

Specification for the Europeana Semantic Elements

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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	title	alternative
DC	creator	
DC	subject	
DC	description	tableOfContents
DC	publisher	
DC	contributor	
DC	date	created ; issued
DC	type	
DC	format	extent ; medium
DC	identifier	
DC	source	
DC	language	
DC	relation	isVersionOf ; hasVersion ; isReplacedBy ; replaces ; isRequiredBy ; requires ; isPartOf ; hasPart ; isReferencedBy ; references ; isFormatOf ; hasFormat ; conformsTo
Europeana		isShownBy ; isShownAt
DC	coverage	spatial ; temporal
DC	rights	
DC terms	provenance	
Europeana	userTag	
Europeana	unstored	
Europeana	object	
Europeana	language	
Europeana	provider	
Europeana	type	
Europeana	uri	
Europeana	year	
Europeana	hasObject	
Europeana	country	

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

XML attributes should be preserved in metadata as far as possible as these may be used to trigger functions in Europeana in future. We highly recommend that xml:lang is used wherever it is applicable.

XML:lang indicates the language of the metadata and we recommend inserting this attribute in as many elements as possible. It will enable Europeana to add functionality that distinguishes between the language of the metadata (xml:lang), the language of the digital object (dc:language) and the language of the content provider (Europeana:language).

XML:lang should use IETF RFC 4646 (<http://www.rfc-archive.org/getrfc.php?rfc=4646>) tags to identify the language.

Example

```
<dc:subject xml:lang="en">weather</dc:subject>
<dc:subject xml:lang="de">wetter</dc:subject>
```

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

Each element in the ESE is described with the following attributes:

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/ .	
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:	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.	

Europeana search and display features	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.

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	http://purl.org/dc/terms/alternative				
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 <dc:title>				
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. Use the xml:lang attribute to indicate the language of the alternate 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 xml:lang="es">Ocho semanas</dcterms:alternative> (When <dc:title xml="en">Eight weeks</dc:title>)				

Element name: conformsTo					
Namespace	dcterms				
URI	http://purl.org/dc/terms/conformsTo				
Label	Conforms To				
Definition	An established standard to which the described resource conforms. Refinement of <dc:relation> .				
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).				

Element name: contributor	
Namespace	dc

URI	http://purl.org/dc/terms/contributor				
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 xml:lang="en">Maria Callas</dc:contributor>				

Element name: country					
Namespace	europeana				
URI	http://europeana.eu/terms/country				
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; content providers do not need to provide this information separately. Country names should conform to ISO 3166. (http://www.iso.org/iso/english_country_names_and_code_elements).				
Obligation & Occurrence	Mandatory for the Europeana system (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>				

Element name: coverage					
Namespace	dc				
URI	http://purl.org/dc/terms/coverage				
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 <dcterms:spatial> and <dcterms:temporal>				
Europeana note	Coverage is the unqualified spatial or temporal coverage of the original analog or born digital object. Use of the more specific <dcterms:spatial> and <dcterms:temporal> 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>				
Element name: created					
Namespace	dcterms				
URI	http://purl.org/dc/terms/created				
Label	Date Created				
Definition	Date of creation of the resource. Refinement of <dc:date>				
Europeana note	This is the date when the original analog or born digital object was created. The creation date is used to generate the <europeana:year> for use in the timeline where appropriate.				
Obligation & Occurrence	Recommended (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 xml:lang="en">Iron Age</dcterms:created>				

Element name: creator					
Namespace	dc				
URI	http://purl.org/dc/terms/creator				
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	Recommended (Minimum: 0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X			X Creator	X (Creator Line)
Example	<dc:creator xml:lang="en">Shakespeare, William</dc:creator>				
Element name: date					
Namespace	dc				
URI	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	Recommended (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 xml:lang="en">17 th century</dc:date> (For example the date when an object was repaired).				

Element name: description					
Namespace	dc				
URI	http://purl.org/dc/terms/description				
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	Recommended (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 xml:lang="en">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	http://purl.org/dc/terms/extent				
Label	Extent				
Definition	The size or duration of the resource. Refinement of <dc:format> .				
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 xml:lang="en">34 minutes</dcterms:extent> (the length of an audio file).				

