

Digital Library Data Dictionary Multimedia and Bibliographic Databases

- **Last Updated:** 2005-11-09
- **Editor:** Peter C. Gorman
- **Version:**2.0 (transitional)
- **Current Version:** <http://uwdcc.library.wisc.edu/test/resources/mmbib/DBDataDictionary.shtml>

Additions or changes made since the previous version [look like this](#).

This document does not specify database structures, record syntax, field labels, or element names. Rather, it defines the core data elements in terms of their internal encoding, semantics, appropriate use, and relationship to other metadata schemes. Methods for embedding these data elements in specific databases or [transfer formats](#) will be specified in other documents.

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[Submitter](#)

Object: Resource

Name	Type	Data Element				Req/Rep		Crosswalk		Comments
		Definition	Scheme	Format	Example	Req	Rep	MARC	MODS	
Resource-DC.Title	Main	The name given to the Resource by the Creator or Publisher . If unknown, a descriptive title may be assigned by staff.	[none]	Text string	Procession bearing banners in honor of Doctor Dobson, a tribute to him on leaving for a year at home.	X		245 00 a	<titleInfo> <title> </title> </titleInfo>	This title will be used in brief record displays.
	Other	A title other than the main title, such as a subtitle or translated title.	[none]	Text string	Procession with banners for Dr. Dobson in front of where present church is, west side of street, YK		X	246 33 a	<titleInfo type="?"> <title> </title> </titleInfo>	

Resource-DC.Creator		The person(s) or organization(s) primarily responsible for the intellectual content of the Resource.	AACR2	Text string in AACR2/LCNAF form or a form consistent with AACR2/LCNAF practice (for most languages last name, first name, middle initial, dates)	Nicholson, Asenath, 1792-1855 Jónas Hallgrímsson, 1807-1845	X	720 __ a e	<name> <namePart> </namePart> <role> <roleTerm> </roleTerm> </role> </name>	Values specified for [Role] will be used mainly for labeling and display, not for scoped indexing and retrieval. Values will be linked to a browse of the combined <i>DC.Creator</i> and <i>DC.Contributor</i> fields.
	[Role]								
Resource-DC.Contributor		Person(s) or organization(s) in addition to the Creator who have made significant intellectual contributions to the Resource but whose contribution is secondary to that of the Creator .	AACR2	Text string in AACR2/LCNAF form or a form consistent with AACR2/LCNAF practice (for most languages last name, first name, middle initial, dates)	Ringler, Dick Haugen, Einar Ingvald, 1906-	X	720 __ a e	<name> <namePart> </namePart> <role> <roleTerm> </roleTerm> </role> </name>	Values specified for [Role] will be used mainly for labeling and display, not for scoped indexing and retrieval. Values will be linked to a browse of the combined <i>DC.Creator</i> and <i>DC.Contributor</i> fields.
	[Role]								
Resource-DC.Subject		The terms, phrases, or classifications used to provide topical access to the Resource.	[none]	Text string	Peddlers and peddling -- England -- London	X	650 _4 a	<subject> <topic> </topic>	Schemes should be used as part of display label (e.g. "LCSH Subject: ") Values will be linked to browse of all <i>unqualified</i> Subject fields.
	LCSH		653 __ a				</subject>		
	MeSH		650 _0 a				<subject authority="lcsch"> <topic> </topic> </subject>		
	AAT		650 _2 a				<subject authority="mesh"> <topic> </topic> </subject>		
	TGM		650 _7 a 2				<subject authority="aat"> <topic> </topic> </subject>		
							650 _7 a 2	<subject authority="lctgm"> <topic> </topic> </subject>	
Resource-DC.Description		A textual description of the content of the Resource.	[none]	Text string	UW-Madison TEI edition of work originally published in 1885. Encoded according to Guidelines for Markup of Electronic Texts: UW-Madison Libraries, version 1.0, Reading Level.	X	520 __ a	<note> </note>	

