

# Document Markup Language (DML) Specification 1.0

## Abstract

This specification defines the Document Markup Language (DML), a markup language for books, articles, notes and other types of document. DML is normatively available as a [RELAX NG](#) (Appendix A, pg. 24) schema with additional [Schematron](#) (Appendix A, pg. 24) assertions.

## Conventions

The keywords *must*, *must not*, *required*, *shall*, *shall not*, *should*, *should not*, *recommended*, *may*, and *optional*, when emphasized, are to be interpreted as described in [IETF RFC 2119](#) (Appendix A, pg. 24).

- A `monospaced` font is used for code, elements, attributes, tags and value literals.
- An *italic monospaced* font is used for variables.

Element:

(Review) When an element (node with type "`element`") is mentioned in the text with an associated [attribute](#) (pg. 1) it is always showed as a predicate. [Element EBNF definition](#) (pg. 3).

Notation for the `section` element

```
section
section[@role]
```

Attribute:

When an attribute (node with type "`attribute`") is mentioned in the text, it is always preceded by an at-sign (@) and it optionally has an associated value. [Attribute EBNF definition](#) (pg. 3).

### Notation for the @role attribute

---

```
@role  
@role="chapter"
```

---

#### Value:

When a value is mentioned in the text, it is always preceded and followed by an quote ("). [Value EBNF definition](#) (pg. 3).

### Notation for the "chapter" value

---

```
"chapter"
```

---

#### Tag:

When a tag is mentioned in the text, it is always preceded by a less-than symbol (<) and it is followed by a greater-than symbol (>). [Tag EBNF definition](#) (pg. 3).

When a tag is mentioned with some omitted attributes it has an ellipsis symbol (...) preceding greater-than symbol (>).

### Notation for the start tag <section ...>

---

```
<section role="chapter" ...>
```

---

Any element or attribute can be modified by a quantifier modifier as follows:

?

Zero or one time.

+

One or more times.

\*

Zero or more times.

(Review) Therefore, to indicate that an “status” attribute is optional the expression will be `@status?`. Or, if a “section” element is repeatable the expression will be `section+`.

For brevity, throughout this document, assume that the following namespace prefixes have been defined:

"dct"

<http://purl.org/dc/terms/>

"dml"

<http://purl.oclc.org/NET/dml/1.0/>

"rdf"

<http://www.w3.org/1999/02/22-rdf-syntax-ns#>

"xi"

<http://www.w3.org/2001/XInclude>

"xs"

<http://www.w3.org/2001/XMLSchema>

## EBNF<sup>[1]</sup> definitions

(Draft) TODO: define xpath syntax used in children, attribute and parent definitions.

- Element ::= Name ( '[' Attribute ' ] ' ) \*
- Attribute ::= '@' Name ( '=' Value ) ?
- Tag ::= '<' Name ( S Name '=' Value ) \* S ? '...' ? '/' ? '>'
- Name ::= ( [A-Za-z] + ':' ) ? [A-Za-z\_] [A-Za-z0-9\_-.] \*
- Value ::= '"' [^<>"] + '"'
- S ::= ( #x20 | #x9 | #xD | #xA ) +

## Status of this document

This is a *draft* and it may change at any time based on comments and on its development process.

---

<sup>[1]</sup> [W3C notation](http://www.w3.org/TR/REC-xml/#sec-notation) (<http://www.w3.org/TR/REC-xml/#sec-notation>)

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# 1. Elements

(Draft) Add /listing for program listing? in cdm1?

## 1.1. The `abbr` element

The `abbr` element represents an abbreviation or acronym.

Flow

`Inline` (Section 4.3, pg. 23)

Children

```
( $inline[not( abbr )] | text() )+
```

Attributes

```
( $core.attrs* | $meta.attrs* )
```

Parents

```
( $block | $inline[not( abbr )] )
```

The `@content` attribute (Section 3.2, pg. 22) *may* be used to provide an expansion of the abbreviation.

The `@about` attribute (Section 3.1, pg. 22) *may* be used to provide a resource which contains the expanded form.

`@content` and `@about` attributes are mutually exclusive.

### Example 1.1-1: `abbr` element with inline expansion

```
<p>Example of <abbr content="Document Markup Language">DML</abbr>'s abbr element.</p>
```

### Example 1.1-2: `abbr` element with remote expansion

```
<p>Example of <abbr about="http://example.org/glossary#dml">DML</abbr>'s abbr element.</p>
```

## 1.2. The `cell` element

The `cell` element represents a table data container.

