Lab 2 – RDF

1 All about Yutz

Using `curl`, retrieve information in the Turtle format about the town of Yutz in DBpedia (`https://dbpedia.org/resource/Yutz`). To make things easier, you can save it into a file, for example by using redirection (`>`), e.g.

```
curl ...Yutz" > yutz.ttl
```

will save the result into a file called `yutz.ttl`.

Draw the graph of entities connected to Yutz, ignoring all triples with the predicates:

- `dbo:wikiPageWikiLink`
- `dbp:wikiPageUsesTemplate`
- `dbo:wikiPageRedirects`
- `rdf:type`
- `rdfs:comment`
- `dbo:abstract`
- `owl:sameAs`

and only included the triples with English literals when language tags are used.

2 Named graphs

Using the prefix `ex1:<http://example.org/ex1/>` for all new entities (Mary, Mathieu, the graphs, the predicates, etc.) Write in RDF with the Trig syntax the following:

- In Mary's graph, it is stated that Mary was born in Thionville (`https://dbpedia.org/resource/Thionville`) and lives in Yutz. It is also stated that Yutz is close to Thionville, and that it includes a school (blank node) that has 120 students.
- In Mathieu's graph it is stated that Mathieu lives in Yutz and went to school in Thionville. It is also stated that Thionville is better than Yutz.
- Mary is the author of Mary's graph and Mathieu is the author of Mathieu's graph.
- In Mathieu's graph, it is also stated that Mathieu agrees with Mary's graph.
- In Mary's graph it is stated that Mary disagrees with the statement that Thionville is better than Yutz.

3 M1 NLP in RDF

The website of the IDMC does not provide RDF descriptions of the information it contains, only HTML. Looking at the page at `https://idmc.univ-lorraine.fr/courses/master-degree-1-nlp/` write an RDF description of the first year NLP master. Start by listing the types of entities (to use with the `rdf:type` predicate) and the predicates you will need. Write down your description using the prefix `idmc:<https://idmc.univ-lorraine.fr/entity/>`.

Can you think of entities from other graphs (e.g. DBpedia.org, wikidata.org, geonames.org, etc.) which you can link to in your graph?