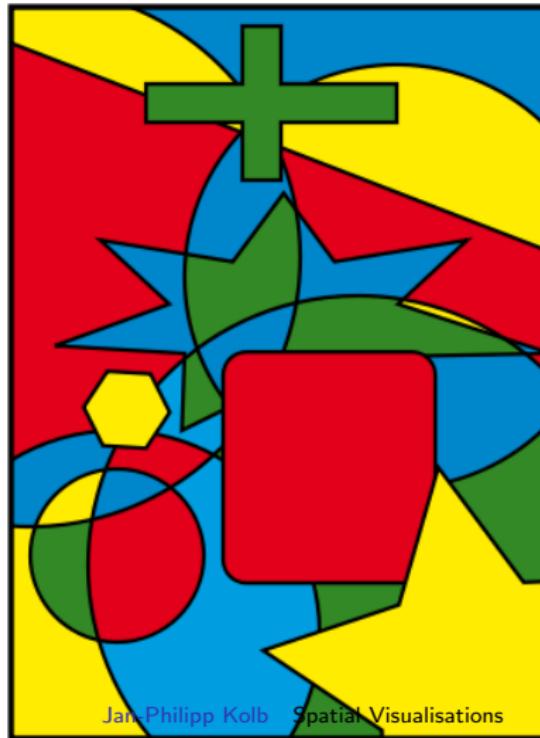


English short name (upper/lower case)	Alpha-2 code	Alpha-3 code	Numeric code	ISO 3166-2 codes
Afghanistan	AF	AFG	004	ISO 3166-2:AF
Åland Islands	AX	ALA	248	ISO 3166-2:AX
Albania	AL	ALB	008	ISO 3166-2:AL
Algeria	DZ	DZA	012	ISO 3166-2:DZ

http://en.wikipedia.org/wiki/ISO_3166-1

Four color map theorem

http://en.wikipedia.org/wiki/Four_color_theorem



Outline

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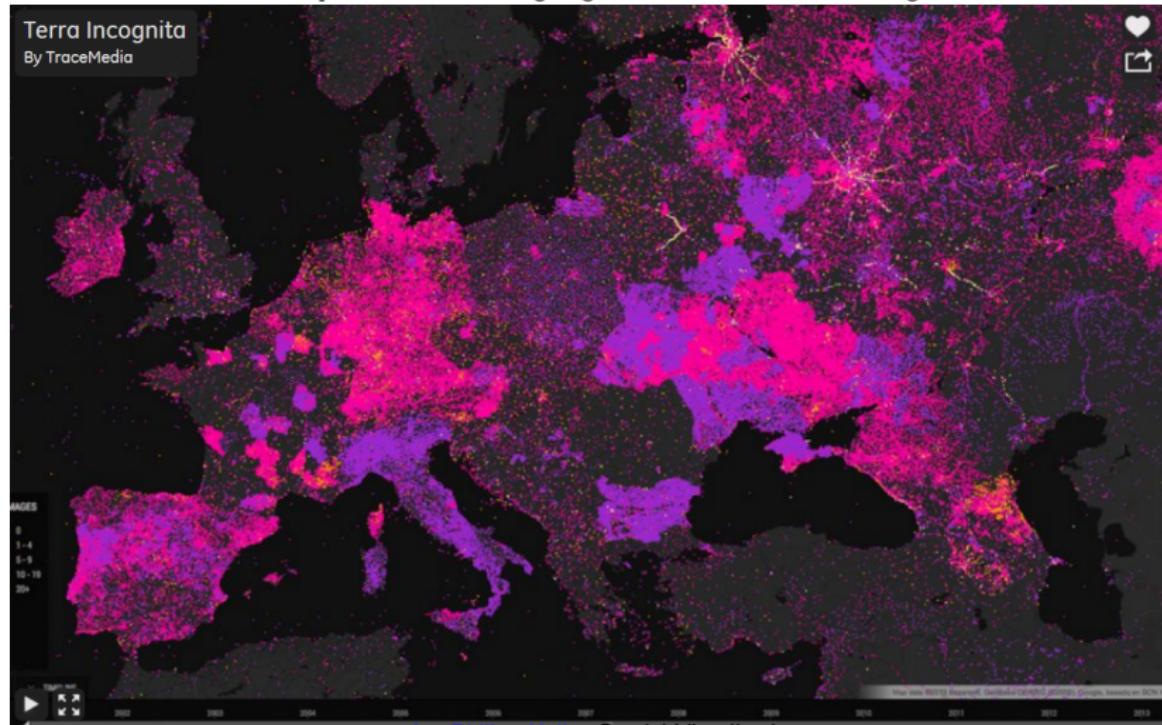
Terra Incognita

