Europeana Semantic Elements specifications

Version 3.2, 07/08/2009

Europeana v1.0

co-funded by the European Union

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1. Foreword

This document provides the specification of the Europeana Semantic Elements, including their properties, XML syntax, usage in the Europeana portal, obligation, occurrence and examples. The Europeana Semantic Elements are used in the Prototype portal, which was launched on 20 November 2008 at http://www.europeana.eu/.

2. Europeana Semantic Elements (ESE)

2.1 The elements

The Europeana Semantic Elements (the ESE), consist of the Dublin Core (DC) metadata elements, a subset of the DC terms (defined at http://dublincore.org/documents/dcmi-terms/) and a set of twelve elements which were created to meet Europeana’s needs. The elements in the ESE are as follows:

<table>
<thead>
<tr>
<th>Source</th>
<th>Element</th>
<th>Element Refinement(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC</td>
<td>title</td>
<td>alternative</td>
</tr>
<tr>
<td>DC</td>
<td>creator</td>
<td></td>
</tr>
<tr>
<td>DC</td>
<td>subject</td>
<td></td>
</tr>
<tr>
<td>DC</td>
<td>description</td>
<td>tableOfContents</td>
</tr>
<tr>
<td>DC</td>
<td>publisher</td>
<td></td>
</tr>
<tr>
<td>DC</td>
<td>contributor</td>
<td></td>
</tr>
<tr>
<td>DC</td>
<td>date</td>
<td>created; issued</td>
</tr>
<tr>
<td>DC</td>
<td>type</td>
<td></td>
</tr>
<tr>
<td>DC</td>
<td>format</td>
<td>extent; medium</td>
</tr>
<tr>
<td>DC</td>
<td>identifier</td>
<td></td>
</tr>
<tr>
<td>DC</td>
<td>source</td>
<td></td>
</tr>
<tr>
<td>DC</td>
<td>language</td>
<td></td>
</tr>
<tr>
<td>DC</td>
<td>relation</td>
<td>isVersionOf; hasVersion; isReplacedBy; replaces; isRequiredBy; requires; isPartOf; hasPart; isReferencedBy; references; isFormatOf; hasFormat; conformsTo</td>
</tr>
<tr>
<td>Europeana</td>
<td></td>
<td>isShownBy; isShownAt</td>
</tr>
<tr>
<td>DC</td>
<td>coverage</td>
<td>spatial; temporal</td>
</tr>
<tr>
<td>DC</td>
<td>rights</td>
<td></td>
</tr>
<tr>
<td>DC terms</td>
<td>provenance</td>
<td></td>
</tr>
<tr>
<td>Europeana</td>
<td>userTag</td>
<td></td>
</tr>
<tr>
<td>Europeana</td>
<td>unstored</td>
<td></td>
</tr>
<tr>
<td>Europeana</td>
<td>object</td>
<td></td>
</tr>
<tr>
<td>Europeana</td>
<td>language</td>
<td></td>
</tr>
<tr>
<td>Europeana</td>
<td>provider</td>
<td></td>
</tr>
<tr>
<td>Europeana</td>
<td>type</td>
<td></td>
</tr>
<tr>
<td>Europeana</td>
<td>uri</td>
<td></td>
</tr>
<tr>
<td>Europeana</td>
<td>year</td>
<td></td>
</tr>
</tbody>
</table>
Europeana Semantic Elements specifications

<table>
<thead>
<tr>
<th>Europeana</th>
<th>hasObject</th>
</tr>
</thead>
<tbody>
<tr>
<td>Europeana</td>
<td>country</td>
</tr>
</tbody>
</table>

Please note that the dc and europeana namespaces both have “Type” and “Language” elements, these have different uses which are explained in the specifications below.

2.2 XML attributes

The ESE XML Schema\(^1\) extends the DC XML Schema by adding elements from the Europeana namespace. Currently the Europeana namespace does not define any attribute. Therefore the only attributes allowed by the XML Schema for the ESE elements set of the XML instance documents are the attributes xml:lang (defined by DC XML Schema) and xsi:type of the DC elements.

3. Introduction to the descriptions and to Europeana usage of the elements

Each element in the ESE is described as follows:

- **Element Name**: The formal name for the element.
- **Namespace**: The namespace or the source of the element: **dc**, **dcterms** or **europeana**. More information on the dc metadata terms can be found at [http://dublincore.org/documents/dcmi-terms/](http://dublincore.org/documents/dcmi-terms/).
- **URI**: The Uniform Resource Identifier used to uniquely identify the element.
- **Label**: The human readable label assigned to the element.
- **Definition**: A definition of the element based on the DC definition for the term where applicable.
- **Europeana note**: A note providing information relating to the usage of the element in Europeana prototype.
- **Obligation & Occurrence**:
  - **Simple search**: All of the elements are used for the simple search function.
  - **Facet**: Indicates if an element is used for the refined search function and in which of the facets: Date, Type, Provider, Country, and Language.
  - **Timeline**: Indicates if an element is used in the Timeline browse function.
  - **Advanced search**: Indicates which index an element is used in for the advanced search function: Title, Creator, Date and Subject.
  - **Full search result display**: Indicates if the element’s content is included in the Europeana digital object full search result display.
- **Example**: An example of the xml syntax is provided.

\(^1\) [http://www.europeana.eu/schemas/ese/ESE-V3.2.xsd](http://www.europeana.eu/schemas/ese/ESE-V3.2.xsd)
4. Definitions for the ESE elements

This section lists the ESE elements in alphabetical order and describes their attributes.

Please note that the “Type” and “Language” elements occur in both the dc and the europeana namespaces; these elements have different uses in the two namespaces. In the tables below, you will find “Type” and “Language” are listed twice, once in each namespace, to describe their different uses.

**Element name: alternative**

<table>
<thead>
<tr>
<th>Namespace</th>
<th>dcterms</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://purl.org/dc/terms/alternative">http://purl.org/dc/terms/alternative</a></td>
</tr>
<tr>
<td>Label</td>
<td>Alternative Title</td>
</tr>
<tr>
<td>Definition</td>
<td>An alternative name for the resource. This can be any form of the title that is used as a substitute or an alternative to the formal title of the resource including abbreviations or translations of the title. Refinement of <a href="">dc:title</a></td>
</tr>
<tr>
<td>Europeana note</td>
<td>Any alternative title by which the original analog or born digital object is known. This can include abbreviations or translations of the title.</td>
</tr>
<tr>
<td>Obligation &amp; Occurrence</td>
<td>Optional (Minimum: 0, Maximum: unbounded)</td>
</tr>
<tr>
<td>Europeana search and display features</td>
<td>Simple search</td>
</tr>
<tr>
<td>Example</td>
<td><a href="">dcterms:alternative</a>Ocho semanas&lt;/dcterms:alternative&gt; (When <a href="">dc:title</a>Eight weeks&lt;/dc:title&gt;)</td>
</tr>
</tbody>
</table>

**Element name: conformsTo**

<table>
<thead>
<tr>
<th>Namespace</th>
<th>dcterms</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://purl.org/dc/terms/conformsTo">http://purl.org/dc/terms/conformsTo</a></td>
</tr>
<tr>
<td>Label</td>
<td>Conforms To</td>
</tr>
<tr>
<td>Definition</td>
<td>An established standard to which the described resource conforms. Refinement of <a href="">dc:relation</a>.</td>
</tr>
<tr>
<td>Europeana note</td>
<td>The names of standards that the digital object (digitized or born digital) complies with and which are useful for the use of the object.</td>
</tr>
<tr>
<td>Obligation &amp; Occurrence</td>
<td>Optional (Minimum: 0, Maximum: unbounded)</td>
</tr>
<tr>
<td>Europeana search and display features</td>
<td>Simple search</td>
</tr>
</tbody>
</table>
| Example    | <dcterms:conformsTo> W3C WCAG 2.0</dcterms:conformsTo> (for an HTML
Element name: contributor

