



# Europeana Semantic Elements specifications

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## Europeana v1.0



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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:

Source	Element	Element Refinement(s)
DC	<a href="#">title</a>	<a href="#">alternative</a>
DC	<a href="#">creator</a>	
DC	<a href="#">subject</a>	
DC	<a href="#">description</a>	<a href="#">tableOfContents</a>
DC	<a href="#">publisher</a>	
DC	<a href="#">contributor</a>	
DC	<a href="#">date</a>	<a href="#">created</a> ; <a href="#">issued</a>
DC	<a href="#">type</a>	
DC	<a href="#">format</a>	<a href="#">extent</a> ; <a href="#">medium</a>
DC	<a href="#">identifier</a>	
DC	<a href="#">source</a>	
DC	<a href="#">language</a>	
DC	<a href="#">relation</a>	<a href="#">isVersionOf</a> ; <a href="#">hasVersion</a> ; <a href="#">isReplacedBy</a> ; <a href="#">replaces</a> ; <a href="#">isRequiredBy</a> ; <a href="#">requires</a> ; <a href="#">isPartOf</a> ; <a href="#">hasPart</a> ; <a href="#">isReferencedBy</a> ; <a href="#">references</a> ; <a href="#">isFormatOf</a> ; <a href="#">hasFormat</a> ; <a href="#">conformsTo</a>
DC	<a href="#">coverage</a>	<a href="#">spatial</a> ; <a href="#">temporal</a>
DC	<a href="#">rights</a>	
DC terms	<a href="#">provenance</a>	
Europeana	<a href="#">unstored</a>	
Europeana	<a href="#">object</a>	
Europeana	<a href="#">provider</a>	
Europeana	<a href="#">type</a>	
Europeana	<a href="#">isShownBy</a> ; <a href="#">isShownAt</a>	
Europeana	<a href="#">country</a>	
Europeana	<a href="#">hasObject</a>	
Europeana	<a href="#">language</a>	

Europeana	<a href="#">userTag</a>	
Europeana	<a href="#">uri</a>	
Europeana	<a href="#">year</a>	

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<sup>1</sup> 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:

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

<sup>1</sup> <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					
Namespace	dcterms				
URI	<a href="http://purl.org/dc/terms/alternative">http://purl.org/dc/terms/alternative</a>				
Label	Alternative Title				
Definition	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="#">&lt;dc:title&gt;</a>				
Europeana note	Any alternative title by which the original analog or born digital object is known. This can include abbreviations or translations of the title.				
Obligation & Occurrence	Optional (Minimum: 0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X			X Title	X (Title Line)
Example	<dcterms:alternative>Ocho semanas</dcterms:alternative> (When <dc:title>Eight weeks</dc:title>)				

Element name: conformsTo					
Namespace	dcterms				
URI	<a href="http://purl.org/dc/terms/conformsTo">http://purl.org/dc/terms/conformsTo</a>				
Label	Conforms To				
Definition	An established standard to which the described resource conforms. Refinement of <a href="#">&lt;dc:relation&gt;</a> .				
Europeana note	The names of standards that the digital object (digitized or born digital) complies with and which are useful for the use of the object.				
Obligation & Occurrence	Optional (Minimum: 0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X				X (More: Relations Line)
Example	<dcterms:conformsTo> W3C WCAG 2.0</dcterms:conformsTo> (for an HTML				

	document that conforms to web content accessibility guidelines).
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<b>Element name: contributor</b>					
Namespace	dc				
URI	<a href="http://purl.org/dc/terms/contributor">http://purl.org/dc/terms/contributor</a>				
Label	Contributor				
Definition	An entity responsible for making contributions to the resource.				
Europeana note	The name of contributors to the original analog or born digital object. This could be a person, an organisation or a service.				
Obligation & Occurrence	Optional (Minimum: 0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X			(Creator)	X (Creator Line)
Example	<dc:contributor>Maria Callas</dc:contributor>				

<b>Element name: country</b>					
Namespace	europeana				
URI	<a href="http://www.europeana.eu/schemas/ese/country">http://www.europeana.eu/schemas/ese/country</a>				
Label	Country				
Definition	This is the name of the country in which the content provider is based or “Europe” in the case of Europe-wide projects.				
Europeana note	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> .				
Obligation & Occurrence	Mandatory (Minimum: 1, Maximum: 1)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X	X (Country)			X (Country)
Example	<europeana:country>AL</europeana:country>				

<b>Element name: coverage</b>					
Namespace	dc				
URI	<a href="http://purl.org/dc/terms/coverage">http://purl.org/dc/terms/coverage</a>				
Label	Coverage				
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 named administrative entity.				

