Working with Data

A Workshop on Understanding, Visualising and Mapping Data

Chennai, 3-5 August 2012

Second day
4th August 2012

1. Presentation by Open Knowledge Foundation	[10:30-11:00]
2. What is data visualisation?	[11:15-12:15]
3. Tools for spatial data collection	[13:30-14:15]
4. Introduction to tools	[14:15-14:30]
5. Session on geo/visualisation tools #1	[14:45-16:00]
6. Session on geo/visualisation tools #2	[16:15-17:30]

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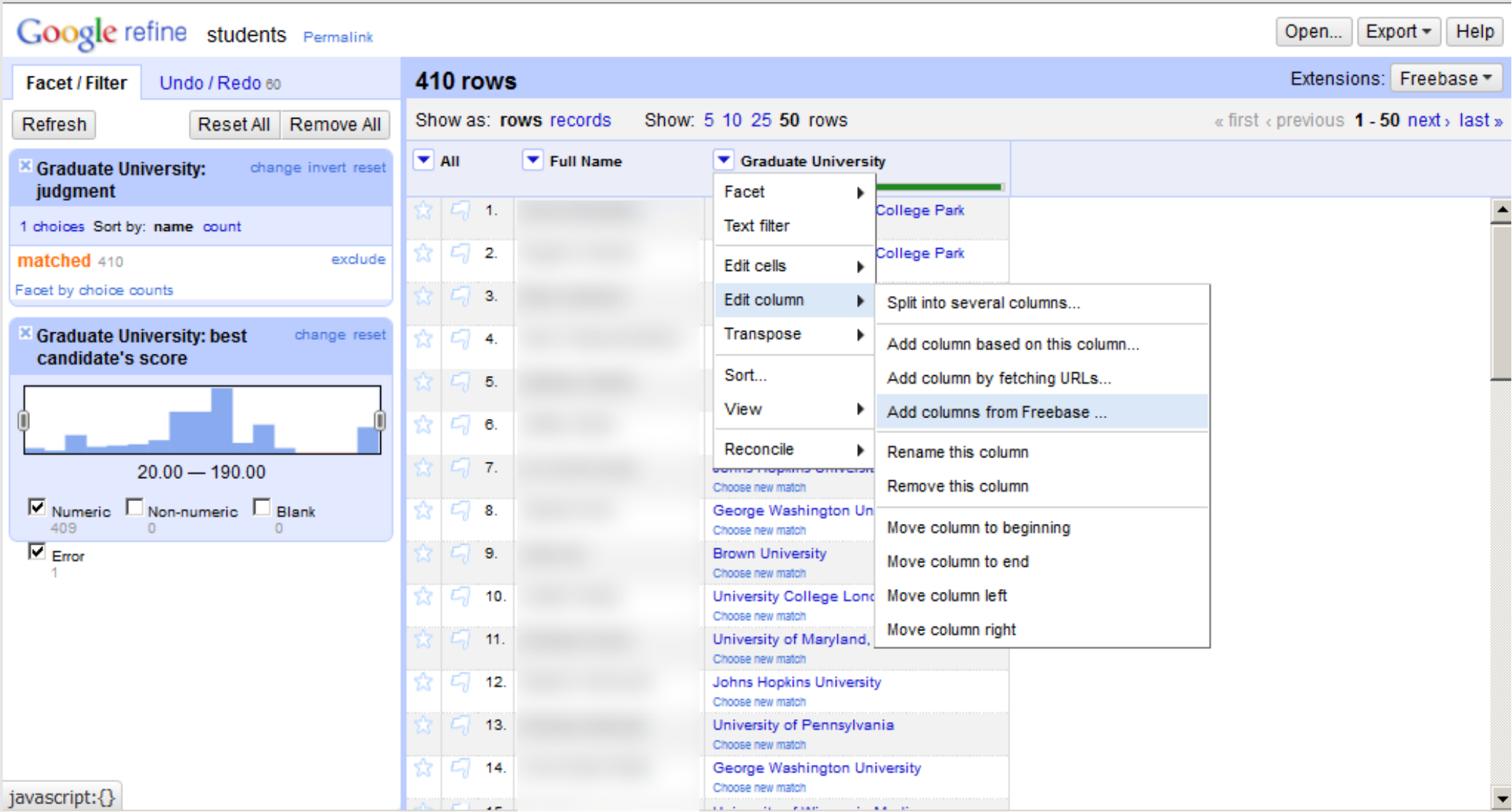
Data Organising Tools
Google Refine



Data Organising Tools
Data Wrangler

Split | Cut | Extract | Edit | Fill | Translate | Drop | Merge | Wrap | Delete | Promote | Fold | Unfold | Transpose