Flow

[Table](#) (Section 4.2, pg. 23)

Children

```
( ( example | figure | list | note | p | quote )+ | ( $inline | text() )+ )
```

Attributes

```
( $core.attrs* | $meta.attrs* )
```

Parents

```
( group )
```

## 1.3. The `citation` element

The `citation` element represents a citation reference of a quotation block.

Flow

[Block](#) (Section 4.1, pg. 23)

Children

```
( $inline | text() )+
```

Attributes

```
( $core.attrs* | $meta.attrs* )
```

Parents

```
( quote )
```

## 1.4. The `dml` element

The `dml` element is the root element for a DML document.

Flow

[Block](#) (Section 4.1, pg. 23)

Children

```
( title, $block[not( title | citation )]+ )  
(: this expression is more accurated but necessary? :)
```

```
(
  title,
  $block[not( title | citation | preceding-sibling::section )]+,
  section*
)
```

#### Attributes

```
( $core.attrs* )
```

#### Example 1.4-1: Simple DML document

---

```
<dml xmlns="http://purl.oclc.org/NET/dml/1.0/"
  <title>Simple DML document</title>
  <p>Lorem ipsum dolor sit amet...</p>
</example>
```

---

#### Example 1.4-2: DML document with metadata

---

```
<dml xmlns="http://purl.oclc.org/NET/dml/1.0/"
xmlns:dct="http://purl.org/dc/terms/"
  <title>DML document</title>
  <metadata about="">
    <list>
      <item property="dct:creator">Arnau Siches</item>
      <item property="dct:created">2009-01-02</item>
    </list>
  </metadata>
  <p>Lorem ipsum dolor sit amet...</p>
</example>
```

---

## 1.5. The **em** element

The **em** element represents an emphasized text.

#### Flow

[Inline](#) (Section 4.3, pg. 23)

#### Children

```
( $inline | text() )+
```

#### Attributes

```
( $core.attrs* | $meta.attrs* | @role? )
```

## Parents

( *\$block* | *\$inline* )

The `@role` attribute *may* be used to provide strong emphasized text with "`strong`" value.

---

### Example 1.5-1: Usage of `em` element

---

```
<p>
  <em>Lorem ipsum</em> dolor sit amet, consectetur adipisicing elit, sed do <em
    role="strong">eiusmod tempor incididunt ut labore</em> et dolore magna aliqua.
</p>
```

---

## 1.6. The `example` element

The `example` element represents an example.

### Flow

`Block` (Section 4.1, pg. 23)

### Children

( *title?*, *\$block*[not( `example` | `citation` )]<sup>+</sup> )

### Attributes

( *\$core.attrs\** | *\$meta.attrs\** )

### Parents

( `dml` | `note` | `section` )

---

### Example 1.6-1: Usage of `example` element

---

```
<example xml:id="example-identifier">
  <title>Title of the Lorem Ipsum example</title>
  <p>Lorem ipsum dolor sit amet...</p>
</example>
```

---

## 1.7. The `figure` element

The `figure` element is a figure container; it usually contains an illustration or something to be shown graphically.



Flow

[Block](#) (Section 4.1, pg. 23)

Children

```
( title?, $block[not( example | figure | citation | quote )]+ )
```

Attributes

```
( $core.attrs* | $meta.attrs* )
```

Parents

```
( dml | example | note | section )
```

---

#### Example 1.7-1: Usage of `figure` element

---

```
<figure xml:id="figure-identifier">
  <title>It shown an illustration through a figure element</title>
  <object src="path/to/illustration"/>
</figure>
```

---

## 1.8. The `group` element

The `group` element represents a generic table cell container.

Flow

[Table](#) (Section 4.2, pg. 23)

Children

```
( group+ | title+ | ( title?, cell+ ) )
```

Attributes

```
( $core.attrs* | $meta.attrs* | @role? )
```

Parents

```
( group | table )
```

The `@role` attribute *may* be used to provide a form to refine the `group` element meaning. Allowed values are:

`"header"`

A header table group. Table header *must* be the first child of a `table` element.

"**footer**"

A footer table group. Table footer *must* be child of a **table** element.