<table>
<thead>
<tr>
<th>Namespace</th>
<th>dc</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://purl.org/dc/terms/contributor">http://purl.org/dc/terms/contributor</a></td>
</tr>
<tr>
<td>Label</td>
<td>Contributor</td>
</tr>
<tr>
<td>Definition</td>
<td>An entity responsible for making contributions to the resource.</td>
</tr>
<tr>
<td>Europeana note</td>
<td>The name of contributors to the original analog or born digital object. This could be a person, an organisation or a service.</td>
</tr>
<tr>
<td>Obligation &amp; Occurrence</td>
<td>Optional (Minimum: 0, Maximum: unbounded)</td>
</tr>
<tr>
<td>Europeana search and display features</td>
<td>Simple search</td>
</tr>
<tr>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Example</td>
<td><a href="">dc:contributor</a>Maria Callas&lt;/dc:contributor&gt;</td>
</tr>
</tbody>
</table>

Element name: country

<table>
<thead>
<tr>
<th>Namespace</th>
<th>europeana</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://www.europeana.eu/ese/terms/country">http://www.europeana.eu/ese/terms/country</a></td>
</tr>
<tr>
<td>Label</td>
<td>Country</td>
</tr>
<tr>
<td>Definition</td>
<td>This is the name of the country in which the content provider is based or “Europe” in the case of Europe-wide projects.</td>
</tr>
<tr>
<td>Europeana note</td>
<td>The country name is derived automatically from information held in the Europeana content providers authority file. Country names should conform to ISO 3166. (<a href="http://www.iso.org/iso/english_country_names_and_code_elements">http://www.iso.org/iso/english_country_names_and_code_elements</a>).</td>
</tr>
<tr>
<td>Obligation &amp; Occurrence</td>
<td>Mandatory (Minimum: 1, Maximum: 1)</td>
</tr>
<tr>
<td>Europeana search and display features</td>
<td>Simple search</td>
</tr>
<tr>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Example</td>
<td><a href="">europeana:country</a>AL&lt;/europeana:country&gt;</td>
</tr>
</tbody>
</table>

Element name: coverage

<table>
<thead>
<tr>
<th>Namespace</th>
<th>dc</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://purl.org/dc/terms/coverage">http://purl.org/dc/terms/coverage</a></td>
</tr>
<tr>
<td>Label</td>
<td>Coverage</td>
</tr>
</tbody>
</table>
| Definition| The spatial or temporal topic of the resource, the spatial applicability of the resource, or the jurisdiction under which the resource is relevant. This may be a named place, a location, a spatial coordinate, a period, date, date range or a
## Element name: created

<table>
<thead>
<tr>
<th>Namespace</th>
<th>dcterms</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://purl.org/dc/terms/created">http://purl.org/dc/terms/created</a></td>
</tr>
<tr>
<td>Label</td>
<td>Date Created</td>
</tr>
<tr>
<td>Definition</td>
<td>Date of creation of the resource. Refinement of <code>&lt;dc:date&gt;</code></td>
</tr>
<tr>
<td>Europeana note</td>
<td>This is the date when the original analog or born digital object was created. The creation date is used to generate the <code>&lt;europeana:year&gt;</code> for use in the timeline where appropriate.</td>
</tr>
<tr>
<td>Obligation &amp; Occurrence</td>
<td>Optional (Minimum: 0, Maximum: unbounded)</td>
</tr>
<tr>
<td>Europeana search and display features</td>
<td>Simple search</td>
</tr>
<tr>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Example</td>
<td><code>&lt;dcterms:created&gt;1564&lt;/dcterms:created&gt;</code>&lt;br&gt;<code>&lt;dcterms:created&gt;Iron Age&lt;/dcterms:created&gt;</code></td>
</tr>
</tbody>
</table>

## Element name: creator

<table>
<thead>
<tr>
<th>Namespace</th>
<th>dc</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://purl.org/dc/terms/creator">http://purl.org/dc/terms/creator</a></td>
</tr>
<tr>
<td>Label</td>
<td>Creator</td>
</tr>
<tr>
<td>Definition</td>
<td>An entity primarily responsible for making the resource. This may be a person, organisation or a service.</td>
</tr>
<tr>
<td>Europeana note</td>
<td>This is the name of the creator of the original analog or born digital object.</td>
</tr>
<tr>
<td>Obligation &amp; Occurrence</td>
<td>Optional (Minimum: 0, Maximum: unbounded)</td>
</tr>
<tr>
<td>Europeana search and display features</td>
<td>Simple search</td>
</tr>
<tr>
<td>---------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Example</td>
<td>X</td>
</tr>
</tbody>
</table>

**Element name: date**

| Namespace | dc |
| URI       | [http://purl.org/dc/terms/date](http://purl.org/dc/terms/date) |
| Label     | Date |
| Definition| A point or period of time associated with an event in the lifecycle of the resource. Refined by: `<dc:created>` and `<dcterms:issued>` |
| Europeana note | Use for a significant date in the life of the original analog or born digital object (see example). Use `<dcterms:temporal>` (or `<dc:coverage>`) if the date is associated with the topic of the resource. `<dc:date>` can be used to generate `<europeana:year>` for the timeline where appropriate. |
| Obligation & Occurrence | Optional (Minimum: 0, Maximum: unbounded) |
| Example | `<dc:date>17th century</dc:date>` (For example the date when an object was repaired). |

<table>
<thead>
<tr>
<th>Europeana search and display features</th>
<th>Simple search</th>
<th>Facet</th>
<th>Timeline</th>
<th>Advanced search</th>
<th>Full search result display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example</td>
<td>X</td>
<td></td>
<td>(X Date</td>
<td>X (More: Date Line)</td>
<td></td>
</tr>
</tbody>
</table>

**Element name: description**

| Namespace | dc |
| Label     | Description |
| Definition| An account of the resource. Refined by: `<dcterms:tableOfContents>` |
| Europeana note | A description of the original analog or born digital object. |
| Obligation & Occurrence | Optional (Minimum: 0, Maximum: unbounded) |
| Example | `<dc:description>Illustrated guide to airport markings and lighting signals, with particular reference to SMGCS (Surface Movement Guidance and Control</dc:description>` |
### Element name: extent

<table>
<thead>
<tr>
<th>Namespace</th>
<th>Dcterms</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://purl.org/dc/terms/extent">http://purl.org/dc/terms/extent</a></td>
</tr>
<tr>
<td>Label</td>
<td>Extent</td>
</tr>
<tr>
<td>Definition</td>
<td>The size or duration of the resource. Refinement of <code>&lt;dc:format&gt;</code>.</td>
</tr>
<tr>
<td>Europeana note</td>
<td>Size or duration of the digital object and the original object may be recorded.</td>
</tr>
<tr>
<td>Obligation &amp; Occurrence</td>
<td>Optional (Minimum: 0, Maximum: unbounded)</td>
</tr>
<tr>
<td>Europeana search and display features</td>
<td>Simple search</td>
</tr>
<tr>
<td>Example</td>
<td><code>&lt;dcterms:extent&gt;13 cm&lt;/dcterms:extent&gt;</code> (the width of an original object). <code>&lt;dcterms:extent&gt;34 minutes&lt;/dcterms:extent&gt;</code> (the length of an audio file).</td>
</tr>
</tbody>
</table>

