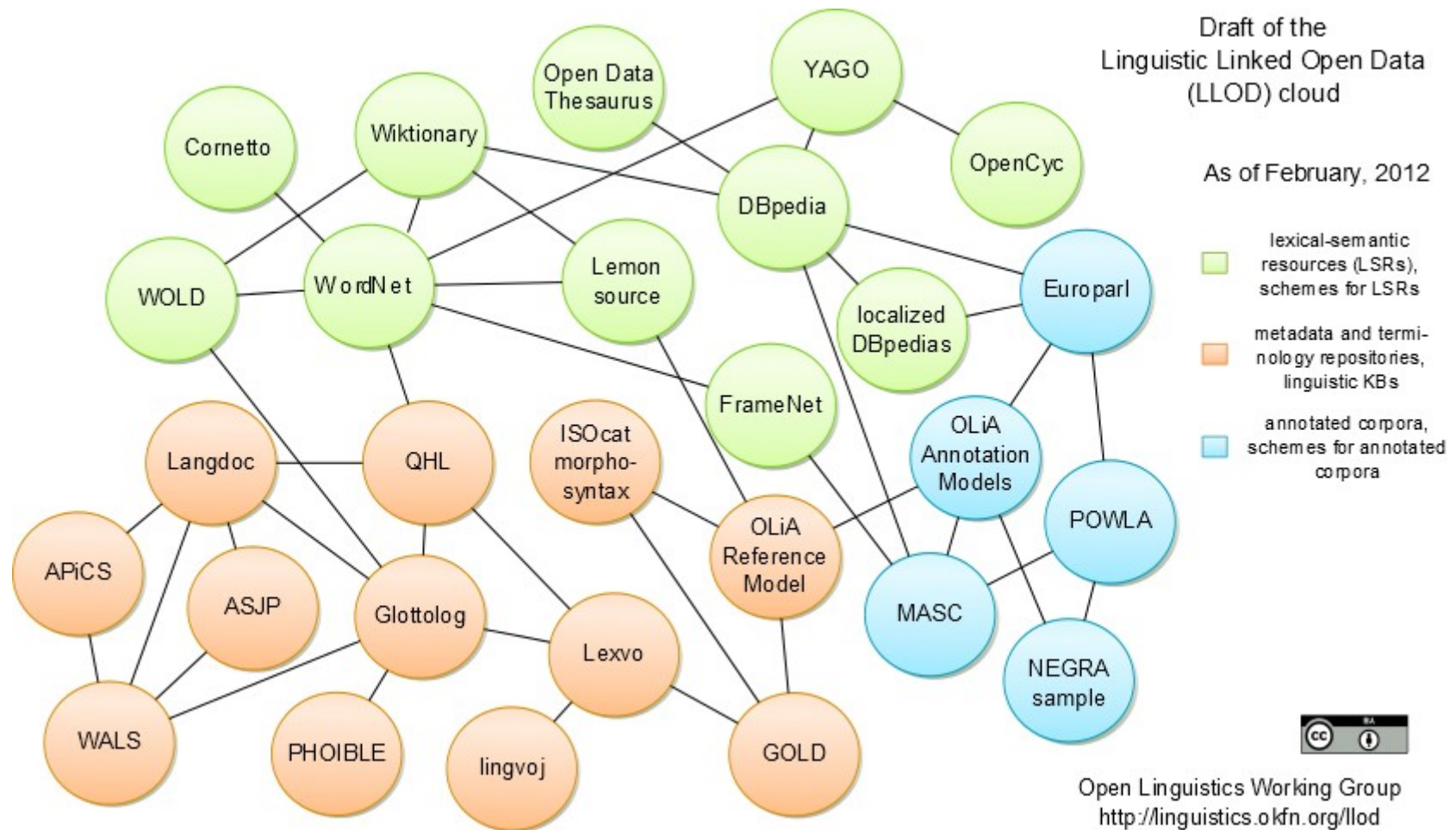


Linguistic Linked Open Data Cloud (PanLex)

