Qualified
Dublin Core
and the
Digital Repository
of Ireland



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Foreward

The Digital Repository of Ireland (DRI) has carried out both broad and deep consultation with key institutions across Ireland to understand their metadata practices and needs. This work began in 2011 and our first findings were published in 2012¹. In 2013 we established a dedicated task force to consolidate our findings both nationally and internationally, and to begin a programme of guidance for best practice in metadata creation and use. This is the second in what will be an ongoing series of guidelines on metadata, suitable for various data types and disciplines within the broad domains of cultural and social data.

This document provides guidelines for preparing metadata for ingestion into the Digital Repository of Ireland, but we hope its reach will go beyond the DRI, and provide the groundwork for a cohesive and standardised approach to metadata in the Humanities and Qualitative Social Sciences in Ireland. We hope you will use these guidelines in your own institution, and encourage you to share them widely; if we adopt common or standardised metadata practices, we will have greater interoperability between our data collections, which will in turn enable improved and enhanced discovery and richer contextualised cross-collection narratives.

I cannot thank enough the experts from the broad suite of institutions who gave so generously of their time and deep expertise for this common goal. I would also like to thank the DRI team for their meticulous work on this task, which started as a simple but important concept, and grew into a complex and challenging endeavour as we embraced the diversity of data and its management practices. I hope the end result is an easy-to-use guide and reference, and we welcome your use and feedback.



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Introduction

These guidelines are aimed at anyone using the Dublin Core metadata standard to prepare content which will be deposited with the Digital Repository of Ireland ("the Repository"). These metadata guidelines do not contradict, or indeed replace, the Dublin Core standard, but should be used in tandem with it to ensure that the metadata can be ingested and searched in the Repository.

By following these guidelines, which include mandatory and recommended elements for ingestion of metadata into the Repository, you will be making your collections more easily searchable in the Repository, and cross-searchable with other DRI collections.

Mandatory and Recommended Elements

Data must be provided for Mandatory elements to enable metadata to be ingested by the Repository; metadata will be automatically rejected by the system if Mandatory elements are not included. Recommended elements do not have to be included, but DRI strongly advises that they are completed if possible in order to facilitate searching. The remaining Qualified Dublin Core elements are Optional. All submitted elements, whether Mandatory, Recommended or Optional, will be stored and available in the Repository.

What to Catalogue

DRI recommends following the "one to one" principle of Dublin Core: the principle whereby related but conceptually different entities, for example a painting and a digital image of the painting, are described by separate metadata records.² Metadata for a given object can refer to either the physical object or to the digital surrogate, but the information entered should not be a mixture of both.

Controlled Vocabularies

Controlled vocabularies are recommended in order to enhance the Repository's search function. Although specific controlled vocabularies are recommended in the tables below, they are not mandatory.

 $^{^2\} http://wiki.dublincore.org/index.php/Glossary/One-to-One_Principle,\ last\ accessed\ 21\ March\ 2014.$

Refining Elements and MARC Relator Terms

Qualified Dublin Core expands on the original fifteen Dublin Core elements, providing refinements to elements including Date, Relation and Format and allowing cataloguers to include more specific information about digital assets.

Qualified Dublin Core also supports the use of a subset of MARC Relator terms. These allow cataloguers to associate a specific role with the Contributor element for a digital asset, for example the role of Photographer, Printmaker, Commentator or Film Editor; and to specify that a named entity in the Subject element is depicted by the digital asset.

Localised Metadata

The Repository supports the inclusion of localised metadata by allowing the cataloguer to define the language used. This can be specified for a number of Dublin Core elements via the xml:lang attribute. The elements that support this feature are: Title, Description, Subject, Temporal Coverage, Coverage, Geographical Coverage, Source, and Rights. See "Sample DRI-compliant Qualified Dublin Core XML record" for an example of the xml:lang attribute in use.

Ingesting into the Repository

There are two methods for ingestion:

Web Form Ingest

The Repository includes a web-based user interface for single object ingest. This user interface provides blank fields to allow cataloguers to create metadata for a single digital asset. The metadata records are stored as XML and can be exported by the cataloguer as an XML file if desired.

2



XML Ingest

Metadata in XML format can also be ingested directly into the Repository. XML metadata must be encoded using UTF-8.

The appropriate namespace and schema information must be included in the header of the XML record, for example:

```
<?xml version="1.0" encoding="UTF-8" ?>
<qualifieddcxmlns:xsi="http://www.w3.org/2001/XMLSch
ema-instance"
    xmlns:dc="http://purl.org/dc/elements/1.1/"
    xmlns:marcrel="http://www.loc.gov/marc.relators/"
    xmlns:dcterms="http://purl.org/dc/terms/"

xsi:schemaLocation="http://www.loc.gov/marc.rela-
tors/ marcrel.xsd"

xsi:noNamespaceSchemaLocation="http://dublincore.org
/schemas/xmls/qdc/2008/02/11/qualifieddc.xsd">
</qualifieddc>
```

When using XML ingest, in order to match the metadata with its file, the metadata file and digital asset file should use the same filename, e.g. object1.xml and object1.tif. If there are multiple files associated with the metadata file, follow the filename with an underscore and an alphanumeric sequence, e.g. object2.xml, object2_001.tif, object2_002.tif, object2_003.tif.

