Exhibition recommendation using British Museum data and Event Registry
Introduction

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Problem Definition

• Exhibition data (time, date etc.) is stored in natural text in web pages and currently not stored as Linked Data.

• Why is this an issue?

• What could we do with this information in RDF format?
User workflow

Barry sees a cool Viking axe in the museum

The app searches Event Registry for exhibitions where concepts related to the axe were detected

He uses our app to search for exhibitions with similar items

The app recommends an upcoming Viking exhibition at the British Museum and Barry is happy

The British Museum

British Museum to host exhibition on Vikings

Book Online

Barry smiling with a document in his hand
British Museum schema
• Example SPARQL query used to retrieve labels that will map to Dbpedia concept:

```sparql
PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX crm: <http://erlangen-crm.org/current/>
PREFIX skos: <http://www.w3.org/2004/02/skos/core#>

SELECT distinct ?label
WHERE
{
?production rdf:type crm:E12_Production;
    crm:P10_falls_within ?periodCulture.
} 
Order by (?label)
```

• In this case, British Museum prefLabels correspond to DBpedia concepts with high accuracy.
Event Registry Integration

British Museum to hold exhibition on Vikings

**WHERE:** March 5, 2014, United Kingdom

**CATEGORIES:** Reference → Museums, Reference → Museums → Science, Reference → Museums → Museum Resources

**ENTITIES:** British Museum, Northern Europe, Berlin, London, England, Republic of Iceland, Turkey, Spain, National Museum of Denmark, Xinhua News Agency

**KEYWORDS:** Viking, Art exhibition, Museum, The Museum, Piracy, The Vikings (film), Until June, Discovery (observation), Metre

**ARTICLES:** 9 (9 eng, 0 ger, 0 spa, 0 chi, 0 slo)

London, March 5 (IANS) The British Museum will Thursday hold an exhibition on Vikings, displaying discoveries and objects of the pirates from northern European 1,000 years ago, museum authorities said Tuesday. It is the first time for the museum to hold major exhibition of such kind for over 30 years. The exhibition will last until June 27, Xinhua reported. Organised in cooperation with the National Museum of Denmark and the National Museums in Berlin, the exhibition will focus on the...
Event Registry Integration

Filter out according to some predefined time window

Exhibition Duration

2014-02-27 2014-06-22
LESSONS LEARNED

• Important to use URIs rather than text for presenting content (DBpedia URI vs “China exhibition”)

• In order to be more useful we would need to scrape prefLabels from a number of instances.

• Time durations are inaccurate.
ASSUMPTIONS

• Assumes a very, very general search over the British Museum data.

• Assumes a method of aggregating potentially large number of EventRegistry results of a unreliable quality.
Future Work

• Integrate databases from a broader range of museums, i.e. worldwide.

• Extend functionality by creating user profiles, e.g. student studying Egyptian Civilization.

• More accurate time period ranges.

• Utilize tools such as SILK or LIMES for interlinking of museum concepts with DBpedia concepts.

• Create more robust and feature-rich interface.
THANK YOU!

DBpedia

SPARQL

EventRegistry