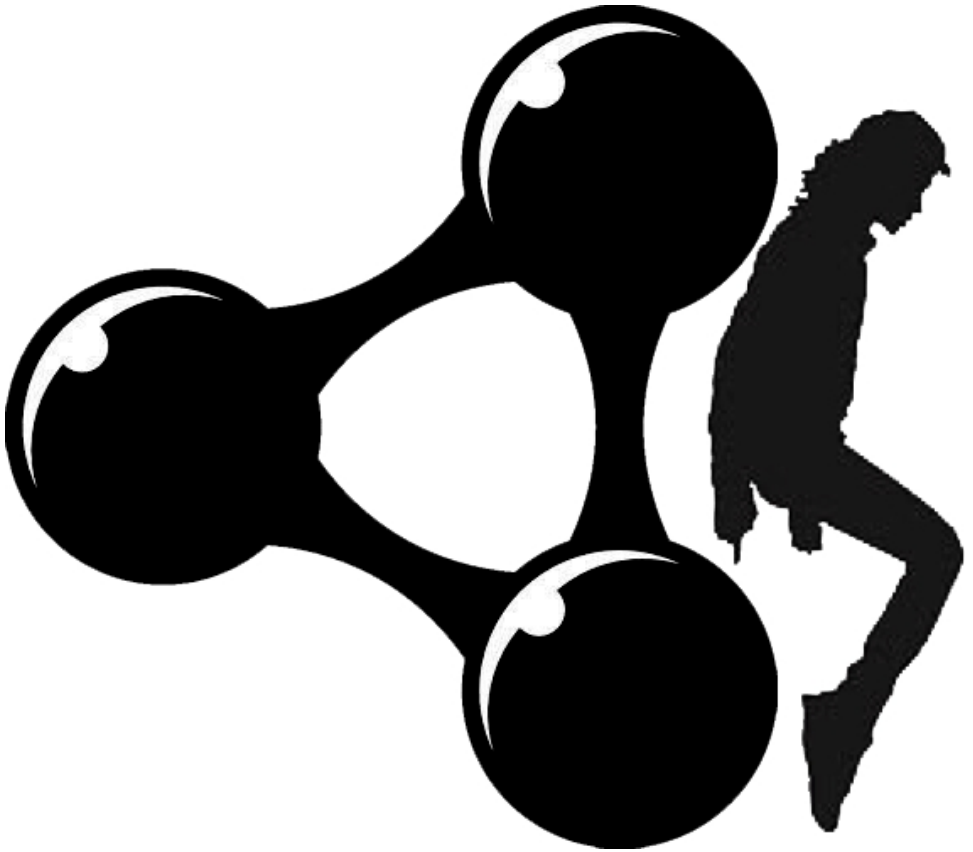
It's never Black and White

Ever been stuck at a boring wedding party?

We are taking your pain away.



Sorry... Patent pending

How to get the right data?

We asked these guys:

But we will ask for the user's permission to reuse their data first:

,

and registration form

We assume these data to be structured in the rest of the presentation

The problem

Suggesting groups of participants according to their profiles

The solution

Machine learning
→ old problem, good solution.

The problem²

The algorithms are great,
But the data is not in place.

Facebook search graph

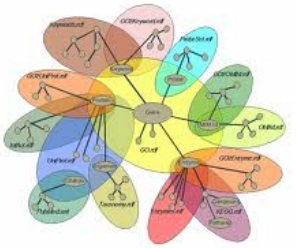
Profile triplestore

Foaf profile data store

Set of profiles

RDF Graph

Usecase knowledge



UseCase triplestore

DBPedia Triplestore

Enricher Service

Enriched
RDF Graph

Similarity computation

Set of Similarity scores

Survey

User feedback

SVM

Set of Property
weights

Ranking computation

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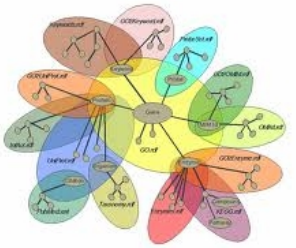