	Refined by < <a href="#">dcterms:spatial</a> > and < <a href="#">dcterms:temporal</a> >				
Europeana note	Coverage is the unqualified spatial or temporal coverage of the original analog or born digital object. Use of the more specific < <a href="#">dcterms:spatial</a> > and < <a href="#">dcterms:temporal</a> > elements is preferred where possible.				
Obligation & Occurrence	Optional (Minimum: 0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X				X (More: Subject Line)
Example	<dc:coverage>1995-1996</dc:coverage> <dc:coverage>Boston, MA</dc:coverage>				

<b>Element name: created</b>					
Namespace	dcterms				
URI	<a href="http://purl.org/dc/terms/created">http://purl.org/dc/terms/created</a>				
Label	Date Created				
Definition	Date of creation of the resource. Refinement of < <a href="#">dc:date</a> >				
Europeana note	This is the date when the original analog or born digital object was created. The creation date is used to generate the < <a href="#">europeana:year</a> > for use in the timeline where appropriate.				
Obligation & Occurrence	Optional (Minimum: 0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X				X (More: Date Line)
Example	<dcterms:created>1564</dcterms:created> <dcterms:created>Iron Age</dcterms:created>				

<b>Element name: creator</b>					
Namespace	dc				
URI	<a href="http://purl.org/dc/terms/creator">http://purl.org/dc/terms/creator</a>				
Label	Creator				
Definition	An entity primarily responsible for making the resource. This may be a person, organisation or a service.				
Europeana note	This is the name of the creator of the original analog or born digital object.				
Obligation & Occurrence	Optional (Minimum: 0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display

display features	X			X Creator	X (Creator Line)
Example	<dc:creator>Shakespeare, William</dc:creator>				

<b>Element name: date</b>					
Namespace	dc				
URI	<a href="http://purl.org/dc/terms/date">http://purl.org/dc/terms/date</a>				
Label	Date				
Definition	A point or period of time associated with an event in the lifecycle of the resource. Refined by: <a href="#">&lt;dc:created&gt;</a> and <a href="#">&lt;dcterms:issued&gt;</a>				
Europeana note	Use for a significant date in the life of the original analogue or born digital object (see example). Use <a href="#">&lt;dcterms:temporal&gt;</a> (or <a href="#">&lt;dc:coverage&gt;</a> ) if the date is associated with the topic of the resource. <dc:date> can be used to generate <a href="#">&lt;europeana:year&gt;</a> for the timeline where appropriate.				
Obligation & Occurrence	Optional (Minimum: 0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X			(X Date)	X (More: Date Line)
Example	<dc:date>17 <sup>th</sup> century</dc:date> (For example the date when an object was repaired).				

<b>Element name: description</b>					
Namespace	dc				
URI	<a href="http://purl.org/dc/terms/description">http://purl.org/dc/terms/description</a>				
Label	Description				
Definition	An account of the resource. Refined by: <a href="#">&lt;dcterms:tableOfContents&gt;</a>				
Europeana note	A description of the original analog or born digital object.				
Obligation & Occurrence	Optional (Minimum: 0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X				X (Description Line)
Example	<dc:description>Illustrated guide to airport markings and lighting signals, with particular reference to SMGCS (Surface Movement Guidance and Control System) for airports with low visibility conditions.</dc:description>				

Element name: extent					
Namespace	Dcterms				
URI	<a href="http://purl.org/dc/terms/extent">http://purl.org/dc/terms/extent</a>				
Label	Extent				
Definition	The size or duration of the resource. Refinement of < <a href="#">dc:format</a> >.				
Europeana note	Size or duration of the digital object and the original object may be recorded.				
Obligation & Occurrence	Optional (Minimum: 0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X				X (Format Line)
Example	<dcterms:extent>13 cm</dcterms:extent> (the width of an original object). <dcterms:extent>34 minutes</dcterms:extent> (the length of an audio file).				