### Element name: format

<table>
<thead>
<tr>
<th>Namespace</th>
<th>dc</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://purl.org/dc/terms/format">http://purl.org/dc/terms/format</a></td>
</tr>
<tr>
<td>Label</td>
<td>Format</td>
</tr>
<tr>
<td>Definition</td>
<td>The file format, physical medium or dimensions of the resource. Refined by: <code>&lt;dcterms:extent&gt;</code> and <code>&lt;dcterms:medium&gt;</code>.</td>
</tr>
<tr>
<td>Europeana note</td>
<td>The unqualified element includes file format, physical medium or dimensions of the original and/or digital object. Use this element for the file format of the digital object or born digital originals. Internet Media Types [MIME] are highly recommended (<a href="http://www.iana.org/assignments/media-types/">http://www.iana.org/assignments/media-types/</a>).</td>
</tr>
<tr>
<td>Obligation &amp; Occurrence</td>
<td>Optional (Minimum: 0, Maximum: unbounded)</td>
</tr>
<tr>
<td>Europeana search and display features</td>
<td>Simple search</td>
</tr>
<tr>
<td>Example</td>
<td><code>&lt;dc:format&gt;image/jpeg&lt;/dc:format&gt;</code></td>
</tr>
</tbody>
</table>

### Element name: hasFormat

<table>
<thead>
<tr>
<th>Namespace</th>
<th>dcterms</th>
</tr>
</thead>
</table>
### Europeana Semantic Elements specifications

<table>
<thead>
<tr>
<th>URI</th>
<th><a href="http://purl.org/dc/terms/hasFormat">http://purl.org/dc/terms/hasFormat</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Label</td>
<td>Has Format</td>
</tr>
<tr>
<td>Definition</td>
<td>A related resource that is substantially the same as the pre-existing described resource, but in another format. Refinement of <code>&lt;dc:relation&gt;</code>. See also <code>&lt;dcterms:isFormatOf&gt;</code>.</td>
</tr>
<tr>
<td>Europeana note</td>
<td>Use <code>&lt;dcterms:hasVersion&gt;</code> for differences in version.</td>
</tr>
<tr>
<td>Obligation &amp; Occurrence</td>
<td>Optional (Minimum: 0, Maximum: unbounded)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Europeana search and display features</th>
<th>Simple search</th>
<th>Facet</th>
<th>Timeline</th>
<th>Advanced search</th>
<th>Full search result display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example</td>
<td><code>&lt;dcterms:hasFormat&gt;http://upload.wikimedia.org/wikipedia/en/f/f3/Europeana_logo.png&lt;/dcterms:hasFormat&gt;</code> where the resource being described is a tiff image file.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Element name: hasObject**

<table>
<thead>
<tr>
<th>Namespace</th>
<th>europeana</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://www.europeana.eu/ese/terms/hasObject">http://www.europeana.eu/ese/terms/hasObject</a></td>
</tr>
<tr>
<td>Label</td>
<td>Has Object</td>
</tr>
<tr>
<td>Definition</td>
<td>Indicates the availability of thumbnails of digital objects for the Europeana system to understand and process them. Two values are allowed (False or True). The value corresponds to <code>&lt;europeana:object&gt;</code>.</td>
</tr>
<tr>
<td>Europeana note</td>
<td>Europeana supports Image Magick compliant formats such as PDF, JPEG, and TIFF (<a href="http://www.imagemagick.org/">http://www.imagemagick.org/</a>).</td>
</tr>
<tr>
<td>Obligation &amp; Occurrence</td>
<td>Mandatory (Minimum: 1, Maximum: 1)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Europeana search and display features</th>
<th>Simple search</th>
<th>Facet</th>
<th>Timeline</th>
<th>Advanced search</th>
<th>Full search result display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example</td>
<td><code>&lt;europeana:hasObject&gt;True&lt;/europeana:hasObject&gt;</code></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Element name: hasPart**

<table>
<thead>
<tr>
<th>Namespace</th>
<th>dcterms</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://purl.org/dc/terms/hasPart">http://purl.org/dc/terms/hasPart</a></td>
</tr>
<tr>
<td>Label</td>
<td>Has Part</td>
</tr>
<tr>
<td>Definition</td>
<td>A related resource that is included either physically or logically in the described resource. Refinement of <code>&lt;dc:relation&gt;</code>. See also <code>&lt;dcterms:isPartOf&gt;</code>.</td>
</tr>
</tbody>
</table>

| Europeana | |
**Element name: hasVersion**

<table>
<thead>
<tr>
<th>Namespace</th>
<th>dcterms</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://purl.org/dc/terms/hasVersion">http://purl.org/dc/terms/hasVersion</a></td>
</tr>
<tr>
<td>Label</td>
<td>Has Version</td>
</tr>
<tr>
<td>Definition</td>
<td>A related resource that is a version, edition, or adaptation of the described resource. Changes in version imply substantive changes in content rather than differences in format. Refinement of <code>&lt;dc:relation&gt;</code>. See also <code>&lt;dcterms:isVersionOf&gt;</code>.</td>
</tr>
<tr>
<td>Europeana note</td>
<td>Use <code>&lt;dcterms:hasFormat&gt;</code> for differences in format.</td>
</tr>
<tr>
<td>Obligation &amp; Occurrence</td>
<td>Optional (Minimum: 0, Maximum: unbounded)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Europeana search and display features</th>
<th>Simple search</th>
<th>Facet</th>
<th>Timeline</th>
<th>Advanced search</th>
<th>Full search result display</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td>X (More: Relation Line)</td>
</tr>
</tbody>
</table>

**Example**

```
< dct:hasVersion> The Sorcerer’s Apprentice </dcterms:hasVersion> (translation by Edwin Zeydel, 1955). In this example the 1955 translation is a version of the described resource.
```

**Element name: identifier**

<table>
<thead>
<tr>
<th>Namespace</th>
<th>dc</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://purl.org/dc/terms/identifier">http://purl.org/dc/terms/identifier</a></td>
</tr>
<tr>
<td>Label</td>
<td>Identifier</td>
</tr>
<tr>
<td>Definition</td>
<td>An unambiguous reference to the resource within a given context. This is the identifier for the original analog or born digital object.</td>
</tr>
<tr>
<td>Europeana note</td>
<td>Use <code>&lt;europeana:isShownBy&gt;</code> for the URL of the digital object. If the URL is already included in the <code>&lt;dc:identifier&gt;</code> element in the existing metadata, keep it and repeat the information in <code>&lt;europeana:isShownBy&gt;</code>.</td>
</tr>
<tr>
<td>Obligation &amp; Occurrence</td>
<td>Optional (Minimum: 0, Maximum: unbounded)</td>
</tr>
<tr>
<td>Europeana search and display features</td>
<td>Simple search</td>
</tr>
<tr>
<td>---------------------------------------</td>
<td>---------------</td>
</tr>
<tr>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

**Element name: isFormatOf**

<table>
<thead>
<tr>
<th>Namespace</th>
<th>dcterms</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://purl.org/dc/terms/isFormatOf">http://purl.org/dc/terms/isFormatOf</a></td>
</tr>
<tr>
<td>Label</td>
<td>Is Format Of</td>
</tr>
<tr>
<td>Definition</td>
<td>A related resource that is substantially the same as the described resource, but in another format. Refinement of <code>&lt;dc:relation&gt;</code>. See also <code>&lt;dcterms:hasFormat&gt;</code>.</td>
</tr>
<tr>
<td>Europeana note</td>
<td></td>
</tr>
<tr>
<td>Obligation &amp; Occurrence</td>
<td>Optional (Minimum: 0, Maximum: unbounded)</td>
</tr>
<tr>
<td>Europeana search and display features</td>
<td>Simple search</td>
</tr>
<tr>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Example</td>
<td><a href="">dcterms:isFormatOf</a>Europeana_logo.tiff&lt;/dcterms:isFormatOf&gt;</td>
</tr>
</tbody>
</table>

where the resource being described is a png image file.

