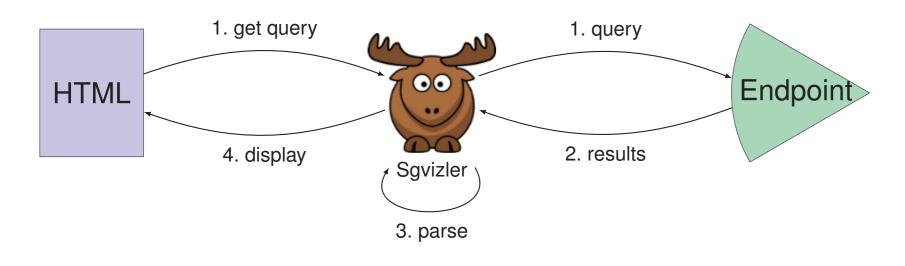
Sgvizler: A JavaScript Wrapper for Easy Visualization of SPARQL Result Sets

Synopsis

- Easy visualization of SPARQL SELECT queries.
- Embed charts directly into HTML by simply specifying SPARQL query and visualization function options.
- Compatible with all modern web browsers.
- Supports all major visualization functions in Google's Visualization API.
- Easy to modify and extend visualization functions.

How does it work?

- 1. On page load queries are issued to specified endpoints.
- 2. Results are collected in W3C's XML or JSON(P) format.
- 3. Then parsed into a Google DataTable [Goo].
- 4. The selected visualization function parses the datatable to a chart and puts the chart in the <div> element.



- Uses external libraries for endpoint communication ([Jqu]) and visualization (currently [Goo; D3; Dra]).
- All visualizations use the DataTable; a uniform interface, many convenient get-functions.
- Lightweight: 20 KB minified, 6 KB minified and gzipped.

Example HTML element

The following <div> element draws the Map (†), shown right, which is a user-extended function based on Map from [Goo].

<div data-sgvizler-endpoint="http://dbpedia.org/sparql"
 data-sgvizler-query="</pre>

data-sgvizler-chart="sMap"
data-sgvizler-chart-options="showTip=true"
data-sgvizler-format="jsonp" data-sgvizler-loglevel="2"
style="width: 800px; height: 600px;" id="id1"></div>

- Uses HTML5 compatible data- prefixed attributes.
- Order of variables in SELECT block must fit chart type, see [Sgv] for specifications.
- chart-options: give additional chart customizations.
- format: format query results should be received as.
- loglevel: amount of feedback given while preparing chart.

Screenshots

- All screenshots on the right are produced with Sgvizler, see [Sgv] for live examples.
- Unless noted otherwise, charts are rendered using [Goo].
- Most charts are interactive, best viewed on screen.

Links

[Goo] Google Chart Tools. URL: http://code.google.com/apis/chart/.

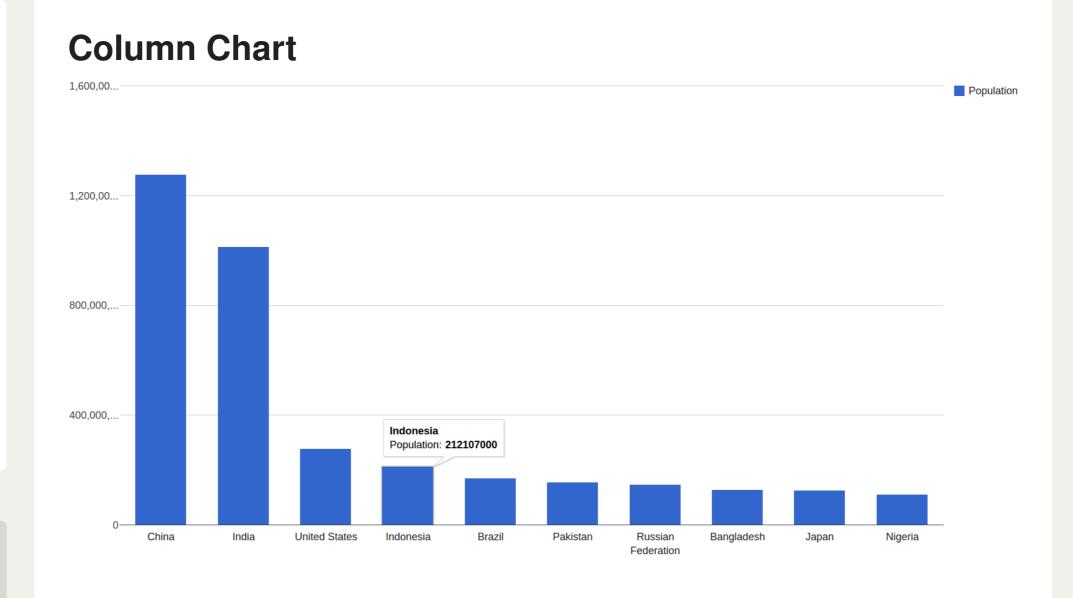
[Jqu] jQuery. URL: http://jquery.com/.

