



## A common ALM - format

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## A common ALM - format

### Goal:

To facilitate unified public access to Archive, Library and Museum resources

### Target group:

Not the professional in the ALM domain

### How:

Mapping of selected data from ALM - records to Dublin Core

### Simplicity

As close to the standardized Dublin Core Metadata Element set (ISO15836:2003) as possible

Mapping of 4 domain specific data-formats



## Why a national Danish ALM / DC version ?

- Existing ALM-formats are build on system specific formats
- Inspired by international standards but with national adaptations

- Registration traditions → rules

(the danish libraries generally use cataloging rules based on AACRII and a national adaptation of MARC, in the US and UK its Marc21)



- Developed with a emphasis on the requirements within specific ALM – domain
- Records are
  - Representations of physical items
  - Description of digital item
- How do we maintain the original functionality of the data elements ?
  - Access points
  - Presentation

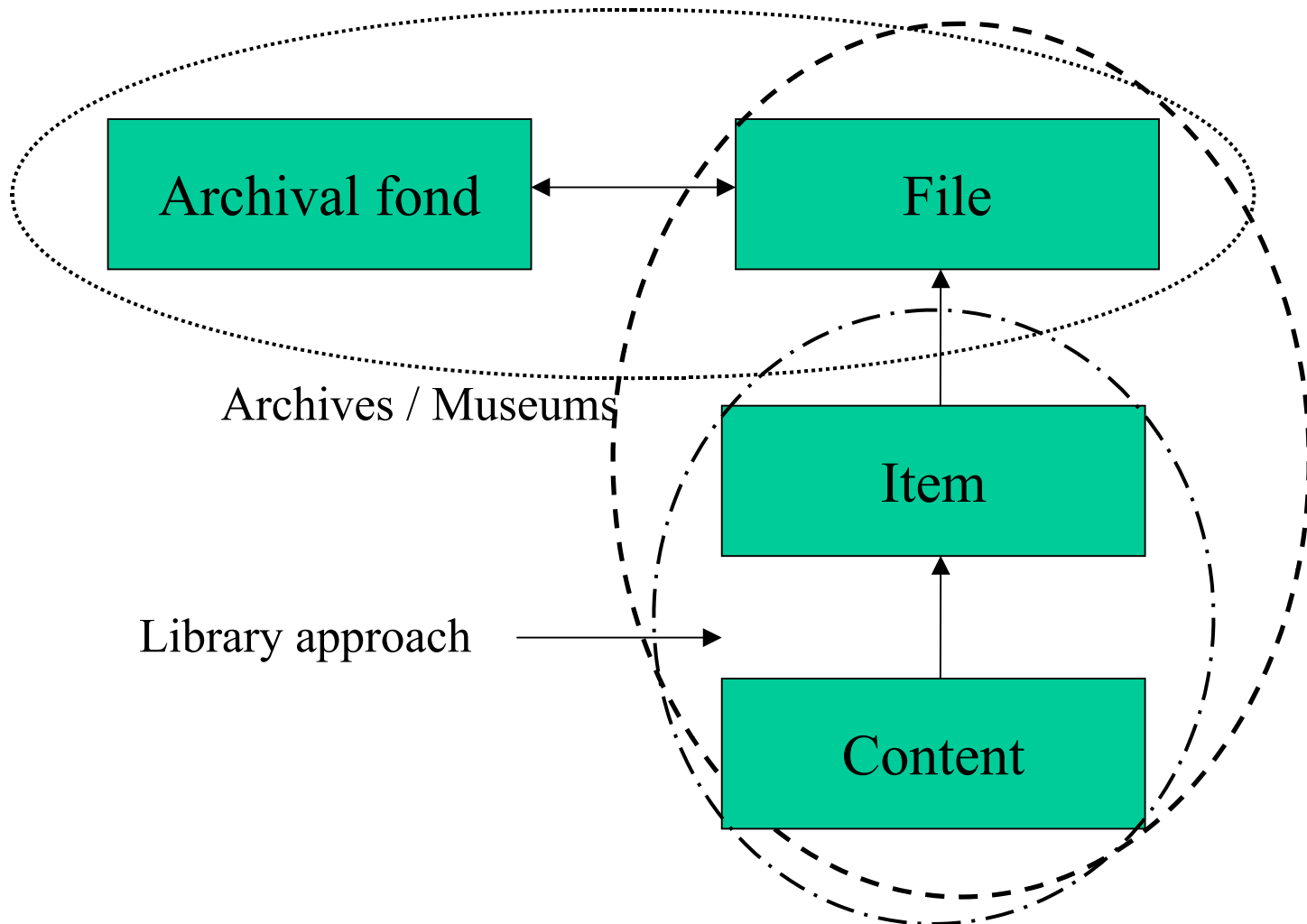


## Outline of a simplistic model

- Collections vs Items
  - Collection-level description
    - Museums / Archives (archival fonds or file approach)
      - » Aggregation of items
  - Item-level description
    - Libraries (AACR2 and Marc)
      - » Registration on item-level
      - » Collections by subject, form or virtual collections



# Model





## ALM Domains

### Archives

#### **Database: Arkibas 4**

Data suppliers: Association of Local Archives (SLA)

Registration format: Database specific

Content: 1.5 million registrations

#### **Database: Daisy**

Data suppliers: Danish State Archives

Registration format: Database specific

Content: 70.000 creators, 400.000 heuristic units, 3 million containers and folders



## ALM Domains

### Libraries

#### **Database: DanBib**

Data suppliers: Public and research libraries, Danish National Bibliography, LC, BL

Registration format: danMARC2

Content: 23.2 million records

### Museums:

#### **Database: Regin**

Data suppliers: Museums of Cultural History

Registration format: Database specific

Content: ??



## Dublin Core

- Basic collection of metadata elements
- Conceived for use by content creators (of internet resources)
- Resource discovery
- Originally developed for description of document-like objects (texts) but DC metadata can be applied to other resources as well