after | before | column | max | on | positions | quote character | result | row

max: once | result: column

Suggestions

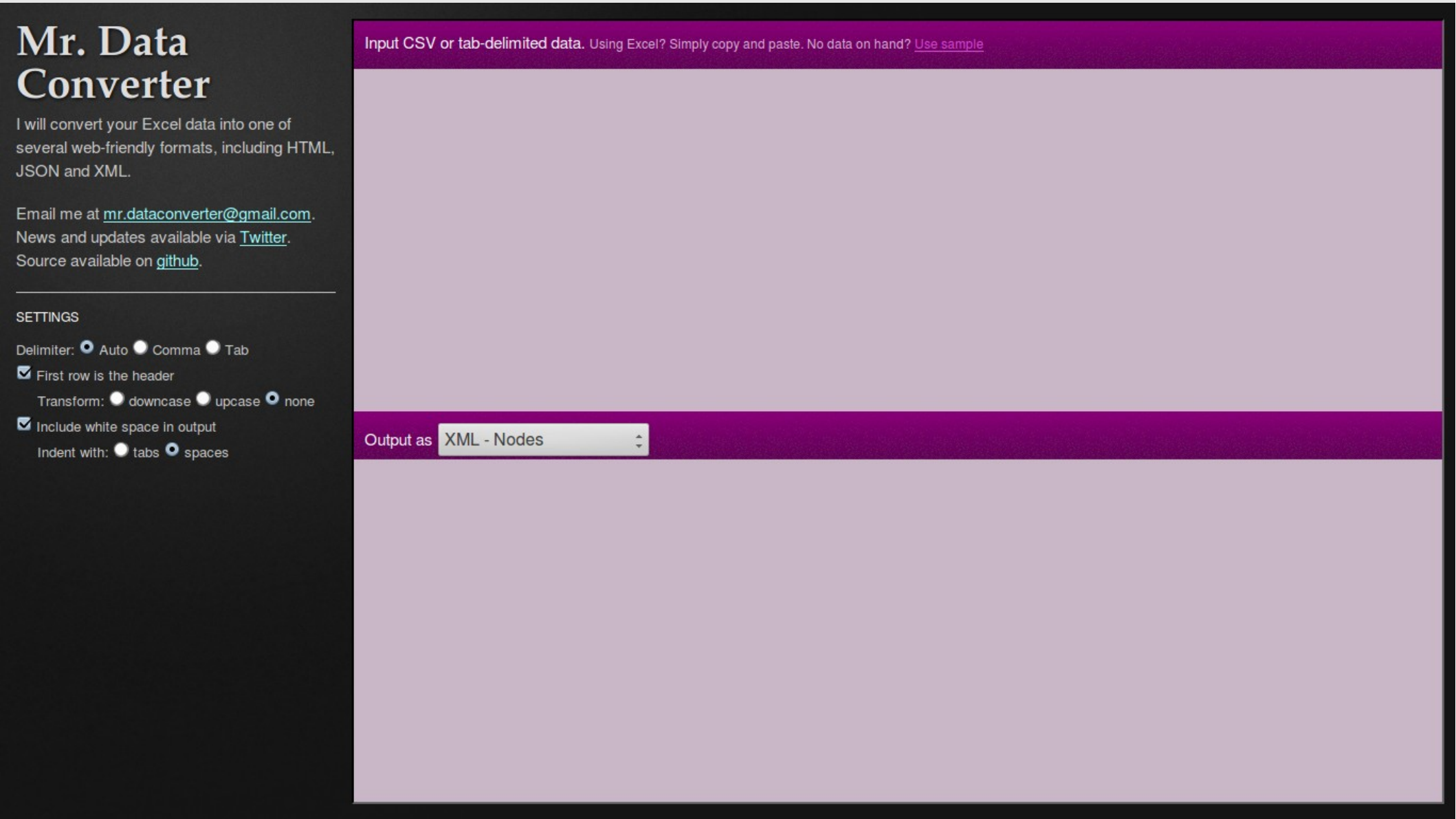
Script Export

- Split **data repeatedly** on **newline** into **rows**
- Split **data repeatedly** on **','**

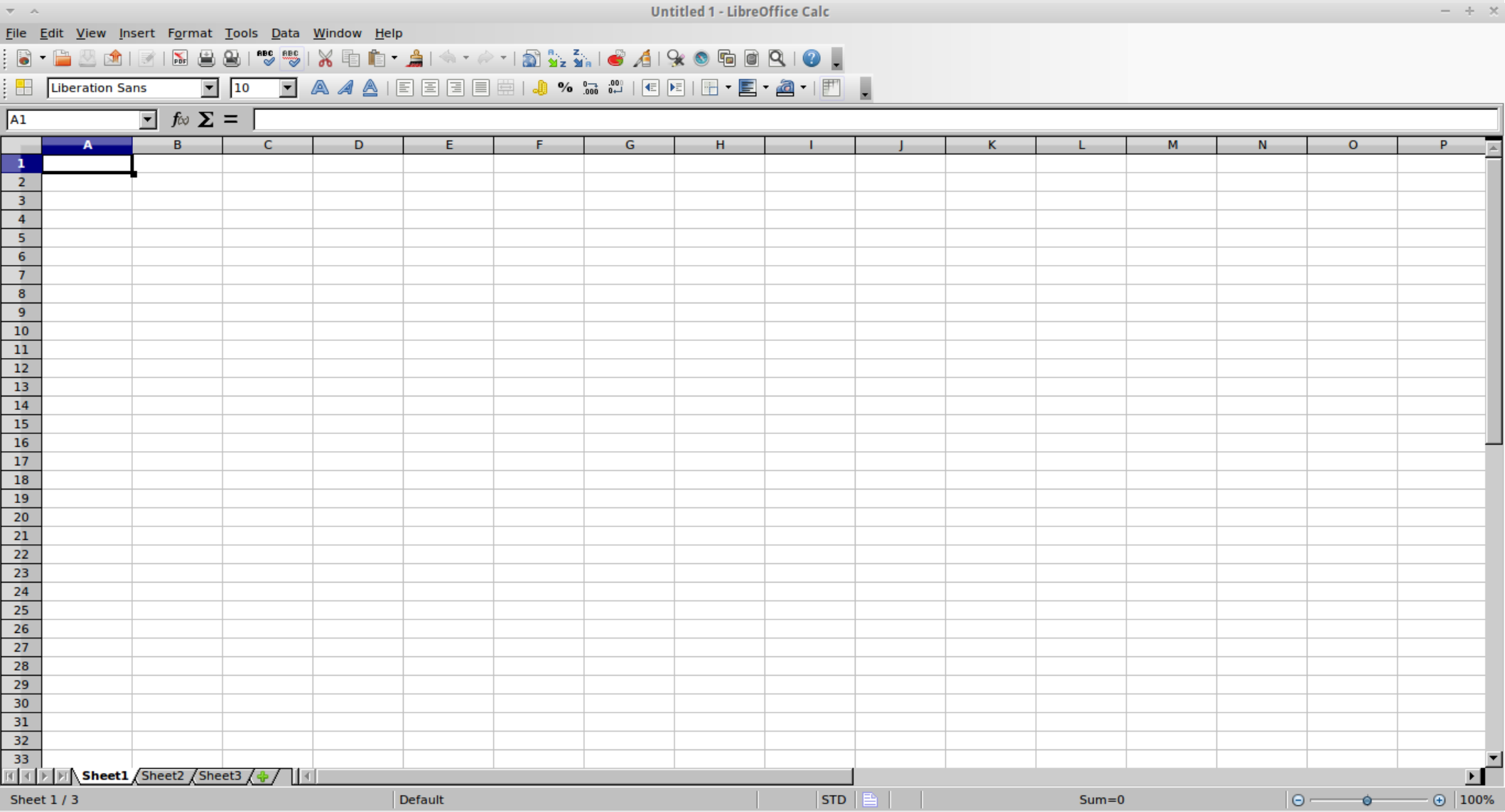
rows: 408 prev next

	split	split1
1	Reported crime in Alabama	
2		
3	2004	4029.3
4	2005	3900
5	2006	3937
6	2007	3974.9
7	2008	4081.9
8		
9	Reported crime in Alaska	
10		
11	2004	3370.9
12	2005	3615
13	2006	3582
14	2007	3373.9
15	2008	2928.3
16		
17	Reported crime in Arizona	
18		
19	2004	5073.3
20	2005	4827
21	2006	4741.6
22	2007	4502.6
23	2008	4087.3
24		
25	Reported crime in Arkansas	

