Title: EDM - Enriching the European's Cultural Heritage Data

Author: Andreia Cristina de Almeida Rodrigues

Date: 13 de maio de 2018

Theme: Europeana Data Model - Theme 9

Reference: https://www.w3.org/2001/sw/sweo/public/UseCases/Europeana/

1   Technical note

Europeana is the European Commision's digital platform for cultural heritage. It gives access to millions of items from libraries, archives, museums, galleries and audio-visual collections from all over Europe.

The platform gathers descriptive metadata and links it to relevant Web resources from the enumerated institutions. This data is submitted in different metadata standards which have to be converted to a simple format. This implies that some of the details are lost in the process: details that had potential to add valuable content to the cultural heritage.

The Europeana Data Model (EDM) is a Semantic Web-inspired approach aimed at being an integration medium for collecting, connecting and enriching the metadata provided by Europeana's content providers, generating new knowledge between nodes in the cultural heritage sector. It aims to bridge the gaps and be a major improvement of Europeana's first data model.

It integrates the previous data model, maintaining backward compatibility with it, and recontextualizes each element in a more structured context. Its main goal is to enrich EDM with a set of properties that have been proven to be most useful in modelling cultural heritage objects, linking the object's data to data from partners or external information resources with references to persons, places, etc. This way Europeana shares enriched content, adding more information to it and thereby generating more content.

The Europeana Data Model will highly change resource discovery in Europeana's platform, allowing users to find far more associations between Europe's cultural data and the stories surrounding it. It will provide more answers to what, where and who is related to a certain resource. This will result in a richer resource discovery experience as well as increasing significantly the traffic to data providers, contributing to the creation of new knowledge. Europeana will be able to better represent data of a certain object as well as data closely associated with that object, finding meaningful associations between different objects present in the digital platform, manipulating the data internally to perform its aggregation and enrichment functions.

This way, EDM enhances the way Europeana harvests, manages and publishes metadata, contributing to enrich Europe's cultural heritage.

2   Additional references

[1]: The Europeana Data Model for Cultural Heritage

This document shows how the Europeana Data Model is solving the loss of data submitted by their information providers when converting the different metadata formats submitted into a standard format. It clarifies how Europeana's data will be enriched and how the resource discovery experience will be improved by using the new data model. Includes a brief explanation of how EDM will contribute to the Semantic Web.

[2]: Europeana Data Model Primer

This document contains the explanation of the "story" of EDM and how the classes and properties may be used together to model data and support Europeana functionality. It gives an overview of how the new data model improves and extends the previous one (ESE) and how EDM contributes and adheres to the modelling principles that underpin the approach of the Web of Data ("Semantic Web").

[3]: Definition of the Europeana Data Model

This document is a formal specification of the Europeana Data Model and lists the classes and properties that can be used in Europeana. Overview of the elements re-used from other namespaces, the elements introduced by EDM and the relationship/hierarchy between them as well as get the detailed information about each class available.

3 RDF description

```
<?xml version="1.0"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns:dc="http://purl.org/dc/elements/1.1/">
  <rdf:Description rdf:about="https://web.fe.up.pt/~jlopes/doku.php/teach/lapd/q5#edm">
      <dc:title> EDM - Enriching the European's Cultural Heritage Data  </dc:title>
      <dc:creator> Andreia Cristina de Almeida Rodrigues </dc:creator>
      <dc:date> 2018-05-13 </dc:date>
      <dc:subject rdf:resource="https://www.w3.org/2001/sw/sweo/public/UseCases/Europeana/"
      />
      <dc:description> In order to enhance the way Europeana harvests, manages and
          publishes metadata, a new Semantic Web-inspired approach has been developed: the
          Europeana Data Model (EDM). This data model gathers the descriptive metadata
          provided and links it to relevant Web resources, generating new knowledge between
          nodes in the cultural heritage sector, contributing to enrich Europe's cultural
          heritage.
      </dc:description>
      <dc:language> EN </dc:language>
      <dc:type> Technical Note </dc:type>
      <dc:format> PDF </dc:format>
  </rdf:Description>
</rdf:RDF>
```

Referências

[1] *The Europeana Data Model for Cultural Heritage [PDF]*. URL: https://pro.europeana.eu/files/Europeana_Professional/Share_your_data/Technical_requirements/EDM_Documentation/EDM_Factsheet.pdf.

[2] Antoine Isaac. *Europeana Data Model Primer [PDF]*. 2013. URL: https://pro.europeana.eu/files/Europeana_Professional/Share_your_data/Technical_requirements/EDM_Documentation/EDM_Primer_130714.pdf.

[3] *Definition of the Europeana Data Model v5.2.7 [PDF]*. 2016. URL: https://pro.europeana.eu/files/Europeana_Professional/Share_your_data/Technical_requirements/EDM_Documentation/EDM_Definition_v5.2.7_042016.pdf.