Sgv] Sgvizler. URL: http://code.google.com/p/sgvizler/.

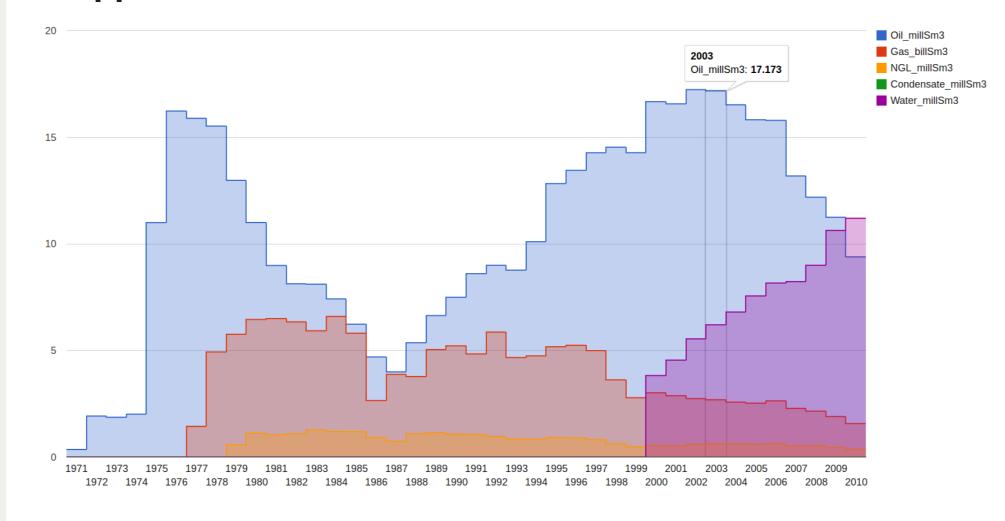
Dra] Dracula Graph Library. URL: http://www.graphdracula.net/.

3] D3.js. URL: http://mbostock.github.com/d3/.