**Element name: isPartOf**

<table>
<thead>
<tr>
<th>Namespace</th>
<th>dcterms</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://purl.org/dc/terms/isPartOf">http://purl.org/dc/terms/isPartOf</a></td>
</tr>
<tr>
<td>Label</td>
<td>Is Part Of</td>
</tr>
<tr>
<td>Definition</td>
<td>A related resource in which the described resource is physically or logically included. Refinement of <code>&lt;dc:relation&gt;</code>. See also <code>&lt;dcterms:hasPart&gt;</code>.</td>
</tr>
<tr>
<td>Europeana note</td>
<td>Use for the name of the collection which the digital object is part of.</td>
</tr>
<tr>
<td>Obligation &amp; Occurrence</td>
<td>Optional (Minimum: 0, Maximum: unbounded)</td>
</tr>
<tr>
<td>Europeana search and display features</td>
<td>Simple search</td>
</tr>
<tr>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Example</td>
<td><a href="">dcterms:isPartOf</a>Crace Collection of Maps of London&lt;/dcterms:isPartOf&gt;</td>
</tr>
</tbody>
</table>
### Element name: isReferencedBy

<table>
<thead>
<tr>
<th>Namespace</th>
<th>dcterms</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://purl.org/dc/terms/isReferencedBy">http://purl.org/dc/terms/isReferencedBy</a></td>
</tr>
<tr>
<td>Label</td>
<td>Is Referenced By</td>
</tr>
<tr>
<td>Definition</td>
<td>A related resource that references, cites, or otherwise points to the described resource. Refinement of <code>&lt;dc:relation&gt;</code>. See also <code>&lt;dcterms:references&gt;</code>.</td>
</tr>
<tr>
<td>Europeana note</td>
<td></td>
</tr>
<tr>
<td>Obligation &amp; Occurrence</td>
<td>Optional (Minimum: 0, Maximum: unbounded)</td>
</tr>
</tbody>
</table>

#### Europeana search and display features

<table>
<thead>
<tr>
<th>Simple search</th>
<th>Facet</th>
<th>Timeline</th>
<th>Advanced search</th>
<th>Full search result display</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td>X (More: Relation Line)</td>
</tr>
</tbody>
</table>

#### Example

```
```

### Element name: isReplacedBy

<table>
<thead>
<tr>
<th>Namespace</th>
<th>dcterms</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://purl.org/dc/terms/isReplacedBy">http://purl.org/dc/terms/isReplacedBy</a></td>
</tr>
<tr>
<td>Label</td>
<td>Is Replaced By</td>
</tr>
<tr>
<td>Definition</td>
<td>A related resource that supplants, displaces, or supersedes the described resource. Refinement of <code>&lt;dc:relation&gt;</code>. See also <code>&lt;dcterms:replaces&gt;</code>.</td>
</tr>
<tr>
<td>Europeana note</td>
<td></td>
</tr>
<tr>
<td>Obligation &amp; Occurrence</td>
<td>Optional (Minimum: 0, Maximum: unbounded)</td>
</tr>
</tbody>
</table>

#### Europeana search and display features

<table>
<thead>
<tr>
<th>Simple search</th>
<th>Facet</th>
<th>Timeline</th>
<th>Advanced search</th>
<th>Full search result display</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td>X (More: Relation Line)</td>
</tr>
</tbody>
</table>

#### Example

```
<dcterms:isReplacedBy>http://dublincore.org/about/2009/01/05/bylaws/</dcterms:isReplacedBy> where the resource described is an older version (http://dublincore.org/about/2006/01/01/bylaws/)
```

### Element name: isRequiredBy

<table>
<thead>
<tr>
<th>Namespace</th>
<th>dcterms</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://purl.org/dc/terms/isRequiredBy">http://purl.org/dc/terms/isRequiredBy</a></td>
</tr>
<tr>
<td>Label</td>
<td>Is Required By</td>
</tr>
<tr>
<td>-------</td>
<td>----------------</td>
</tr>
</tbody>
</table>
| Definition | A related resource that requires the described resource to support its function, delivery or coherence. Refinement of `<dc:relation>`. See also `<dcterms:requires>`.
| Europeana note | 
| Obligation & Occurrence | Optional (Minimum: 0, Maximum: unbounded) |
| Europeana search and display features | Simple search | Facet | Timeline | Advanced search | Full search result display |
| | X | | | X |
| Example | `<isRequiredBy>http://www.myslides.com/myslideshow.ppt</isRequiredBy>` where the image being described is required for an online slideshow. |

**Element name: isShownAt**

| Namespace | europeana |
| URI | [http://www.europeana.eu/ese/terms/isShownAt](http://www.europeana.eu/ese/terms/isShownAt) |
| Label | Is Shown At |
| Definition | An unambiguous URL reference to the digital object on the content provider’s web site in its full information context. Refinement of `<dc:relation>`. See also `<europeana:isShownBy>`.
| Europeana note | This is a URL that will be active in the Europeana interface. It will lead users to the digital object displayed on the content provider’s web site in its full information context. Use `<europeana:isShownAt>` if you display the digital object with extra information (such as header, banner etc). |
| Obligation & Occurrence | Optional (Minimum: 0, Maximum: 1) But either isShownAt OR isShownBy is Mandatory |
| Europeana search and display features | Simple search | Facet | Timeline | Advanced search | Full search result display |
| | | | | X |
| Example | `<europeana:isShownAt>`
| | http://www.photo.rmn.fr/cf/htm/CPICZ.aspx?E=2C6NU0VFLVNY</europeana:isShownAt> |

**Element name: isShownBy**

| Namespace | europeana |
| URI | [http://www.europeana.eu/ese/terms/isShownBy](http://www.europeana.eu/ese/terms/isShownBy) |
| Label | Is Shown By |
| Definition | An unambiguous URL reference to the digital object on the content provider’s web site in the best available resolution/quality. |
### Europeana Semantic Elements specifications

#### Element name: isShownBy

<table>
<thead>
<tr>
<th>Namespace</th>
<th>dcterms</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://purl.org/dc/terms/isShownBy">http://purl.org/dc/terms/isShownBy</a></td>
</tr>
<tr>
<td>Label</td>
<td>Is Version Of</td>
</tr>
<tr>
<td>Definition</td>
<td>A related resource of which the described resource is a version, edition, or</td>
</tr>
</tbody>
</table>

#### Europeana note

This is a URL that will be active in the Europeana interface. It will lead users to the digital object on the content provider’s website where they can view or play it.

The digital object needs to be directly accessible by the URL and reasonably independent at that location. If the URL includes short copyright information with the pointer to the object it can be entered in <europeana:isShownBy>. Use <europeana:isShownAt> for digital objects embedded in HTML pages (even where the page is extremely simple).

#### Obligation & Occurrence

Optional (Minimum: 0, Maximum: 1)

But either isShownBy OR isShownAt is Mandatory

#### Europeana search and display features

<table>
<thead>
<tr>
<th>Simple search</th>
<th>Facet</th>
<th>Timeline</th>
<th>Advanced search</th>
<th>Full search result display</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>X (Click on the thumbnail leads to the URL)</td>
</tr>
</tbody>
</table>

#### Example

```xml
<europeana:isShownBy>
http://resolver.kb.nl/resolve?urn=urn:gvn:RA01:30051001524450
</europeana:isShownBy>
```

### Element name: issued

<table>
<thead>
<tr>
<th>Namespace</th>
<th>dcterms</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://purl.org/dc/terms/issued">http://purl.org/dc/terms/issued</a></td>
</tr>
<tr>
<td>Label</td>
<td>Date Issued</td>
</tr>
<tr>
<td>Definition</td>
<td>Date of formal issuance (e.g., publication) of the resource. Refinement of <a href="">dc:date</a>.</td>
</tr>
</tbody>
</table>

#### Europeana note

The date when the original analog or born digital object was issued or published. It may be used to generate the <europeana:year> for the timeline where this is appropriate.