Element name: format					
Namespace	dc				
URI	<a href="http://purl.org/dc/terms/format">http://purl.org/dc/terms/format</a>				
Label	Format				
Definition	The file format, physical medium or dimensions of the resource. Refined by: < <a href="#">dcterms:extent</a> > and < <a href="#">dcterms:medium</a> >				
Europeana note	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> ).  Use of the more specific elements < <a href="#">dcterms:extent</a> > (dimensions) and < <a href="#">dcterms:medium</a> > (physical medium) is preferred where appropriate.				
Obligation & Occurrence	Optional (Minimum: 0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X				X (Format Line)
Example	<dc:format>image/jpeg</dc:format>				

Element name: hasFormat	
Namespace	dcterms
URI	<a href="http://purl.org/dc/terms/hasFormat">http://purl.org/dc/terms/hasFormat</a>
Label	Has Format

Definition	A related resource that is substantially the same as the pre-existing described resource, but in another format. Refinement of <a href="#">&lt;dc:relation&gt;</a> . See also <a href="#">&lt;dcterms:isFormatOf&gt;</a> .				
Europeana note	Use <a href="#">&lt;dcterms:hasVersion&gt;</a> for differences in version.				
Obligation & Occurrence	Optional (Minimum: 0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X				X (More: Relation Line)
Example	<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.				

<b>Element name: hasObject</b>					
Namespace	europeana				
URI	<a href="http://www.europeana.eu/schemas/ese/hasObject">http://www.europeana.eu/schemas/ese/hasObject</a>				
Label	Has Object				
Definition	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 <a href="#">&lt;europeana:object&gt;</a> .				
Europeana note	Europeana supports Image Magick compliant formats such as PDF, JPEG, and TIFF ( <a href="http://www.imagemagick.org/">http://www.imagemagick.org/</a> ).				
Obligation & Occurrence	Mandatory (Minimum: 1, Maximum: 1)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
Example	<code>&lt;europeana:hasObject&gt;True&lt;/europeana:hasObject&gt;</code>				

<b>Element name: hasPart</b>					
Namespace	dcterms				
URI	<a href="http://purl.org/dc/terms/hasPart">http://purl.org/dc/terms/hasPart</a>				
Label	Has Part				
Definition	A related resource that is included either physically or logically in the described resource. Refinement of <a href="#">&lt;dc:relation&gt;</a> . See also <a href="#">&lt;dcterms:isPartOf&gt;</a> .				
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 (More: Relation Line)
Example	<dcterms:hasPart> Maps.Crace.1 </dcterms:hasPart> The identifier for a map which is part of the Crace Collection of maps.				

<b>Element name: hasVersion</b>					
Namespace	dcterms				
URI	<a href="http://purl.org/dc/terms/hasVersion">http://purl.org/dc/terms/hasVersion</a>				
Label	Has Version				
Definition	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 < <a href="#">dc:relation</a> >. See also < <a href="#">dcterms:isVersionOf</a> >.				
Europeana note	Use < <a href="#">dcterms:hasFormat</a> > for differences in format.				
Obligation & Occurrence	Optional (Minimum: 0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X				X (More: Relation Line)
Example	<dcterms: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.				

<b>Element name: identifier</b>					
Namespace	dc				
URI	<a href="http://purl.org/dc/terms/identifier">http://purl.org/dc/terms/identifier</a>				
Label	Identifier				
Definition	An unambiguous reference to the resource within a given context.				
Europeana note	This is the identifier for the original analog or born digital object. Use < <a href="#">europeana:isShownBy</a> > for the URL of the digital object. If the URL is already included in the < <a href="#">dc:identifier</a> > element in the existing metadata, keep it and repeat the information in < <a href="#">europeana:isShownBy</a> >.				
Obligation & Occurrence	Optional (Minimum: 0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X				X (More: Identifier Line)

Example	<dc:identifier>urn :isbn :9780387097466</dc:identifier> <dc:identifier> http://upload.wikimedia.org/wikipedia/en/f/f3/Europeana_logo.png</dc:identifier>
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<b>Element name: isFormatOf</b>					
Namespace	dcterms				
URI	<a href="http://purl.org/dc/terms/isFormatOf">http://purl.org/dc/terms/isFormatOf</a>				
Label	Is Format Of				
Definition	A related resource that is substantially the same as the described resource, but in another format. Refinement of < <a href="#">dc:relation</a> >. See also < <a href="#">dcterms:hasFormat</a> >.				
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 (More: Relation Line)
Example	<dcterms:isFormatOf> Europeana_logo.tiff</dcterms:isFormatOf> where the resource being described is a png image file.				