Please see the DRI Resources page for further information on ingestion.

Qualified Dublin Core Resources

Guidance on using Dublin Core for Cataloguing is available here: Using Dublin Core:

The Elements³ and Dublin Core User Guide.⁴

The Dublin Core Simple Element Set version 1.1 is currently available here: **Dublin Core**Metadata Element Set, Version 1.1.⁵

An overview of the additional Qualified Dublin Core elements and refining elements is available here: **Using Dublin Core: Dublin Core Qualifiers.**⁶

Guidance on using MARC Relators with Dublin Core is available here: **MARC Relator Terms and Dublin Core**.⁷

A list of MARC Relators which are compatible with Dublin Core is available here: **Relator Terms and Dublin Core Elements**.⁸

³ http://dublincore.org/documents/usageguide/elements.shtml#source, last accessed 14 August 2014.

⁴ http://wiki.dublincore.org/index.php/User_Guide, last accessed 13 February 2015.

⁵ http://dublincore.org/documents/dces/, last accessed 14 August 2014.

⁶ http://dublincore.org/documents/usageguide/qualifiers.shtml, last accessed 27 November 2014.

⁷ http://dublincore.org/usage/documents/relators/, last accessed 13 February 2015.

⁸ http://lcweb2.loc.gov/diglib/loc.terms/relators/dc-contributor.html, last accessed 13 February 2015.

Table of mandatory and recommended elements, and suggested controlled vocabularies/standards for DRI

Element	Refining Element	Obligation	Controlled vocabulary	Page reference
Title		Mandatory	No	9
	Alternative	Recommended	No	16
Creator		Mandatory	Yes	9
Date		Mandatory if Issued or Created are not used	Yes	10
	Created	Mandatory if Date or Issued are not used	Yes	11
	Issued	Mandatory if Date or Created are not used	Yes	12
Description		Mandatory	No	13
Rights		Mandatory	No	14
Туре		Mandatory	Yes	15
Language		Recommended	Yes	16
Contributor		Recommended	Yes	17
	MARC Relator Terms	Recommended	Yes	17
Relation		Recommended	No	18
	Is Version Of	Recommended	No	18
	Has Version	Recommended	No	19
	Is Part Of	Recommended	No	19
	Has Part	Recommended	No	20
	Is Referenced By	Recommended	No	20
	References	Recommended	No	21
	Is Format Of	Recommended	No	21
	Has Format	Recommended	No	22
Source		Recommended	No	22
Coverage		Recommended	Yes	23
	Spatial	Recommended	Yes	24
	Temporal	Recommended	Yes	25
Subject		Recommended	Yes	25
	Depicted	Recommended	Yes	26
Identifier		Optional	No	
Format		Optional	No	
Publisher		Optional	No	
Audience		Optional	No	
Provenance		Optional	No	
Rights Holder		Optional	No	

