

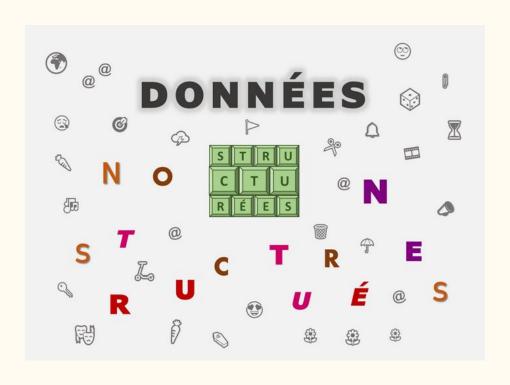
Data linking and keys project

— Réalisé par : Haytham Ait Ettajer Jean Mohamed Sawadago Salma Damak

Sommaire

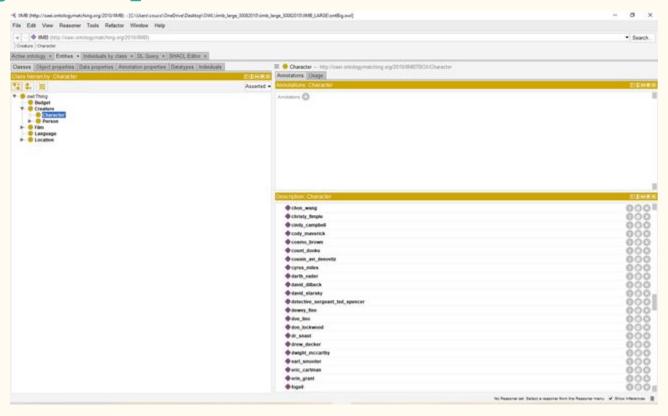
- Introduction
- Analyse et prétraitement des données
- SAkey
- Limes
- Conclusion

Introduction



IIMB CINÉMA BENCHMARK





- objectif : Réduire la taille des fichiers sans perdre d'informations
- travail:
 - supprimer les propriétés non pertinentes
 - supprimer les redondances
 - supprimer les propriétés aberrantes
 - Comparaison par rapport à la grande base

- supprimer les propriétés non pertinentes

Supprimer les propriétés avec des textes longs

- Si le nombre de mots total dans un article > seuil : on supprime le texte.
- Si le nombre de mots total dans un article < seuil : on garde le texte.

```
<p
```

- supprimer les propriétés non pertinentes
- supprimer les redondances
 - Utilisation du fichier "refalign.rdf".
 - Intuition
 - Utilisation du fichier "ontBig.owl"

```
<Cetl>
    <entity1 rdf:resource="http://oaei.ontologymatching.org/2010/IIMBDATA/en/botswana"/>
    <entity2 rdf:resource="http://oaei.ontologymatching.org/2010/IIMBDATA/en/item1275791610320834728"/>
    <relation>=</relation>
    <measure rdf:datatype="http://www.w3.org/2001/XMLSchema#float">1.0</measure>
</Cetl>
```

- supprimer les propriétés non pertinentes
- supprimer les redondances
- supprimer les propriétés aberrantes
 - Utilisation du fichier "ontBig.owl"

- supprimer les propriétés non pertinentes
- supprimer les redondances
- supprimer les propriétés aberrantes
- Comparaison par rapport à la grande base