UseCase triplestore

Enriched
RDF Graph

Lodminer

Set of Similarity scores

Survey

User feedback

SVM

Set of Property
weights

Ranking computation

Similarity computation

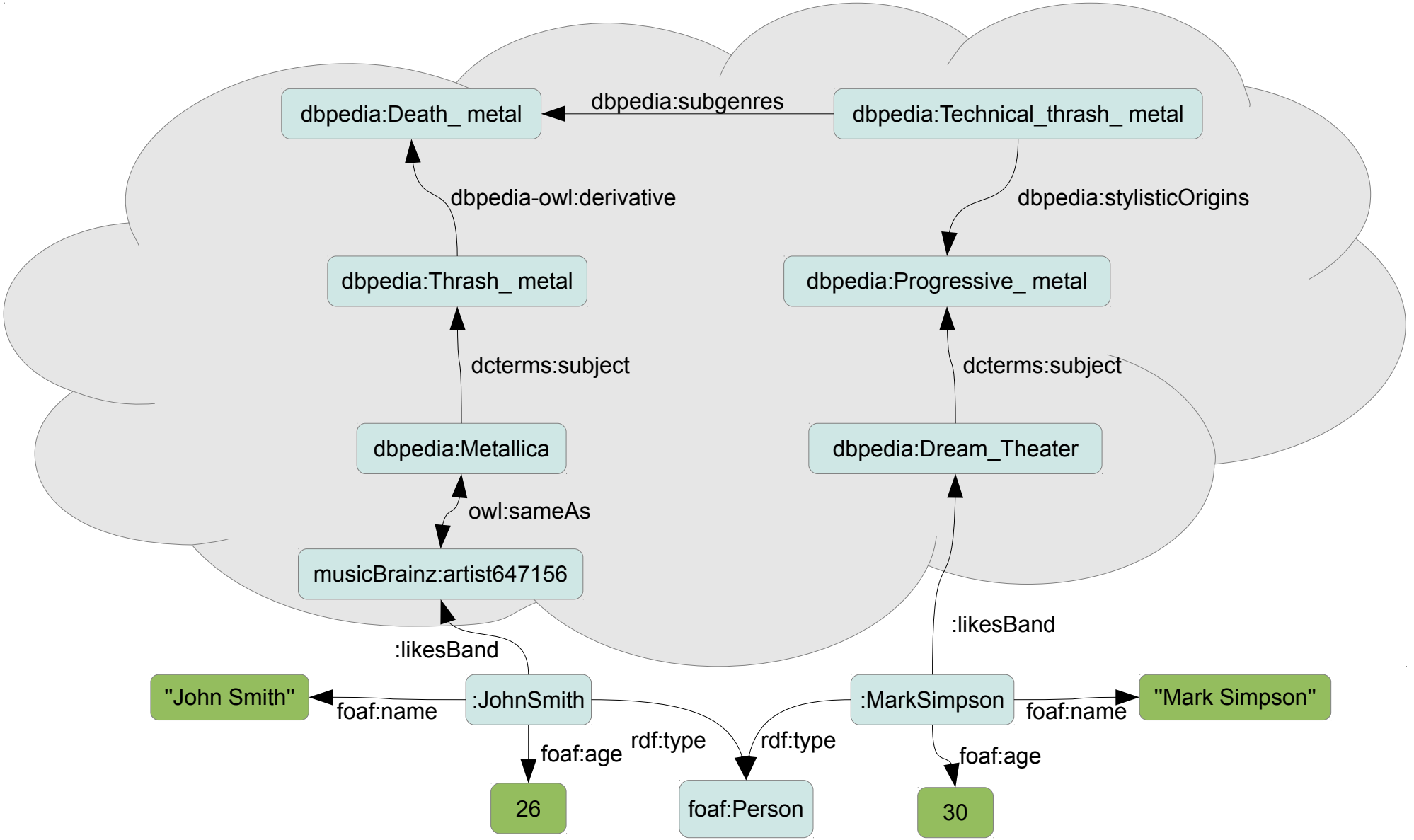
How to compute similarity between *datatype values*?

Using string (edit distance, q-grams, …) or numerical similarity measures. → syntactic

How to compute similarity between *objects*?

Using DBpedia categories to find a path between the objects in the RDF graph. → semantic

Use case: RDF Graph



"Life itself is your teacher, and you are in a state of constant learning."

— Bruce Lee