Sample DRI-compliant Qualified Dublin Core XML record

```
<?xml version="1.0" encoding="UTF-8"?>
<qualifieddc xmlns:dc="http://purl.org/dc/elements/1.1/"
 xmlns:marcrel="http://www.loc.gov/marc.relators/"
 xmlns:dcterms="http://purl.org/dc/terms/"
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xsi:schemaLocation="http://www.loc.gov/marc.relators/ marcrel.xsd"
xsi:noNamespaceSchemaLocation="http://dublincore.org/schemas/xmls/qdc/2008/02/11/q
ualifieddc.xsd">
 <dc:title xml:lang="ga">Muintir na nOileán</dc:title>
 <dc:creator>RTÉ Raidió na Gaeltachta</dc:creator>
 <dcterms:created>Wed Apr 05 00:00:00 BST 1972</dcterms:created>
 <dc:description xml:lang="ga">Seo an chéad chlár as péire a taifeadadh istigh in
Inis Bearachain Co. na Gaillimhe ina bhfuil Stiofán Ó Cualáin as Carna ag cur síos
ar a chuid laethanta múinteoireachta san oileán. Labhraíonn sé ar na Seoighe agus
An Tóstal agus deir sé focail an amhráin faoin Seoighe Inis Bearachain a chum Val
Bheartla Uí Dhonnchú. Seinntear an t-amhrán Inis Barr an Chuain.
 </dc:description>
 <dc:description xml:lang="en">This is the first of two programmes recorded in
Inishbarra, Co. Galway, in which Stiofán Ó Cualáin from Carna describes the time
he spent teaching on the island. He speaks about the Joyces and recites the words
of the song about the Joyces of Inishbarra composed by Val Bheartla Uí Dhonnchú.
The programme also features the song Inis Barr an Chuain.</dc:description>
 <dc:rights xml:lang="ga">RTÉ Raidió na Gaeltachta</dc:rights>
 <dc:type>Sound</dc:type>
 <dcterms:extent>Sun Dec 31 00:20:00 GMT 1899</dcterms:extent>
 <dc:language>ga</dc:language>
 <marcrel:cmm>Ó Cualáin, Stiofán</marcrel:cmm>
 <marcrel:cmm>Ó Conaola, Maidhc P.</marcrel:cmm>
 <marcrel:cmm>Seoighe, Cóilín</marcrel:cmm>
  <marcrel:cmm>Choilmín' Seoighe, Máirtín 'Chóilín</marcrel:cmm>
 <marcrel:cmm>Ó Conaola, Maidhc P.</marcrel:cmm>
 <marcrel:pro>Ó Conaola, Maidhc P.;</marcrel:pro>
 <marcrel:hst>Ó Conaola, Maidhc P.;</marcrel:hst>
 <marcrel:cmm>Seoighe, Cóilín</marcrel:cmm>
 <dc:source xml:lang="ga">Cartlann RTÉ Raidió na Gaeltachta</dc:source>
 <dcterms:spatial xml:lang="ga">Co. na Gaillimhe</dcterms:spatial>
 <dcterms:spatial xml:lang="en">Inishbarra</dcterms:spatial>
 <dcterms:spatial xml:lang="en">Co. Galway</dcterms:spatial>
 <dcterms:spatial xml:lang="ga">Inis Bearachain</dcterms:spatial>
 <dc:subject xml:lang="ga">Pobail oileán</dc:subject>
 <dc:subject xml:lang="ga">Beathaisnéis</dc:subject>
 <dc:subject xml:lang="ga">Inis Bearachain</dc:subject>
 <dc:subject xml:lang="ga">Co. na Gaillimhe</dc:subject>
 <dc:subject xml:lang="ga">Stair</dc:subject>
 <dc:subject xml:lang="ga">Stair áitiúil</dc:subject>
 <dc:subject xml:lang="ga">Gaeltachtaí</dc:subject>
 <dc:subject xml:lang="ga">Ceol traidisiúnta</dc:subject>
 <dc:subject xml:lang="en">Island communities</dc:subject>
 <dc:subject xml:lang="en">Biography</dc:subject>
 <dc:subject xml:lang="ga">Inis Bearacháín</dc:subject>
 <dc:subject xml:lang="en">Co. Galway</dc:subject>
 <dc:subject xml:lang="en">History</dc:subject>
 <dc:subject xml:lang="en">Local history</dc:subject>
 <dc:subject xml:lang="en">Gaeltacht areas Irish traditional music</dc:subject>
 <dc:identifier>67879-CD2237-Nuig2237 06.mp3</dc:identifier>
 <dc:publisher>RTÉ Raidió na Gaeltachta</dc:publisher>
</gualifieddc>
```

Key to the Tables:

This is the name of the	metadata element taken from the Dublin

Core documentation, for example "Title".

Metadata Element This is the Dublin Core XML encoding of the metadata element, for

This is the Dubilit Core Aivil encounty of the metadata element, for

example dc:title

The metadata elements described in these guidelines use the

following namespace prefixes:

dc: for Dublin Core elements

dcterms: for Qualified Dublin core elements

marcrel: for MARC Relator Terms.

Definition This is the formal definition of the element, taken from the Dublin

Core documentation.

Format of content This is the type of data entered in the metadata element, for example

free text, or a suggested controlled vocabulary.

Obligation This field details whether or not the element is a required field for

ingest into the Repository. Elements are designated as either

Mandatory or Recommended. Optional elements are not detailed in

this document as they do not have DRI-specific recommendations

associated with them.

Repeatable This field details whether or not the metadata standard allows more

than one use of the metadata element. For example, if it is possible

to enter more than one Subject the element is repeatable, e.g.

<dc:subject>Cow</dc:subject>

<dc:subject>Mammal</dc:subject>

All Dublin Core elements are repeatable.

Values (examples) This field gives exam

This field gives example instances of the types of values that might be

entered in the element.

Label Title⁹

Metadata Element <dc:title>

Definition A name given to the resource. Typically, a Title will be a name by which the

resource is formally known.

Format of content Free text

Obligation Mandatory
Repeatable Yes

Values (examples) <dc:title>Ulysses</dc:title>

<dc:title>Childhood in Ireland: A Qualitative

Study</dc:title>

<dc:title>The Morning Show</dc:title>

Label Creator¹⁰

Definition An entity primarily responsible for making the content of the resource.

Examples of a Creator include a person, an organization, or a service. Typically

the name of the Creator should be used to indicate the entity.

Format of content Personal, family and corporate names should preferably be

formatted according to the Irish Guidelines for Indexing Archives. 11

Obligation Mandatory

Repeatable Yes

Values (examples) <dc:creator>Irish Qualitative Data Archive, Maynooth

University</do:creator>

<dc:creator>Radio na Gaeltachta, 1972-</dc:creator>
<dc:creator>Joyce, James, 1882-1941</dc:creator>

Notes For Irish family names, such as Mary Choilm a' tSeaimpín, where Choilm a'

tSeaimpín is a family identifier rather than a surname and cannot precede Mary, DRI suggests that the family identifier should follow the first name. If the creator is unknown, some term should be entered in the Creator element to signal this, such as "Unknown" or "Anonymous". However, if the cataloguer would prefer to leave the element blank, they should fill in "null".