Element name: format					
Namespace	dc				
URI	http://purl.org/dc/terms/format				
Label	Format				
Definition	The file format, physical medium or dimensions of the resource. Refined by: <dcterms:extent> and <dcterms:medium>				
Europeana note	<p>The unqualified element includes file format, physical medium or dimensions of the original and/or digital object.</p> <p>Use this element for the file format of the digital object or born digital originals. Internet Media Types [MIME] are highly recommended (http://www.iana.org/assignments/media-types/).</p> <p>Use of the more specific elements <dcterms:extent> (dimensions) and <dcterms:medium> (physical medium) is preferred where appropriate.</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 (Format Line)
Example	<dc:format>image/jpeg</dc:format>				

Element name: hasFormat					
Namespace	dcterms				
URI	http://purl.org/dc/terms/hasFormat				
Label	Has Format				
Definition	A related resource that is substantially the same as the pre-existing described resource, but in another format. Refinement of <dc:relation> . See also <dcterms:isFormatOf> .				
Europeana note	Use <dcterms:hasVersion> 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><dcterms:hasFormat>http://upload.wikimedia.org/wikipedia/en/f/f3/Europeana_logo.png </dcterms:hasFormat></code> where the resource being described is a tiff image file.				

Element name: hasObject					
Namespace	europeana				
URI	http://europeana.eu/terms/hasObject				
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 <europeana:object> .				
Europeana note	This is for internal use only and is added by the Europeana office. Europeana supports Image Magick compliant formats such as PDF, JPEG, and TIFF (http://www.imagemagick.org/).				
Obligation & Occurrence	Mandatory for the Europeana system (Minimum: 1, Maximum: 1)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
Example	<code><europeana:hasObject>True</europeana:hasObject></code>				

Element name: hasPart					
Namespace	dcterms				
URI	http://purl.org/dc/terms/hasPart				
Label	Has Part				
Definition	A related resource that is included either physically or logically in the described resource. Refinement of <dc:relation> . See also <dcterms:isPartOf> .				
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	<code><dcterms:hasPart xml:lang="en"> Maps.Crace.1 </dcterms:hasPart></code> The identifier for a map which is part of the Crace Collection of maps.				

Element name: hasVersion					
Namespace	dcterms				
URI	http://purl.org/dc/terms/hasVersion				
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 <dc:relation> . See also <dcterms:isVersionOf> .				
Europeana note	Use <dcterms:hasFormat> 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	<code><dcterms:hasVersion xml:lang="en">The Sorcerer's Apprentice</dcterms:hasVersion></code> (translation by Edwin Zeydel, 1955). In this example the 1955 translation is a version of the described resource.				

Element name: identifier					
Namespace	dc				
URI	http://purl.org/dc/terms/identifier				
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 <europeana:isShownBy> for the URL of the digital object. If the URL is already included in the <dc:identifier> element in the existing metadata, keep it and repeat the information in <europeana:isShownBy> .				
Obligation & Occurrence	Recommended (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	<pre><dc:identifier>urn :isbn :9780387097466</dc:identifier> <dc:identifier> http://upload.wikimedia.org/wikipedia/en/f/f3/ Europeana_logo.png</dc:identifier></pre>				

Element name: isFormatOf					
Namespace	dcterms				
URI	http://purl.org/dc/terms/isFormatOf				
Label	Is Format Of				
Definition	A related resource that is substantially the same as the described resource, but in another format. Refinement of <dc:relation> . See also <dcterms:hasFormat> .				
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	<pre><dcterms:isFormatOf> Europeana_logo.tiff</dcterms:isFormatOf> where the resource being described is a png image file.</pre>				

Element name: isPartOf					
Namespace	dcterms				
URI	http://purl.org/dc/terms/isPartOf				
Label	Is Part Of				
Definition	A related resource in which the described resource is physically or logically included. Refinement of <dc:relation> . See also <dcterms:hasPart> .				
Europeana note	Use for the name of the collection which the digital object is part of.				
Obligation & Occurrence	Recommended (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 xml:lang="en">Crace Collection of Maps of London</dcterms:isPartOf>				

Element name: isReferencedBy					
Namespace	dcterms				
URI	http://purl.org/dc/terms/isReferencedBy				
Label	Is Referenced By				
Definition	A related resource that references, cites, or otherwise points to the described resource. Refinement of <dc:relation> . See also <dcterms:references> .				
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 xml:lang="en">Till, Nicholas (1994) <i>Mozart and the Enlightenment: Truth, Virtue and Beauty in Mozart's Operas</i> , W. W. Norton & Company </dcterms:isReferencedBy>				