<b>Element name: isPartOf</b>					
Namespace	dcterms				
URI	<a href="http://purl.org/dc/terms/isPartOf">http://purl.org/dc/terms/isPartOf</a>				
Label	Is Part Of				
Definition	A related resource in which the described resource is physically or logically included. Refinement of < <a href="#">dc:relation</a> >. See also < <a href="#">dcterms:hasPart</a> >.				
Europeana note	Use for the name of the collection which the digital object is part of.				
Obligation & Occurrence	Optional (Minimum: 0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X				X (More: Relation Line)
Example	<dcterms:isPartOf>Crace Collection of Maps of London</dcterms:isPartOf>				

<b>Element name: isReferencedBy</b>					
Namespace	dcterms				
URI	<a href="http://purl.org/dc/terms/isReferencedBy">http://purl.org/dc/terms/isReferencedBy</a>				
Label	Is Referenced By				
Definition	A related resource that references, cites, or otherwise points to the described				

	resource. Refinement of <a href="#">&lt;dc:relation&gt;</a> . See also <a href="#">&lt;dcterms:references&gt;</a> .				
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 (More: Relation Line)
Example	<dcterms:isReferencedBy>Till, Nicholas (1994) <i>Mozart and the Enlightenment: Truth, Virtue and Beauty in Mozart's Operas</i> , W. W. Norton & Company </dcterms:isReferencedBy>				

<b>Element name: isReplacedBy</b>					
Namespace	dcterms				
URI	<a href="http://purl.org/dc/terms/isReplacedBy">http://purl.org/dc/terms/isReplacedBy</a>				
Label	Is Replaced By				
Definition	A related resource that supplants, displaces, or supersedes the described resource. Refinement of <a href="#">&lt;dc:relation&gt;</a> . See also <a href="#">&lt;dcterms:replaces&gt;</a> .				
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 (More: Relation Line)
Example	<dcterms:isReplacedBy> <a href="http://dublincore.org/about/2009/01/05/bylaws/">http://dublincore.org/about/2009/01/05/bylaws/</a> </dcterms:isReplacedBy> where the resource described is an older version ( <a href="http://dublincore.org/about/2006/01/01/bylaws/">http://dublincore.org/about/2006/01/01/bylaws/</a> )				

<b>Element name: isRequiredBy</b>					
Namespace	dcterms				
URI	<a href="http://purl.org/dc/terms/isRequiredBy">http://purl.org/dc/terms/isRequiredBy</a>				
Label	Is Required By				
Definition	A related resource that requires the described resource to support its function, delivery or coherence. Refinement of <a href="#">&lt;dc:relation&gt;</a> . See also <a href="#">&lt;dcterms:requires&gt;</a> .				
Europeana note					
Obligation & Occurrence	Optional (Minimum: 0, Maximum: unbounded)				

Occurrence					
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X				X (More: Relation Line)
Example	<isRequiredBy>http://www.myslides.com/myslideshow.ppt</isRequiredBy> where the image being described is required for an online slideshow.				

<b>Element name: isShownAt</b>					
Namespace	europeana				
URI	<a href="http://www.europeana.eu/schemas/ese/isShownAt">http://www.europeana.eu/schemas/ese/isShownAt</a>				
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 < <a href="#">dc:relation</a> >. See also < <a href="#">europeana:isShownBy</a> >.				
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>				

<b>Element name: isShownBy</b>					
Namespace	europeana				
URI	<a href="http://www.europeana.eu/schemas/ese/isShownBy">http://www.europeana.eu/schemas/ese/isShownBy</a>				
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. Refinement of < <a href="#">dc:relation</a> >. See also < <a href="#">europeana:isShownAt</a> >.				
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	Simple search	Facet	Timeline	Advanced search	Full search result display
					X (Click on the thumbnail leads to the URL)
Example	<europeana:isShownBy> http://resolver.kb.nl/resolve?urn=urn:gvn:RA01:30051001524450 </europeana:isShownBy>				