Evolution of Wikipedia over the last decade

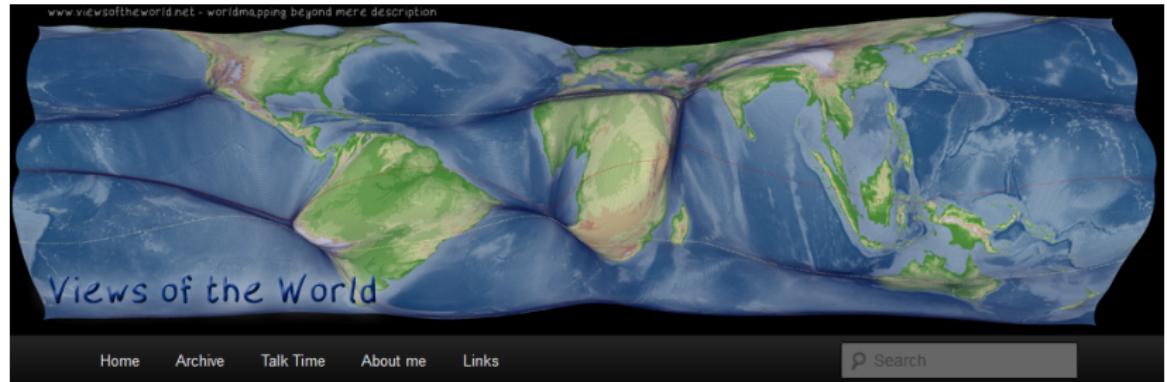
- ▶ mapping the geographic articles for 50 languages.
- ▶ The maps highlight cultural biases, unexpected areas of focus, the overlaps between languages, and regions that are unique to a language.