Resource-DC.Publisher		The entity responsible for making the Resource available in its present form, such as a corporate publisher, a university department, or a cultural institution.	[none]	Text string: Place:(optional) Publisher name	Madison, WI: University of Wisconsin-Madison, General Library System	X	260 __ a b	<originInfo> <place> <placeTerm> </placeTerm> </place> </originInfo> OR <originInfo> <publisher> </publisher> </originInfo>	
Resource-Date-Certainty		Whether the date value in Resource-DC.Date is certain.		Boolean: one of {y n}			260 __ c	<originInfo> <dateCreated encoding="w3cdtf" qualifier="questionable"> </dateCreated> </originInfo>	A value of n should cause the interface to display the string ca. immediately before the value of Resource-DC.Date .
Resource-DC.Date		The date the Resource was made available in its present form.	W3C-DTF	YYYY(-MM(-DD)) format specified in W3C profile of ISO 8601	2001-06	X	260 __ c	<originInfo> <dateCreated encoding="w3cdtf"> </dateCreated> </originInfo>	For summarized or uncertain entries, date ranges can be indicated in ISO 8601 format by separating the start and end dates with a forward slash (e.g., July-August 1998 = 1998-07/1998-08). See also Markus Kuhn's article " A Summary of the International Standard Date and Time Notation ".
Resource-DC.Type		The nature or genre of the content of the Resource [DCES] , such as text, image, physical object, or collection.	DCT1	Text string: value drawn from DCMI List of Resource Types [DCT1]	Image Text Collection	X	655 _7 a	<typeOfResource> </typeOfResource> OR <typeOfResource manuscript="yes" collection="yes"> </typeOfResource>	Values may be linked to new search of this field, though it may be more useful just to use values as search limits (e.g., in a drop-down list on a search form).
Resource-DC.Format		The physical or digital manifestation of the Resource. [DCES]	[none]	Text String	color 35mm slide	X	300 __ a	<physicalDescription> <form> </form> </physicalDescription>	
			MIME	Valid MIME Media Type	image/jpeg		856 __ q	<physicalDescription> <internetMediaType> </internetMediaType> </physicalDescription>	
		An unambiguous reference to the Resource within a given context. [DCES]	[none]	Text string	FRUS	X	024 8_ a	<identifier> </identifier>	
			URL	valid URL	http://www.lamp.ac.uk/hogarth/		856 40 u	<identifier type="uri"> </identifier>	
			ISBN	valid ISBN	0571059228		020 __ a	<identifier type="isbn"> </identifier>	
			ISSN	valid ISSN	0021-9584		022 __ a	<identifier type="issn"> </identifier>	
			Handle	valid Handle	1711.dl/HistPriSrc.NichoAnnal		856 40 u	<identifier type="hdl"> </identifier>	
			CallNo	Call number	E166 .B84		090	<identifier type="lccn"> </identifier>	
			BBA	Bertolt Brecht Archiv					

Resource-DC.Identifier			GBA	<i>große kommentierte Berliner und Frankfurter Ausgabe</i>						
	bibliographicCitation	A bibliographic reference for the Resource. [DCBC]								
	LocalID	Identifier for Resource; must be unique (at least) within scope of Collection	[none]	Text string, composed of characters valid for URN Namespace Specific String , with the format [Collection-ID].[locally-unique-string].bib	AfricaFocus.r5210as01.bib	X	024	a	<recordInfo> <recordIdentifier> </recordIdentifier> </recordInfo>	This is qualified because of its special function as a unique record identifier. LTG will prefix supplied values with the Collection-ID and will suffix values with .bib, so data entry staff need only supply the locally-unique string.
Resource-DC.Source		A Reference to a resource from which the present Resource is derived. [DCES]	[none]	Text string	Tuer, Andrew White, 1838-1900. Old London street cries ; and, The cries of to-day : with heaps of quaint cuts including hand-coloured frontispiece. London: Field & Tuer, The Leadenhall Press, 1885.	X	786	0_ n	<relatedItem> </relatedItem>	
Resource-DC.Language		A language of the intellectual content of the Resource. [DCES]	ISO639-2	Three-letter string from ISO 639-2/B Bibliographic Codes	eng	X	041	a	<language> <languageTerm type="code" authority="iso639-2b"> </languageTerm> </language>	Interface will map values to textual equivalents, e.g., eng -> English Languages not represented in ISO 639-2 should use codes from the local use range qaa-qtz. Local codes currently in use are: [none]
OtherFormat		A reference to a related resource [DCES] (relationship unspecified).	[none]	Text string or LabeledURI Object		X	787	0_ n	<relatedItem> <name> </name> <identifier type="uri"> </identifier> </relatedItem>	
			LocalID	Unique identifier of another record on this collection			787	0_ o	<relatedItem> <name> </name> <recordInfo> <recordIdentifier> </recordIdentifier> </recordInfo> </relatedItem>	
	A reference to a related resource. [DCES] The described Resource is the same	[none]	Text string or LabeledURI Object		776	0_ n	<relatedItem type="otherFormat"> <name> </name> <identifier type="uri"> </identifier> </relatedItem>			