- Interest spreading to archives and museums
  - **ARENA/ADS** (Archaeological Records of Europe - Networked Access/Archaeology Data Service)
  - **CIMI** (Consortium for Computer Interchange of Museum Information)
  - **RSLP** (Research Support Libraries Programme)
  - **NOKS** (Nordjyllands Kulturhistoriske Søgbase)



## Dublin Core

General principles for the Dublin Core when established:

- the core element set can be extended with further elements needed by a particular community
- all elements are optional
- all elements are repeatable
- elements may be modified by qualifiers



## Dublin Core

The Core contains just 15 metadata elements in three groups:

- Content: Title, Subject, Description, Language, Relation, Coverage
- Intellectual property: Creator, Publisher, Contributor, Rights
- Instantiation: Date, Type, Format, Identifier



## Dublin Core

DC Name	Refinements	Definition
Title	Alternative	The name given to the resource
Creator		An entity primarily responsible for making the content of the resource
Subject		The topic of the content of the resource
Description	Table of contents, Abstract	An account of the content of the resource
Publisher		The entity responsible for making the resource available
Contributor		An entity responsible for making contributions to the content of the resource



## Dublin Core

DC Name	Refinements	Definition
Date	Created, Valid, Available, Issued Modified, Date copyrighted Date submitted	A date associated with an event in the life cycle of the resource
Type		The nature or genre of the content of the resource
Format	Extent Medium	The physical or digital manifestation of the resource
Identifier	Bibliographic citation	An unambiguous reference to the resource within a given context
Source		A Reference to a resource from which the present resource is derived



## Dublin Core

DC Name	Refinements	Definition
Language		A language of the intellectual content of the resource
Relation	Is version of, Has version Is replaced by, Replaces Is required by, Requires Is part of, Has part Is referenced by, References Is format of, Has format Conforms to	A reference to a related resource
Coverage	Spatial Temporal	The extent or scope of the content of the resource
Rights	Access rights	Information about rights held in and over the resource



## Record 1 from DanBib

New approaches to the study of religion / edited by Peter Antes, Armin W. Geertz, and Randi R. Warne. - Berlin ; New York : Walter de Gruyter, 2004. - 2 bd.