⁹ http://purl.org/dc/elements/1.1/title, last accessed 14 August 2014.

¹⁰ http://purl.org/dc/elements/1.1/creator, last accessed 14 August 2014.

¹¹ http://www.learnaboutarchives.ie/~learnabo/images/documents/ARAIndexing.pdf, last accessed 14 August 2014.

Label Date¹²

Metadata Element <dc:date>

Definition A point or period of time associated with an event in the lifecycle of the

resource.

Format of content Date should preferably be formatted according to the **W3C Note on Date**

and Time Formats¹³, ISO 8601¹⁴ or the DCMI Period Encoding Scheme.¹⁵

Although dates which are not formatted in this way can be included, they will

not be indexed and fully searchable in the Repository.

Obligation Mandatory if Created or Issued are not used

Repeatable Yes

Values (examples) <dc:date>2013-11-05</dc:date>

Notes Date may refer to published date, broadcast date, object creation date, etc.

Dates can be identified more specifically by using Qualified Dublin Core

Refining elements.

If the date is unknown and the cataloguer would prefer to leave the element

blank rather than write "Unknown," they should fill in "null".

The Repository supports the inclusion of date spans encoded as DCMI Period, and will also index uncertain dates which are prefaced by "circa" or "ca" if

the desired date range is encoded appropriately.

If the desired display date is "circa 1935" then it could for example be encoded with a ten year span (1930-1940) and would then be searchable by any date within this span. Although the span is indexed for search, the display date defined as name = will be the only part of the date which is displayed by

the Repository.

The encoding scheme used (either W3C-DTF or ISO 8601) must be included.

For example:

<dc:date xsi:type="dcterms:Period">name=ca 1935;

start=1930-01-01; end=1940-12-31; scheme=W3C-

DTF;</dc:date>

<dc:date xsi:type="dcterms:Period">name=ca 1860;

start=1855-01-01; end=1865-12-31;

scheme=ISO8601;</dc:date>

¹² http://purl.org/dc/elements/1.1/date, last accessed 14 August 2014.

¹³ http://www.w3.org/TR/NOTE-datetime, last accessed 14 August 2014.

¹⁴ http://www.iso.org/iso/home/standards/iso8601.htm, last accessed 14 August 2014.

¹⁵ http://dublincore.org/documents/dcmi-period/, last accessed 14 August 2014.

Element refinement for <dc:date>

Label Created¹⁶

Definition Date of creation of the resource.

Format of content Date should preferably be formatted according to the **W3C Note on Date**

and Time Formats¹⁷, ISO 8601¹⁸ or the DCMI Period Encoding Scheme.¹⁹ Although dates which are not formatted in this way can be included, they will

not be indexed and fully searchable in the Repository.

Obligation Mandatory if Date or Issued are not used.

Repeatable Yes

Values (examples) <dcterms:created>2013-11-05</dcterms:created>

<dcterms:created>start=1960-01-01; end=1969-01-

31;</dcterms:created>

Notes If the date is unknown and the cataloguer would prefer to leave the element

blank rather than write "Unknown," they should fill in "null".

The Repository supports the inclusion of date spans encoded as DCMI Period, and will also index uncertain dates which are prefaced by "circa" or "ca" if the desired date range is encoded appropriately.

If the desired display date is "circa 1935" then it could for example be encoded with a ten year span (1930-1940) and would then be searchable by any date within this span. Although the span is indexed for search, the display date defined as name= will be the only part of the date which is displayed by the Repository.

The encoding scheme used (either W3C-DTF or ISO 8601) must be included.

For example:

<dcterms:created xsi:type="dcterms:Period">name=ca
1935; start=1930-01-01; end=1940-12-31; scheme=W3CDTF;</dcterms:created>

<dcterms:created xsi:type="dcterms:Period">name=ca
1860; start=1855-01-01; end=1865-12-31;

scheme=ISO8601;</dcterms:dcreated>

¹⁶ http://dublincore.org/documents/dcmi-terms/#terms-created, last accessed 27 February 2015.

¹⁷ http://www.w3.org/TR/NOTE-datetime, last accessed 14 August 2014.

¹⁸ http://www.iso.org/iso/home/standards/iso8601.htm, last accessed 14 August 2014.

¹⁹ http://dublincore.org/documents/dcmi-period/, last accessed 14 August 2014.

Element refinement for <dc:date>

Label Issued²⁰

Definition Date of formal issuance (e.g. publication) of the resource.

Format of content Date should preferably be formatted according to the W3C Note on Date

and Time Formats²¹, ISO 8601²² or the DCMI Period Encoding Scheme.²³

Although dates which are not formatted in this way can be included, they will

not be indexed and fully searchable in the Repository.

Obligation Mandatory if Date or Created are not used

Repeatable Yes

Values (examples) <dcterms:issued>2013-11-05</dcterms:issued>

<dcterms:issued>1995</dcterms:issued>

Notes If the date is unknown and the cataloguer would prefer to leave the element

blank rather than write "Unknown," they should fill in "null".