Gliederung

- Aufgabenstellung
- Done
- ToDo

Aufgabenstellung

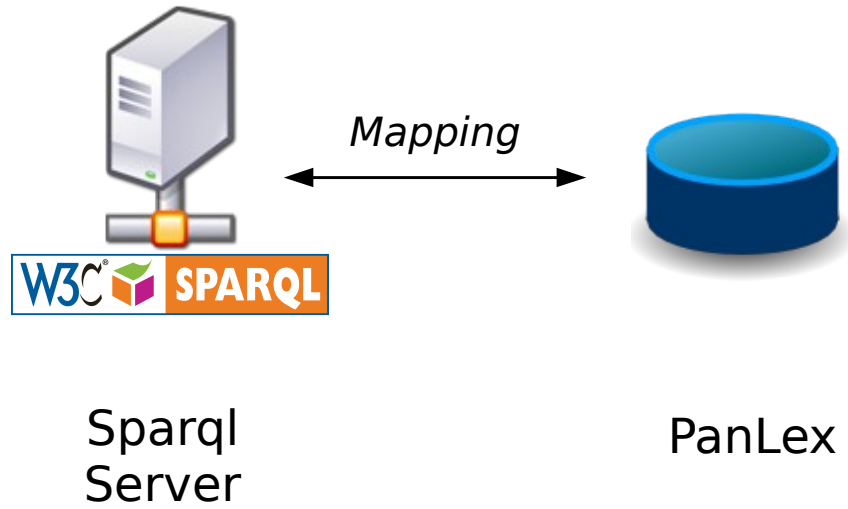


Aufgabenstellung

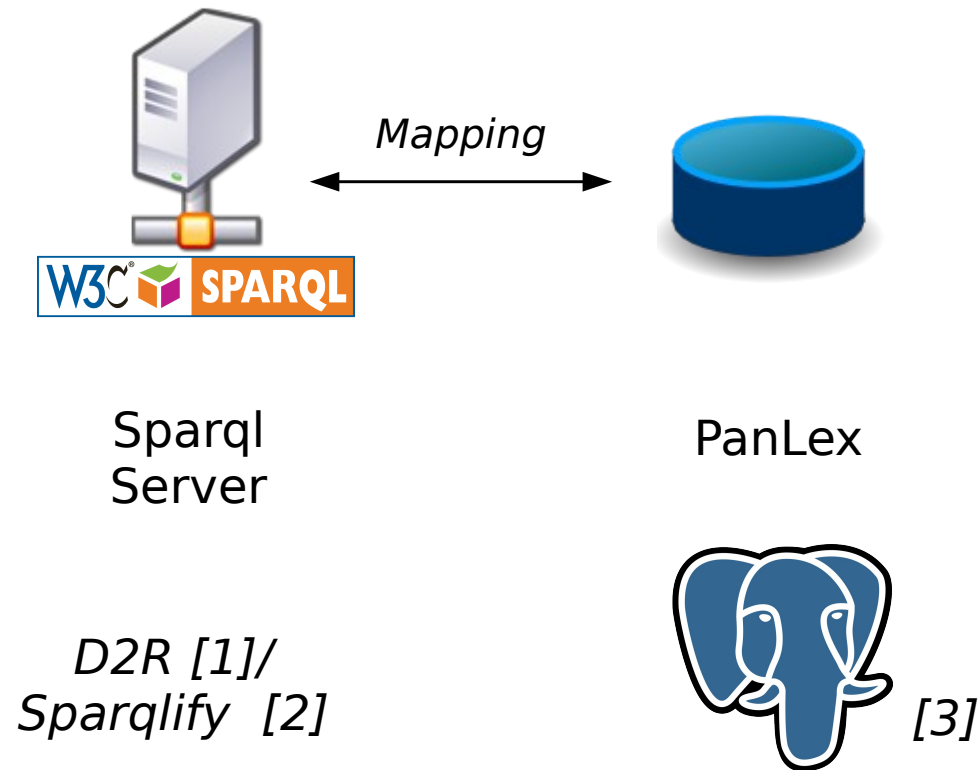
PanLex

„As a contribution to long-term linguistic diversity, the PanLex project works to enable the translation of any word from any language into any other language.“ [0]