## 1.9. The **item** element

The **item** element represents a list item container.

Flow

**Block** (Section 4.1, pg. 23)

Children

```
(  
  ( title*, $block[not( item | title | citation )]+ ) |  
  ( inline | text() )+  
)
```

Attributes

```
( $core.attrs* | $meta.attrs* )
```

Parents

```
( list )
```

## 1.10. The **list** element

The **list** element represents a list of items.

Flow

**Block** (Section 4.1, pg. 23)

Children

```
( title?, item+ )
```

Attributes

```
( $core.attrs* | $meta.attrs* | @role? )
```

Parents

```
( dml | $block[$block[not( self::list )]] )
```

The **@role** attribute *may* be used to define an ordered list with "**ordered**" value.

---

**Example 1.10-1: Simple list**

---

```
<list>
  <item>sugar</item>
  <item>salt</item>
  <item>pepper</item>
</list>
```

---

---

**Example 1.10-2: Ordered list**

---

```
<list role="ordered">
  <item>first</item>
  <item>second</item>
  <item>third</item>
</list>
```

---

---

**Example 1.10-3: List with title**

---

```
<list>
  <title>List title</title>
  <item>first</item>
  <item>second</item>
  <item>third</item>
</list>
```

---

---

**Example 1.10-4: Definition list**

---

```
<list>
  <item>
    <title>Dweeb</title>
    <p>Young excitable person who may mature into a Nerd or Geek.</p>
  </item>
  <item>
    <title>Hacker</title>
    <p>A clever programmer.</p>
  </item>
  <item>
    <title>Nerd</title>
    <p>Technically bright but socially inept person.</p>
  </item>
</list>
```

---

### Example 1.10-5: Definition list with multiple terms and definitions

---

```
<list>
  <item>
    <title>Center</title>
    <title>Centre</title>
    <list>
      <item>A point equidistant from all points on the surface of a
        sphere.</item>
      <item>In some field sports, the player who holds the middle position on
        the field, court, or forward line.</item>
    </list>
  </item>
  <item>
    <title>Color</title>
    <title>Colour</title>
    <p>The property possessed by an object of producing different sensations on
    the eye.</p>
  </item>
</list>
```

---

## 1.11. The **metadata** element

The **metadata** element represents a metadata container.

Flow

**Block** (Section 4.1, pg. 23)

Children

( *\$block+* | *\$inline+* )

Attributes

( *\$core.attrs\** | *\$meta.attrs\** )

Parents

( **dml** | *\$block* | *\$inline* )

(Draft) TODO: examples

## 1.12. The **note** element

The **note** element represents a generic document note or annotation. It *may* be used as a root element in **(Review) DML islands** in non-DML documents.

Flow

[Block](#) (Section 4.1, pg. 23)

Children

```
(  
  ( title?, $block[not( title | note | citation )]+ ) |  
  ( \$inline | text\(\) )+  
)
```

Attributes

```
( \$core.attrs\* | \$meta.attrs\* | @role? )
```

Parents

```
( dml | \$block[$block[not( self::note )]] )
```

The [@role](#) attribute may be used to provide a form to refine the [note](#) element meaning. Allowed values are:

["tip"](#)

A suggestion, tip or trick.

["warning"](#)

An admonition note.

["sidebar"](#)

A note that is isolated from the main narrative flow.

(Draft) [section\[@role="aside"\]](#) or [note\[@role="aside"\]](#) or [@role="sidebar"](#) ...?

["footnote"](#)

A footnote. Footnotes in paged medias usually occur at the end of the page which cite it.

(Draft) TODO: examples

## 1.13. The [object](#) element

The [object](#) element represents a generic embedded media object like images, videos, audio and other types of multimedia files.

Flow

When its parent is an inline element or a block element that only allows inline elements its flow is [inline](#) (Section 4.3, pg. 23), otherwise its flow is [block](#) (Section 4.1, pg. 23).

## Children

( *\$block\** | ( *\$inline* | *text()* )*\** )

## Attributes

( *\$core.attrs\** | *\$meta.attrs\** | *@src* | *@type?* )

## Parents

( *dml* | *\$block* | *\$inline* )

The *@src* attribute *must* be used to provide the URI (*xs:anyURI*) of the resource.

The *@type* attribute *may* be used to provide the mime type of the resource.