. - ([Religion and reason](#) ; 42 ; 43)

ISBN: 311017698X

Vol. 1 : Regional, critical, and historical approaches

Vol. 2 : Textual, comparative, sociological, and cognitive approaches

[Adgang via internet](#) (Table of contents)

Emne: [Religion](#) ; [Study and teaching](#) ; [History](#) ; [20th century](#)

LC: BL41, .N49 2005

Lokal klassifikation: 200.71; 22

Includes bibliographical references and index



## Record 1 in MARC format

001 00 \*a 2678644

021 00 \*a 311017698X \*b cloth : alk. paper

245 00 \*a New approaches to the study of religion \*e edited by Peter Antes, Armin W. Geertz, and Randi R. Warne

**248 00 \*g Vol. 1 \*a Regional, critical, and historical approaches \*k 559 s. \*z 311017698X**

**248 00 \*g Vol. 2 \*a Textual, comparative, sociological, and cognitive approaches \*kvi, 497 s. \*z 3110181754**

260 00 \*a Berlin \*a New York \*b Walter de Gruyter \*c 2004

300 00 \*a 2 bd.

440 00 \*a Religion and reason \*v 42 \*v 43

650 00 \*a Religion \*x Study and teaching \*x History \*y 20th century

700 00 \*a Antes \*h Peter \*c 1942-

700 00 \*a Geertz \*h Armin W. \*c 1948-

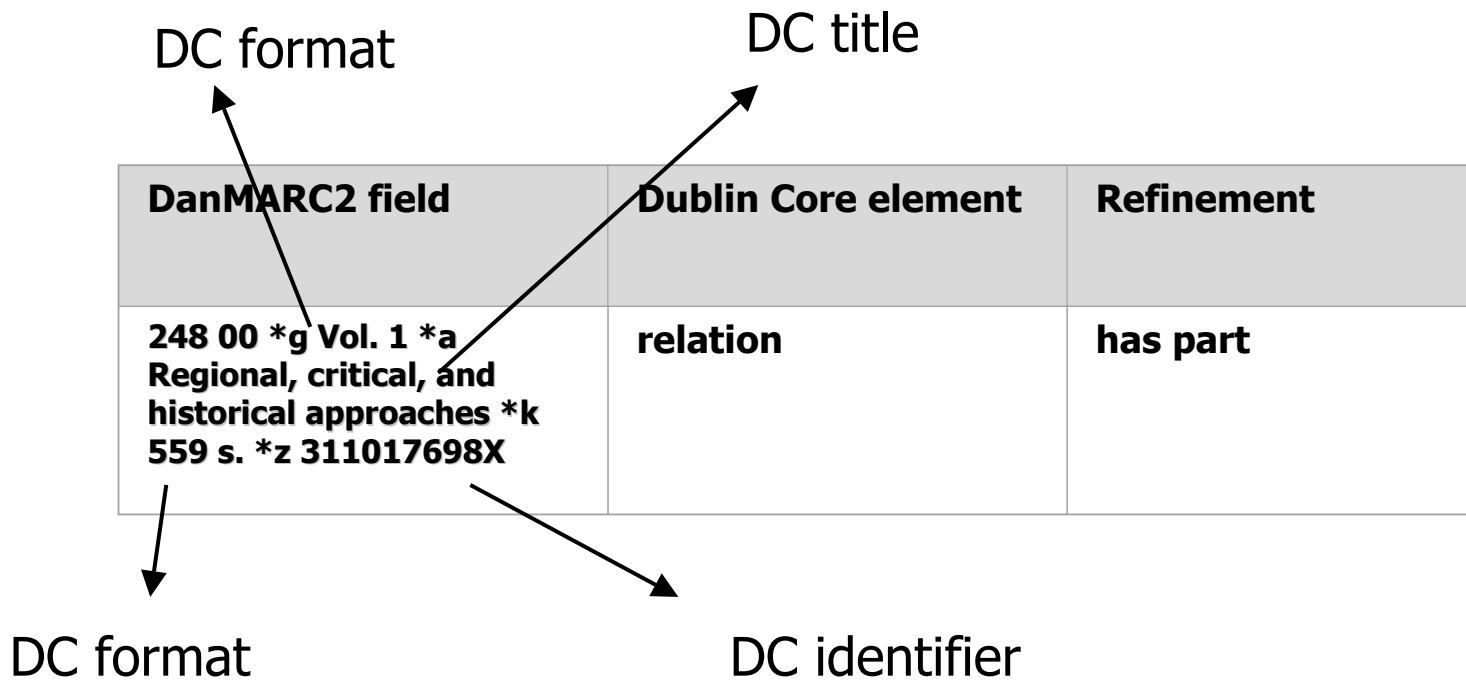
700 00 \*a Warne \*h R. R. \*k Randi Ruth \*c 1952-

