

Linked Statistical Data Analysis

<http://csarven.ca/linked-statistical-data-analysis>
<http://stats.270a.info/>

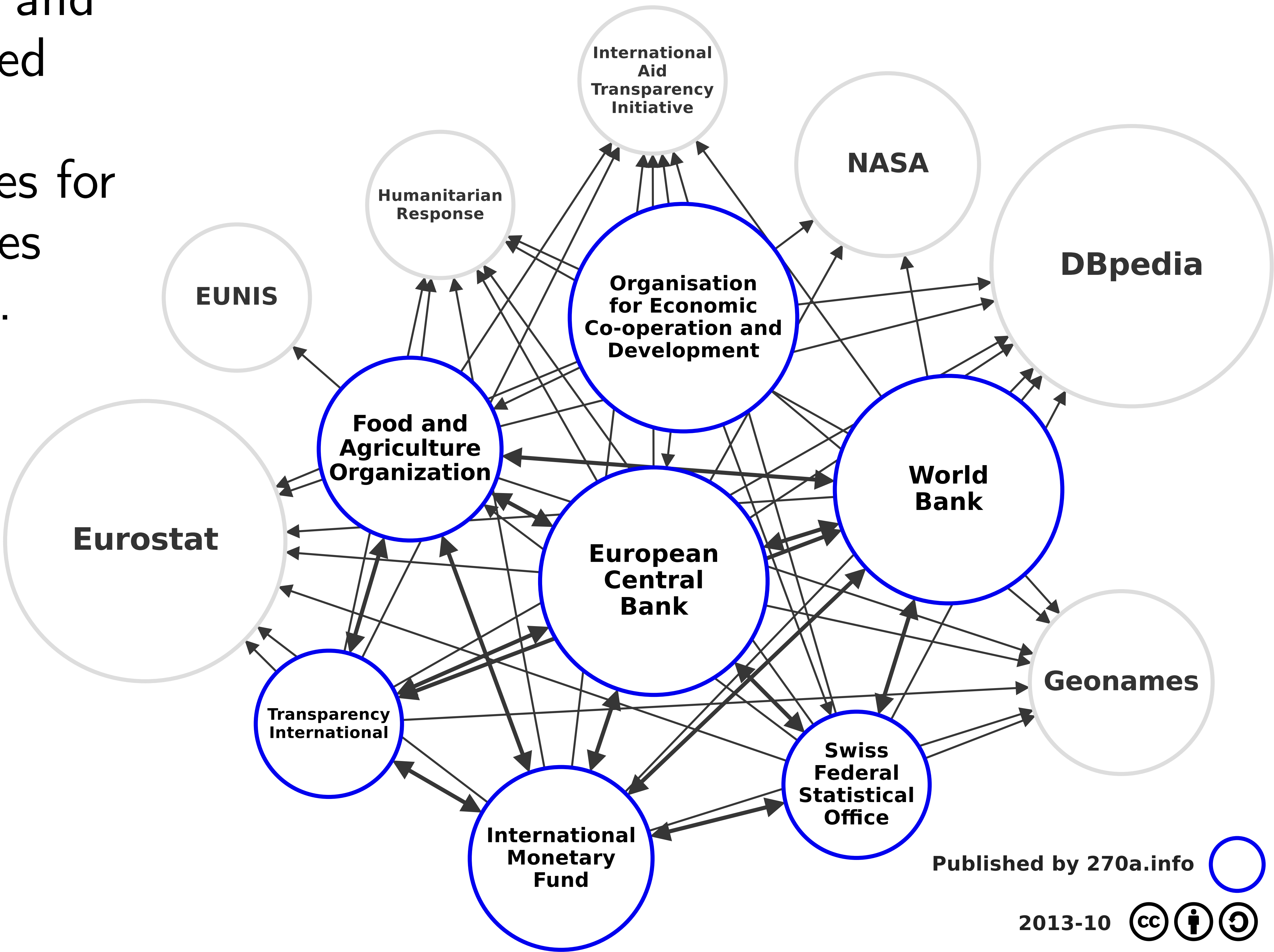
Stats Analysis is a human and machine-friendly Web based application which uses statistical linked dataspace for federated queries, generates analysis and visualisations.