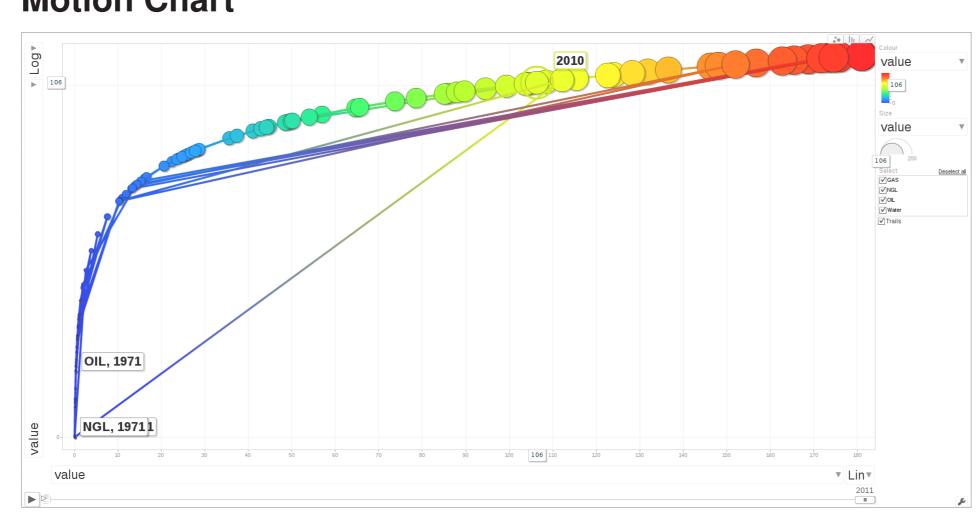
Quantitative data charts



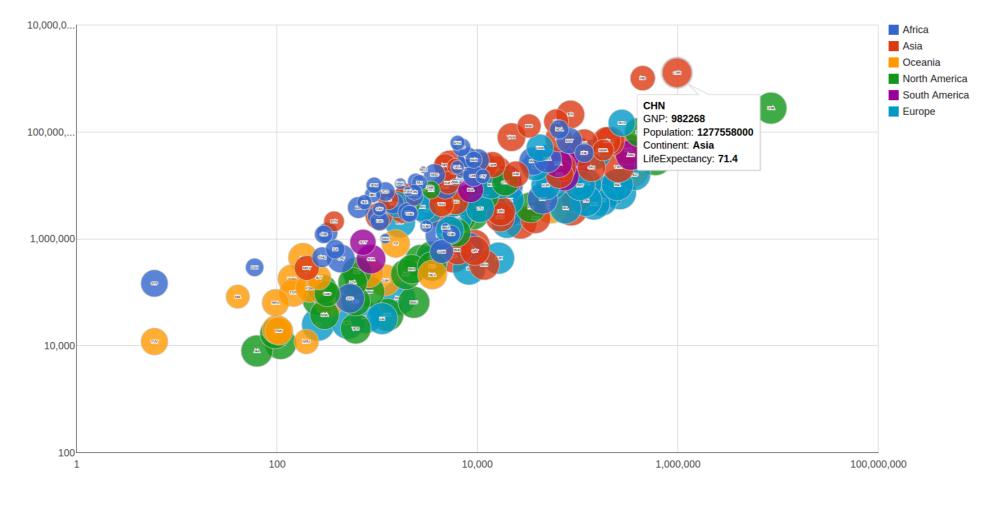
Stepped Area Chart



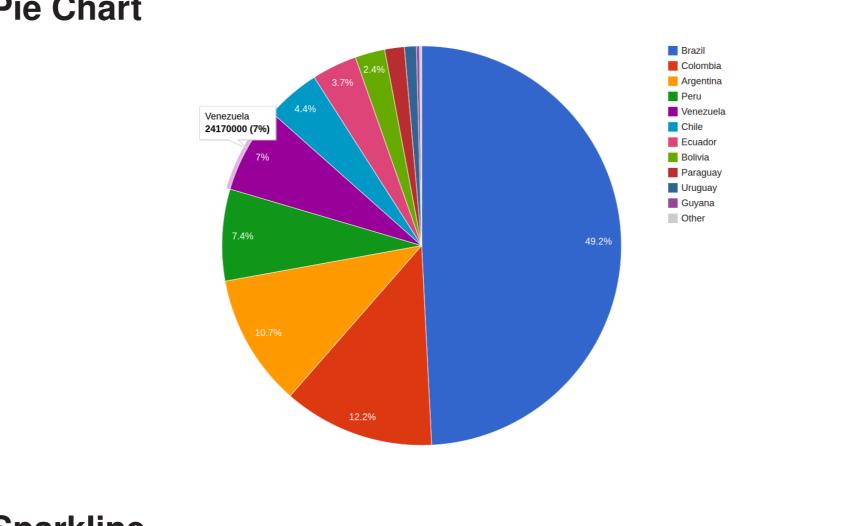
Motion Chart



Bubble Chart



Pie Chart

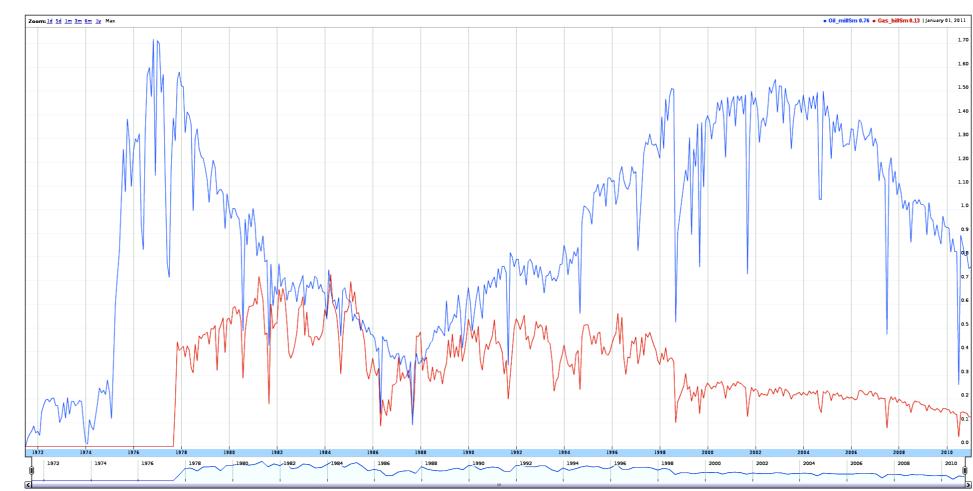