856 00 \*3 Table of contents \*u

<http://www.loc.gov/catdir/toc/ecip051/2004022173.html>



# Mapping from danMARC2 to DC





## Record 2 from DanBib

### TIDSSKRIFTSARTIKEL

Constitutional and legal reform in Ireland, 1937-1998 : the American context : an essay in culture and law

[McQuaid, Sarah Dybris](#)

I: Nordic Irish studies. - Vol. 1 (2002). - S. 121-146

[Link til værtspublikation](#)

Emne: [Robinson, Mary](#) ; [Irland](#) ; [USA](#) ; [forfatningsret](#) ; [retsvæsen](#) ; [menneskerettigheder](#) ; [historie](#) ; [1900-1999](#)

DK5: [34.28](#)

Med litteraturhenvisninger



## Record 2 in MARC

001 00 \*a 87390128

**016 00 \*a 49296835**

245 00 \*a Constitutional and legal reform in Ireland, 1937-1998 \*c the American context \*c an essay in culture and law

300 00 \*a S. 121-146

**557 00 \*a Nordic Irish studies \*j 2002 \*z 1602-124X  
\*V Vol. 0001 (2002) \*v Vol. 1 (2002)**

666 00 \*0 \*e Irland

666 00 \*0 \*e USA

666 00 \*0 \*f forfatningsret

666 00 \*0 \*f retsvæsen

666 00 \*0 \*f menneskerettigheder

666 00 \*0 \*f historie

666 00 \*0 \*i 1900-1999

700 00 \*a McQuaid \*h Sarah Dybris



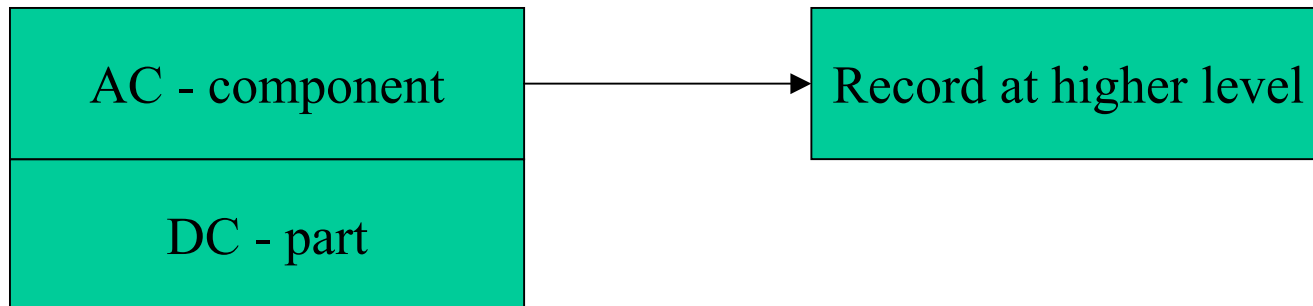
## Mapping from danMARC2 to DC

DanMARC2 field	Dublin Core element	Refinement
<b>016 00 *a 49296835</b>	DC/AC identifier ?	record at higher level ?
<b>557 00 *a Nordic Irish studies *j 2002 *z 1602-124X *V Vol. 0001 (2002) *v Vol. 1 (2002)</b>	relation	is part of



## Administrative Components

- Extension of DC for exchange of records
- "Meta-data about meta-data"





## Records 3, 4 & 5 from DanBib

[Wallace, Patrick F.](#)

