



Europeana Semantic Elements Specification

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Europeana v1.0

This specification is the normative specification for ESE metadata.



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1. Foreword

This document provides the specification of the Europeana Semantic Elements (ESE), including their properties, XML syntax, usage in the Europeana portal, obligation, occurrence and examples. This specification, V3.3, updates V3.2.2 that was used in the prototype portal to the element set used in the Rhine release of the portal in July 2010 at <http://www.europeana.eu/>.

This specification is the normative specification for ESE metadata. The XML schema checks for basic conformance to this specification. Note however that it is an extension of the DC terms schema and will therefore accept all DC terms - even those that are not importable into the portal. Please include in your metadata only the elements defined in the specification.

It is recommended that this document is read in conjunction with the Mapping and Normalisation Guidelines that can be found at <http://version1.europeana.eu/web/guest/technical-requirements/>, where additional guidance is provided.

1.1 Significant changes from V3.2.2

Addition of:

- `europeana:dataProvider` element for the name of the content provider
- `europeana:rights` element for the licence applied to the objects
- recommendation about `xml:lang` attributes

Display changes for:

- `dc:coverage`, `dcterms:spatial`, `dcterms:temporal`

2. Europeana Semantic Elements (ESE)

2.1 List of ESE elements

The Europeana Semantic Elements (the ESE) listed below, consist of the 15 original Dublin Core (DC) metadata elements¹, a subset of the DC terms² and a set of thirteen elements which were created to meet Europeana's needs.

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	country	
Europeana	dataProvider	
Europeana	hasObject	
Europeana	language *	
Europeana	object	
Europeana	provider	
Europeana	rights *	
Europeana	type *	
Europeana	unstored	
Europeana	uri	
Europeana	userTag	
Europeana	year	

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

¹<http://dublincore.org/documents/dces/>

²<http://dublincore.org/documents/dcmi-terms/>

2.2 XML attributes

The ingestion process currently ignores the `xml:lang` attribute although it is present in data from some providers. It is anticipated that functionality will soon be in place to take advantage of these attributes in the display of metadata values, in particular where they are provided in one or more languages. Providers are encouraged to include them in all appropriate metadata elements. An example has been included in the [dc:title](#) element.

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

Each element in the ESE is described as follows:

Element Name:	The formal name for the element.	
Namespace:	The namespace or the source of the element: dc , dcterms or europeana . More information on the dc metadata terms can be found at http://dublincore.org/documents/dcmi-terms/ .	
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 value 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.

Note: “Type”, “Language” and “Rights” elements occur in both the **dc** and the **europeana** namespaces; these elements have different uses. In the tables below, you will find them 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.				
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	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/elements/1.1/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			X (Creator)	X (Creator Line)
Example	<dc:contributor>Maria Callas</dc:contributor>				

Element name: country					
Namespace	europeana				
URI	http://www.europeana.eu/schemas/ese/country				
Label	Country				
Definition	This is the name of the country in which the 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 Providers authority file. Europeana provides the value for this element Country names should conform to ISO 3166. (http://www.iso.org/iso/english_country_names_and_code_elements).				
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 Line)
Example	<europeana:country>AL</europeana:country>				

Element name: coverage	
Namespace	dc
URI	http://purl.org/dc/elements/1.1/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: Coverage 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. See Guidelines for date format recommendations				
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>				

Element name: creator					
Namespace	dc				
URI	http://purl.org/dc/elements/1.1/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	Optional (Minimum: 0, Maximum: unbounded)				
Europeana	Simple	Facet	Timeline	Advanced	Full search result