<b>Element name: issued</b>					
Namespace	dcterms				
URI	<a href="http://purl.org/dc/terms/issued">http://purl.org/dc/terms/issued</a>				
Label	Date Issued				
Definition	Date of formal issuance (e.g., publication) of the resource. Refinement of < <a href="#">dc:date</a> >.				
Europeana note	The date when the original analog or born digital object was issued or published. It may be used to generate the < <a href="#">europeana:year</a> > for the timeline where this is appropriate.				
Obligation & Occurrence	Optional (Minimum: 0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X				X (More: Date Line)
Example	<dcterms:issued>1993</dcterms:issued>				

<b>Element name: isVersionOf</b>					
Namespace	dcterms				
URI	<a href="http://purl.org/dc/terms/isVersionOf">http://purl.org/dc/terms/isVersionOf</a>				
Label	Is Version Of				
Definition	A related resource of which the described resource is a version, edition, or adaptation. Changes in version imply substantive changes in content rather than differences in format. Refinement of < <a href="#">dc:relation</a> >. See also < <a href="#">dcterms:hasVersion</a> >				
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 (More: Relations Line)
Example	<dcterms:isVersionOf>ESE Version 0.5</dcterms:isVersionOf>				

<b>Element name: language</b>					
Namespace	dc				
URI	<a href="http://purl.org/dc/terms/language">http://purl.org/dc/terms/language</a>				
Label	Language				
Definition	A language of the resource.				
Comment	The recommended best practice is to use a controlled vocabulary such as RFC 4646 ( <a href="http://www.rfc-archive.org/getrfc.php?rfc=4646">http://www.rfc-archive.org/getrfc.php?rfc=4646</a> ) 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	<p>Use this element for the language of text included in images (i.e. posters, newspapers etc).</p> <p>If there is no language aspect to the digital object (e.g. a photograph), please ignore this element.</p> <p>Use of RFC 4646 is highly recommended.</p> <p>This element is not for the language of the metadata of a resource, which may be described in xml:lang attribute. For example, &lt;dc:title xml:lang="en"&gt;After dark&lt;/dc:title&gt;.</p> <p>See &lt;<a href="#">europeana:language</a>&gt;.</p>				
Obligation & Occurrence	Optional (Minimum: 0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X				X (Language Line)
Example	<dc:language>it</dc:language>				

<b>Element name: language</b>					
Namespace	europeana				
URI	<a href="http://www.europeana.eu/schemas/ese/language">http://www.europeana.eu/schemas/ese/language</a>				
Label	Europeana Language				
Definition	A language assigned to the resource with reference to the content provider.				
Europeana note	For the Europeana prototype, <europeana:language> 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).				
Obligation & Occurrence	Mandatory (Minimum:1, Maximum: 1)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X	X Language facet			X (Language Line)
Example	<europeana:language>ro</europeana:language>				

<b>Element name: medium</b>					
Namespace	dcterms				
URI	<a href="http://purl.org/dc/terms/medium">http://purl.org/dc/terms/medium</a>				
Label	Medium				
Definition	The material or physical carrier of the resource. Refinement of <a href="#">&lt;dc:format&gt;</a> .				
Europeana note	This is the medium of the original analog or born digital object.				
Obligation & Occurrence	Optional (Minimum: 0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X				X (Format Line)
Example	<dcterms:medium>metal</dcterms:medium>				

<b>Element name: object</b>					
Namespace	europeana				
URI	<a href="http://www.europeana.eu/schemas/ese/object">http://www.europeana.eu/schemas/ese/object</a>				
Label	Object				
Definition	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 or sample. This element usually maps to <a href="#">&lt;europeana:isShownBy&gt;</a> .				
Europeana note	See also <a href="#">&lt;europeana:hasObject&gt;</a> .  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 ( <a href="http://www.imagemagick.org/">http://www.imagemagick.org/</a> ). 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.				

	<p>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.</p> <p>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.</p>				
Obligation & Occurrence	Optional (Minimum: 0, Maximum: 1) But mandatory if applicable (See above)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
Example	<europeana:object> <a href="http://upload.wikimedia.org/wikipedia/en/f/f3/Europeana_logo.png">http://upload.wikimedia.org/wikipedia/en/f/f3/Europeana_logo.png</a> </europeana:object>				