#### Obligation & Occurrence

Optional (Minimum: 0, Maximum: unbounded)

#### Europeana search and display features

<table>
<thead>
<tr>
<th>Simple search</th>
<th>Facet</th>
<th>Timeline</th>
<th>Advanced search</th>
<th>Full search result display</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td>X (More: Date Line)</td>
</tr>
</tbody>
</table>

#### Example

```xml
<dcterms:issued>1993</dcterms:issued>
```
adaptation. Changes in version imply substantive changes in content rather than differences in format. Refinement of `<dc:relation>`. See also `<dcterms:hasVersion>`.

<table>
<thead>
<tr>
<th>Europeana note</th>
<th>Obligation &amp; Occurrence</th>
<th>Europeana search and display features</th>
<th>Simple search</th>
<th>Facet</th>
<th>Timeline</th>
<th>Advanced search</th>
<th>Full search result display</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Optional (Minimum: 0, Maximum: unbounded)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Example**

```
<dcterms:isVersionOf>ESE Version 0.5</dcterms:isVersionOf>
```

---

**Element name: language**

<table>
<thead>
<tr>
<th>Namespace</th>
<th>dc</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://purl.org/dc/terms/language">http://purl.org/dc/terms/language</a></td>
</tr>
<tr>
<td>Label</td>
<td>Language</td>
</tr>
<tr>
<td>Definition</td>
<td>A language of the resource.</td>
</tr>
</tbody>
</table>

**Comment**

The recommended best practice is to use a controlled vocabulary such as RFC 4646 ([http://www.rfc-archive.org/getrfc.php?rfc=4646](http://www.rfc-archive.org/getrfc.php?rfc=4646)) which, in conjunction with ISO 639, defines two- and three-letter primary language tags. Either a coded value or text string can be represented here.

Europeana note

Use this element for the language of text included in images (i.e. posters, newspapers etc).

If there is no language aspect to the digital object (e.g. a photograph), please ignore this element.

Use of RFC 4646 is highly recommended.

This element is not for the language of the metadata of a resource, which may be described in xml:lang attribute. For example, `<dc:title xml:lang="en">After dark</dc:title>`.

See `<europeana:language>`.

<table>
<thead>
<tr>
<th>Europeana note</th>
<th>Obligation &amp; Occurrence</th>
<th>Europeana search and display features</th>
<th>Simple search</th>
<th>Facet</th>
<th>Timeline</th>
<th>Advanced search</th>
<th>Full search result display</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Optional (Minimum: 0, Maximum: unbounded)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Example**

```
<dc:language>it</dc:language>
```
**Element name: language**

<table>
<thead>
<tr>
<th>Namespace</th>
<th>europeana</th>
</tr>
</thead>
<tbody>
<tr>
<td>Label</td>
<td>Europeana Language</td>
</tr>
<tr>
<td>Definition</td>
<td>A language assigned to the resource with reference to the content provider.</td>
</tr>
<tr>
<td>Europeana note</td>
<td>For the Europeana prototype, <code>&lt;europeana:language&gt;</code> is the official language of the country where a content provider is located. It is expressed using the ISO 639-1 (the two-character code) (e.g. “en”, “de” etc). For countries with several official languages, Europeana uses “mul” for multilingual (ISO 639-2).</td>
</tr>
<tr>
<td>Obligation &amp; Occurrence</td>
<td>Mandatory (Minimum:1, Maximum: 1)</td>
</tr>
<tr>
<td>Europeana search and display features</td>
<td>Simple search</td>
</tr>
<tr>
<td>Example</td>
<td><code>&lt;europeana:language&gt;ro&lt;/europeana:language&gt;</code></td>
</tr>
</tbody>
</table>

**Element name: medium**

<table>
<thead>
<tr>
<th>Namespace</th>
<th>dcterms</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://purl.org/dc/terms/medium">http://purl.org/dc/terms/medium</a></td>
</tr>
<tr>
<td>Label</td>
<td>Medium</td>
</tr>
<tr>
<td>Definition</td>
<td>The material or physical carrier of the resource. Refinement of <code>&lt;dc:format&gt;</code> .</td>
</tr>
<tr>
<td>Europeana note</td>
<td>This is the medium of the original analog or born digital object.</td>
</tr>
<tr>
<td>Obligation &amp; Occurrence</td>
<td>Optional (Minimum: 0, Maximum: unbounded)</td>
</tr>
<tr>
<td>Europeana search and display features</td>
<td>Simple search</td>
</tr>
<tr>
<td>Example</td>
<td><code>&lt;dcterms:medium&gt;metal&lt;/dcterms:medium&gt;</code></td>
</tr>
</tbody>
</table>

**Element name: object**

<table>
<thead>
<tr>
<th>Namespace</th>
<th>europeana</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://www.europeana.eu/ese/terms/object">http://www.europeana.eu/ese/terms/object</a></td>
</tr>
<tr>
<td>Label</td>
<td>Object</td>
</tr>
<tr>
<td>Definition</td>
<td>An unambiguous URL (not URI) reference to the digital object in the best resolution available on the content provider’s web site to generate a thumbnail</td>
</tr>
</tbody>
</table>
or sample. This element usually maps to `<europeana:isShownBy>`.
See also `<europeana:hasObject>`.

Thumbnail images are generated for display in Europeana from digital objects whose format (such as PDF, JPEG, and TIFF) is compliant with the Image Magick software which is used ([http://www.imagemagick.org/](http://www.imagemagick.org/)). Image Magick needs to have direct access to the image to create a thumbnail; for example it cannot make a thumbnail out of an image embedded in an HTML page.

Europeana creates one thumbnail per record. If a record contains several pages in a PDF, the front page is used to create the thumbnail. If a record contains several image files, the first file that appears is used for the thumbnail.

If the digital object is not in the Image Magick compliant format, this element is not mandatory. Where no thumbnail is available, a default thumbnail for the type of object will be displayed.

<table>
<thead>
<tr>
<th>Obligation &amp; Occurrence</th>
<th>Optional (Minimum: 0, Maximum: 1) But mandatory if applicable (See above)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Europeana search and display features</th>
<th>Simple search</th>
<th>Facet</th>
<th>Timeline</th>
<th>Advanced search</th>
<th>Full search result display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Element name: provenance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Namespace</td>
</tr>
<tr>
<td>URI</td>
</tr>
<tr>
<td>Label</td>
</tr>
<tr>
<td>Definition</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Europeana note</th>
<th>This relates to the ownership and custody of the original analog or born digital object.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Obligation &amp; Occurrence</td>
<td>Optional (Minimum: 0, Maximum: unbounded)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Europeana search and display features</th>
<th>Simple search</th>
<th>Facet</th>
<th>Timeline</th>
<th>Advanced search</th>
<th>Full search result display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td>X (More: Provenance Line)</td>
</tr>
</tbody>
</table>

| Example | <dcterms:provenance>Donated by The National Library in 1965</dcterms:provenance> |
### Element name: provider