The Repository supports the inclusion of date spans encoded as DCMI Period, and will also index uncertain dates which are prefaced by "circa" or "ca" if

the desired date range is encoded appropriately.

If the desired display date is "circa 1935" then it could for example be encoded with a ten year span (1930-1940) and would then be searchable by any date within this span. Although the span is indexed for search, the display date defined as name= will be the only part of the date which is displayed

by the Repository.

The encoding scheme used (either W3C-DTF or ISO 8601) must be included.

For example:

<dcterms:issued xsi:type="dcterms:Period">name=ca
1935; start=1930-01-01; end=1940-12-31; scheme=W3C-

DTF;</dcterms:issued>

<dcterms:issued xsi:type="dcterms:Period">name=ca

1860; start=1855-01-01; end=1865-12-31;

scheme=ISO8601;</dcterms:issued>

²⁰ http://dublincore.org/documents/dcmi-terms/#terms-issued, last accessed 27 February 2015.

²¹ http://www.w3.org/TR/NOTE-datetime, last accessed 14 August 2014.

²² http://www.iso.org/iso/home/standards/iso8601.htm, last accessed 14 August 2014.

²³ http://dublincore.org/documents/dcmi-period/, last accessed 14 August 2014.

Label Description²⁴

Metadata Element <dc:description>

Definition An account of the resource.

Format of content Free text Obligation Mandatory

Repeatable Yes

Notes

Values (examples) <dc:description>A novel about the fictional character

Leopold Bloom in early twentieth-century Dublin. The

novel mirrors the wanderings of the Ulysses

epic.</dc:description>

<dc:description>Linked Logainm is a collaborative project led by the Digital Repository of Ireland (DRI),

INSIGHT at NUI Galway, Fiontar at Dublin City

University, and the National Library of Ireland. The Linked Logainm project created a Linked Data version of the authoritative bilingual database of Irish place names logainm.ie, developed by Fiontar in collaboration with the Placenames Branch of the Department of Arts, Heritage and the Gaeltacht. & #xA; The publication of logainm.ie data in a structured, computer-readable format allows its value to be re-used by computer

scientists, web developers, the heritage community and information professionals. & #xA; The project document "Using the Linked Logainm Dataset" provides use-cases and examples for those who are interested in working with the Linked Logainm dataset, and who have

some technical experience.</dc:description>

Description may include but is not limited to: an abstract, a table of contents,

or a free-text account of the resource.

For long descriptions, the Repository supports the inclusion of paragraphs and line breaks.

When using the ingest form, pressing return will create a line break which will be displayed in the Repository's user interface. Pressing return twice will create

a new paragraph.

When creating XML metadata,
 may be used to create a carriage return, while
 will create a line break. The inclusion of two carriage returns or line breaks consecutively, for example
 will create a paragraph break.

²⁴ http://purl.org/dc/elements/1.1/description, last accessed 14 August 2014.

Label Rights²⁵

Definition Information about rights held in and over the resource. Typically a Rights

element will contain a rights management statement for the resource, or reference a service providing such information. Rights information often encompasses Intellectual Property Rights (IPR), Copyright, and various Property

Rights.

Format of content Free text

Obligation Mandatory
Repeatable Yes

Values (examples) <dc:rights>Copyright National Library of Ireland,

2013</dc:rights>

<dc:rights>Copyright IQDA, Maynooth University. All

rights reserved</dc:rights>

<dc:rights>Copyright Radio na Gaeltachta. This work is licensed under a Creative Commons Attribution-NoDerivs

3.0 Ireland Licence. Please use the following

attribution when citing this work: Copyright Radio na Gaeltachta, digital surrogate created by the DRI NUI

Galway Demonstrator Project</dc:rights>

Notes This element may include both rights information, and information on how

the resource can be reused.

²⁵ http://purl.org/dc/elements/1.1/rights, last accessed 14 August 2014.

Label Type²⁶

Metadata Element <dc:type>

Definition The nature or genre of the content of the resource. Type includes terms

describing general categories, functions, genres, or aggregation levels for

content.

Format of content Free text

Recommended controlled vocabulary for this element:

DCMI Type Vocabulary.²⁷

Other recommended vocabularies are available on the **DRI Vocabularies**

page.²⁸

Obligation Mandatory

Repeatable Yes

Values (examples) <dc:type>Dataset</dc:type>

<dc:type>MovingImage</dc:type>

<dc:type>Text</dc:type>

<dc:type>Newspapers</dc:type>
<dc:type>Periodicals</dc:type>

²⁶ http://purl.org/dc/elements/1.1/type, last accessed 14 August 2014.

²⁷ http://dublincore.org/documents/2000/07/11/dcmi-type-vocabulary/, last accessed 14 August 2014.

²⁸ http://dri.ie/vocabularies, last accessed 21 October 2014.

Element refinement for <dc:title>

Label Alternative²⁹

Definition An alternative name for the resource. The distinction between titles and

alternative titles is application-specific.