<b>Element name: provenance</b>					
Namespace	dcterms				
URI	<a href="http://purl.org/dc/terms/provenance">http://purl.org/dc/terms/provenance</a>				
Label	Provenance				
Definition	A statement of any changes in ownership and custody of the resource since its creation that are significant for its authenticity, integrity and interpretation. This may include a description of any changes successive custodians made to the resource.				
Europeana note	This relates to the ownership and custody of the original analog or born digital object.				
Obligation & Occurrence	Optional (Minimum: 0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X				X (More: Provenance Line)
Example	<dcterms:provenance>Donated by The National Library in 1965</dcterms:provenance>				

<b>Element name: provider</b>	
Namespace	europeana
URI	<a href="http://www.europeana.eu/schemas/ese/provider">http://www.europeana.eu/schemas/ese/provider</a>
Label	Europeana Provider
Definition	Name of the organization that deliver content to Europeana.
Europeana	Please note that content provider means the organization that sends the data

note	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> ) <europeana:provider> is the name of aggregator/project.				
Obligation & Occurrence	Mandatory (Minimum: 1, Maximum: 1)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X	X (Provider)			X (Provider Line)
Example	<europeana:provider>Het Geheugen van Nederland</europeana:provider>				

<b>Element name: publisher</b>					
Namespace	dc				
URI	<a href="http://purl.org/dc/terms/publisher">http://purl.org/dc/terms/publisher</a>				
Label	Publisher				
Definition	An entity responsible for making the resource available. Examples of a publisher include a person, an organisation and a service.				
Europeana note	The name of the publisher of the original analog or born digital object.				
Obligation & Occurrence	Optional (Minimum: 0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X				X (More: Publisher Line)
Example	<dc:publisher>Oxford University Press</dc:publisher>				

<b>Element name: references</b>					
Namespace	dcterms				
URI	<a href="http://purl.org/dc/terms/references">http://purl.org/dc/terms/references</a>				
Label	References				
Definition	A related resource that is referenced, cited, or otherwise pointed to by the described resource. Refinement of < <a href="#">dc:relation</a> >. See also < <a href="#">dcterms:isReferencedBy</a> >.				
Europeana note					
Obligation & Occurrence	Optional (Minimum: 0, Maximum: unbounded)				
Europeana search and display	Simple search	Facet	Timeline	Advanced search	Full search result display
	X				X

features					(More: Relations Line)
Example	<dcterms:references>Honderd jaar Noorse schilderkunst</dcterms:references>				

<b>Element name: relation</b>					
Namespace	dc				
URI	<a href="http://purl.org/dc/terms/relation">http://purl.org/dc/terms/relation</a>				
Label	Relation				
Definition	A related resource. The recommended best practice is to identify the resource using a formal identification scheme.				
Europeana note	This is information about resources that are related to the original analog or born digital object. Refined by: <dcterms:isVersionOf>; <dcterms:hasVersion>; <dcterms:isReplacedBy>; <dcterms:replaces>; <dcterms:isRequiredBy>; <dcterms:requires>; <dcterms:isPartOf>; <dcterms:hasPart>; <dcterms:isReferencedBy>; <dcterms:references>; <dcterms:isFormatOf>; <dcterms:hasFormat>; <dcterms:conformsTo>; <europeana:isShownBy>; <europeana:isShownAt>				
Obligation & Occurrence	Optional (Minimum: 0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X				X (More: Relations Line)
Example	<dc:relation> maps.crace.1/33</dc:relation> (This is the shelf mark for a map held in the British Library's Crace Collection).				

<b>Element name: replaces</b>					
Namespace	dcterms				
URI	<a href="http://purl.org/dc/terms/replaces">http://purl.org/dc/terms/replaces</a>				
Label	Replaces				
Definition	A related resource that is supplanted, displaced, or superseded by the described resource. Refinement of <dc:relation>. See also <dcterms:isReplacedBy>.				
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 (More: Relations Line)
Example	<dcterms:replaces>http://dublincore.org/about/2006/01/01/bylaws/</dcterms:replaces> where the resource described is a newer version				

	( <a href="http://dublincore.org/about/2009/01/05/bylaws/">http://dublincore.org/about/2009/01/05/bylaws/</a> )
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<b>Element name: requires</b>					
Namespace	dcterms				
URI	<a href="http://purl.org/dc/terms/requires">http://purl.org/dc/terms/requires</a>				
Label	Requires				
Definition	A related resource that is required by the described resource to support its function, delivery or coherence. Refinement of <a href="#">&lt;dc:relation&gt;</a> . See also <a href="#">&lt;dcterms:isRequiredBy&gt;</a> .				
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 (More: Relations Line)
Example	<dcterms:requires> <a href="http://ads.ahds.ac.uk/project/userinfo/css/oldbrowsers.css">http://ads.ahds.ac.uk/project/userinfo/css/oldbrowsers.css</a> </dcterms:requires> 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>				