The Viking Age buildings of Dublin / Patrick F. Wallace. - Dublin : Royal Irish Academy, 1992. - 2 bind : ill.. - ([Medieval Dublin Excavations 1982-81. Ser A](#) ; vol. 1 (1992))

ISBN: 1-874045-01-1

Opstilling i folkebiblioteker: [91.155](#)

FAUSTNR: 4 352 807 6

Emne: [vikingetiden](#) ; [bygninger](#) ; [arkæologi](#) ; [Irland](#) ; [Dublin](#)

DK5: [91.155](#)

På titelsiden: National Museum of Dublin

**Part 1 : Text.** - xv, 207 sider

FAUSTNR: 4 352 808 4

[Oversigt over hele værket](#)

References: side 114-119

[Wallace, Patrick F.](#)

The Viking Age buildings of Dublin / Patrick F. Wallace. - Dublin : Royal Irish Academy, 1992. - 2 bind : ill.. - ([Medieval Dublin Excavations 1982-81. Ser A](#) ; vol. 1 (1992))

ISBN: 1-874045-01-1

Opstilling i folkebiblioteker: [91.155](#)

FAUSTNR: 4 352 807 6

Emne: [vikingetiden](#) ; [bygninger](#) ; [arkæologi](#) ; [Irland](#) ; [Dublin](#)

DK5: [91.155](#)

På titelsiden: National Museum of Dublin

**Part 2 : Illustrations.** - vii, 215 sider : ill.

FAUSTNR: 4 352 809 2

[Oversigt over hele værket](#)



## Records 3, 4 & 5 in MARC

### **001 00 \*a 43528076**

021 00 \*a 1-874045-01-1

100 00 \*0 \*a Wallace \*h Patrick F.

245 00 \*a The xViking Age buildings of Dublin \*e Patrick F. Wallace

300 00 \*a 2 bind \*b ill.

440 00 \*a Medieval Dublin Excavations 1962-81 \*n Ser A \*v vol. 1 (1992)

512 00 \*a På titelsiden: National Museum of Dublin

666 00 \*f arkæologi

666 00 \*f vikingetiden

666 00 \*e Irland

666 00 \*e Dublin

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001 00 \*a 43528084

### **014 00 \*a 43528076**

245 00 \*g Part 1 \*a Text

300 00 \*a xv, 207 sider

532 00 \*a References: side 114-119

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001 00 \*a 43528092

### **014 00 \*a 43528076**

245 00 \*g Part 2 \*a Illustrations

300 00 \*a vii, 215 sider \*b ill.



## Mapping from danMARC2 to DC

DanMARC2 field	Dublin Core element	Refinement
<b>014 00 *a 43528076</b>	DC/AC identifier ?	record at higher level ?

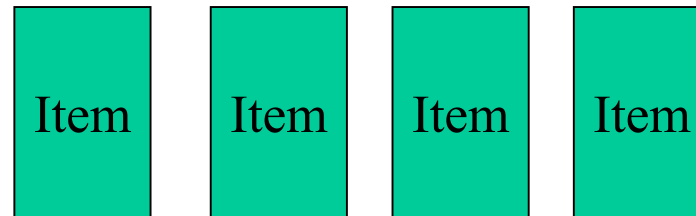


# REGIN / DMI

ID  
Description  
Spatial coverage  
Temporal coverage  
Subject



ID  
Description  
Spatial coverage  
Temporal coverage  
Subject





## REGIN / DMI

**Sag nr. 10/00 :**  
**Div. porcelæn og bøger**

Syltetøjsskål, kande og glas, Raadvad knive i etui, kogebog, manuskript til en bog og julekort lavet som et personligt brev. Alle genstandene er fra o. 1850-1900. Derudover var der en postkvitteringsbog til sagen, denne skal sendes til Bornholm, da den stammer fra Rønne. Til sagen var der også 20 bøger og hæfter. Bøgerne var hovedsageeligt skønlitterære med nogle enkelte sangbøger og et mindehæfte. Disse er nu opstillet på biblioteket. Størstedelen af bøgerne var også fra 1800'tallet. Der kommer muligvis flere genstande til sagen.