search and display features	search			search	display
	X			X (Creator)	X (Creator Line)
Example	<dc:creator>Shakespeare, William</dc:creator>				
Element name: dataProvider					
Namespace	europeana				
URI	http://www.europeana.eu/schemas/ese/dataProvider				
Label	Europeana Data Provider				
Definition	The name or identifier of the organisation that contributes data to Europeana				
Europeana note	<p>This element is specifically included to allow the name of the organisation who supplies data to Europeana indirectly via an aggregator to be recorded and displayed in the portal. Aggregator names are recorded in europeana:provider.</p> <p>If an organisation provides data directly to Europeana (i.e. not via an aggregator) the values in <code>europeana:dataProvider</code> and europeana:provider will be the same.</p> <p>Organisation names should be provided as an ordinary text string until the Europeana Authority File for Organisations has been established. At that point providers will be able to send an identifier from the file instead of a text string.</p> <p>The name provided should be the preferred form of the name in the language the provider chooses as the default language for display in the portal. Countries with multiple languages may prefer to concatenate the name in more than one language (See the example below.)</p> <p>Note: Europeana Data Provider is not necessarily the institution where the physical object is located.</p>				
Obligation & Occurrence	Recommended (Minimum: 0, Maximum: 1)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X			X (Data Provider)	X (Data Provider Line)
Example	<europeana:dataProvider>Lille, Palais des Beaux-Arts</europeana:dataProvider> <europeana:dataProvider>Koninklijke Bibliotheek van België / Bibliothèque royale de Belgique</europeana:dataProvider>				
Element name: date					
Namespace	dc				
URI	http://purl.org/dc/elements/1.1/date				

Label	Date				
Definition	A point or period of time associated with an event in the lifecycle of the resource. Refined by: dcterms: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. <code>dc:date</code> will be used to generate europeana:year for the timeline where appropriate. See Guidelines for date format recommendations				
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 th century</dc:date> (For example the date when an object was repaired).				

Element name: description					
Namespace	dc				
URI	http://purl.org/dc/elements/1.1/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	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	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>34 minutes</dcterms:extent> (the length of an audio file).				

Element name: format					
Namespace	dc				
URI	http://purl.org/dc/elements/1.1/format				
Label	Format				
Definition	The file format, physical medium or dimensions of the resource. Refined by: dcterms:extent and dcterms:medium				
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 (http://www.iana.org/assignments/media-types/). Use of the more specific elements dcterms:extent (dimensions) and dcterms:medium (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	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.jpg</dcterms:hasFormat></code> where the resource being described is a tiff image file.				

Element name: hasObject					
Namespace	europeana				
URI	http://www.europeana.eu/schemas/ese/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	Europeana provides the value for this element.				
Obligation & Occurrence	Mandatory (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	<dcterms:hasPart>Maps.added.22231</dcterms:hasPart> The identifier for another map which is part of this one.
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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	<dcterms:hasVersion>The Sorcerer's Apprentice</dcterms:hasVersion> For the translation by Edwin Zeydel (1955) of Goethe's poem Der Zauberlehrling, where the metadata record is describing the original.				

Element name: identifier					
Namespace	dc				
URI	http://purl.org/dc/elements/1.1/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	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>				

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	<dcterms:isFormatOf>Europeana_logo.tiff</dcterms:isFormatOf> where the resource being described is a png image file.				

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	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>				

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

Element name: isRequiredBy	
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	<dcterms:isRequiredBy>http://www.myslides.com/myslideshow.ppt</dcterms:isRequiredBy> where the image being described is required for an online slideshow.				

Element name: isShownAt					
Namespace	europeana				
URI	http://www.europeana.eu/schemas/ese/isShownAt				
Label	Is Shown At				
Definition	An unambiguous URL reference to the digital object on the 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 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).				
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 (view in Original Context)
Example	<europeana:isShownAt>http://www.photo.rmn.fr/cf/htm/CPICZ.aspx?E=2C6NU0VFLVNY</europeana:isShownAt>				

Element name: isShownBy					
Namespace	europeana				
URI	http://www.europeana.eu/schemas/ese/isShownBy				
Label	Is Shown By				
Definition	An unambiguous URL reference to the digital object on the provider's web site in the best available resolution/quality. Refinement of dc:relation . See also europeana:isShownAt .				
Europeana note	This is a URL that will be active in the Europeana interface. It will lead users to the digital object on the 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 <code>europeana:isShownBy</code> . 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>				

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. See Guidelines for date format recommendations.				
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	<p>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.</p> <p>Refinement of dc:relation. See also dcterms:hasVersion.</p>				
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/elements/1.1/language				
Label	Language				
Definition	A language of the resource.				
Comment	<p>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.</p>				
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, <dc:title xml:lang="en">After dark</dc:title>.</p> <p>See europeana:language.</p>				
Obligation & Occurrence	Optional (Minimum: 0, Maximum: unbounded)				
Europeana	Simple	Facet	Timeline	Advanced	Full search result display

search and display features	search			search	
	X				X (Language Line)
Example	<dc:language>it</dc:language>				