<b>Element name: rights</b>					
Namespace	dc				
URI	<a href="http://purl.org/dc/terms/rights">http://purl.org/dc/terms/rights</a>				
Label	Rights				
Definition	Information about rights held in and over the resource.				
Europeana note	Information about intellectual Property Rights, access rights or license arrangements for the digital object (digitized or born digital).				
Obligation & Occurrence	Optional (Minimum: 0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X				X (Rights Line)
Example	<dc:rights>Creative Commons Attribution 3.0 License</dc:rights>				

<b>Element name: source</b>					
Namespace	dc				
URI	<a href="http://purl.org/dc/terms/source">http://purl.org/dc/terms/source</a>				
Label	Source				
Definition	A related resource from which the described resource is derived in whole or in part.				
Europeana	This may be used for several sources that are related to the object such as				

note	reference sources or the names of content holders. The name of the content provider should be inserted in <a href="#">&lt;europeana:provider&gt;</a>				
Obligation & Occurrence	Optional (Minimum: 0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X				X (Source)
Example	<dc:source>Security Magazine pp 3-12</dc:source> <dc:source>BAM portal</dc:source>				

<b>Element name: spatial</b>					
Namespace	dcterms				
URI	<a href="http://purl.org/dc/terms/spatial">http://purl.org/dc/terms/spatial</a>				
Label	Spatial Coverage				
Definition	Spatial characteristics of the resource. Refinement of <a href="#">&lt;dc:coverage&gt;</a> .				
Europeana note	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.				
Obligation & Occurrence	Optional (Minimum: 0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X			X Subject	X (More: Subject Line)
Example	<dcterms:spatial>Portugal</dcterms:spatial>				

<b>Element name: subject</b>					
Namespace	dc				
URI	<a href="http://purl.org/dc/terms/subject">http://purl.org/dc/terms/subject</a>				
Label	Subject				
Definition	The topic of the resource				
Europeana note	This is the subject of the original analog or born digital object,				
Obligation & Occurrence	Optional (Minimum: 0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X			X Subject	X (More: Subject Line)
Example	<dc:subject>submarine</dc:subject>				

<b>Element name: tableOfContents</b>					
Namespace	dcterms				
URI	<a href="http://purl.org/dc/terms/tableOfContents">http://purl.org/dc/terms/tableOfContents</a>				
Label	Table Of Contents				
Definition	A list of subunits of the resource. Refinement of <a href="#">&lt;dc:description&gt;</a> .				
Europeana note	A list of the units within the original analog or born digital resource object.				
Obligation & Occurrence	Optional (Minimum: 0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X				
Example	<dcterms:tableOfContents>Chapter 1. Introduction, Chapter 2. History</dcterms:tableOfContents>				

<b>Element name: temporal</b>					
Namespace	dcterms				
URI	<a href="http://purl.org/dc/terms/temporal">http://purl.org/dc/terms/temporal</a>				
Label	Temporal Coverage				
Definition	Temporal characteristics of the resource. Refinement of <a href="#">&lt;dc:coverage&gt;</a>				
Europeana note	The temporal characteristics of the original analog or born digital object. This may be a period, date or date range.				
Obligation & Occurrence	Optional (Minimum: 0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X			X Subject	X (More: Subject)
Example	<dcterms:temporal>Roman</dcterms:temporal>				

<b>Element name: title</b>	
Namespace	dc
URI	<a href="http://purl.org/dc/terms/title">http://purl.org/dc/terms/title</a>
Label	Title
Definition	A name given to the resource. Typically, a Title will be a name by which the resource is formally known. Refined by: <a href="#">&lt;dcterms:alternative&gt;</a>
Europeana note	The title of the original analogue or born digital object.
Obligation &	Optional(Minimum: 0, Maximum: unbounded)

Occurrence					
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X			X Title	X (Title)
Example	<dc:title>Taal vitaal</dc:title>				