- Utilisation du fichier "ontBig.owl"
- utilisation de "refalign.rdf"



```
<?xml version="1.0" encoding="UTF-8"?>
<!--Sample XML file generated by XMLSpy v2010 rel. 3 sp1 (http://www.altova.com)-->
<!DOCTYPE LIMES SYSTEM "limes.dtd">
          <NAMESPACE>http://www.w3.org/1999/02/22-rdf-syntax-ns#</NAMESPACE>
          <LABEL>rdf</LABEL>
          <NAMESPACE>http://www.w3.org/2000/01/rdf-schema#</NAMESPACE>
          <LABEL>rdfs</LABEL>
          <NAMESPACE>http://www.w3.org/2002/07/owl/#</NAMESPACE>
<LABEL>owl</LABEL>
          <NAMESPACE>http://oaei.ontologymatching.org/2010/IIMBTBOX/</NAMESPACE>
          <LABEL>imbt</LABEL>
          <ID>ontBig1</ID>
          <ENDPOINT>C:\Users\couco\Downloads\LIMES.0.6.RC4-2\LIMES.0.6.RC4-2\Release Examples\ontBig.nt/ENDPOINT>
          <VAR>?x</VAR>
         <PAGESIZE>5000</PAGESIZE>
<RESTRICTION></RESTRICTION>
<PROPERTY>imbt:name
          <TYPE>N-TRIPLES</TYPE>
          <ID>output</ID>
          <ENDPOINT>C:\Users\couco\Downloads\LIMES.0.6.RC4-2\LIMES.0.6.RC4-2\Release Examples\output file.nt/ENDPOINT>
          <PAGESIZE>5000
<PAGESIZE>
<RESTRICTION>

</pre
          <PROPERTY>imbt:name</PROPERTY>
          <TYPE>N-TRIPLES</TYPE>
     <METRIC>jaro(x.imbt:name,y.imbt:name)
          <FILE>Projet_v1_big.nt</fILE>
          <RELATION>owl:sameAs/RELATION>
          <FILE>Projet_v2_review_big.nt</FILE>
          <RELATION>owl:sameAs
     </REVIEW>
<EXECUTION>Simple</EXECUTION>
     <OUTPUT>TTL</OUTPUT>
```

```
INFO [main] (PPJoinController.java:146) - Loading target data ...
 INFO [main] (HybridCache.java:232) - Checking for file C:\Users\couco\Downloads\LI
MES. O. 6. RC4-2\LIMES. O. 6. RC4-2\cache\1583074885.ser
 INFO [main] (HybridCache.java:248) - No cached data found for output
 INFO [main] (QueryModuleFactory.java:19) - Generating <n-triples> reader
 INFO [main] (FileQueryModule.java:56) - RDF model read from C:\Users\couco\Downloa
ds\LIMES.O.6.RC4-2\LIMES.O.6.RC4-2\Release_Examples\output_file.nt is of size 8678
INFO [main] (ModelRegistry.java:34) - Registry = [C:\Users\couco\Downloads\LIMES.0
.6.RC4-2\LIMES.0.6.RC4-2\Release_Examples\ontBig.nt, C:\Users\couco\Downloads\LIMES
.0.6.RC4-2\LIMES.0.6.RC4-2\Release_Examples\output_file.nt]
INFO [main] (SparqlQueryModule.java:93) - Properties are [imbt:name]
INFO [main] (SparqlQueryModule.java:139) - Query issued is
PREFIX rdf: <a href="http://www.w3.org/1999/02/22-rdf-syntax-ns#">http://www.w3.org/1999/02/22-rdf-syntax-ns#</a>>
PREFIX owl: <a href="http://www.w3.org/2002/07/owl/#>">PREFIX owl: <a href="http://www.w3.org/2002/07/owl/#>">http://www.w3.org/2002/07/owl/#>">
PREFIX imbt: <a href="mailto:ref">ref">ref">ref">ref">ref"</a> //oaei.ontologymatching.org/2010/IIMBTBOX/>
PREFIX rdfs: <a href="http://www.w3.org/2000/01/rdf-schema#">http://www.w3.org/2000/01/rdf-schema#>
SELECT DISTINCT ?y ?v0
WHERE {
?y imbt:name ?v0 .
 INFO [main] (SparqlQueryModule.java:141) - Querying the endpoint.
 INFO [main] (SparglQueryModule.java:149) - Getting statements 0 to 5000
 INFO [main] (SparglQueryModule.java:149) - Getting statements 5000 to 10000
 INFO [main] (SparqlQueryModule.java:248) - Retrieved 1233 triples and 1233 entitie
 INFO [main] (SparglOueryModule.java:249) - Retrieving statements took 0.014 second
INFO [main] (HybridCache.java:179) - Serializing 1233 objects to C:\Users\couco\Do
wnloads\LIMES.0.6.RC4-2\LIMES.0.6.RC4-2\cache\1583074885.ser
 INFO [main] (PPJoinController.java:159) - Getting links ...
 INFO [main] (JaroMapper.iava:25) - Running JaroMapper
1649372 = 0.999879362573663
477723 = 0.2896043880499839
 INFO [main] (PPJoinController.java:162) - Got links in 487ms.
 INFO [main] (SerializerFactory.iava:22) - Getting serializer with name TTL
 INFO [main] (PPJoinController.iava:172) - Using TtlSerializer to serialize
 INFO [main] (PPJoinController.java:191) - Returned 1289 links above acceptance thr
eshold.
 INFO [main] (PPJoinController.java:192) - Returned 3912 links to review.
 INFO [main] (PPJoinController.iava:199) - Mapping carried out in 1.988 seconds
 INFO [main] (PPJoinController.java:200) - Done.
```

