LINKED OPEN DATA - POTENTIALE UND GRENZEN

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https://github.com/Rascat

https://ag-link.xyz
Übersicht

• Was ist Linked Open Data?
  ▪ Was ist Linked Data?
  ▪ Was ist Open Data?
• Potentiale und Grenzen
• Zusammenfassung
• Fragestellung
The traditional web -

The semantic web -
"[Linked Data] builds upon standard Web technologies such as HTTP, RDF, and URIs, but rather than using them to serve web pages only for human readers, it extends them to share information in a way that can be read automatically by computers. Part of the vision of linked..."
Linked Data: Design Principles

1. Use URIs as names for things
2. Use HTTP URIs so that people can look up those names.
3. When someone looks up a URI, provide useful information, using the standards (RDF*, SPARQL)
4. Include links to other URIs, so that they can discover more things
“Open data and content can be freely used, modified, and shared by anyone for any purpose”

https://opendefinition.org/
OPEN DATA KONFORME LIZENZEN
UK Legislation (Edit)

About this dataset
API access to UK primary and secondary legislation. The API provides access to legislation from the UK Statute Law Database and the OPSI website in HTML, XML and RDF formats. The data is not available for download as an entire set. See the documentation in the developer zone for further details. License: http://reference.data.gov.uk/id/open-government-licence

| Total size | 1,900,000,000 triples |
| Namespace | http://www.legislation.gov.uk/ |
| Links to dbpedia | 33 triples |
| Links to ordnance-survey-linked-data | 16,000,000 triples |
Available on the web (whatever format) *but with an open licence, to be Open Data*

Available as machine-readable structured data (e.g. excel *instead of* image scan of a table)

As (2) plus non-proprietary format (e.g. CSV *instead of* excel)

All the above plus, use open standards from W3C (RDF and SPARQL) to identify things, so that people can point at your stuff
PROBLEMFELDER LOD NACH NOSHEEN ET AL.

- Publishing and Managing Huge Datasets
- Linking Datasets on Linked Open Data
- Consuming Linked Open Data
"WSMO-Lite Ontology" (wl) uses that is not defined in the rdf namespace instead of using, that is actually defined in the rdfs namespace.

Poveda-Villalon et al.: Detecting Good Practices and Pitfalls when
https://wikipulse.herokuapp.com/
LINKED DATA: INTERESSE IM ZEITLICHEN VERLAUF

https://trends.google.com/trends/explore?
QUELLEN

- https://lod-cloud.net/dataset/uk-legislation-api
- https://lod-cloud.net/dataset/dbpedia
- https://lod-cloud.net/dataset/wikidata
QUELLEN

• https://opendefinition.org/od/2.1/en/
QUELLEN

• G. Goos et al., “Lecture Notes in Computer Science.”
VIELEN DANK FÜR EURE AUFMERKSAMKEIT