<b>Element name: type</b>					
Namespace	dc				
URI	<a href="http://purl.org/dc/terms/type">http://purl.org/dc/terms/type</a>				
Label	Type				
Definition	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> ).				
Europeana note	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 <dc:type> in their metadata with four material types used in Europeana: TEXT, IMAGE, SOUND and VIDEO. See < <a href="#">europeana:type</a> > below.				
Obligation & Occurrence	Optional (Minimum:0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X				X (More:Type)
Example	<dc:type>painting</dc:type> <dc:type>photograph</dc:type> <dc:type>coin</dc:type>				

<b>Element name: type</b>					
Namespace	europeana				
URI	<a href="http://www.europeana.eu/schemas/ese/type">http://www.europeana.eu/schemas/ese/type</a>				
Label	Europeana Type				
Definition	The Europeana material type of the resource.				
Europeana note	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 < <a href="#">europeana:object</a> >).				

	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 <a href="#">&lt;dc:type&gt;</a> .				
Obligation & Occurrence	Mandatory (Minimum:1, Maximum: 1)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X	X Type facet		X Type	X (More: Type Line)
Example	<europeana:type>TEXT</europeana:type> (upper-case) <europeana:type> IMAGE</europeana:type> (upper-case) <europeana:type>SOUND</europeana:type> (upper-case) <europeana:type>VIDEO</europeana:type> (upper-case)				

<b>Element name: unstored</b>					
Namespace	europeana				
URI	<a href="http://www.europeana.eu/schemas/ese/unstored">http://www.europeana.eu/schemas/ese/unstored</a>				
Label	Unstored				
Definition	This is a container element which includes all relevant information that otherwise cannot be mapped to another element in the ESE.				
Europeana note	The <europeana:unstored> 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”.				
Obligation & Occurrence	Optional (Minimum: 0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X				
Example	<europeana:unstored> National Gallery, London</europeana:unstored> (Where the National Gallery is the current location of the object; there is no other element suitable for this information).				

<b>Element name: uri</b>	
Namespace	europeana
URI	<a href="http://www.europeana.eu/schemas/ese/uri">http://www.europeana.eu/schemas/ese/uri</a>
Label	Europeana URI
Definition	An unambiguous URI to the resource within Europeana’s context.
Europeana	This is a record identifier for the object in the Europeana system. It is created

note	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.				
Obligation & Occurrence	Mandatory (Minimum: 1, Maximum: 1)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
Example	<europeana:uri> http://www.europeana.eu/resolve/record/00401/A7F7E0E6600 </europeana:uri>				

<b>Element name: userTag</b>					
Namespace	europeana				
URI	<a href="http://www.europeana.eu/schemas/ese/userTag">http://www.europeana.eu/schemas/ese/userTag</a>				
Label	User Tag				
Definition	This is a tag created by a user through the Europeana interface.				
Europeana note	These are tags created by registered users.				
Obligation & Occurrence	Optional (Minimum:0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X				X (User Tags Display)
Example	<europeana:userTag>My favorite food!</europeana:userTag>				

<b>Element name: year</b>					
Namespace	europeana				
URI	<a href="http://www.europeana.eu/schemas/ese/year">http://www.europeana.eu/schemas/ese/year</a>				
Label	Europeana Year				
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	Simple search	Facet	Timeline	Advanced search	Full search result display
	X	X Date facet	X	X Date	X
Example	<europeana:year>1523</europeana:year>				

## 5. Document history

<b>Version</b>	<b>Author</b>	<b>Updated</b>	<b>Comments</b>
V0.5	Go Sugimoto	2008-07-04	Draft creation
V2.0	Catherine Lupovici	2008-08-28	Major change to include new elements
V2.5	Go Sugimoto	2008-09-10	Release to enable Europeana community to undertake mappings
V3.0	Go Sugimoto	2008-12-04	Major change to include new elements
V3.1	Go Sugimoto and Kate Fernie	2009-02-25	Public release
V3.2	Go Sugimoto and Catherine Lupovici	2009-08-07	2 <sup>nd</sup> 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.
V3.2.1	Julie Verleyen	2009-11-06	Change of the URIs of the Europeana elements belonging to the Europeana namespace from <a href="http://www.europeana.eu/ese/terms/">http://www.europeana.eu/ese/terms/</a> to <a href="http://www.europeana.eu/schemas/ese/">http://www.europeana.eu/schemas/ese/</a> . This is to be consistent with the XML Schema.