Target users

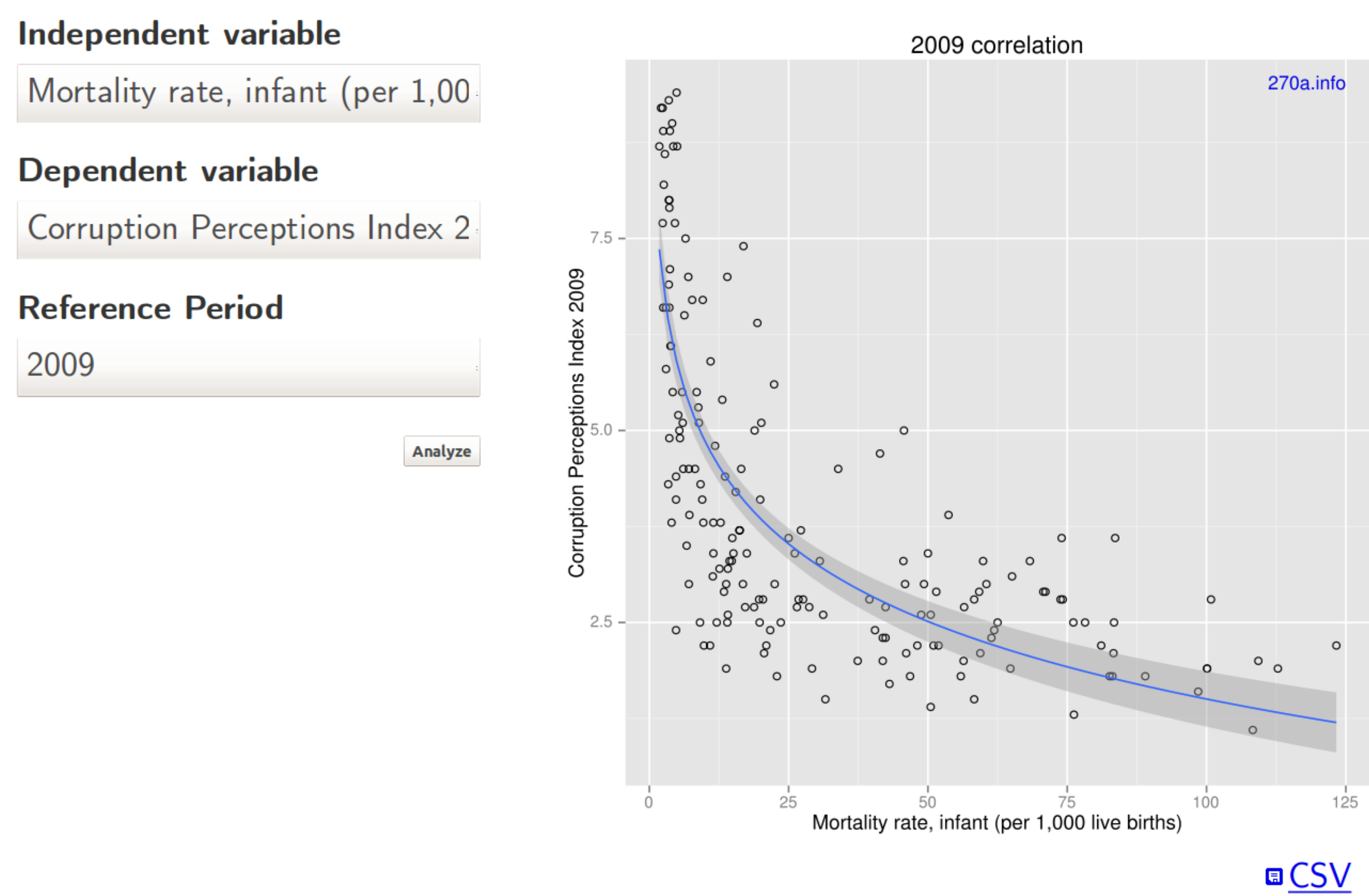
Researchers, journalists and interested people

Features

- Federated queries
- Regression Analysis
- Visualisations
- Provenance
- Human and machine-friendly statistical artefacts



<http://stats.270a.info/analysis/worldbank:SP.DYN.IMRT.IN/transparency:CPI2009/year:2009>



| | |
|--------------------------------------|--|
| Independent variable | Mortality rate, infant (per 1,000 live births) |
| Dependent variable | Corruption Perceptions Index 2009 |
| Reference period | 2009 |
| N (sample size) | 176 |
| Correlation (kendall) | -0.569846373857941 |
| p-value | 1.03137019846232e-28 |
| Adjusted R ² (max tested) | 0.600276965069989 |
| Linear model (best tested) | $y \sim \log(x)$ |

Oh yeah?

Advantages

- Interplay of statistical computing and Semantic Web technologies
- Simple user-interface for target users
- Reusable and discoverable statistical data analysis and visualisations
- Decentralized approach
- Scalable, and uses multiple-endpoints
- Stores and caches user-generated analysis

| | |
|---|--|
| http://stats.270a.info/provenance/fa698e46868fe348865678884e89ef84b0be6c64 | |
| Label | Generated Analysis 'Mortality rate, infant (per 1,000 live births)' and 'Corruption Perceptions Index 2009' at '2009' [en] |
| Type | Activity |
| License | CC0 1.0 Universal |
| Generated | Analysis of 'Mortality rate, infant (per 1,000 live births)' and 'Corruption Perceptions Index 2009' at '2009' |
| StartedAtTime | 2013-07-20T19:19:48Z |
| used | SPARQL Query URI to retrieve the data for 'Mortality rate, infant (per 1,000 live births)' and 'Corruption Perceptions Index 2009' at '2009' http://worldbank.270a.info/dataset/SP.DYN.IMRT.IN http://transparency.270a.info/dataset/CPI2009 http://reference.data.gov.uk/id/year/2009 https://github.com/csarven/lsd-analysis |
| WasAssociatedWith | Sarven Capadisl |