Element name: language					
Namespace	europeana				
URI	http://www.europeana.eu/ese/terms/language				
Label	Europeana Language				
Definition	A language assigned to the resource with reference to the Provider.				
Europeana note	<p>For the Europeana prototype, <code>europeana:language</code> is the official language of the country where the Provider is located. Europeana provides the value for this element.</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” for multilingual (ISO 639-2).</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 (Language)			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>metal</dcterms:medium>				

Element name: object					
Namespace	europeana				
URI	http://www.europeana.eu/schemas/ese/object				
Label	Object				
Definition	<p>The URL of a thumbnail representing the digital object or, if there is no such thumbnail, the URL of the digital object in the best resolution available on the web site of the data provider from which a thumbnail could be generated. This will often be the same URL as given in europeana:isShownBy.</p>				
Europeana note	<p>Note that there is no requirement to provide an image in any other format than those readily available on the providers website.</p> <p>Europeana can generate thumbnail images from several different image formats using the ImageMagick software. ImageMagick needs to have direct access to the image to create a thumbnail so it cannot make a thumbnail out of an image embedded in an HTML page. Further information about the thumbnails can be found in the document here.</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. Please ensure that the first page is suitable for this purpose e.g. it does not contain extraneous information from the digitisation process. If a record contains several image files, the first file that appears is used for the thumbnail.</p> <p>If there is no thumbnail available and it is not possible to generate one, a default thumbnail for the type of object will be displayed.</p> <p>See also europeana:hasObject.</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	<code><europeana:object></code> http://upload.wikimedia.org/wikipedia/en/f/f3/Europeana_Logo.png <code></europeana:object ></code>				

Element name: provenance	
Namespace	dcterms
URI	http://purl.org/dc/terms/provenance
Label	Provenance
Definition	<p>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</p>

	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>				

Element name: provider					
Namespace	europeana				
URI	http://www.europeana.eu/schemas/ese/provider				
Label	Europeana Provider				
Definition	Name of the organization that delivers data to Europeana.				
Europeana note	<p>The <code>europeana:provider</code> is the organization that sends the data to Europeana, and this is not necessarily the institution that holds or owns the original or digitised object. Where data is being supplied by an aggregator or project <code>europeana:provider</code> is the name of aggregator/project. The name of the content holder can be recorded in <code>dc:source</code>. If the content holder supplies data directly to Europeana then the name should also appear in this element.</p> <p>The name should be in the original language(s).</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 (Provider)			X (Provider Line)
Example	<europeana:provider>Het Geheugen van Nederland</europeana:provider>				

Element name: publisher	
Namespace	dc
URI	http://purl.org/dc/elements/1.1/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 &	Optional (Minimum: 0, Maximum: unbounded)

Occurrence					
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>				

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>Honderd jaar Noorse schilderkunst</dcterms:references>				

Element name: relation					
Namespace	dc				
URI	http://purl.org/dc/elements/1.1/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	Simple	Facet	Timeline	Advanced	Full search result

display features	search			search	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).				

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	<dcterms:replaces> http://dublincore.org/about/2006/01/01/bylaws/ </dcterms:replaces> 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	<dcterms:requires> http://ads.ahds.ac.uk/project/userinfo/css/oldbrowsers.css </dcterms:requires> 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/elements/1.1/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	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>Copyright © British Library Board, BBC and contributors</dc:rights>				

Element name: rights					
Namespace	europeana				
URI	http://www.europeana.eu/schemas/ese/rights				
Label	Europeana Rights				
Definition	Information about copyright of the digital object as specified by isShownBy and isShownAt				
Europeana note	The value is a URL constructed according to the specifications in the “Rights Guidelines” document on the Technical Requirements page at: http://version1.europeana.eu/web/guest/technical-requirements/ The URLs are constructed by adding a code indicating the copyright status of an object to the domain name where that status is defined.				
	For users of Europeana.eu this copyright information also applies to the preview specified in europeana:object .				
	The rights statement will be represented as a badge on the object page and as a text string in the metadata display. The provision of this element has an obligation level of “recommended” in this version of ESE. It will be changed to “Mandatory” in a later version.				
Obligation & Occurrence	Recommended (Minimum: 0, Maximum: 1)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
					X
Example	<europeana:rights> http://www.europeana.eu/rights/rr-f/ </europeana:rights>				