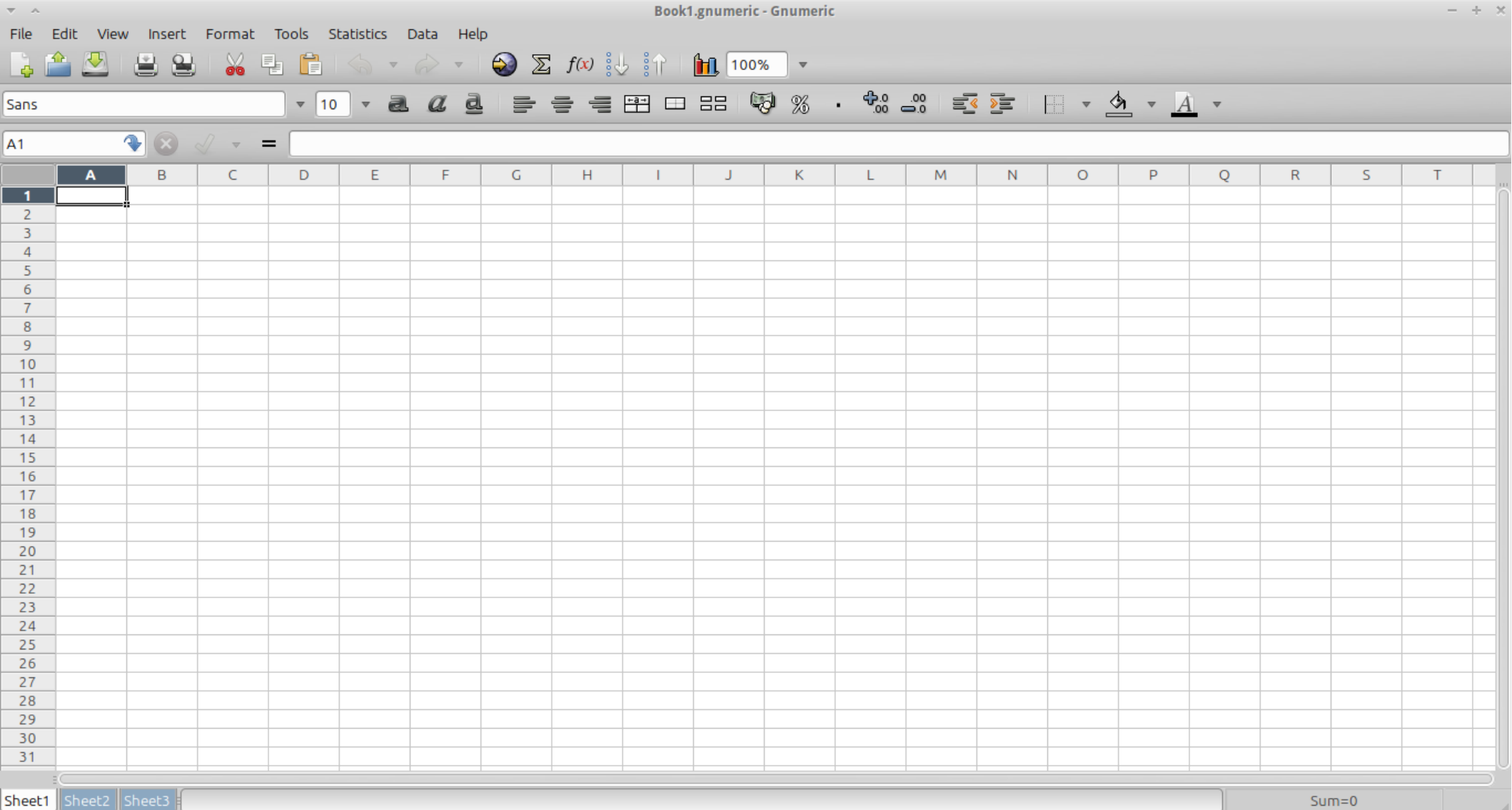
Data Organising Tools
Mr. Data Converter