<table>
<thead>
<tr>
<th>Namespace</th>
<th>europeana</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://www.europeana.eu/ese/terms/provider">http://www.europeana.eu/ese/terms/provider</a></td>
</tr>
<tr>
<td>Label</td>
<td>Europeana Provider</td>
</tr>
<tr>
<td>Definition</td>
<td>Name of the organization that deliver content to Europeana.</td>
</tr>
<tr>
<td>Europeana note</td>
<td>Please note that content provider means the organization that sends the data to Europeana and neither the institution that owns the original object nor the institution where the original object is located. In case of aggregator and European project (e.g. Video Active <a href="http://www.videoactive.eu/VideoActive/Home.do">http://www.videoactive.eu/VideoActive/Home.do</a>) <a href="">europeana:provider</a> is the name of aggregator/project.</td>
</tr>
<tr>
<td>Obligation &amp; Occurrence</td>
<td>Mandatory (Minimum: 1, Maximum: 1)</td>
</tr>
<tr>
<td>Europeana search and display features</td>
<td>Simple search</td>
</tr>
<tr>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Example</td>
<td><a href="">europeana:provider</a>Het Geheugen van Nederland&lt;/europeana:provider&gt;</td>
</tr>
</tbody>
</table>

### Element name: publisher

<table>
<thead>
<tr>
<th>Namespace</th>
<th>dc</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://purl.org/dc/terms/publisher">http://purl.org/dc/terms/publisher</a></td>
</tr>
<tr>
<td>Label</td>
<td>Publisher</td>
</tr>
<tr>
<td>Definition</td>
<td>An entity responsible for making the resource available. Examples of a publisher include a person, an organisation and a service.</td>
</tr>
<tr>
<td>Europeana note</td>
<td>The name of the publisher of the original analog or born digital object.</td>
</tr>
<tr>
<td>Obligation &amp; Occurrence</td>
<td>Optional (Minimum: 0, Maximum: unbounded)</td>
</tr>
<tr>
<td>Europeana search and display features</td>
<td>Simple search</td>
</tr>
<tr>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Example</td>
<td><a href="">dc:publisher</a>Oxford University Press&lt;/dc:publisher&gt;</td>
</tr>
</tbody>
</table>

### Element name: references

<table>
<thead>
<tr>
<th>Namespace</th>
<th>dcterms</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://purl.org/dc/terms/references">http://purl.org/dc/terms/references</a></td>
</tr>
<tr>
<td>Label</td>
<td>References</td>
</tr>
<tr>
<td>Definition</td>
<td>A related resource that is referenced, cited, or otherwise pointed to by the described resource. Refinement of <a href="">dc:relation</a>.</td>
</tr>
</tbody>
</table>
### Element name: relation

<table>
<thead>
<tr>
<th>Namespace</th>
<th>dc</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://purl.org/dc/terms/relation">http://purl.org/dc/terms/relation</a></td>
</tr>
<tr>
<td>Label</td>
<td>Relation</td>
</tr>
<tr>
<td>Definition</td>
<td>A related resource. The recommended best practice is to identify the resource using a formal identification scheme.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Europeana note</th>
</tr>
</thead>
<tbody>
<tr>
<td>This is information about resources that are related to the original analog or born digital object.</td>
</tr>
<tr>
<td>Refined by: <a href="">dcterms:isVersionOf</a>; <a href="">dcterms:hasVersion</a>; <a href="">dcterms:isReplacedBy</a>; <a href="">dcterms:replaces</a>; <a href="">dcterms:isRequiredBy</a>; <a href="">dcterms:requires</a>; <a href="">dcterms:isPartOf</a>; <a href="">dcterms:hasPart</a>; <a href="">dcterms:isReferencedBy</a>; <a href="">dcterms:references</a>; <a href="">dcterms:isFormatOf</a>; <a href="">dcterms:hasFormat</a>; <a href="">dcterms:conformsTo</a>; <a href="">europeana:isShownBy</a>; <a href="">europeana:isShownAt</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Obligation &amp; Occurrence</th>
<th>Optional (Minimum: 0, Maximum: unbounded)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Europeana search and display features</th>
<th>Simple search</th>
<th>Facet</th>
<th>Timeline</th>
<th>Advanced search</th>
<th>Full search result display</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="">dc:relation</a> maps.crace.1/33&lt;/dc:relation&gt; (This is the shelf mark for a map held in the British Library's Crace Collection).</td>
</tr>
</tbody>
</table>

### Element name: replaces

<table>
<thead>
<tr>
<th>Namespace</th>
<th>dcterms</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://purl.org/dc/terms/replaces">http://purl.org/dc/terms/replaces</a></td>
</tr>
<tr>
<td>Label</td>
<td>Replaces</td>
</tr>
<tr>
<td>Definition</td>
<td>A related resource that is supplanted, displaced, or superseded by the described resource.</td>
</tr>
<tr>
<td></td>
<td>Refinement of <a href="">dc:relation</a>. See also <a href="">dcterms:isReplacedBy</a>.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Europeana note</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
</tr>
<tr>
<td><strong>note</strong></td>
</tr>
<tr>
<td>---</td>
</tr>
<tr>
<td><strong>Europeana search and display features</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>Example</strong></td>
</tr>
</tbody>
</table>

**Element name: requires**

<table>
<thead>
<tr>
<th><strong>Namespace</strong></th>
<th>dcterms</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>URI</strong></td>
<td><a href="http://purl.org/dc/terms/requires">http://purl.org/dc/terms/requires</a></td>
</tr>
<tr>
<td><strong>Label</strong></td>
<td>Requires</td>
</tr>
<tr>
<td><strong>Definition</strong></td>
<td>A related resource that is required by the described resource to support its function, delivery or coherence. Refinement of <code>&lt;dc:relation&gt;</code>. See also <code>&lt;dcterms:isRequiredBy&gt;</code>:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Europeana note</strong></th>
<th>Obligation &amp; Occurrence: Optional (Minimum: 0, Maximum: unbounded)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Europeana search and display features</strong></td>
<td>Simple search</td>
</tr>
<tr>
<td></td>
<td>X</td>
</tr>
<tr>
<td><strong>Example</strong></td>
<td><code>&lt;dcterms:requires&gt;http://ads.ahds.ac.uk/project/userinfo/css/oldbrowsers.css&lt;/dcterms:requires&gt;</code> where the resource described is a HTML file at <a href="http://ads.ahds.ac.uk/project/userinfo/digitalTextArchiving.html">http://ads.ahds.ac.uk/project/userinfo/digitalTextArchiving.html</a></td>
</tr>
</tbody>
</table>

**Element name: rights**

<table>
<thead>
<tr>
<th><strong>Namespace</strong></th>
<th>dc</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>URI</strong></td>
<td><a href="http://purl.org/dc/terms/rights">http://purl.org/dc/terms/rights</a></td>
</tr>
<tr>
<td><strong>Label</strong></td>
<td>Rights</td>
</tr>
<tr>
<td><strong>Definition</strong></td>
<td>Information about rights held in and over the resource.</td>
</tr>
<tr>
<td><strong>Europeana note</strong></td>
<td>Information about intellectual Property Rights, access rights or license arrangements for the digital object (digitized or born digital).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Europeana note</strong></th>
<th>Obligation &amp; Occurrence: Optional (Minimum: 0, Maximum: unbounded)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Europeana search and display features</strong></td>
<td>Simple search</td>
</tr>
<tr>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>
### Element name: source

<table>
<thead>
<tr>
<th>Namespace</th>
<th>dc</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://purl.org/dc/terms/source">http://purl.org/dc/terms/source</a></td>
</tr>
<tr>
<td>Label</td>
<td>Source</td>
</tr>
<tr>
<td>Definition</td>
<td>A related resource from which the described resource is derived in whole or in part.</td>
</tr>
<tr>
<td>Europeana note</td>
<td>This may be used for several sources that are related to the object such as reference sources or the names of content holders. The name of the content provider should be inserted in <code>&lt;europeana:provider&gt;</code></td>
</tr>
<tr>
<td>Obligation &amp; Occurrence</td>
<td>Optional (Minimum: 0, Maximum: unbounded)</td>
</tr>
<tr>
<td>Europeana search and display features</td>
<td>Simple search</td>
</tr>
<tr>
<td>Example</td>
<td><code>&lt;dc:source&gt;Security Magazine pp 3-12&lt;/dc:source&gt;</code></td>
</tr>
<tr>
<td></td>
<td><code>&lt;dc:source&gt;BAM portal&lt;/dc:source&gt;</code></td>
</tr>
</tbody>
</table>