Aufgabenstellung



Aufgabenstellung



Done



Datenbank

- RO-Zugriff
- Dump (tabellenweise) ~2.5 GByte
- Datenimport

Done



plx=> \dt

Liste der Relationen

Schema	Name	Typ	Eigentümer
public	af	Tabelle	apache
public	ap	Tabelle	apache
public	aped	Tabelle	apache
public	apf	Tabelle	apache
public	apli	Tabelle	apache
public	au	Tabelle	apache
public	av	Tabelle	apache
public	cp	Tabelle	apache
public	cu	Tabelle	apache
public	df	Tabelle	apache
public	dfid	Tabelle	apache
public	dfp	Tabelle	apache
public	dm	Tabelle	apache
public	dmid	Tabelle	apache
public	dn	Tabelle	apache
public	dnid	Tabelle	apache
public	ex	Tabelle	apache
public	exap	Tabelle	apache
public	exid	Tabelle	apache
public	exq	Tabelle	apache
[...]			

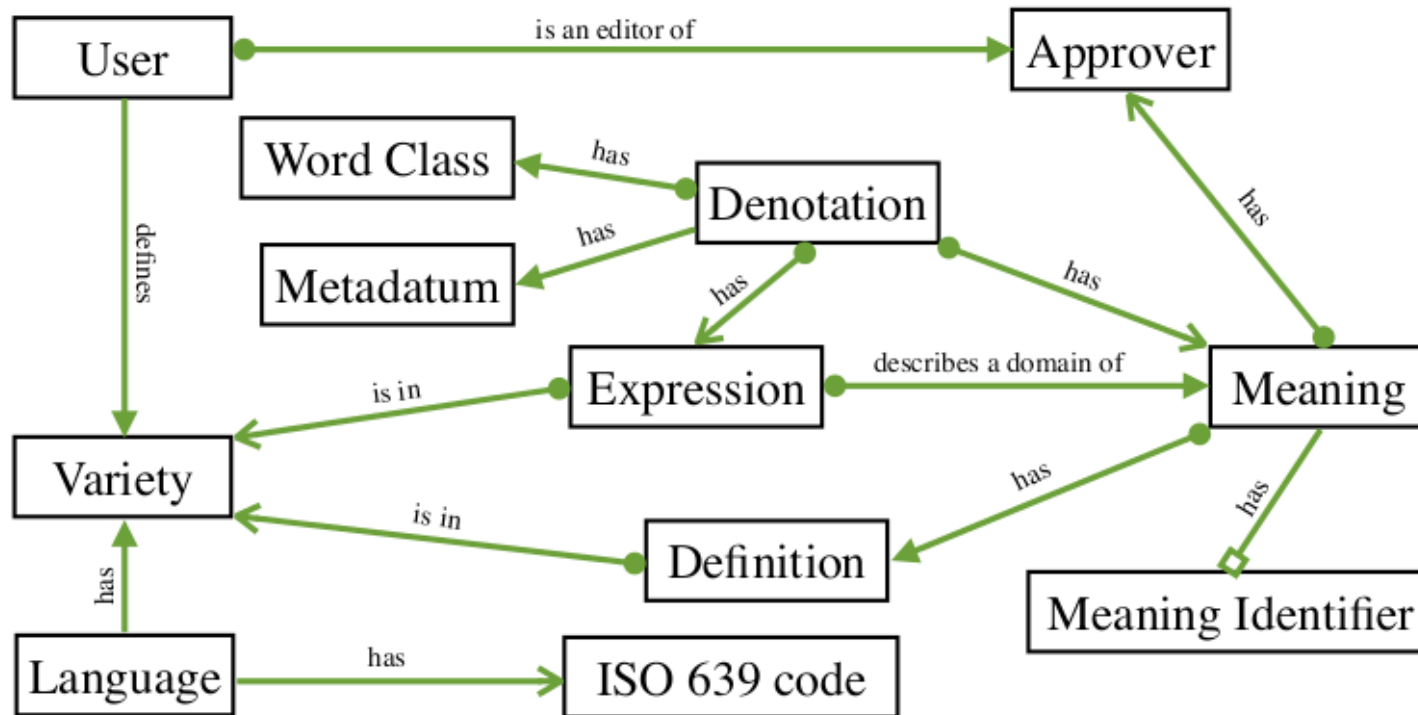
Done



plx=> \dS ap

Tabelle »public.ap«		
Spalte	Typ	Attribute
ap	integer	not null
dt	date	not null Vorgabewert ('now'::text)::date
tt	text	not null
ur	text	
bn	text	
au	text	
ti	text	
pb	text	
yr	smallint	
uq	smallint	not null
ui	smallint	
ul	text	
li	character(2)	
ip	text	
co	text	
ad	text	

Done



[4]

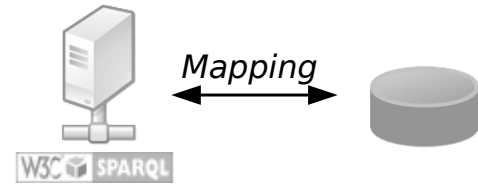
Done



Sparqlify

- Java
- am AKSW von Claus Stadler entwickelt
- seit März 2012
- eigene Mapping-Sprache

Done



Mapping

Prefix `plx:<http://panlex.org/>`

Create View `ap` As

Construct {

`?s a plx:Publication .`

}

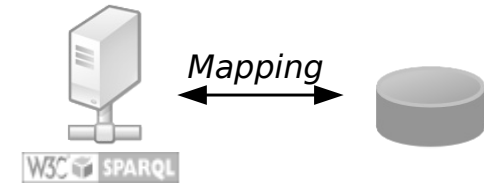
With

`?s = uri(concat(plx:publications, '/', ?ap))`

From

`ap`

Done



Mapping

```