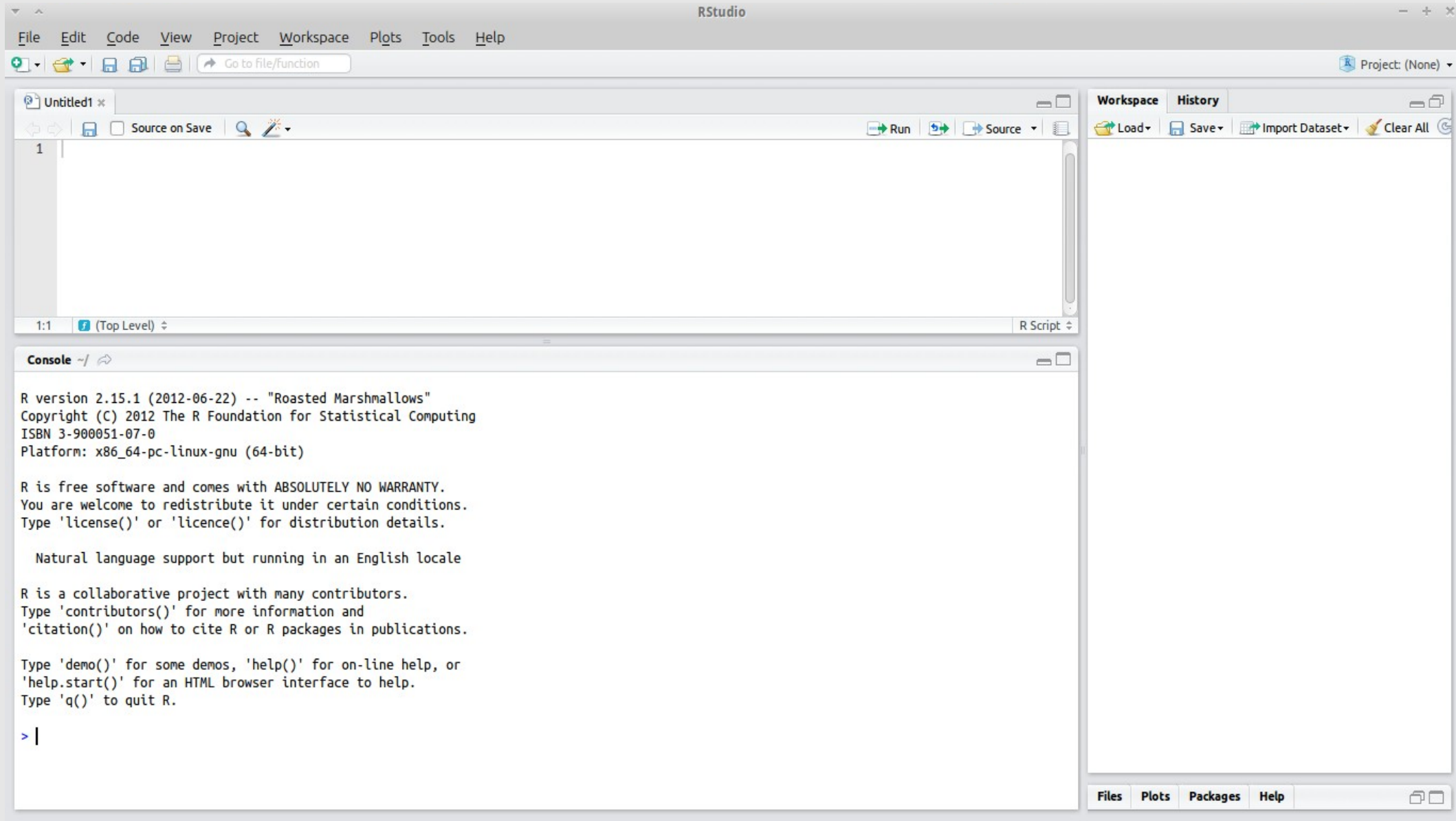
Data Analysis Tools
LibreOffice Calc



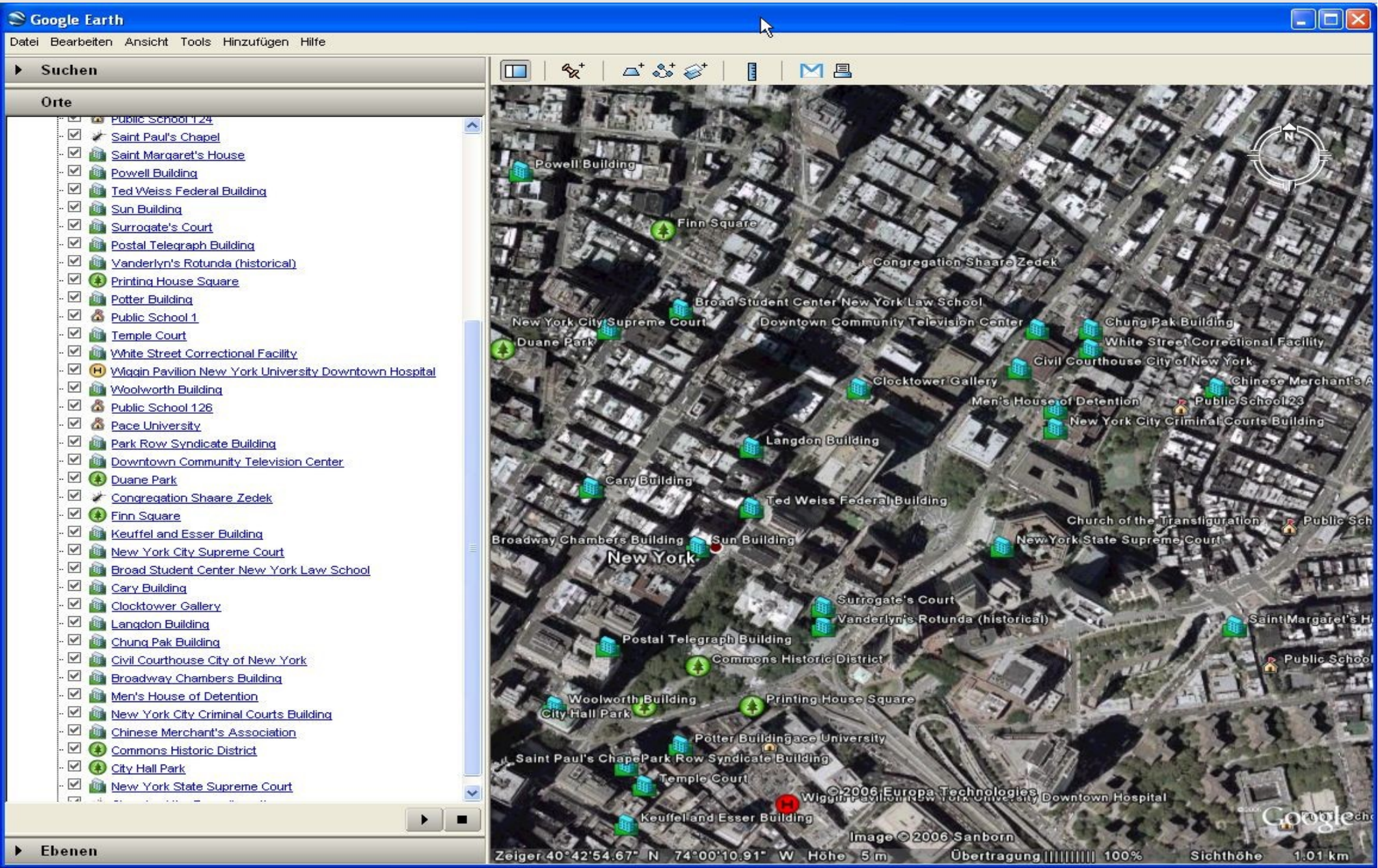
Data Analysis Tools
Gnumeric



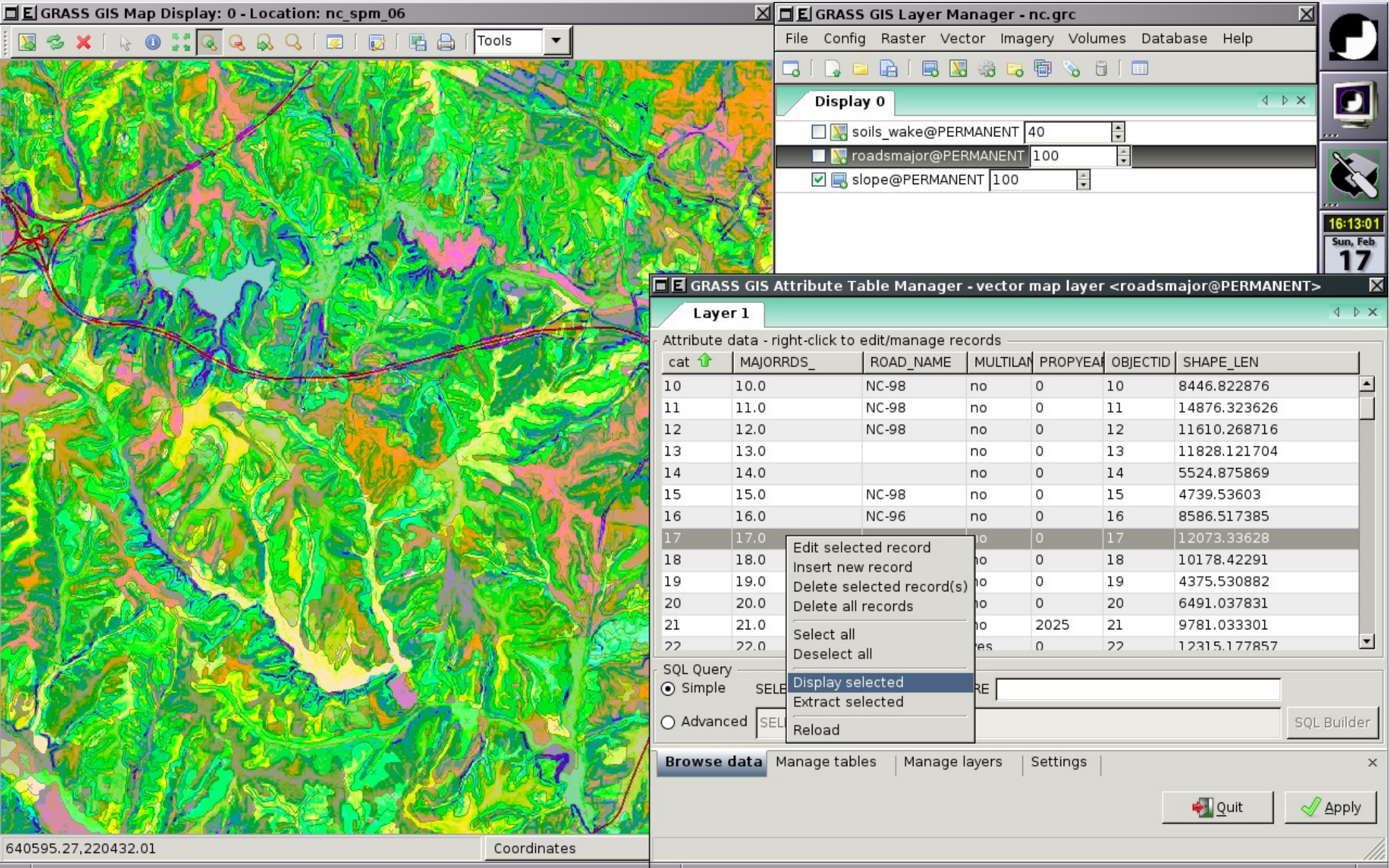
Data Analysis Tools
R



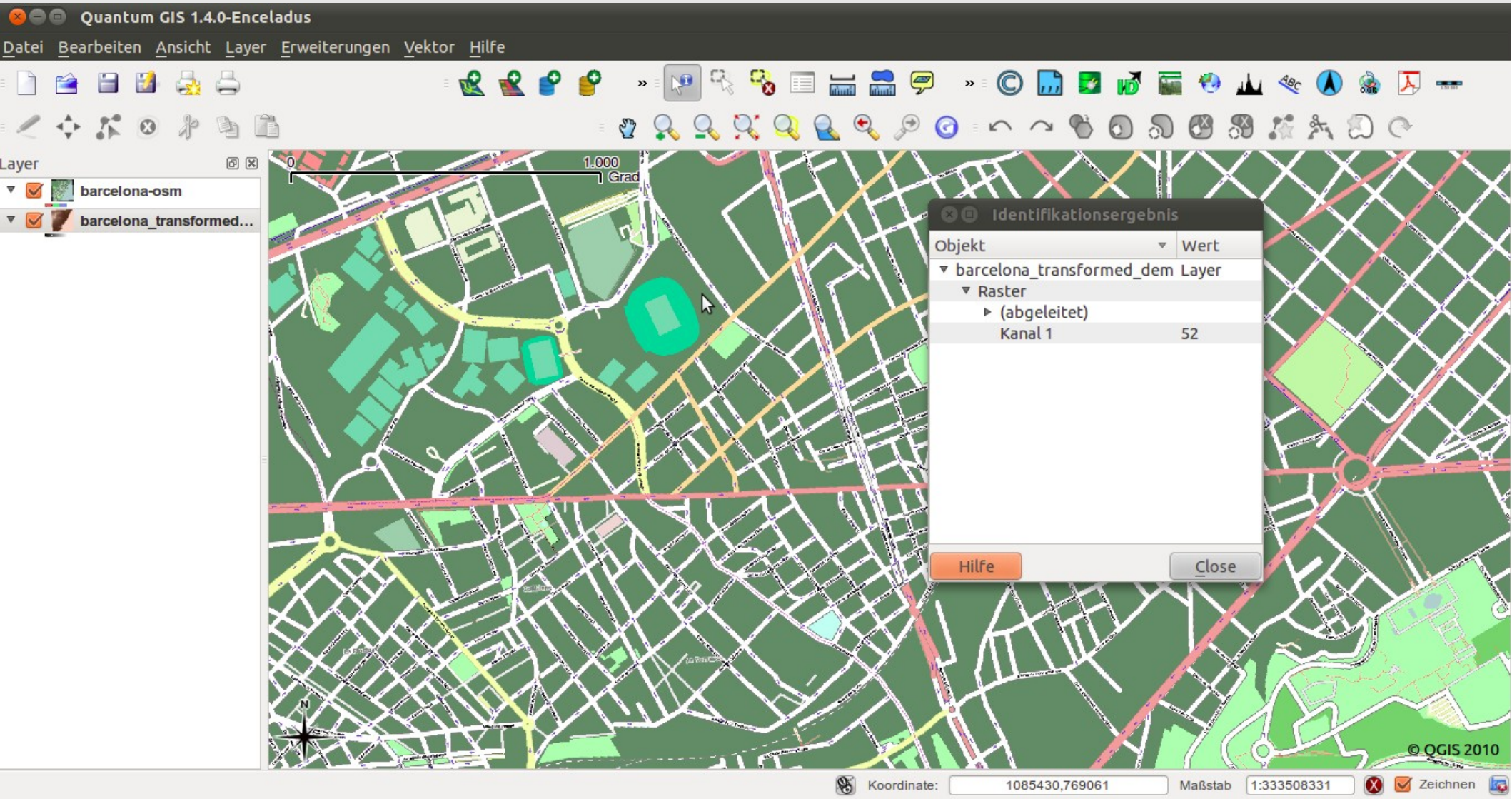
Spatial Data Tools
Google Earth



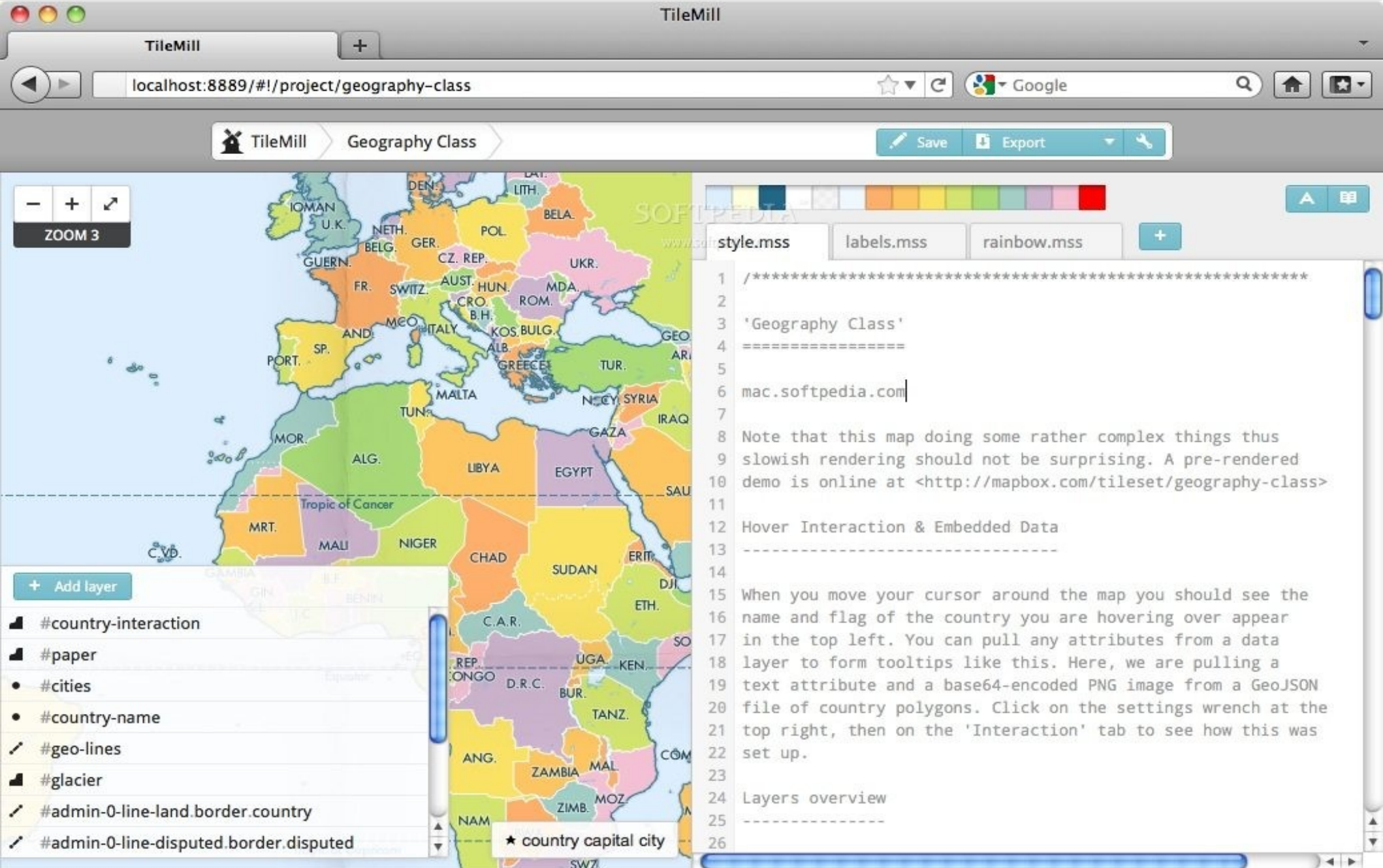
Spatial Data Tools
GRASS



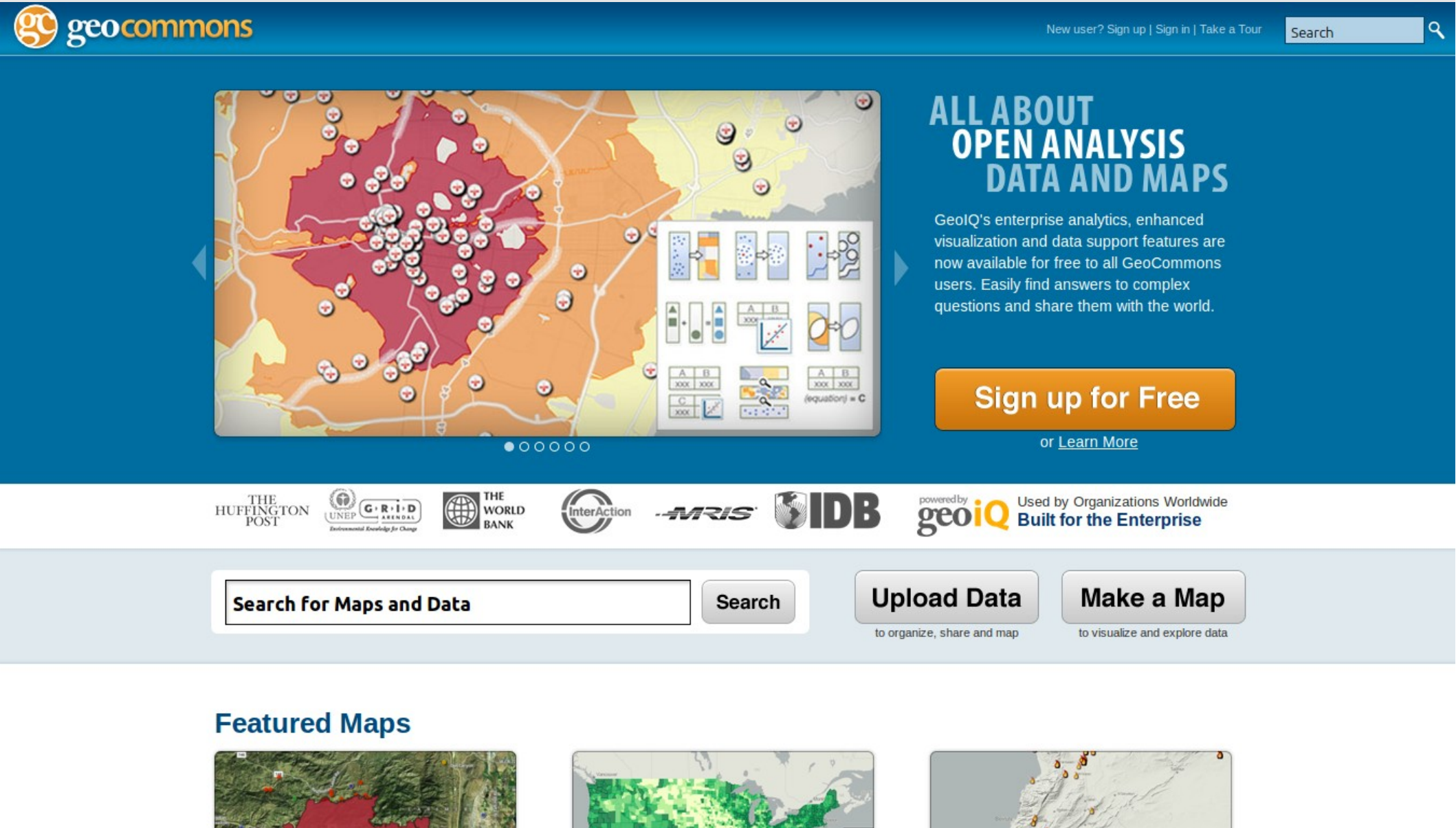
Spatial Data Tools
Quantum GIS



Spatial Data Tools
TileMill



Spatial Data Tools
GeoCommons



Data Visualisation Tools
Many Eyes