Sparkline

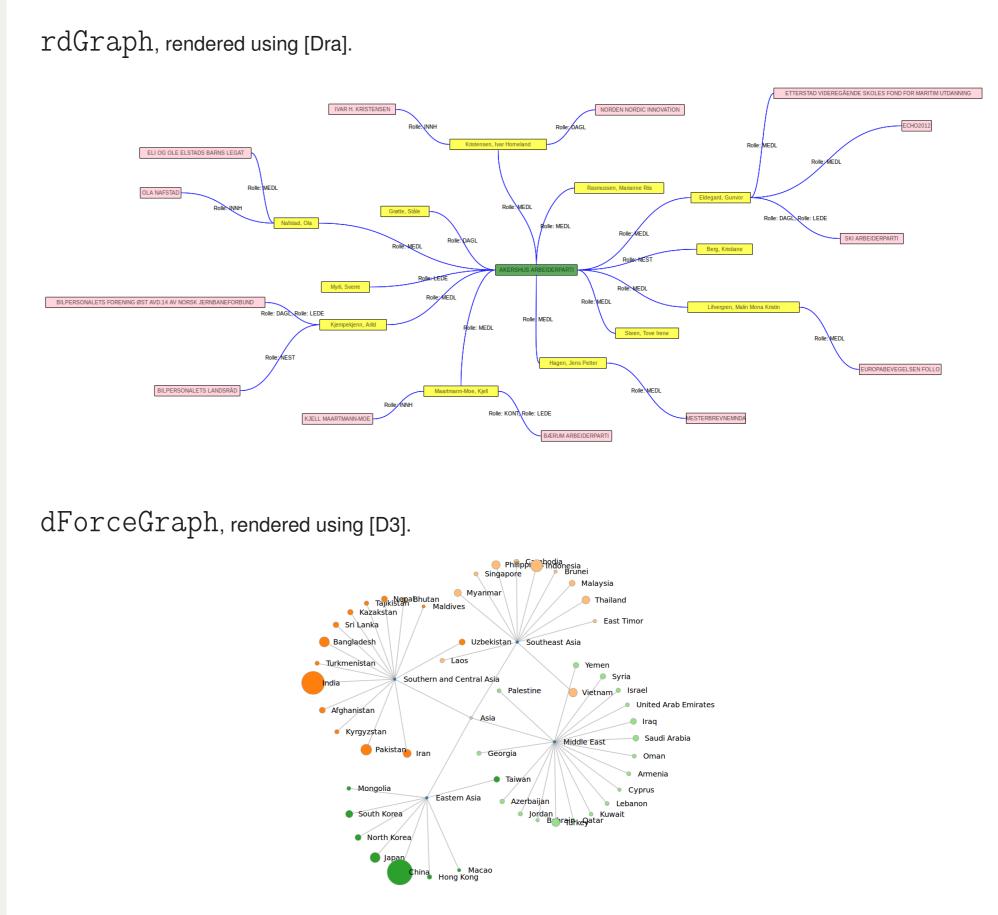


Temporal data chart

Timeline

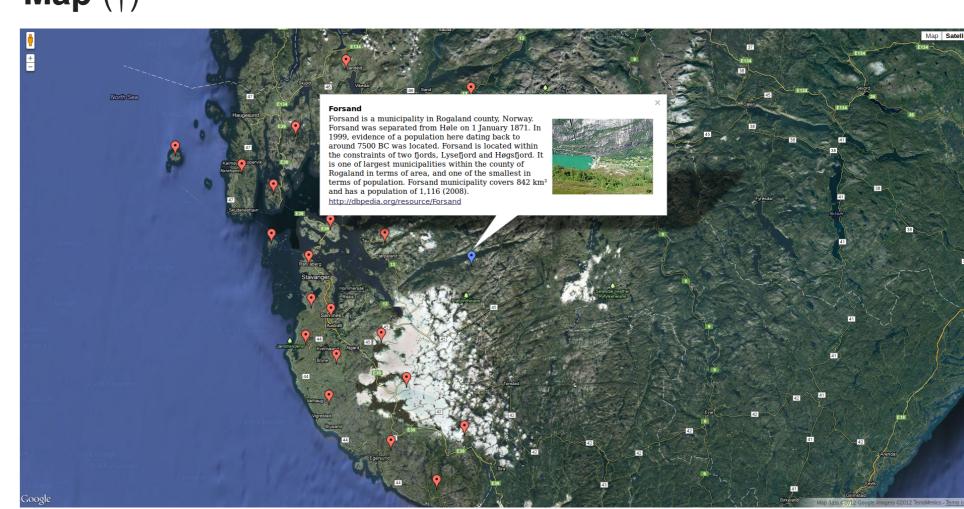


Graphs

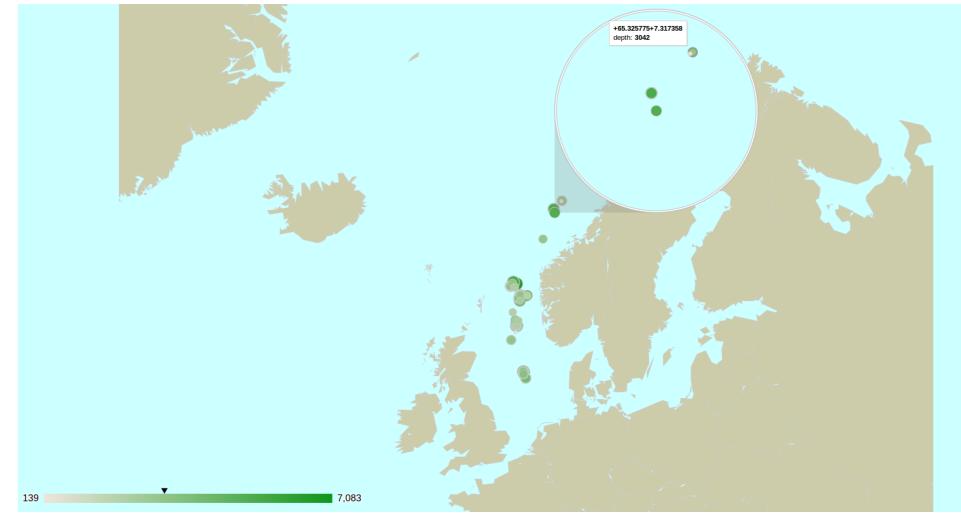


Geographical data charts

Map (†)

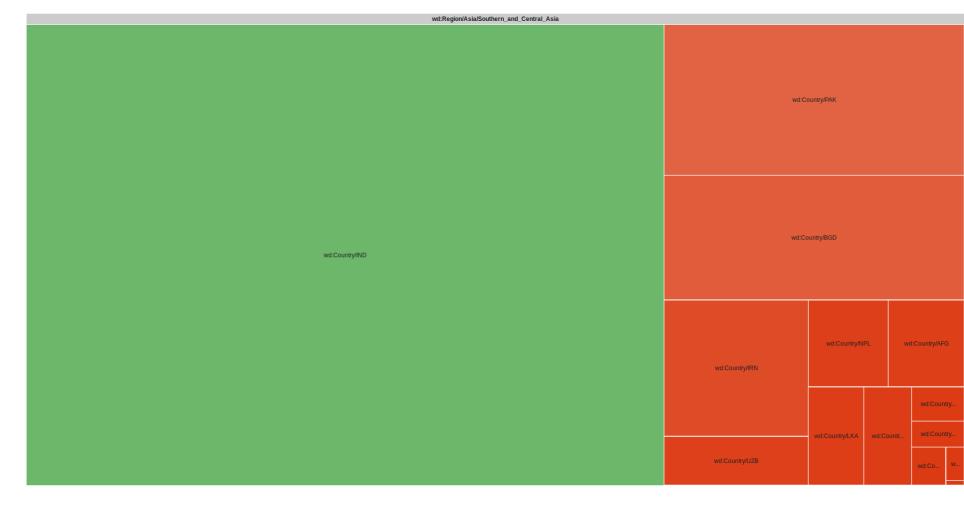


Geo Chart



Hierarchical data charts

Tree Map



OrgChart also available.

Text

Google's generic table rendering.

Supports also a few text rendering functions, created by simple DOM manipulation functions:

- Lists: , and <dl>.
- Table.
- Generic text rendering.