# Findings

We can see a couple of directions from here but each has it's own ups and downs. First off we want to use this ontology for multimedia metadata: <http://ansgarscherp.net/ontology/m3o.semantic-multimedia.org/>. We could find the M3O in the format of RDF/XML which explains the concepts and the properties. In addition it also has a couple of examples of each standard that show how individuals can be appended.

We expect to write a query that retrieves two individuals of the same class stored in two different datasets. Ie:



Here are more queries we try to get inspiration from - <https://bit.ly/2GuFinr>

## M3O(RDF/XML) -> sqlite -> sparql

### what we need to do

* manually create m3o dataset for standard1
* manually create m3o dataset for standard2
* convert m3o datasets to turtle
* import it to sql lite
* install jena
* learn sparql to query the datasets

### downs

* hard to work with it because of sofisticated model
* too scientific, not widely adopted - https://twobithistory.org/2018/05/27/semantic-web.html; https://medium.com/terminusdb/graph-fundamentals-part-3-graph-schema-languages-1fc25ca294dd
* jena and sparql can bring extra complexity

### ups

* sparql is well documented and flexible

## M3O(turtle) -> neo4j -> Neo4j cypher

### what we need to do

* convert the m3o rdf/xlm to turtle
* manually create m3o dataset for dublincore
* manually create m3o dataset for mpeg7
* convert m3o datasets to turtle
* import the turtle to neo4j
* learn cypher to query the graph

### downs

* some documentation is missing;
* converting to turtle might bring extra complexity

### ups

* one of the steps is already implemented - use neo4j semantics library to import ontology as a turtle format <https://neo4j.com/docs/labs/nsmntx/current/importing-ontologies/>

## JSON-LD -> MongoDb -> Google Cayley

### what we need to do

* create the ontology or some kind of model(otherwise use the schema.org as context)
* manually create json-ld dataset for standard1
* manually create json-ld dataset for standard2
* we could index and query in mongo loosing the connections or use the cayley

### downs

* OWL is obsolete and not supported with Json-ld

### ups

* the Linked Data State Of Art