Resource-DC.Relation		intellectual content of the referenced resource, but presented in another format. [DCQ]	LocalID	Unique identifier of another record on this collection	[Text string:] William J. Dobson Collection			776 0_ o	<relatedItem type="otherFormat"> <name> </name> <recordInfo> </recordInfo> </relatedItem>	
	IsPartOf	A reference to a related resource. [DCES] The described Resource is a physical or logical part of the referenced resource. [DCQ]	[none]	Text string or LabeledURI Object	[LocalID:] LostWorlds.rdb0017a.bib	X		773 0_ n 773 0_ o	<relatedItem type="host"> <name> </name> <identifier type="uri"> </identifier> </relatedItem>	
			LocalID	Unique identifier of another record on this collection				773 0_ o	<relatedItem type="host"> <name> </name> <recordIdentifier> </recordIdentifier> </recordInfo> </relatedItem>	
	HasPart	A reference to a related resource. [DCES] The described Resource includes the referenced resource either physically or logically. [DCQ]	[none]	Text string or LabeledURI Object		X		774 0_ n 774 0_ o	<relatedItem type="constituent"> <name> </name> <identifier type="uri"> </identifier> </relatedItem>	
LocalID			Unique identifier of another record on this collection		774 0_ o			<relatedItem type="constituent"> <name> </name> <recordInfo> <recordIdentifier> </recordIdentifier> </recordInfo> </relatedItem>		
Resource-DC.Coverage		The spatial location or temporal duration characteristic of the Resource.	[none]	Text string	Madison, WI	X		500 _ a		Retained in order to accommodate external or legacy data sources which might not specify one of the type qualifiers.
	Spatial	The spatial location characteristic of the Resource.	[none]	Text string	Madison, WI					
			TGN	Text string	Akureyri Ísland Europe					
			LCSH	Text string	Madison, Wis.					
			Declat	Latitude, in decimal degrees	43.00861					
			Declong	Longitude, in decimal degrees	-89.73833					
	PLSS	Township, range, principle meridian, and optional section	T49NR15W							
	Temporal	The temporal duration characteristic of the Resource.	[none]	Text string	Colonial Period					
AAT			Text string	Late Iron Age						
W3C-DTF			YYYY-MM-DD format specified in W3C profile of ISO 8601	1960/1969						
								<subject> <temporal>	Date ranges can be indicated in ISO 8601 format by separating the start and end dates with a forward slash (e.g., July-August 1998 = 1998-07/1998-08).	

Resource-DC.Rights		Information about rights held in and over the Resource. [DCES]	[none]	Text string or LabeledURI Object	Copyright © 2004 Board of Regents of the University of Wisconsin System								
	Ownership	Information about owner of rights held in and over the Resource or Media object.	[none]	Text string or LabeledURI Object		X		540 __ a 856 42 u y				<accessCondition type="useAndReproduction"> </accessCondition> OR <accessCondition type="restrictionOnAccess"> </accessCondition> OR <accessCondition type="rightsOwnership"> </accessCondition>	
	Terms	Information about terms and conditions for use of the Resource or Media object.	[none]	Text string or LabeledURI Object									
			Handle	valid Handle									
Resource-Media		Digital surrogate for Resource	[none]	Media Object			X					<relatedItem type="otherFormat"> </relatedItem>	
Resource-ExtMedia		External digital surrogate for Resource	[none]	ExtMedia Object			X					<relatedItem type="otherFormat"> </relatedItem>	Used when a complex digital object (i.e., having multiple resolutions available) does not follow internally-defined file and directory naming conventions, for instance by being harvested from a remote collection.
Resource-Note		Information about the Resource (or its surrogates) not intended for resource discovery.	[none]	Text string	Source text is partially damaged and illegible. (where <i>Resource</i> is an electronic edition)		X	500 __ a				<extension> <note> </note> </extension>	Used only for Notes not appropriate for other elements such as Description .
Resource-Submitter		Entity submitting the Resource to the Collection	[none]	Submitter Object		X	X	720 __ a e				<extension> <submitter> </submitter> </extension>	
Resource-Update		Date and time of last modification to the metadata	W3C-DTF	YYYY(-MM(-DD)) format specified in W3C profile of ISO 8601	2003-07-01		X					<recordInfo> <recordChangeDate encoding="w3cdtf"> </recordChangeDate> </recordInfo>	Values should be created and maintained by processing applications.