Format of content Free text

Obligation Recommended

Repeatable Yes

Values (examples) <dc:title xml:lang="ga">Muintir na nOileán</dc:title>

<dc:title>The Three Musketeers</dc:title>

<dcterms:alternative>Les Trois

Mousquetaires</dcterms:alternative>

Label Language³⁰

Metadata Element <dc:language>

Definition A language of the resource.

Format of Content Languages should preferably be formatted according to ISO639³¹ or

RFC5646.32

Obligation Recommended

Repeatable Yes

Values (examples) <dc:language>en</dc:language>

<dc:language>eng<dc:language> <dc:language>ga</dc:language> <dc:language>gle<dc:language>

²⁹ http://dublincore.org/documents/2012/06/14/dcmi-terms/?v=terms#alternative, last accessed 27 February 2015.

³⁰ http://purl.org/dc/elements/1.1/language, last accessed 14 August 2014.

³¹ http://www.loc.gov/standards/iso639-2/php/code_list.php, last accessed 14 August 2014.

³² http://tools.ietf.org/html/rfc5646, last accessed 14 August 2014.

Label Contributor³³

Definition An entity responsible for making contributions to the resource.

Format of content Free text.

Personal, family and corporate names should preferably be formatted

according to the Irish Guidelines for Indexing Archives.34

Obligation Recommended

Repeatable Yes

Values (examples) <dc:contributor>Heaney, Seamus, 1939-

2013</dc:contributor>

Element refinement for <dc:contributor>

Label Dublin Core MARC Relator Terms 35

Metadata Element <marcrel:MARC relator code indicating a refinement>

Definition An entity responsible for making contributions to the resource.

Dublin Core MARC Relator terms may be used to describe the relationship of

the named Contributor to the digital object.

A list of MARC Relator terms which are compatible with Dublin Core is

available here: Relator Terms and Dublin Core Elements.36

Format of content Free text.

Personal, family and corporate names should preferably be formatted

according to the Irish Guidelines for Indexing Archives.37

Obligation Recommended

Repeatable Yes

Values (examples) <marcrel:aut>Joyce, James, 1882-1941</marcrel:aut>

<marcrel:cmm>Báille, Micil</marcrel:cmm>

³³ http://purl.org/dc/elements/1.1/contributor, last accessed 14 August 2014.

 $^{^{34}}$ http://www.learnaboutarchives.ie/~learnabo/images/documents/ARAIndexing.pdf, last accessed 14 August 2014.

³⁵ http://lcweb2.loc.gov/diglib/loc.terms/relators/dc-contributor.html, last accessed 14 August 2014.

³⁶ http://lcweb2.loc.gov/diglib/loc.terms/relators/dc-contributor.html, last accessed 13 February 2015.

³⁷ http://www.learnaboutarchives.ie/~learnabo/images/documents/ARAIndexing.pdf, last accessed 14 August 2014.

Label Relation³⁸

Definition A reference to a related resource. Recommended best practice is to reference

the resource by means of a string or number conforming to a formal

identification system.

Format of content Free text

Obligation Recommended

Repeatable Yes

Values (example) <dc:relation>DOI: 10.3318/DRI.2013.1</dc:relation>

<dc:relation>This text is a translation of
DOI:10.3318/DRI.LODer.2013.3</dc:relation>

NotesDOIs, URLs, and library codes or references to demonstrate a relationship

between objects may be included in this element.

Element refinement for <dc:relation>

Label Is Version Of³⁹

Definition The described resource is a version, edition, or adaptation of the referenced

resource. Changes in version imply substantive changes in content rather than

differences in format.

Format of content Free text

Obligation Recommended

Repeatable Yes

Values (examples) West Side Story may have:

<dcterms:isVersionOf>Romeo and Juliet

</dcterms:isVersionOf>

NotesDOIs, URLs, and library codes or references to demonstrate a relationship

³⁸ http://purl.org/dc/elements/1.1/relation, last accessed 14 August 2014.

³⁹ http://dublincore.org/documents/2012/06/14/dcmi-terms/?v=terms#terms-isVersionOf, last accessed 27 February 2015.

Element refinement for <dc:relation>

Label Has Version⁴⁰

Definition The described resource is a version, edition, or adaptation of the referenced

resource. Changes in version imply substantive changes in content rather than

differences in format.

Format of content Free text

Obligation Recommended

Repeatable Yes

Values (examples) Romeo and Juliet may have:

<dcterms:hasVersion>West Side Story</dc:hasVersion>

Notes DOIs, URLs, and library codes or references to demonstrate a relationship

between objects may be included in this element.

Element refinement for <dc:relation>

Label Is Part Of⁴¹

Definition The described resource is a physical or logical part of the referenced resource.

Format of content Free text

Obligation Recommended

Repeatable Yes

Values (examples) The Three Musketeers may include:

<dcterms:isPartOf>The D'Artagnan Romances

</dcterms:isPartOf>

Notes DOIs, URLs, and library codes or references to demonstrate a relationship

⁴⁰ http://dublincore.org/documents/2012/06/14/dcmi-terms/?v=terms#terms-hasVersion, last accessed 27 February 2015.

⁴¹ http://dublincore.org/documents/2012/06/14/dcmi-terms/?v=terms#terms-isPartOf, last accessed 27 February 2015.