Element name: isReplacedBy					
Namespace	dcterms				
URI	http://purl.org/dc/terms/isReplacedBy				
Label	Is Replaced By				
Definition	A related resource that supplants, displaces, or supersedes the described resource. Refinement of <dc:relation> . See also <dcterms:replaces> .				
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	<code><dcterms:isReplacedBy>http://dublincore.org/about/2009/01/05/bylaws/</dcterms:isReplacedBy></code> where the resource described is an older version (http://dublincore.org/about/2006/01/01/bylaws/)				

Element name: isRequiredBy					
Namespace	dcterms				
URI	http://purl.org/dc/terms/isRequiredBy				
Label	Is Required By				
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 (More: Relation Line)
Example	<code><isRequiredBy>http://www.myslides.com/myshow.ppt</isRequiredBy></code> where the image being described is required for an online slideshow.				

Element name: isShownAt					
Namespace	europeana				
URI	http://europeana.eu/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 <code><europeana:isShownAt></code> if you display the digital object with extra information (such as header, banner etc). Use of this element is highly recommended. If this is not possible, the Europeana office will map a candidate field to this element (e.g. <dc:identifier>).				
Obligation & Occurrence	Either isShownAt OR isShownBy is Mandatory for the Europeana system (Minimum: 0, Maximum: 1)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
					X
Example	<code><europeana:isShownAt> http://www.photo.rmn.fr/cf/htm/CPICZ.aspx?E=2C6NU0VFLVNY </europeana:isShownAt></code>				

Element name: isShownBy					
Namespace	europeana				
URI	http://europeana.eu/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. Refinement of < dc:relation >. See also < europeana:isShownAt >.				
Europeana note	<p>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.</p> <p>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).</p> <p>Use of this element is highly recommended. If this is not possible, the Europeana office will map a candidate field to this element (e.g. <dc:identifier>).</p>				
Obligation & Occurrence	Either this isShownBy OR isShownAt is Mandatory for the Europeana system (Minimum: 0, Maximum: 1)				
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 >				

Element name: issued					
Namespace	dcterms				
URI	http://purl.org/dc/terms/issued				
Label	Date Issued				
Definition	Date of formal issuance (e.g., publication) of the resource. Refinement of <dc:date> .				
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	Simple search	Facet	Timeline	Advanced search	Full search result display
	X				X (More: Date Line)
Example	<dcterms:issued>1993</dcterms:issued>				

Element name: isVersionOf					
Namespace	dcterms				
URI	http://purl.org/dc/terms/isVersionOf				
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 <dc:relation> . See also <dcterms:hasVersion>				
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>				

Element name: language					
Namespace	dc				
URI	http://purl.org/dc/terms/language				
Label	Language				
Definition	A language of the resource.				
Comment	The recommended best practice is to use a controlled vocabulary such as 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	<p>Use this element for the languages associated with the digital object. If the content is in more than one language, the element may be repeated. For example, the various languages spoken on video or in sound files. Use for 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 should be described in xml:lang attribute. For example, <dc:title xml:lang="en">After dark</dc:title>.</p> <p>See <europeana:language>.</p>				
Obligation & Occurrence	Recommended (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>				

Element name: language					
Namespace	europeana				
URI	http://europeana.eu/terms/language				
Label	Europeana Language				
Definition	A language assigned to the resource with reference to the content provider.				
Europeana note	<p>For the Europeana prototype, <europeana:language> is the official language of the country where a content provider is located. It is derived automatically from the Europeana content providers' authority file. Content providers do not need to provide this information in their metadata.</p> <p>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" or multilingual (ISO 639-2).</p>				
Obligation & Occurrence	Mandatory for the Europeana system (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>				

Element name: medium					
Namespace	dcterms				
URI	http://purl.org/dc/terms/medium				
Label	Medium				
Definition	The material or physical carrier of the resource. Refinement of <dc:format>.				
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 xml:lang="en">metal</dcterms:medium>				