Object: Media

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Data Element						Req/Rep		Crosswalk		Comments
Name	Type	Definition	Scheme	Format	Example	Req	Rep	MARC	MODS	
<i>Resource-ID</i>		Unique identifier (DC.Identifier , LocalID) for Resource		Text string, composed of characters valid for URN Namespace Specific String	NolenMadsn	X			<recordInfo> <recordIdentifier> </recordIdentifier> </recordInfo>	Foreign key from Resource

Media-Sequence-No		Sequencer for Media or ExtMedia object; unique within scope of Resource identified by Resource-ID.		Number: 2 digits, zero-padded.	03	X†			<extension> <mediaString n="?"> </mediaString> </extension>	This should start with 01 for the first Media object for the Resource, and continue in unbroken sequence through the last. If Media objects are added or removed, the sequence must be recalculated. These values may be created during preprocessing.
Media-Base-Path		File system path to all objects of this Media-DC. Format for the parent Collection		Text string: directory names, separated by (and ending with) forward slash (/)	/db/otmap/LostWorlds/htdocs/data/images/	X		856 d Component of 856 u	<extension> <mediaString> <basePath> </basePath> </mediaString> </extension>	Determined dynamically by interface software
Media-Local-Path		File system path to this object, starting from Media-Base-Path		Text string: directory names, separated by (and ending with) forward slash (/)	dobson/04/	X†		856 d Component of 856 u	<extension> <mediaString> <localPath> </localPath> </mediaString> </extension>	This should <i>not</i> include any predefined resolution-specific directories such as thumb, reference, etc.
Media-Object-ID		Object identifier; must be unique within Collection		Text string	db0429a	X		024 500	<extension> <mediaString> <objectID> </objectID> </mediaString> </extension>	
Media-Num-Components		Number of serial components of this object		Number	1				<extension> <mediaString> <numComponents> </numComponents> </mediaString> </extension>	Used for series of media files, when the series <i>taken as a whole</i> represents the Media object; default is "1".
Media-Relative-Size		Relative size (s) available for this object		One of predefined values {i t r l x s h}	r	X	X		<extension> <mediaString> <relativeSize> </relativeSize> </mediaString> </extension>	This refers to a defined (and extensible) set of relative sizes only, not absolute resolutions such as pixel dimensions or sampling rates. In some contexts, multiple values may be separated by a vertical bar (). Used in conjunction with Media-DC.Format to locate appropriate file; defaults are "r" for images and audio.
Media-DC.Format		MIME type of Media object	MIME	Valid MIME Media Type	image/jpeg	X		856 q	<extension> <mediaString> <dc.format> </dc.format> </mediaString> </extension>	Supported types are: <ul style="list-style-type: none"> • application/pdf • audio/mpeg • audio/x-pn-realaudio (sometimes used for Real Video) • image/jp2 (planned) • image/jpeg • video/mpeg • video/quicktime • video/vnd.rn-realvideo Values should be available in application server's mime.types file. Note that in the case of streamed media (including video), the Media object will usually consist of a .ram metafile (audio/x-pn-realaudio).

Media-Label		Display label associated with Media object		Text string	Cover image			856 z	<extension> <mediaString> <label> </label> </mediaString> </extension>	Text should serve to distinguish multiple media objects described by a single Resource record.
Media-DC.Rights		Information about rights held in and over the Media object. [DCES]	[none]	Text string or LabeledURI Object	Copyright © 2001 Board of Regents of the University of Wisconsin System					<p>Note: The only values currently supported at this level are Terms statements with the scheme Handle. Current Handle values are:</p> <ul style="list-style-type: none"> • 1711.policy/UnrestrictedReadAccess • 1711.policy/UWMadisonReadAccess • 1711.policy/UWSystemReadAccess
	Ownership	Information about owner of rights held in and over the Resource or Media object.	[none]	Text string or LabeledURI Object		X		540 __ a 856 42 u y	<extension> <mediaString> <dc.rights> </dc.rights> </mediaString> </extension>	
	Terms	Information about terms and conditions for use of the Resource or Media object.	[none]	Text string or LabeledURI Object						
			Handle	valid Handle						