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:j.0="http://panlex.org/" >
  <rdf:Description rdf:about="http://panlex.org/publications/4">
    <rdf:type rdf:resource="http://panlex.org/Publication"/>
  </rdf:Description>
  <rdf:Description rdf:about="http://panlex.org/publications/37">
    <rdf:type rdf:resource="http://panlex.org/Publication"/>
  </rdf:Description>
  <rdf:Description rdf:about="http://panlex.org/publications/7">
    <rdf:type rdf:resource="http://panlex.org/Publication"/>
  </rdf:Description>
  <rdf:Description rdf:about="http://panlex.org/publications/11">
    <rdf:type rdf:resource="http://panlex.org/Publication"/>
  </rdf:Description>
  <rdf:Description rdf:about="http://panlex.org/publications/1">
    <rdf:type rdf:resource="http://panlex.org/Publication"/>
  </rdf:Description>
  [...]
```

Prefix plx:<http://panlex.org/>

Create View ap As

```
Construct {
  ?s a plx:Publication .
}
```

With

```
?s = uri(concat(plx:publications, '/', ?ap))
```

From

```
ap
```

ToDo

DB

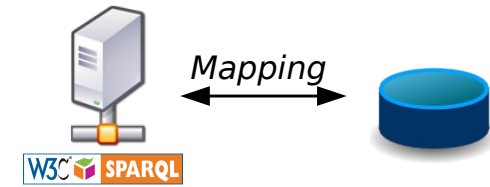
- Schema durchdringen
- Dump und Import auf Dev-Server

Sparqlify

- Testing
- Doku

Mapping

- fertigstellen



Quellen

- [0] <http://panlex.org>
- [1] <http://d2rq.org/d2r-server>
- [2] <http://aksw.org/projects/Sparqlify>
- [3] <http://www.postgresql.org/>
- [4] <http://panlex.org/tech/doc/panlex-db-design.pdf>
- [5] <http://www.opensecurityarchitecture.org/cms/library/icon-library>
- [6] <http://www.icon-king.com/projects/nuvola/>