

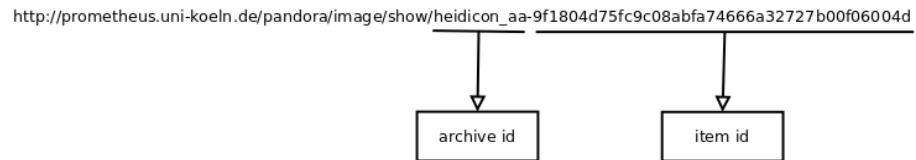
# Prometheus2CRM

Creating LD-based description for a  
selected web resource

# Step I – Selected Web Resource

## **Prometheus** – the distributed digital image archive for research and teaching

The site features an aggregator for several **image archives** related to **cultural heritage**. The individual images are each embedded in a page containing describing data about it. They can be accessed using an URL-based scheme containing an **archive id** and an **item id**.



The received web site is of **XHTML** format and carries the semantics for the data in a **class attribute** of a containing `<td>` tag.

F.e. `<td class="location-field">` means that the contained data is the location of the item.

Using this scheme we can extract the data including the original semantics.

## Step II – Page parser – RDF version

After extracting the data we create the corresponding RDF version. The modeling scheme we use for this uses an existing **ontology**, the **CIDOC CRM**, that was designed to describe data in the context of cultural heritage. We used an existing implementation in OWL-DL 1.0, the **Erlangen CRM**, that can be found at: <http://erlangen-crm.org/current/>.

The RDF triples created are instances (individuals) of CRM classes, and are connected using CRM properties. We tried to map the values of the class tags of the source to CRM classes. Additional information is added by connecting the instances via properties. This was only implicitly present in the original data and is made explicit by our modelling. However, not all data contained in the original web sites can be mapped, so there is some information modelled only as text, f.e. Descriptions or proprietary item ids of an archive. These are connected to instances using the P3\_has\_note property.

The detailed mapping can be seen in the following diagram. The P3\_has\_note textuais are omitted for better viewability.