Element refinement for <dc:relation>

Label Has Part⁴²

Definition The described resource includes the referenced resource either physically or

logically.

Format of content Free text

Obligation Recommended

Repeatable Yes

Values (examples) A record for the D'Artagnan Romances may include:

<dcterms:hasPart>The Three Musketeers</dc:hasPart>
<dcterms:hasPart>Twenty Years After</dc:hasPart>

<dcterms:hasPart>The Vicomte de Bragelonne</dc:hasPart>
<dcterms:hasPart>Louise de la Vallière</dc:hasPart>
<dcterms:hasPart>The Man in the Iron Mask</dc:hasPart>

Notes DOIs, URLs, and library codes or references to demonstrate a relationship

between objects may be included in this element.

Element refinement for <dc:relation>

Label Is Referenced By⁴³

Definition The described resource is referenced, cited, or otherwise pointed to by the

referenced resource.

Format of content Free text

Obligation Recommended

Repeatable Yes

Values <dcterms:isReferencedBy>DOI: 10.3318/DRI.2015.1

</dcterms:isReferencedBy>

<dcterms:isReferencedBy>This essay is cited in Art and

Architecture of Ireland Volume V: Twentieth

century</dcterms:isReferencedBy>

NotesDOIs, URLs, and library codes or references to demonstrate a relationship

⁴² http://dublincore.org/documents/2012/06/14/dcmi-terms/?v=terms#terms-hasPart, last accessed 27 February 2015.

⁴³ http://dublincore.org/documents/2012/06/14/dcmi-terms/?v=terms#terms-isReferencedBy, last accessed 27 February 2015.

Element refinement for <dc:relation>

Label References⁴⁴

Definition The described resource references, cites, or otherwise points to the referenced

resource.

Format of content Free text

Obligation Recommended

Repeatable Yes

Values <dcterms:references>DOI:10.3318/DRI.2015.2

</dcterms:references>

<dcterms:references>This report includes information

from the Dictionary of Irish Biography

</dcterms:references>

<dcterms:references>http://dib.cambridge.org/

</dcterms:references>

Notes DOIs, URLs, and library codes or references to demonstrate a relationship

between objects may be included in this element.

Element refinement for <dc:relation>

Label Is Format Of⁴⁵

Definition A related resource that is substantially the same as the described resource, but

in another format.

Format of content Free text

Obligation Recommended

Repeatable Yes

Values (examples) For a text transcription of a PDF image:

<dcterms:isFormatOf>NULU01image</dcterms:isFormatOf>

NotesDOIs, URLs, and library codes or references to demonstrate a relationship

⁴⁴ http://dublincore.org/documents/2012/06/14/dcmi-terms/?v=terms#terms-references, last accessed 27 February 2015.

 $^{^{45}}$ http://dublincore.org/documents/2012/06/14/dcmi-terms/?v=terms#terms-isFormatOf, last accessed 27 February 2015.

Element refinement for <dc:relation>

Label Has Format⁴⁶

Definition A related resource that is substantially the same as the pre-existing described

resource, but in another format.

Format of content Free text

Obligation Recommended

Repeatable Yes

Values (examples) <dcterms:hasFormat>This audio file is also available as

a text transcription, NULU01text.</dcterms:hasFormat>

Notes DOIs, URLs, and library codes or references to demonstrate a relationship

between objects may be included in this element.

Label Source⁴⁷

Metadata Element <dc:source>

Definition A related resource from which the described resource is derived.

Format of content Free text

Obligation Recommended

Repeatable Yes

Values (examples) <dc:source>This image is taken from Folio 202v of the

Book of Kells</dc:source>

<dc:source> Transcript from audio John Kelly inter

view</dc:source>

Notes DOIs, URLs, and library codes or references to demonstrate a relationship

⁴⁶ http://dublincore.org/documents/2012/06/14/dcmi-terms/?v=terms#terms-hasFormat, last accessed 27 February 2015.

⁴⁷ http://purl.org/dc/elements/1.1/source, last accessed 14 August 2014.

Label Coverage⁴⁸

Definition The spatial or temporal topic of the resource, the spatial applicability of the

resource, or the jurisdiction under which the resource is relevant.

Format of content Free text.

Geo-codes should preferably be formatted according to the **DCMI Point**

Encoding Scheme⁴⁹, and the DCMI Box Encoding Scheme.⁵⁰

Temporal data should preferably be formatted according to the **DCMI Period**

Encoding Scheme⁵¹, W3C Note on Date and Time Formats⁵² or ISO 8601⁵³; or the Library of Congress Subject Headings for named

periods54.

Obligation Recommended

Repeatable Yes

Values (examples) <dc:coverage>1918-11-11</dc:coverage>

<dc:coverage xsi:type="dcterms:Period">name=The 1960s;

start=1960-01-01; end=1969-12-31;<dc:coverage>
<dc:coverage>Early Modern History</dc:coverage>
<dc:coverage>Spain</dc:coverage</dc:coverage>

<dc:coverage>name=Western Australia; northlimit=-13.5;

southlimit=-35.5;

westlimit=112.5; eastlimit=129</dc:coverage>

<dc:coverage>http://data.logainm.ie/place/49237</dc:co</pre>

verage>

<dc:coverage>http://sws.geonames.org/3301443/</dc:co</pre>

verage>

<dc:coverage>http://id.worldcat.org/fast/1271105

dc:coverage>

⁴⁸ http://purl.org/dc/elements/1.1/coverage, last accessed 14 August 2014.