Many Eyes — Log in — IBM

Explore
- Visualizations
- Data sets
- Comments
- Topic centers

Participate
- Create a visualization
- Upload a data set
- Create a topic center
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Visualizations | Search

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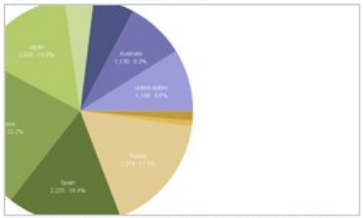
Amount of people that smoke in a number of countries



Amount of people that smoke in a number of countries

by Taylah

Interstate arrivals Australia 1981-1985

Interstate arrivals Australia 1981-1985

by wyattc

Policy on Evolution Education

By state - 2012

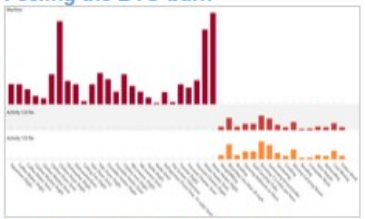
by walkmagazine

Number of unimmunized infants against DTP3

By country and continent - 2011

by StuartW

Feeling the BTU burn



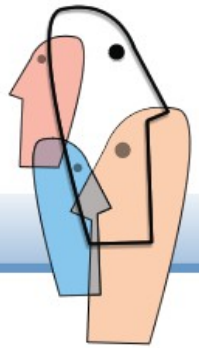
Energy burned by machine and body

by IanS

Digital Government Strategy 2013

Phrase Net visualization for Digital Government Strategy - May 2013.

by TLissauer



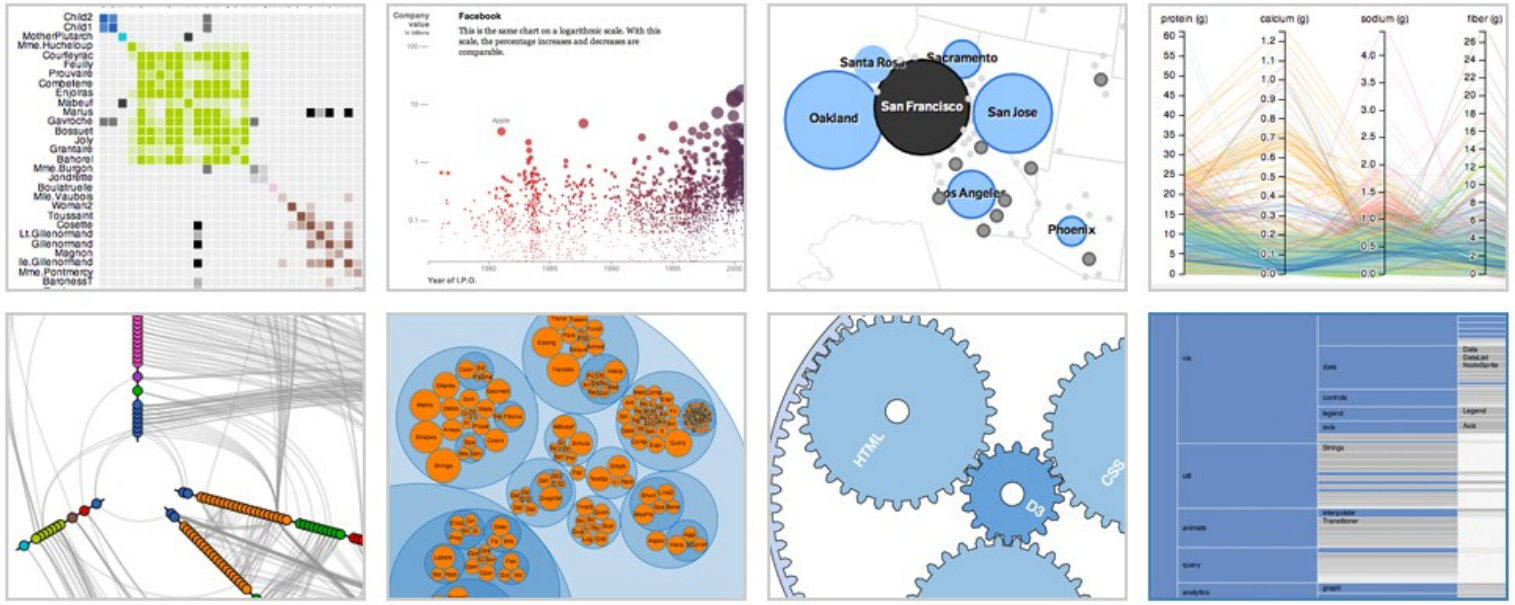
An experiment brought to you by IBM Research *and* the IBM Cognos software group