[Genstande](#) : 7

File - level

**Genstand nr. 10/00x2**  
**Syltetøjsskål**

Syltetøjsskål fra Bing og Grøndahl. Skålen er indrettet således at forskellige typer syltetøj har sit eget lille holder, i toppen af skålen er der et "krus", der sikkert har kunnet huse skeer eller lign. Skålen er fra mellem 1853-1895..

Periode : 1850-1920 industritid  
Indkomstmåde : passiv indsamling

**Sted/Registrant**

Overgruppe : [Bordstel og borddækning](#) (J03a )

Item - level

**Genstand nr. 10/00x3**  
**Stofetui med 6 Raadvad knive**

Bestiketui i stof med 6 Raadvad knive med porcelænsskaft. Knivene er ikke mærket.

Periode : Ikke angivet  
Indkomstmåde : passiv indsamling

**Sted/Registrant**

Overgruppe : [Bordstel og borddækning](#) (J03a )

Item - level



## REGIN -> DC

**DC.Title =** Div. porcelæn og bøger  
**DC.Description =** Syltetøjsskål, kande og glas, Raadvad knive i etui, kogebog, manuskript til en bog og julekort lavet som et personligt brev. Alle genstandene er fra o. 1850-1900. Derudover var der en postkvitteringsbog til sagen, denne skal sendes til Bornholm, da den stammer fra Rønne. Til sagen var der også 20 bøger og hæfter. Bøgerne var hovedsageeligt skønlitterære med nogle enkelte sangbøger og et mindehæfte. Disse er nu opstillet på biblioteket. Størstedelen af bøgerne var også fra 1800'tallet. Der kommer muligvis flere genstande til sagen.

**DC.Description.TableOfContent =** Syltetøjsskål, Stofetui med 6 Raadvad knive

**DC.Description =** Syltetøjsskål fra Bing og Grøndahl. Skålen er indrettet således at forskellige typer syltetøj har sit eget lille holder, i toppen af skålen er der et "krus", der sikkert har kunnet huse skeer eller lign. Skålen er fra mellem 1853-1895..

**DC.Description =** Bestiketui i stof med 6 Raadvad knive med porcelænsskaft. Knivene er ikke mærket.

**DC.Subject =** Bordstel og borddækning

**DC.Coverage.Temporal =** 1850-1920

**DC.Coverage.Temporal =** Ikke angivet



## REGIN -> DC

- Mapping of a hierarchical structure into a non – hierarchical format
  - multiple resource records
    - » The DC/AC – solution
    - » complex
  - b) single resource record
  - c) cheating ?



## Conclusion

- Extent of loyalty towards the source systems in relation to defined functionality of data
  - Access points
  - presentation
- Extending the Dublin Core element set with administrative meta-data (DC/AC)
  - Identification of origin
  - Linking resource records
  - Complex
- The “one resource record” solution
  - Simple
  - - Presentation (multi-level records)
  - - Identification of access points (multi-level records)



# Litterature

Austin T.[2003] : Dublin Core metadata scheme : ADS interpretation and mapping for the ARENA project partners

<http://ads.ahds.ac.uk/arena/DCmeta.pdf>

Biblioteksstyrelsen [2003] Dansk udvekslingsformat for metadata: DC/AC formatet

[http://www.bs.dk/metadata/dcac\\_udvekslingsformatet.pdf](http://www.bs.dk/metadata/dcac_udvekslingsformatet.pdf)

DCMI [2003] Using Dublin Core – Dublin Core Qualifiers

<http://dublincore.org/documents/usageguide/qualifiers.shtml>

DCMI [2004] DCMI Metadata Terms.

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

Johnston, P.[2003] : The RSLP Collection Description Schema

*Collection Description Focus Briefing Paper, No 2.*

<http://www.ukoln.ac.uk/cd-focus/briefings/bp2/bp2.pdf>

Johnston. P & Robinson B.[2002] : Collections and Collection Description

*Collection Description Focus Briefing Paper, No 1.*

<http://www.ukoln.ac.uk/cd-focus/briefings/bp1/bp1.pdf>