Terra Incognita

Source: <http://www.visualizing.org/visualizations/terra-incognita>

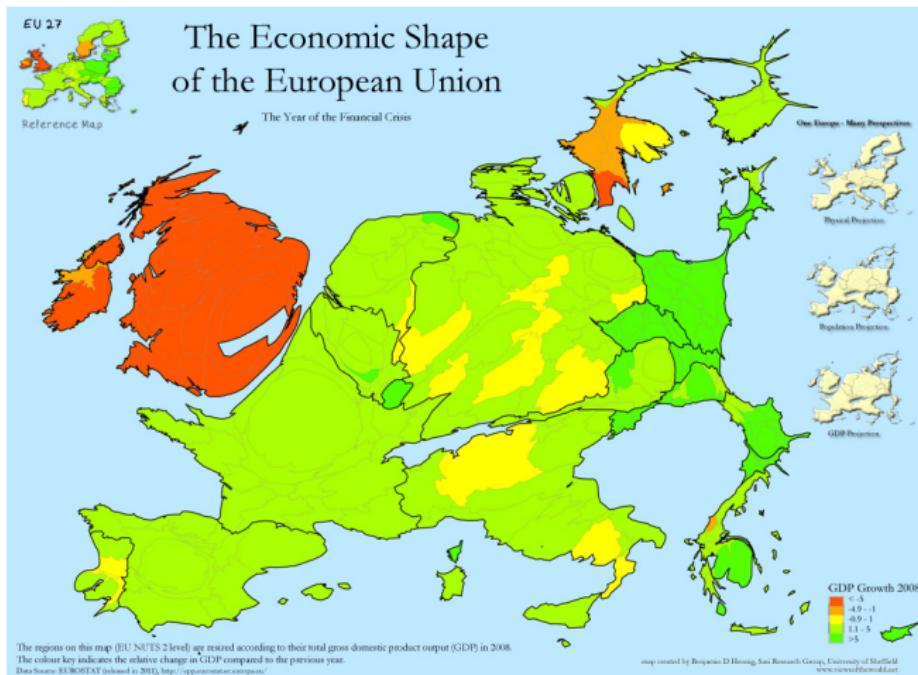


Views of the world



<http://www.viewsoftheworld.net/?p=1561>

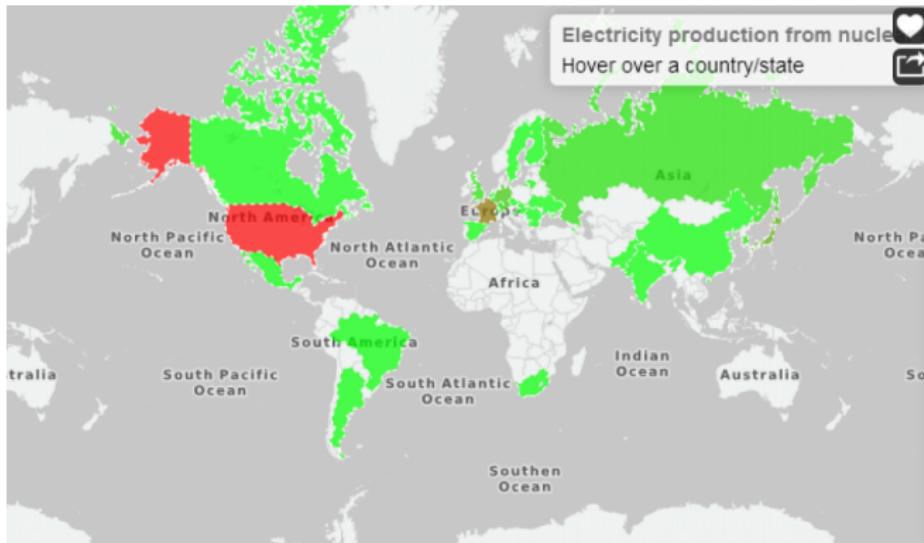
Views Of The World



<http://www.viewsoftheworld.net/?p=1561>

visualizing.org

A snapshot of this week's news through the lens of data visualization.



Source: <http://www.visualizing.org/galleries/news-week-81314?start=339823>

Nasa World Wind



<http://goworldwind.org/>

<http://spatial.ly/r/>



Download Information from OSM



<http://www.geofabrik.de/geofabrik/publications.html>

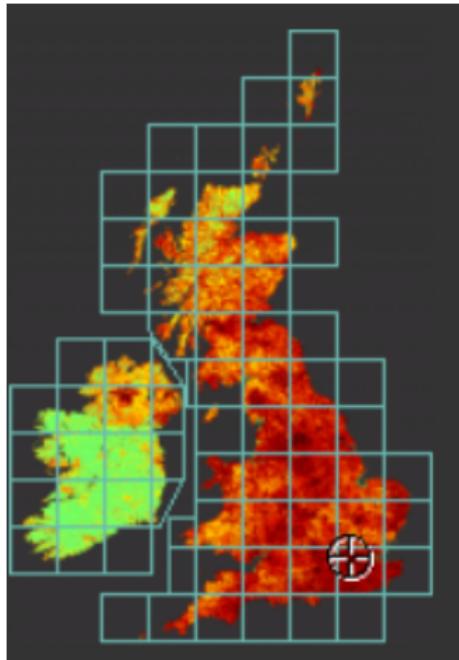
Geo Blog

AnyGeo – GIS, Maps, Mobile and Social Location Technology

Anything Geospatial GISuser Blog by
@gletham



The Geograph



The Geograph Britain and Ireland project aims to collect geographically representative photographs and information for every square kilometre of Great Britain and Ireland

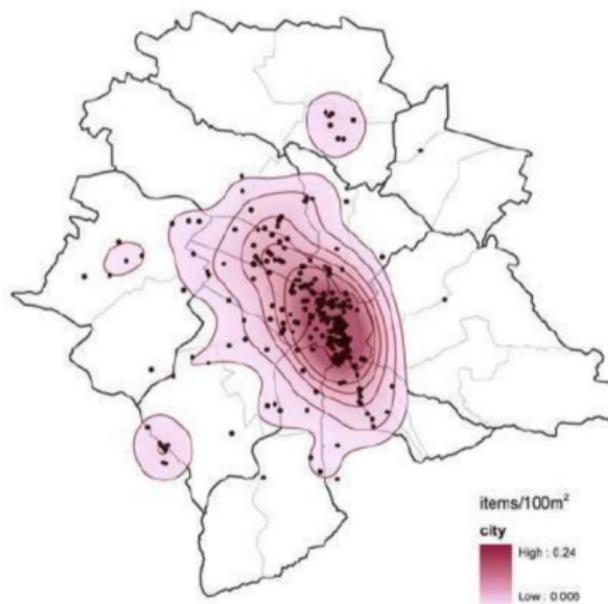
The Geograph - geographically representative photographs



The Geograph

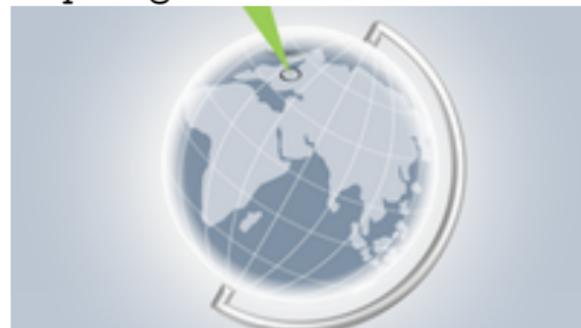
Zurich City

Standard Distance: 1421 m



GeoData Karlsruhe

<http://geodaten.karlsruhe.de>



Emotional Map



<http://www.sf.biomapping.net/>