Element name: object					
Namespace	europeana				
URI	http://europeana.eu/terms/object				
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 <europeana:isShownBy>.				
Europeana note	<p>For internal use only. See also <europeana:hasObject>.</p> <p>Thumbnail images are generated for display in Europeana from digital objects whose format (such as PDF, JPEG, and TIFF) is compliant with the Image Magik software which is used (http://www.imagemagick.org/). Image Magik 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> <p>Where no thumbnail is available, a default thumbnail for the type of object will be displayed.</p> <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>				
Obligation & Occurrence	This mandatory element will be added in the Europeana office (Minimum: 0, Maximum: 1)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
Example	<europeana:object>http://upload.wikimedia.org/wikipedia/en/f/f3/Europeana_Logo.png</europeana:object>				

Element name: provenance					
Namespace	dcterms				
URI	http://purl.org/dc/terms/provenance				
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 xml:lang="en">Donated by The National Library in 1965</dcterms:provenance>				

Element name: provider					
Namespace	europeana				
URI	http://europeana.eu/terms/provider				
Label	Europeana Provider				
Definition	Name of the organization that holds the digital object (digitized or born digital).				
Europeana note	This is for internal use only. The values in this element are controlled by Europeana's authority file.				
	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 aggregators (e.g. BAM) <europeana:provider> is the name of aggregator.				
Obligation & Occurrence	This mandatory element will be added in the Europeana office (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 xml:lang="nl">Het Geheugen van Nederland</europeana:provider>				

Element name: publisher					
Namespace	dc				
URI	http://purl.org/dc/terms/publisher				
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 xml:lang="en">Oxford University Press</dc:publisher>				

Element name: references					
Namespace	dcterms				
URI	http://purl.org/dc/terms/references				
Label	References				
Definition	A related resource that is referenced, cited, or otherwise pointed to by the described resource. Refinement of < dc:relation >. See also < dcterms:isReferencedBy >.				
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:references xml:lang="nl">Honderd jaar Noorse schilderkunst</dcterms:references>				

Element name: relation					
Namespace	dc				
URI	http://purl.org/dc/terms/relation				
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	<code><dc:relation xml:lang="en"> maps.crace.1/33</dc:relation></code> (This is the shelf mark for a map held in the British Library's Crace Collection).				

Element name: replaces					
Namespace	dcterms				
URI	http://purl.org/dc/terms/replaces				
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	<code><dcterms:replaces>http://dublincore.org/about/2006/01/01/bylaws/</dcterms:replaces></code> where the resource described is a newer version (http://dublincore.org/about/2009/01/05/bylaws/)				

Element name: requires					
Namespace	dcterms				
URI	http://purl.org/dc/terms/requires				
Label	Requires				
Definition	A related resource that is required by the described resource to support its function, delivery or coherence. Refinement of <dc:relation> . See also <dcterms:isRequiredBy> .				
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	<code><dcterms:requires>http://ads.ahds.ac.uk/project/userinfo/css/oldbrowsers.css</dcterms:requires></code> where the resource described is a HTML file at http://ads.ahds.ac.uk/project/userinfo/digitalTextArchiving.html				

Element name: rights					
Namespace	dc				
URI	http://purl.org/dc/terms/rights				
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	Recommended (Minimum: 0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X				X (Rights Line)
Example	<code><dc:rights xml:lang="en">Creative Commons Attribution 3.0 License</dc:rights></code>				

Element name: source					
Namespace	dc				
URI	http://purl.org/dc/terms/source				
Label	Source				
Definition	A related resource from which the described resource is derived in whole or in part.				
Europeana note	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 will be inserted in <code><europeana:provider></code> by the Europeana office.				
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	<pre><dc:source xml:lang="en">Security Magazine pp 3-12</dc:source> <dc:source xml:lang="en">BAM portal</dc:source></pre>				

Element name: spatial					
Namespace	dcterms				
URI	http://purl.org/dc/terms/spatial				
Label	Spatial Coverage				
Definition	Spatial characteristics of the resource. Refinement of <code><dc:coverage></code> .				
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	Recommended (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	<code><dcterms:spatial xml:lang="en">Portugal</dcterms:spatial></code>				

Element name: subject					
Namespace	dc				
URI	http://purl.org/dc/terms/subject				
Label	Subject				
Definition	The topic of the resource				
Europeana note	This is the subject of the original analog or born digital object,				
Obligation & Occurrence	Recommended (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 xml:lang="en">submarine</dc:subject>				