Data Visualisation Tools
D3.js

Overview Examples Documentation Source

Fork me on GitHub

Data-Driven Documents



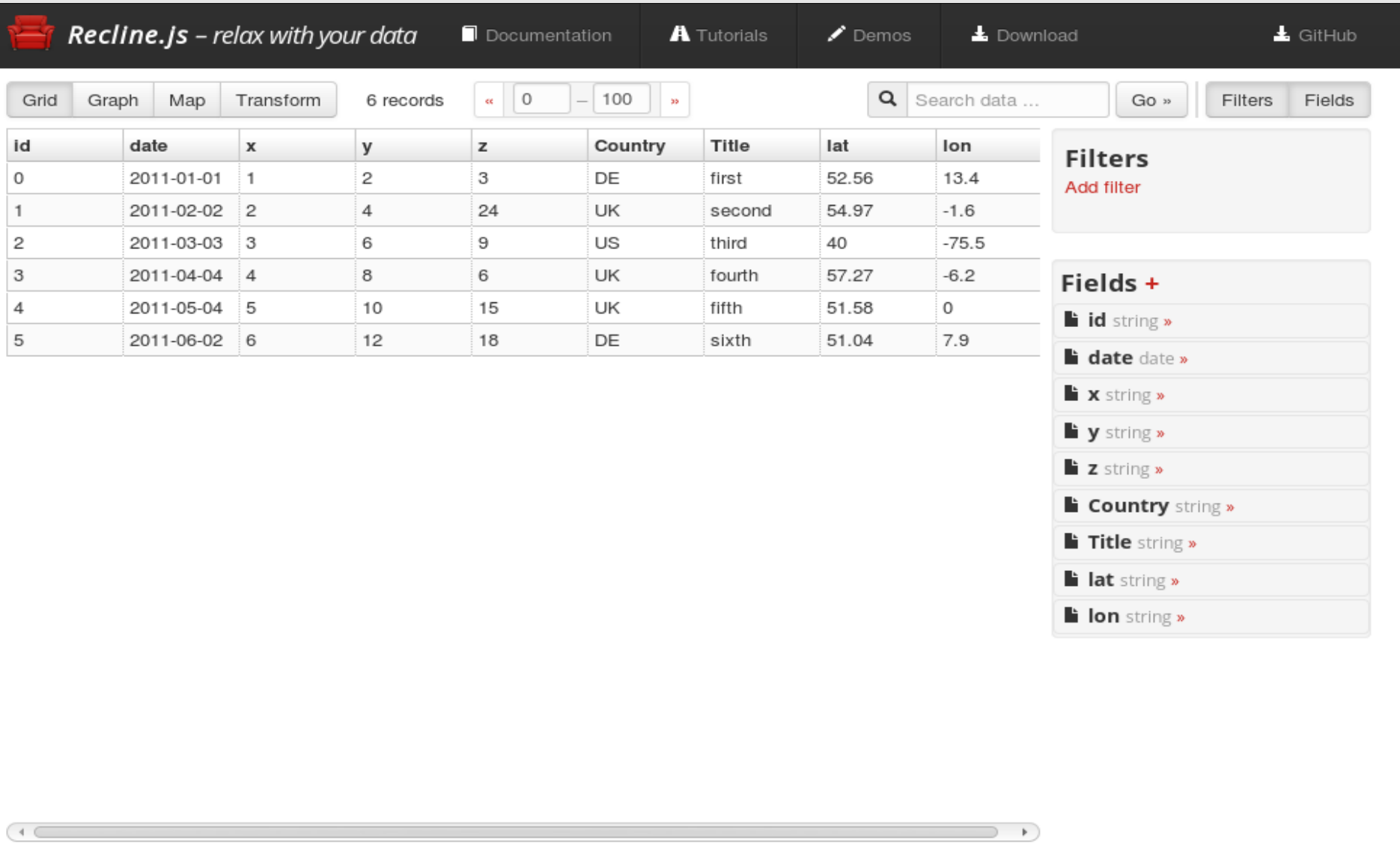
D3.js is a JavaScript library for manipulating documents based on data. **D3** helps you bring data to life using HTML, SVG and CSS. D3's emphasis on web standards gives you the full capabilities of modern browsers without tying yourself to a proprietary framework, combining powerful visualization components and a data-driven approach to DOM manipulation.

See more examples.

Download the latest version here:

- d3.v2.js - development
- d3.v2.min.js - production (minified)

Data Visualisation Tools
Recline.js



Data Visualisation Tools
Google Chart Tools

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Google Chart Tools

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- Examples and Tools
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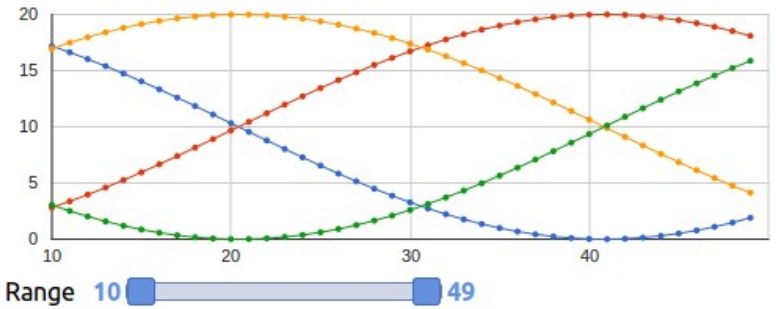
Google chart tools are powerful, simple to use, and free. Try out our rich gallery of interactive charts and data tools.

Get Started

Controls and Dashboards - view source



more

Rich Gallery

Choose from a variety of charts. From simple scatter plots to hierarchical treemaps, find the best fit for your data.