Element name: source					
Namespace	dc				
URI	http://purl.org/dc/elements/1.1/source				
Label	Source				
Definition	A related resource from which the described resource is derived in whole or in part.				
Europeana note	<p>This element can be used for several different types of source that are related to the object (such as reference sources). The name of the content holder should no longer be recorded here as a new element, europeana:dataProvider has been defined for that purpose.</p> <p>Multiple instances of dc:source may be supplied and all values will be displayed.</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 (Source)
Example	<p><dc:source>Security Magazine pp 3-12</dc:source></p> <p><dc:source>BAM portal</dc:source></p>				

Element name: spatial					
Namespace	dcterms				
URI	http://purl.org/dc/terms/spatial				
Label	Spatial Coverage				
Definition	Spatial characteristics of the resource. Refinement of dc:coverage .				
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: Geographic coverage Line)
Example	<dcterms:spatial>Portugal</dcterms:spatial>				

Element name: subject					
Namespace	dc				
URI	http://purl.org/dc/elements/1.1/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	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>				

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>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 i.e. what the resource is about or depicts in terms of time. 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: Time period line)
Example	<dcterms:temporal>Roman</dcterms:temporal>				

Element name: title					
Namespace	dc				
URI	http://purl.org/dc/elements/1.1/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	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	<dc:title xml:lang="it">Otto settimane</dc:title> <dc:title xml:lang="en">Eight weeks</dc:title>.				

Element name: type					
Namespace	dc				
URI	http://purl.org/dc/elements/1.1/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	The type of the original analog or born digital object as recorded by the content holder, this element typically includes values such as photograph, painting, sculpture etc. Providers are recommended to map the values entered in this element to the four material types used in Europeana: TEXT, IMAGE, SOUND and VIDEO. See europeana:type below.				
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 (More: Type Line)
Example	<dc:type>painting</dc:type> <dc:type>photograph</dc:type> <dc:type>coin</dc:type>				

Element name: type					
Namespace	europeana				
URI	http://www.europeana.eu/schemas/ese/type				
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 using upper case letters: TEXT, IMAGE, SOUND or VIDEO. This element is used to create the Type facet based on the Europeana material types. A default thumbnail is used for each type in the short or full record display when a thumbnail is not available (see europeana:object). As well as recording the original type values in <dc:type>, providers are asked to map from the local type terminology to the four types used in Europeana.				
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)		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)				

Element name: unstored	
Namespace	europeana
URI	http://www.europeana.eu/schemas/ese/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	The <code>europeana:unstored</code> element is provided in order to include important information for indexing purposes. All relevant information elements, which cannot be mapped to another element in the ESE, should be mapped into this element. This element is not available in “full search result display”.

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 was the previous location of the object; but there is no other element suitable for this information.)				

Element name: uri					
Namespace	europeana				
URI	http://www.europeana.eu/schemas/ese/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 by Europeana based on the unique identifiers provided in the source metadata.</p> <p>Please note that in cases where a 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	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/004/A7F7E0E6600 </europeana:uri>				

Element name: userTag					
Namespace	europeana				
URI	http://www.europeana.eu/schemas/ese/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.				
Obligation & Occurrence	Optional (Minimum:0, Maximum: unbounded)				
Europeana search and display features	Simple search	Facet	Timeline	Advanced search	Full search result display
	X				X

features					(User Tags Display)
Example	<europeana:userTag>My favorite food!</europeana:userTag>				

Element name: year					
Namespace	europeana				
URI	http://www.europeana.eu/schemas/ese/year				
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	<p>This is a 4 digit year in the Gregorian calendar (e.g. 1523), which is derived by Europeana from date values in the source metadata. It is derived from dc:date and its refinements. It is used in the Europeana timeline and the date facet.</p> <p>Objects with no <code>europeana:year</code> will not be represented in the Timeline or the date facet.</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 (Date)	X	X (Date)	X
Example	<europeana:year>1523</europeana:year>				

5. Document history

Version	Author	Updated	Comments
V3.3 draft 1	Robina Clayphan	06/04/2010	Initial draft to incorporate europeana:dataProvider and rights elements. Amend examples for hasFormat and hasVersion. Reformat elements to remove xml notation and use different font.
V3.3 draft 2	Robina Clayphan	24/04/2010	Add europeana:rights and edit following review.
V3.3 draft 3	Robina Clayphan	16/07/2010	Add paragraph re. xml:lang, change search and display boxes for Coverage, Spatial and Temporal. URLs.

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