Element name: tableOfContents					
Namespace	dcterms				
URI	http://purl.org/dc/terms/tableOfContents				
Label	Table Of Contents				
Definition	A list of subunits of the resource. Refinement of <dc:description> .				
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 xml:lang="en">Chapter 1. Introduction, Chapter 2. History </dcterms:tableOfContents>				

Element name: temporal					
Namespace	dcterms				
URI	http://purl.org/dc/terms/temporal				
Label	Temporal Coverage				
Definition	Temporal characteristics of the resource. Refinement of <dc:coverage>				
Europeana note	The temporal characteristics of the original analog or born digital object. This may be a period, date or date range.				
Obligation & Occurrence	Recommended (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 xml:lang="en">Roman</dcterms:temporal>				

Element name: title					
Namespace	dc				
URI	http://purl.org/dc/terms/title				
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: <dcterms:alternative>				
Europeana note	The title of the original analog or born digital object.				
Obligation & Occurrence	Recommended (Minimum: 0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X			X Title	X (Title)
Example	<dc:title xml:lang="nl">Taal vitaal</dc:title>				

Element name: type					
Namespace	dc				
URI	http://purl.org/dc/terms/type				
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 http://dublincore.org/documents/dcmi-type-vocabulary/).				
Europeana note	<p>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.</p> <p>Content providers are recommended to map the values found in <dc:type> in their metadata with four general types used in Europeana: TEXT, IMAGE, SOUND and VIDEO. See <europeana:type> below.</p>				
Obligation & Occurrence	Recommended (Minimum:0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X				X (More:Type)
Example	<pre><dc:type xml:lang="en">painting</dc:type> <dc:type xml:lang="en">photograph</dc:type> <dc:type xml:lang="en">coin</dc:type></pre>				

Element name: type					
Namespace	europeana				
URI	http://europeana.eu/terms/type				
Label	Europeana Type				
Definition	The general type of the resource.				
Europeana note	<p>This element is used for the four general types supported by Europeana: TEXT, IMAGE, SOUND and VIDEO. This information is used in Europeana interface and in searches. Search results are categorized by the four types to helps users to find what they are looking for. An icon for the general type of object is displayed with each search result. A default thumbnail for the general type of object is used in the short or full record display when a thumbnail is not otherwise available (see europeana:object).</p> <p>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 dc:type.</p>				
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	<pre><europeana:type xml:lang="en">TEXT</europeana:type> (upper-case) <europeana:type xml:lang="en"> IMAGE</europeana:type> (upper-case) <europeana:type xml:lang="en">SOUND</europeana:type> (upper-case) <europeana:type xml:lang="en">VIDEO</europeana:type> (upper-case)</pre>				

Element name: unstored					
Namespace	europeana				
URI	http://europeana.eu/terms/unstored				
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	<p>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.</p> <p>This element is not available in “full search result display”.</p>				
Obligation & Occurrence	Optional (Minimum: 0, Maximum: 1)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X				
Example	<europeana:unstored xml:lang="en"> 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).				

Element name: uri					
Namespace	europeana				
URI	http://europeana.eu/terms/uri				
Label	Europeana URI				
Definition	An unambiguous URI to the resource within Europeana’s context.				
Europeana note	<p>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.</p> <p>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.</p>				
Obligation & Occurrence	This mandatory element will be added in the Europeana office (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>				

Element name: userTag					
Namespace	europeana				
URI	http://europeana.eu/terms/userTag				
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. Not needed for content providers.				
Obligation & Occurrence	Optional.				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X				X (User Tags Display)
Example	<europeana:userTag xml:lang="en">My favorite food!</europeana:userTag>				

Element name: year					
Namespace	europeana				
URI	http://europeana.eu/terms/year				
Label	Europeana Year				
Definition	A point or period 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. The prototype Europeana Portal does not currently support dates before the year 0, for example 250 BC, 600 BCE or 10,000 BP. However, it is within the scope of the portal to include such dates in future.				
Obligation & Occurrence	Highly recommended (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

Version	Author	Updated	Comments
V0.5	Go Sugimoto	04/07/2008	Draft creation
V2.0	Catherine Lupovici	28/08/2008	Major change to include new elements
V2.5	Go Sugimoto	10/09/2008	Release to enable Europeana community to undertake mappings
V3.0	Go Sugimoto	04/12/2008	Major change to include new elements
V3.1	Go Sugimoto and Kate Fernie	25/02/2009	Public release