⁴⁹ http://dublincore.org/documents/dcmi-point/, last accessed 14 August 2014.

⁵⁰ http://dublincore.org/documents/dcmi-box/, last accessed 14 August 2014.

⁵¹ http://dublincore.org/documents/dcmi-period/, last accessed 14 August 2014.

⁵² http://www.w3.org/TR/NOTE-datetime, last accessed 14 August 2014.

⁵³ http://www.iso.org/iso/home/standards/iso8601.htm, last accessed 14 August 2014.

⁵⁴ http://id.loc.gov/authorities/subjects.html, last accessed 21 March 2014.

Element refinement for <dc:coverage>

Label Spatial⁵⁵

Definition Spatial characteristics of the intellectual content of the resource.

Format of content Free text.

Geo-codes should preferably be formatted according to the **DCMI Point**

Encoding Scheme⁵⁶, and the DCMI Box Encoding Scheme.⁵⁷

Obligation Recommended

Repeatable Yes

Values (examples) <dcterms:spatial>Spain</dc:coverage</dcterms:spatial>

<dcterms:spatial>name=Western Australia; northlimit=-

13.5; southlimit=-35.5; westlimit=112.5; east

limit=129</dcterms:spatial>

<dcterms:spatial>http://data.logainm.ie/place/49237</d</pre>

cterms:spatial>

<dcterms:spatial>http://sws.geonames.org/3301443</dcte</pre>

rms:spatial>

<dcterms:spatial>http://id.worldcat.org/fast/1271105

dcterms:spatial>

⁵⁵ http://dublincore.org/documents/2012/06/14/dcmi-terms/?v=terms#terms-spatial, last accessed 27 February 2015.

⁵⁶ http://dublincore.org/documents/dcmi-point/, last accessed 14 August 2014.

⁵⁷ http://dublincore.org/documents/dcmi-box/, last accessed 14 August 2014.

Element refinement for <dc:coverage>

Label Temporal⁵⁸

Definition Temporal characteristics of the intellectual content of the resource.

Format of content Free text.

Temporal data should preferably be formatted according to the **DCMI Period Encoding Scheme**⁵⁹, **W3C Note on Date and Time Formats**⁶⁰ or **ISO 8601**⁶¹; or the **Library of Congress Subject Headings** for named periods⁶².

Obligation Recommended

Repeatable Yes

Values (examples) <dcterms:temporal>1918-11-11</dcterms:temporal>

<dcterms:temporal xsi:type="dcterms:Period">name=The

1960s; start=1960-01-01; end=1969-12-

31</dcterms:temporal>

<dcterms:temporal>Early Modern
History</dcterms:temporal>

Label Subject⁶³

Definition The topic of the resource.

Format of content Free text.

It is recommended to use a vocabulary or thesaurus that is appropriate to the record's subject. A suggested list is available on the **DRI Vocabularies** page⁶⁴.

Obligation Recommended

Repeatable Yes

Values (examples) <dc:subject>Valera, Eamon, de, 1882-1975</dc:subject>

<dc:subject>Geography</dc:subject>
<dc:subject>Fiction</dc:subject>
<dc:subject>Satire</dc:subject>

⁵⁸ http://dublincore.org/documents/2012/06/14/dcmi-terms/?v=terms#temporal, last accessed 27 February 2015.

 $^{^{\}rm 59}$ http://dublincore.org/documents/dcmi-period/, last accessed 14 August 2014.

⁶⁰ http://www.w3.org/TR/NOTE-datetime, last accessed 14 August 2014.

⁶¹ http://www.iso.org/iso/home/standards/iso8601.htm, last accessed 14 August 2014.

⁶² http://id.loc.gov/authorities/subjects.html, last accessed 21 March 2014.

⁶³ http://purl.org/dc/elements/1.1/subject, last accessed 14 August 2014.

⁶⁴ http://dri.ie/vocabularies, last accessed 14 August 2014.

Element refinement for <dc: subject>

Label Depicted⁶⁵

Metadata Element <marcrel:dpc>

Definition Use for an entity depicted or portrayed in a work, particularly in a work of

art.

Format of content Free text.

> It is recommended to use a vocabulary or thesaurus that is appropriate to the record's subject. A suggested list is available on the **DRI Vocabularies** page⁶⁶.

Obligation Recommended

Repeatable Yes

Values (examples) <marcrel:dpc>Valera, Eamon, de, 1882-1975</marcrel:dpc>

<marcrel:dpc>The River Liffey</marcrel:dpc>

http://lcweb2.loc.gov/diglib/loc.terms/relators/dc-contributor.html, last accessed 13 February 2015.
 http://dri.ie/vocabularies, last accessed 14 August 2014.