Object: ExtMedia

		Data Element				Req/Rep		Crosswalk		Comments
Name	Type	Definition	Scheme	Format	Example	Req	Rep	MARC	MODS	
Resource-ID		Unique identifier (DC Identifier , LocalID) for Resource		Text string, composed of characters valid for URN Namespace Specific String	NolenMadsn	X			<recordInfo> <recordIdentifier> </recordIdentifier> </recordInfo>	Foreign key from Resource
ExtMedia-Sequence-No		Sequencer for ExtMedia object; unique within scope of Resource identified by Resource-ID .		Number: 2 digits, zero-padded.	03	X	†			This should start with 01 for the first ExtMedia or Media object for the Resource, and continue in unbroken sequence through the last. If ExtMedia or Media objects are added or removed, the sequence must be recalculated. These values may be created during preprocessing.
ExtMedia-Object-ID		Object identifier; must be unique within Collection		Text string	TuerOldLdn.1	X		024 500		

ExtMedia-DC.Format		MIME type of ExtMedia object	MIME	Valid MIME Media Type	image/jpeg	X		856 q		Supported types are: <ul style="list-style-type: none"> • application/pdf • audio/mpeg • audio/x-pn-realaudio (also used for Real Video) • image/jp2 (planned) • image/jpeg • video/mpeg • video/quicktime Values should be available in application server's mime.types file.
ExtMedia-Derivative		Derivative Object								
ExtMedia-Label		Display label associated with ExtMedia object		Text string	Cover image			856 z		Text should serve to distinguish multiple Media or ExtMedia objects described by a single Resource record.
ExtMedia-DC.Rights		Information about rights held in and over the ExtMedia object. [DCES]	[none]	Text string or LabeledURI Object	Copyright © 2005 Board of Regents of the University of Wisconsin System					Note: The only values currently supported at this level are Terms statements with the scheme Handle. Current Handle values are: <ul style="list-style-type: none"> • 1711.policy/UnrestrictedReadAccess • 1711.policy/UWMadisonReadAccess • 1711.policy/UWSystemReadAccess
	Ownership	Information about owner of rights held in and over the ExtMedia object.	[none]	Text string or LabeledURI Object		X		540 __ a 856 42 <extension> <mediaString> u y <dc.rights> </dc.rights> </mediaString> </extension>		
	Terms	Information about terms and conditions for use of the ExtMedia object.	[none]	Text string or LabeledURI Object						
			Handle	valid Handle						

Object: Derivative

Data Element						Req/Rep		Crosswalk		Comments
Name	Type	Definition	Scheme	Format	Example	Req	Rep	MARC	MODS	
Derivative-Relative-Size		Relative size of this Derivative object		One of predefined values {i t r l x s h}	r		X			This refers to a defined (and extensible) set of relative sizes only, not absolute resolutions such as pixel dimensions or sampling rates. Defaults are "r" for images and audio.
Derivative-DC.Identifier		Location of Derivative object	URL	Valid URL	http://libtext.library.wisc.edu/History/data/images/TuerOldLdn/thumb/001t.gif		X			

Object: LabeledURI

Data Element						Req/Rep		Crosswalk		Comments
Name	Type	Definition	Scheme	Format	Example	Req	Rep	MARC	MODS	
LabeledURI-Label		A brief label describing the target of a URI	[none]	Text string	Historical Primary Sources				*varies	Value will be displayed before the URI it describes, but will not itself be part of link.
LabeledURI-URI		A URI linking to an external resource.	URL	valid URL	http://digital.library.wisc.edu/1711.dl/HistPriSrc	X			*varies	The URI will be both displayed and linked.

Object: Submitter

Data Element						Req/Rep		Crosswalk		Comments
Name	Type	Definition	Scheme	Format	Example	Req	Rep	MARC	MODS	
Submitter-Name		The personal or corporate name of the submitting agency	AACR2	Text string in AACR2/LCNAF form or a form consistent with AACR2/LCNAF practice (for most languages last name, first name, middle initial, dates)	Ringler, Dick University of Wisconsin--Madison. African Studies Program.	X		720 __ a	<extension> <submitter> <name> </name> </submitter> </extension>	
Submitter-Affiliation		The affiliation of the <i>Submitter-Name</i> .	AACR2	Text string in AACR2/LCNAF form or a form consistent with AACR2/LCNAF practice (for most languages last name, first name, middle initial, dates)	University of Wisconsin--Madison. Department of Scandinavian Studies.	X†		720 __ a	<extension> <submitter> <affiliation> </affiliation> </submitter> </extension>	

† when applicable

Key to heading abbreviations

Req	Required
Rep	Repeatable
MARC	Machine-Readable Cataloging record

Key to sizes

For images:

- t Thumbnail
- r Reference
- l Large
- x Extra Large

For sound:

- s Sample
- l Low (resolution, bandwidth, quality...)
- r Reference (esp. for multiple bit-rate streaming)

h High (resolution, bandwidth, quality...)