### Element name: spatial

<table>
<thead>
<tr>
<th>Namespace</th>
<th>dcterms</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://purl.org/dc/terms/spatial">http://purl.org/dc/terms/spatial</a></td>
</tr>
<tr>
<td>Label</td>
<td>Spatial Coverage</td>
</tr>
<tr>
<td>Definition</td>
<td>Spatial characteristics of the resource. Refinement of <code>&lt;dc:coverage&gt;</code>.</td>
</tr>
<tr>
<td>Europeana note</td>
<td>Information about the spatial characteristics of the original analog or born digital object, i.e. what the resource represents or depicts in terms of space. This may be a named place, a location, a spatial coordinate or a named administrative entity.</td>
</tr>
<tr>
<td>Obligation &amp; Occurrence</td>
<td>Optional (Minimum: 0, Maximum: unbounded)</td>
</tr>
<tr>
<td>Europeana search and display features</td>
<td>Simple search</td>
</tr>
<tr>
<td>Example</td>
<td><code>&lt;dcterms:spatial&gt;Portugal&lt;/dcterms:spatial&gt;</code></td>
</tr>
</tbody>
</table>

### Element name: subject

<table>
<thead>
<tr>
<th>Namespace</th>
<th>dc</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://purl.org/dc/terms/subject">http://purl.org/dc/terms/subject</a></td>
</tr>
<tr>
<td>Label</td>
<td>Subject</td>
</tr>
<tr>
<td>---------------</td>
<td>-------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Definition</td>
<td>The topic of the resource</td>
</tr>
<tr>
<td>Europeana</td>
<td>This is the subject of the original analog or born digital object,</td>
</tr>
<tr>
<td>note</td>
<td>Optional (Minimum: 0, Maximum: unbounded)</td>
</tr>
<tr>
<td>Obligation &amp;</td>
<td></td>
</tr>
<tr>
<td>Occurrence</td>
<td></td>
</tr>
<tr>
<td>Europeana</td>
<td></td>
</tr>
<tr>
<td>search and</td>
<td>Simple search</td>
</tr>
<tr>
<td>display</td>
<td>X</td>
</tr>
<tr>
<td>features</td>
<td>X</td>
</tr>
</tbody>
</table>

Example: `<dc:subject>submarine</dc:subject>`

**Element name: tableOfContents**

<table>
<thead>
<tr>
<th>Namespace</th>
<th>dcterms</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://purl.org/dc/terms/tableOfContents">http://purl.org/dc/terms/tableOfContents</a></td>
<td></td>
</tr>
<tr>
<td>Label</td>
<td>Table Of Contents</td>
<td></td>
</tr>
<tr>
<td>Definition</td>
<td>A list of subunits of the resource.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Refinement of <code>&lt;dc:description&gt;</code>.</td>
<td></td>
</tr>
<tr>
<td>Europeana</td>
<td>A list of the units within the original</td>
<td></td>
</tr>
<tr>
<td>note</td>
<td>analog or born digital resource object.</td>
<td></td>
</tr>
<tr>
<td>Obligation &amp;</td>
<td>Optional (Minimum: 0, Maximum: unbounded)</td>
<td></td>
</tr>
<tr>
<td>Occurrence</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Europeana</td>
<td></td>
<td></td>
</tr>
<tr>
<td>search and</td>
<td>Simple search</td>
<td>Facet</td>
</tr>
<tr>
<td>display</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>features</td>
<td>X</td>
<td>X Subject</td>
</tr>
</tbody>
</table>

Example: `<dcterms:tableOfContents>Chapter 1. Introduction, Chapter 2. History</dcterms:tableOfContents>`

**Element name: temporal**

<table>
<thead>
<tr>
<th>Namespace</th>
<th>dcterms</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://purl.org/dc/terms/temporal">http://purl.org/dc/terms/temporal</a></td>
<td></td>
</tr>
<tr>
<td>Label</td>
<td>Temporal Coverage</td>
<td></td>
</tr>
<tr>
<td>Definition</td>
<td>Temporal characteristics of the resource.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Refinement of <code>&lt;dc:coverage&gt;</code>.</td>
<td></td>
</tr>
<tr>
<td>Europeana</td>
<td>The temporal characteristics of the</td>
<td></td>
</tr>
<tr>
<td>note</td>
<td>original analog or born digital object.</td>
<td></td>
</tr>
<tr>
<td>Obligation &amp;</td>
<td>This may be a period, date or date range.</td>
<td></td>
</tr>
<tr>
<td>Occurrence</td>
<td>Optional (Minimum: 0, Maximum: unbounded)</td>
<td></td>
</tr>
<tr>
<td>Europeana</td>
<td></td>
<td></td>
</tr>
<tr>
<td>search and</td>
<td>Simple search</td>
<td>Facet</td>
</tr>
<tr>
<td>display</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>features</td>
<td>X</td>
<td>X Subject</td>
</tr>
</tbody>
</table>

Example: `<dc:subject>submarine</dc:subject>`
### Element name: title

<table>
<thead>
<tr>
<th>Namespace</th>
<th>dc</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://purl.org/dc/terms/title">http://purl.org/dc/terms/title</a></td>
</tr>
<tr>
<td>Label</td>
<td>Title</td>
</tr>
<tr>
<td>Definition</td>
<td>A name given to the resource. Typically, a Title will be a name by which the resource is formally known. Refined by: <code>&lt;dcterms:alternative&gt;</code></td>
</tr>
<tr>
<td>Europeana note</td>
<td>The title of the original analog or born digital object.</td>
</tr>
<tr>
<td>Obligation &amp; Occurrence</td>
<td>Optional (Minimum: 0, Maximum: unbounded)</td>
</tr>
<tr>
<td>Europeana search and display features</td>
<td>Simple search</td>
</tr>
<tr>
<td>Example</td>
<td><code>&lt;dc:title&gt;Taal vitaal&lt;/dc:title&gt;</code></td>
</tr>
</tbody>
</table>

### Element name: type

<table>
<thead>
<tr>
<th>Namespace</th>
<th>dc</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://purl.org/dc/terms/type">http://purl.org/dc/terms/type</a></td>
</tr>
<tr>
<td>Label</td>
<td>Type</td>
</tr>
<tr>
<td>Definition</td>
<td>The nature or genre of the resource. Type includes terms describing general categories, functions, genres, or aggregation levels for content. The recommended best practice is to select a value from a controlled vocabulary (for example, the DC Type vocabulary is available at <a href="http://dublincore.org/documents/dcmi-type-vocabulary/">http://dublincore.org/documents/dcmi-type-vocabulary/</a>).</td>
</tr>
<tr>
<td>Europeana note</td>
<td>The type of the original analog or born digital object as recorded by the content provider, this element typically includes values such as photograph, painting, sculpture etc. Content providers are recommended to map the values found in <code>&lt;dc:type&gt;</code> in their metadata with four material types used in Europeana: TEXT, IMAGE, SOUND and VIDEO. See <code>&lt;europeana:type&gt;</code> below.</td>
</tr>
<tr>
<td>Obligation &amp; Occurrence</td>
<td>Optional (Minimum:0, Maximum: unbounded)</td>
</tr>
<tr>
<td>Europeana search and display features</td>
<td>Simple search</td>
</tr>
<tr>
<td>Example</td>
<td><code>&lt;dc:type&gt;painting&lt;/dc:type&gt;</code> &lt;br&gt;<code>&lt;dc:type&gt;photograph&lt;/dc:type&gt;</code> &lt;br&gt;<code>&lt;dc:type&gt;coin&lt;/dc:type&gt;</code></td>
</tr>
</tbody>
</table>
### Element name: type