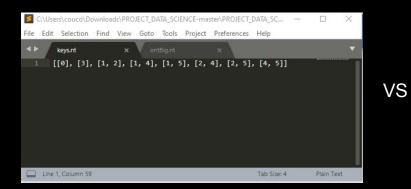
```
Projet v1 big.nt
    Morefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
  @prefix owl: <http://www.w3.org/2002/07/owl/#> .
  @prefix imbt: <a href="http://oaei.ontologymatching.org/2010/IIMBTBOX/">http://oaei.ontologymatching.org/2010/IIMBTBOX/> .
  Oprefix rdfs: <a href="http://www.w3.org/2000/01/rdf-schema">http://www.w3.org/2000/01/rdf-schema#>...
  <a href="http://oaei.ontologymatching.org/2010/IIMBDATA/en/vince vaughn">http://oaei.ontologymatching.org/2010/IIMBDATA/en/vince vaughn</a> <a href="http://oaei.org/align.org/10/">http://oaei.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/align.org/
  <a href="http://oaei.ontologymatching.org/2010/IIMBDATA/en/comoros">http://oaei.ontologymatching.org/2010/IIMBDATA/en/comoros</a> owl:sameAs <a href="http://oaei.ontologymatching.org/2010/IIMBDATA/en/comoros">http://oaei.ontologymatching.org/2010/IIMBDATA/en/comoros</a> owledge of the same of 
    <a href="http://oaei.ontologymatching.org/2010/IIMBDATA/en/port_vila">http://oaei.ontologymatching.org/2010/IIMBDATA/en/port_vila</a>.
  <http://oaei.ontologymatching.org/2010/IIMBDATA/en/glendale> owl:sameAs <http://oaei.ontologymatching.org/2010/IIMBDATA/en/glendale> .
  <a href="http://oaei.ontologymatching.org/2010/IIMBDATA/en/winter-park">http://oaei.ontologymatching.org/2010/IIMBDATA/en/winter-park</a> owl:sameAs <a href="http://oaei.ontologymatching.org/2010/IIMBDATA/en/winter-park">http://oaei.ontologymatching.org/2010/IIMBDATA/en/winter-park</a> <a href="http://oaei.ontologymatching.org/2010/IIMBDATA/en/winter-park">http://oaei.ontologymatching.org/2010/IIMBDATA/en/winter-park</a> <a href="http://oaei.ontologymatching.org/2010/IIMBDATA/en/winter-park">http://oaei.ontologymatching.org/2010/IIMBDATA/en/winter-park</a> <a href="http://oaei.ontologymatching.org/2010/IIMBDATA/en/winter-park">http://oaei.ontologymatching.org/2010/IIMBDATA/en/winter-park</a> <a href="http://oaei.ontologymatching.org/2010/IIMBDATA/en/winter-park">http://oaei.ontologymatching.org/2010/IIMBDATA/en/winter-park</a> <a href="http://oaei.org/iima/en/winter-park">http://oaei.org/iima/en/winter-park</a> <a href="http://oaei.org/iima/en/winter-park">http://oaei.org/iima/en/winte
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  <a href="http://oaei.ontologymatching.org/2010/IIMBDATA/en/brazzaville">http://oaei.ontologymatching.org/2010/IIMBDATA/en/brazzaville</a>
  <a href="http://oaei.ontologymatching.org/2010/IIMBDATA/en/james doohan">http://oaei.ontologymatching.org/2010/IIMBDATA/en/james doohan</a> doohan> owl:sameAs <a href="http://oaei.ontologymatching.org/2010/IIMBDATA/en/james doohan">http://oaei.ontologymatching.org/2010/IIMBDATA/en/james doohan</a> owl:sameAs <a href="http://oaei.ontologymatching.org/2010/IIMBDATA/en/james doohan">http://oaei.ontologymatching.org/2010/IIMBDATA/en/james doohan</a> <a href="http://oaei.ontologymatching.org/2010/IIMBDATA/en/james doohan</a> <a href="http://oaei.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articles.org/articl
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  <a href="http://oaei.ontologymatching.org/2010/IIMBDATA/en/australia">http://oaei.ontologymatching.org/2010/IIMBDATA/m/09pkg0></a>
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  <a href="http://oaei.ontologymatching.org/2010/IIMBDATA/en/spider-man">http://oaei.ontologymatching.org/2010/IIMBDATA/en/spider-man 3>.</a>
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Sakey

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Sakey



Fichier nt exemple

Fichier nt issu de notre ontologie

Conclusion

Projet Bilan Cross-Technologie Facilité & Difficulté