Exercise 2 – Discussion on September 22nd

Assignment 1: Modeling in RDF

Model the following statements as RDF:

• Brass is an alloy made from copper and Zinc.
• SPIEGEL is a German news magazine, whose headquarter is in Hamburg.
• An essay is comprised of an introduction, a main part, and a conclusion.
• Markus knows that Jutta lives in Darmstadt.
• Jutta says that her friend lives in Mannheim.
• Stefan thinks that Anna knows that he knows her father.

You can use RDF Distiller for validating your solutions:
http://rdf.greggkellogg.net/distiller

Assignment 2: Interpreting RDF

You are given the following RDF document telling you which students visit which courses.

```rdf
:Peter :visits :Distributed_Systems .
_:x :visits :Semantic_Web_Technologies .
_:x :visits :Data_Mining .
:Peter :visits _:y .
:Mary :visits _:y .
```

How do you interpret this document? Think of questions like:

– Who is visiting which lecture?
– How many people visit a certain lecture?
– How many lectures are there?

Try to come up with a natural language paraphrase of the RDF document which is as precise as possible.

Assignment 3: RDFa and Microdata

Create a small web page about a book, a movie or the like of your choice. Add RDFa annotations and validate the result in a web browser (for humans) and in Google's Developer Tools:

https://developers.google.com/structured-data/testing-tool/

Now try the same with Microdata.