<table>
<thead>
<tr>
<th>Namespace</th>
<th>europeana</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://www.europeana.eu/ese/terms/type">http://www.europeana.eu/ese/terms/type</a></td>
</tr>
<tr>
<td>Label</td>
<td>Europeana Type</td>
</tr>
<tr>
<td>Definition</td>
<td>The Europeana material type of the resource.</td>
</tr>
<tr>
<td>Europeana note</td>
<td>All digital objects in Europeana have to be classified as one of the four Europeana material types: TEXT, IMAGE, SOUND or VIDEO. This element is used to create Type facet based on the Europeana material types. A default thumbnail is used in the short or full record display when a thumbnail is not available (see <code>&lt;europeana:object&gt;</code>). Content providers are requested to create a mapping from the local type terminology used in their metadata to the four types used in Europeana. The mapping is typically based on the values in <code>&lt;dc:type&gt;</code>.</td>
</tr>
<tr>
<td>Obligation &amp; Occurrence</td>
<td>Mandatory (Minimum:1, Maximum: 1)</td>
</tr>
<tr>
<td>Europeana search and display features</td>
<td></td>
</tr>
<tr>
<td>Simple search</td>
<td>Facet</td>
</tr>
<tr>
<td>X</td>
<td>X Type facet</td>
</tr>
<tr>
<td>Example</td>
<td><a href="">europeana:type</a>TEXT&lt;/europeana:type&gt; (upper-case)</td>
</tr>
<tr>
<td></td>
<td><a href="">europeana:type</a>IMAGE&lt;/europeana:type&gt; (upper-case)</td>
</tr>
<tr>
<td></td>
<td><a href="">europeana:type</a>SOUND&lt;/europeana:type&gt; (upper-case)</td>
</tr>
<tr>
<td></td>
<td><a href="">europeana:type</a>VIDEO&lt;/europeana:type&gt; (upper-case)</td>
</tr>
</tbody>
</table>

### Element name: unstored

<table>
<thead>
<tr>
<th>Namespace</th>
<th>europeana</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://www.europeana.eu/ese/terms/unstored">http://www.europeana.eu/ese/terms/unstored</a></td>
</tr>
<tr>
<td>Label</td>
<td>Unstored</td>
</tr>
<tr>
<td>Definition</td>
<td>This is a container element which includes all relevant information that otherwise cannot be mapped to another element in the ESE.</td>
</tr>
<tr>
<td>Europeana note</td>
<td>The <code>&lt;europeana:unstored&gt;</code> element is provided in order to include important information for indexing purposes. All relevant information elements, which cannot be mapped to another element in the ESE, should be mapped into this element. This element is not available in “full search result display”.</td>
</tr>
<tr>
<td>Obligation &amp; Occurrence</td>
<td>Optional (Minimum: 0, Maximum: unbounded)</td>
</tr>
<tr>
<td>Europeana search and display feature</td>
<td></td>
</tr>
<tr>
<td>Simple search</td>
<td>Facet</td>
</tr>
<tr>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>
### Element name: uri

<table>
<thead>
<tr>
<th>Namespace</th>
<th>europeana</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://www.europeana.eu/ese/terms/uri">http://www.europeana.eu/ese/terms/uri</a></td>
</tr>
<tr>
<td>Label</td>
<td>Europeana URI</td>
</tr>
<tr>
<td>Definition</td>
<td>An unambiguous URI to the resource within Europeana’s context.</td>
</tr>
<tr>
<td>Europeana note</td>
<td>This is a record identifier for the object in the Europeana system. It is created based on the unique identifiers provided in the source metadata. Please note that in cases where a content provider supplies two or more records with the same record identifier, only the first record is kept by Europeana. Subsequent records with the same identifier are discarded.</td>
</tr>
<tr>
<td>Obligation &amp; Occurrence</td>
<td>Mandatory (Minimum: 1, Maximum: 1)</td>
</tr>
<tr>
<td>Europeana search and display features</td>
<td>Simple search</td>
</tr>
<tr>
<td>Example</td>
<td><a href="http://www.europeana.eu/resolve/record/00401/A7F7E0E6600">http://www.europeana.eu/resolve/record/00401/A7F7E0E6600</a></td>
</tr>
</tbody>
</table>

### Element name: userTag

<table>
<thead>
<tr>
<th>Namespace</th>
<th>europeana</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://www.europeana.eu/ese/terms/userTag">http://www.europeana.eu/ese/terms/userTag</a></td>
</tr>
<tr>
<td>Label</td>
<td>User Tag</td>
</tr>
<tr>
<td>Definition</td>
<td>This is a tag created by a user through the Europeana interface. These are tags created by registered users.</td>
</tr>
<tr>
<td>Europeana note</td>
<td>Optional (Minimum:0, Maximum: unbounded)</td>
</tr>
<tr>
<td>Obligation &amp; Occurrence</td>
<td></td>
</tr>
<tr>
<td>Europeana search and display features</td>
<td>Simple search</td>
</tr>
<tr>
<td>Example</td>
<td><a href="">europeana:userTag</a>My favorite food!&lt;/europeana:userTag&gt;</td>
</tr>
</tbody>
</table>

### Element name: year
Europeana Semantic Elements specifications

<table>
<thead>
<tr>
<th>Namespace</th>
<th>europeana</th>
</tr>
</thead>
<tbody>
<tr>
<td>URI</td>
<td><a href="http://www.europeana.eu/ese/terms/year">http://www.europeana.eu/ese/terms/year</a></td>
</tr>
<tr>
<td>Label</td>
<td>Europeana Year</td>
</tr>
</tbody>
</table>

**Definition**
A point of time associated with an event in the life of the original analog or born digital object.

**Europeana note**
This is a 4 digit year in the Gregorian calendar (e.g. 1523), which is derived from date values in the source metadata. Typically it is derived from `<dc:date>`. It is used in the Europeana timeline and the date facet.

Objects with no `<europeana:year>` will not be represented in the Timeline or the date facet.

**Obligation & Occurrence**
Optional (Minimum:0, Maximum: unbounded)

**Europeana search and display features**

<table>
<thead>
<tr>
<th>Simple search</th>
<th>Facet</th>
<th>Timeline</th>
<th>Advanced search</th>
<th>Full search result display</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**Example**
`<europeana:year>1523</europeana:year>`
## 5. Document history

<table>
<thead>
<tr>
<th>Version</th>
<th>Author</th>
<th>Updated</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>V0.5</td>
<td>Go Sugimoto</td>
<td>2008-07-04</td>
<td>Draft creation</td>
</tr>
<tr>
<td>V2.0</td>
<td>Catherine Lupovici</td>
<td>2008-08-28</td>
<td>Major change to include new elements</td>
</tr>
<tr>
<td>V2.5</td>
<td>Go Sugimoto</td>
<td>2008-09-10</td>
<td>Release to enable Europeana community to undertake mappings</td>
</tr>
<tr>
<td>V3.0</td>
<td>Go Sugimoto</td>
<td>2008-12-04</td>
<td>Major change to include new elements</td>
</tr>
<tr>
<td>V3.1</td>
<td>Go Sugimoto and Kate Fernie</td>
<td>2009-02-25</td>
<td>Public release</td>
</tr>
<tr>
<td>V3.2</td>
<td>Go Sugimoto and Catherine Lupovici</td>
<td>2009-08-07</td>
<td>2nd edition of the public release. Modification of elements and attributes definitions. This is required due to the development of the Portal and content policies. All related documents are now consistent.</td>
</tr>
</tbody>
</table>