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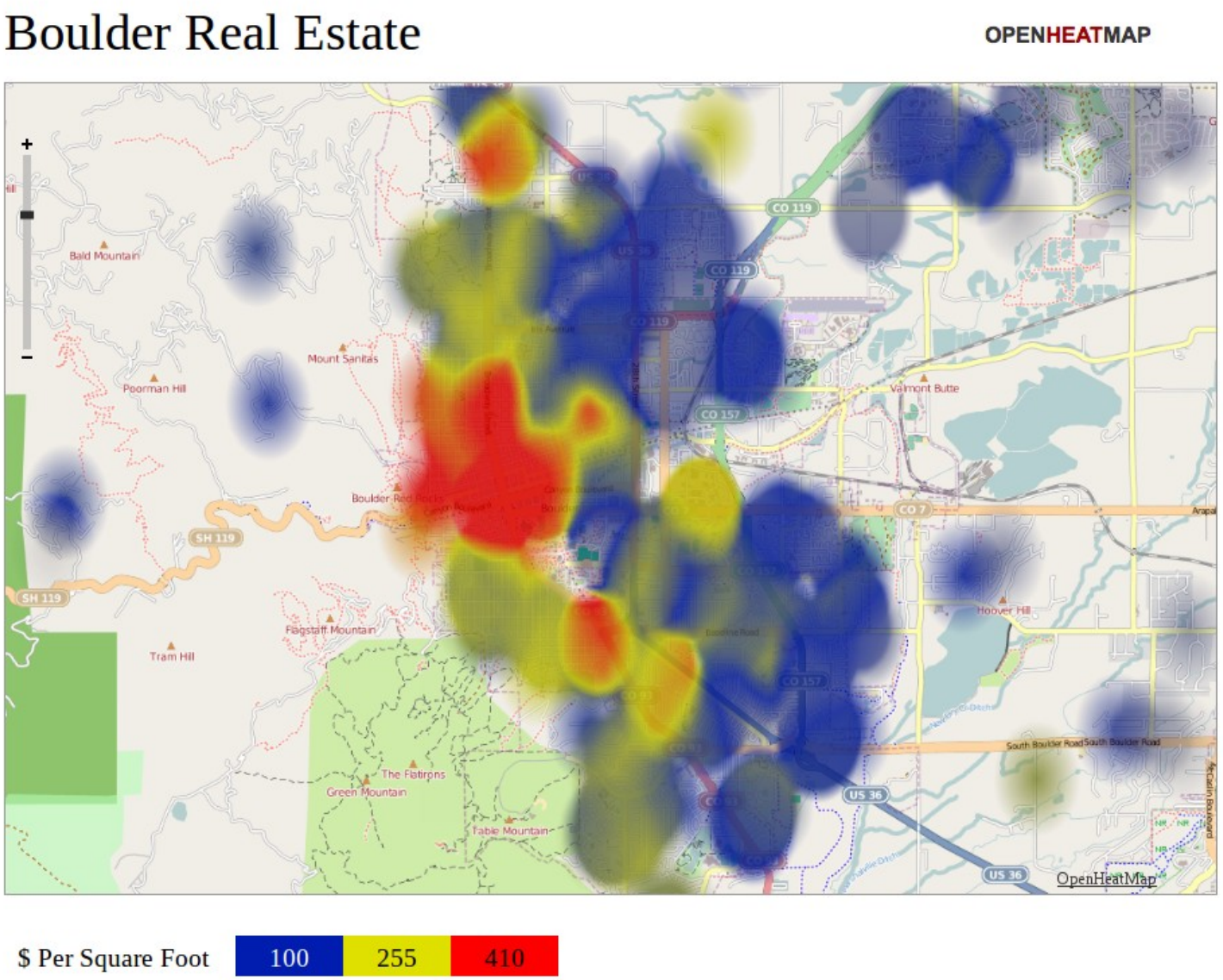
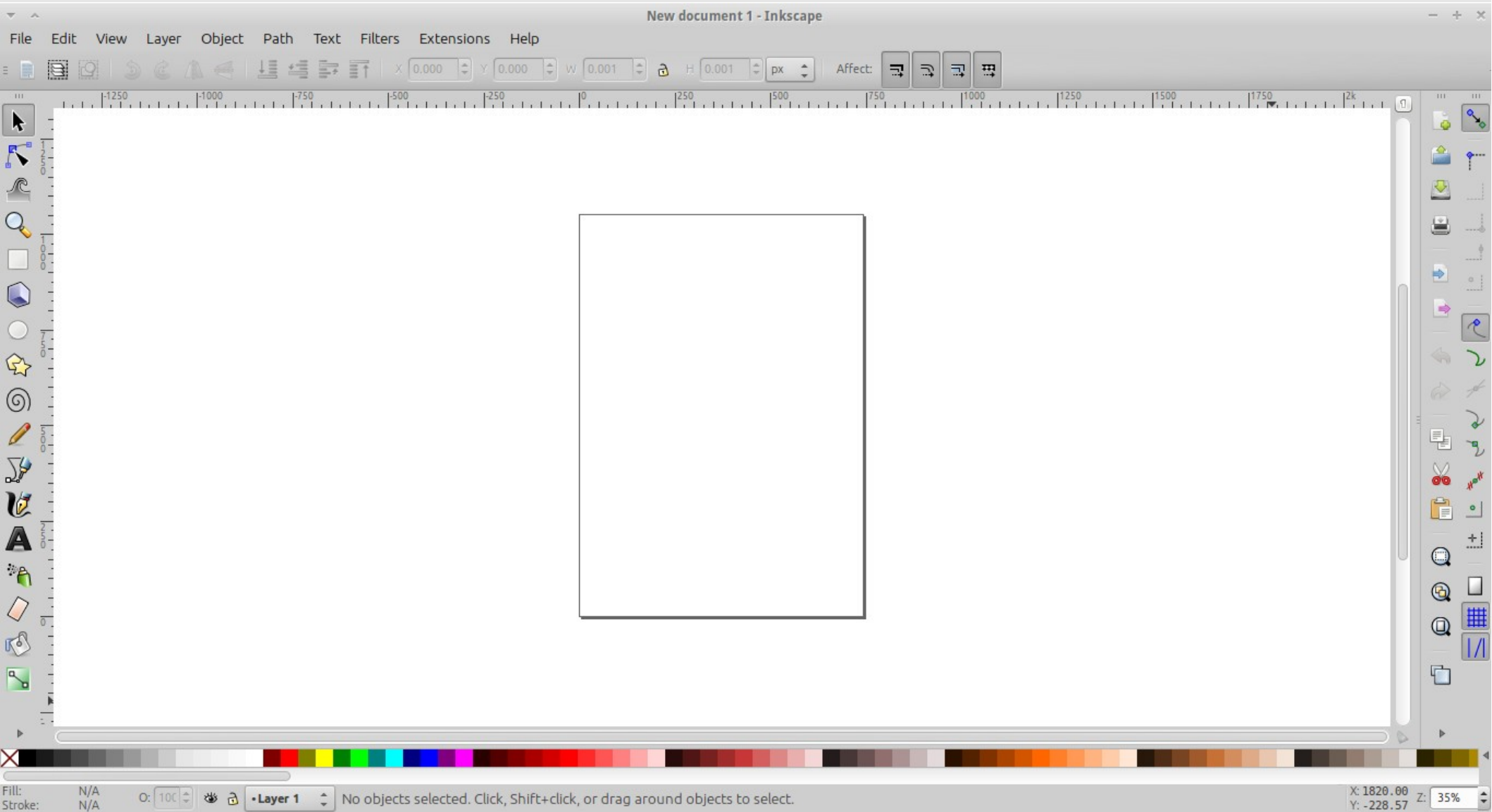
Make the charts your own. Configure an extensive set of options to perfectly match the look and feel of your website.

HTML5 / SVG

Cross-browser compatibility (adopting VML for older IE versions) and cross-platform portability to iOS and new Android releases. No plugins are needed.

Data Visualisation Tools
OpenHeatMap



Data Visualisation Tools
Wordle

Graphic Design Tools
Inkscape