Note that the same value can have different interpretations, depending on the MIME type.

Contributors

This document is the result of a number of meetings held in the winter and spring of 2001, and subsequent discussions. Participants include:

- Jaqui Alvarez
- Cate Cooney
- Charles Dean
- Sue Dentinger
- Kirstin Dougan
- Mark Foster
- Amy Glassel
- Peter Gorman (chair)
- Lee Konrad
- Amy Rudersdorf
- Mike Simpson
- Rose Smith
- Jamie Woods

References

- [AACR2] Joint Steering Committee for Revision of AACR. *Anglo-American cataloguing rules, second edition* Chicago: American Library Association, 1986. See especially ch. 22, "Headings for Persons", and ch. 24, "Headings for Corporate Bodies".
- [AAT] Getty Research Institute. *Art & Architecture Thesaurus Introductory Page (Getty Vocabulary Program)*
<URL: http://www.getty.edu/research/conducting_research/vocabularies/aat/>
- [DCES] Dublin Core Metadata Initiative. *Dublin Core Element Set, Version 1.1 - Reference Description*
<URL: <http://dublincore.org/documents/dces/>>
- [DCBC] Dublin Core Metadata Initiative. *DCMI Metadata Terms [bibliographicCitation]*
<URL: <http://dublincore.org/documents/dcmi-terms/#bibliographicCitation>>
- [DCQ] Dublin Core Metadata Initiative. *Dublin Core Qualifiers*
<URL: <http://dublincore.org/documents/dcmes-qualifiers/>>
- [DCT1] Dublin Core Metadata Initiative. *DCMI Type Vocabulary*
<URL: <http://dublincore.org/documents/dcmi-type-vocabulary/>>
- [Handle] Corporation for National Research Initiatives. *Handle Syntax*
<URL: <http://digital.library.wisc.edu/4263537/4072>>
- [ISBN] International ISBN Agency. *What is an ISBN*
<URL: <http://www.isbn.spk-berlin.de/html/whatis.htm>>
- [ISSN] ISSN International Centre. *Basic explanations about the ISSN (International Standard Serial Number)*
<URL: <http://www.issn.org/brochure/issnbroc.htm>>
- [ISO639-2] Library of Congress. *Codes for the representation of names of languages (ISO 639-2)*
<URL: <http://www.loc.gov/standards/iso639-2/langcodes.html>>
- [LCSH] Library of Congress. *Library of Congress subject headings* Washington: Library of Congress, 1975-
- [MESH] U.S. National Library of Medicine. *Medical Subject Headings*.
<URL: <http://www.nlm.nih.gov/mesh/meshhome.html>>
- [MIME] Internet Engineering Task Force Working Group on RFC 822 Extensions. *Multipurpose Internet Mail Extensions (MIME) Part Two: Media Types (RFC 2046)*

<URL: <ftp://ftp.isi.edu/in-notes/rfc2046.txt>>

- [TGM] Library of Congress. *LC Thesaurus for Graphic Materials I: Subject Terms (TGM I)*
<URL: <http://www.loc.gov/rr/print/tgm1/>>
- [TGN] Getty Research Institute. *Getty Thesaurus of Geographic Names (Research at the Getty)*
<URL: <http://www.getty.edu/research/tools/vocabulary/tgn/>>
- [URL] Berners-Lee, Tim; Masinter, Larry; McCahill, Mark. *Uniform Resource Locators (URL) (RFC 1738)*
<URL: <http://www.ics.uci.edu/pub/ietf/uri/rfc1738.txt>>
- [URN] Moats, Ryan. *URN Syntax (RFC 2141)*
<URL: <http://www.ietf.org/rfc/rfc2141.txt>>
- [W3C-DTF] Wolf, Misha; Wicksteed, Charles (World Wide Web Consortium). *Date and Time Formats*
<URL: <http://www.w3.org/TR/NOTE-datetime>>