The children of the *object* element *must* be used to provide an alternative content if the resource provided by *@src* fails to load.

The alternative content *must* be *inline* or *block* in accordance of the flow of its *object* parent.

---

### Example 1.13-1: Usage of block flow *object* element.

---

```
<figure xml:id="fig-markup-trends">
  <title>Usage of markup language in %</title>
  <object src="markup-trends.svg" type="application/svg+xml">
    <list>
      <item>
        <title>HTML</title>
        <p>98%</p>
      </item>
      <item>
        <title>DocBook</title>
        <p>1%</p>
      </item>
      <item>
        <title>Other</title>
        <p>1%</p>
      </item>
    </list>
  </object>
</figure>
```

---

---

### Example 1.13-2: Usage of inline flow *object* element.

---

```
<p>
  Press the <object src="accept-call-button-icon.svg"/><em>accept
  call</em></object> button to allow an incoming call.
</p>
```

---

## 1.14. The `p` element

The `p` element represents a generic block of text usually a paragraph.

Flow

`Block` (Section 4.1, pg. 23)

Children

```
( $inline | text() )+
```

Attributes

```
( $core.attrs* | $meta.attrs* )
```

Parents

```
( dml | $block[$block] )
```

## 1.15. The `quote` element

The `quote` element represents a generic quotation container.

Flow

When its parent is an inline element or a block element that only allows inline elements its flow is `inline` (Section 4.3, pg. 23), otherwise its flow is `block` (Section 4.1, pg. 23).

Children

```
( $block[not( quote | citation )]+ citation | ( $inline | text() )+ )
```

Attributes

```
( $core.attrs* | $meta.attrs* | @citation? )
```

Parents

```
( dml | $block[not( quote | citation )] | $inline[not( quote )] )
```

The `@citation` attribute *must* be used to provide the URI (`xs:anyURI`) of the resource cited when the flow of `quote` element is *inline*, otherwise *must not* be used.

(Draft)

#### Example 1.15-1: Usage of block flow `quote` element.

```
<section>
  ( ... )
  <quote>
    <p>Lorem ipsum</p>
    <citation>??? <span href="http://some.resource">???</span> ??? </citation>
  </quote>
  ( ... )
</section>
```

(Draft)

#### Example 1.15-2: Usage of inline flow `quote` element.

```
<p>
  ??? <quote citation="http://some.resource">cite</quote> ???
</p>
```

## 1.16. The `section` element

The `section` element represents a generic document section.

Flow

[Block](#) (Section 4.1, pg. 23)

Children

```
( title, $block[not( title | citation )]+ )
```

Attributes

```
( $core.attrs* | $meta.attrs* | @role? )
```

Parents

```
( dml | note | object[parent::$block] | quote[parent::$block] | section )
```

The `@role` attribute *may* be used to provide a form to refine the `section` element meaning. Allowed values are:

`"abstract"`

A summary or statement of the contents of a document.

`"part"`

A part of a book. Parts usually group related chapters in a book.



"chapter"

(Review) A main division of a book.

"appendix"

An appendix in a document. Appendixes usually occur at the end of a document.

(Draft) "header"

(Draft) description ...?

(Draft) "footer"

(Draft) description ...?

(Draft) "toc"

(Draft) description ...?

"license"

(Draft) description ...?

(Draft) TODO: examples

## 1.17. The `span` element

The `span` element has no specific semantic. It is provided as a container of inline content.

Flow

[Inline](#) (Section 4.3, pg. 23)

Children

```
( $inline | text() )+
```

Attributes

```
( $core.attrs* | $meta.attrs* )
```

Parents

```
( $block | $inline )
```

## 1.18. The `sub` element

The `sub` element represents a subscript.

Flow

[Inline](#) (Section 4.3, pg. 23)

Children

```
( $inline | text() )+
```

Attributes

```
( $core.attrs* | $meta.attrs* )
```

Parents

```
( $block | $inline )
```

## 1.19. The `summary` element

The `summary` element is a tabular data summary.

Flow

[Table](#) (Section 4.2, pg. 23)

Children

```
( $inline | text() )+
```

Attributes

```
( $core.attrs* | $meta.attrs* )
```

Parents

```
( table )
```

## 1.20. The `sup` element

The `sup` element represents a superscript.

Flow

[Inline](#) (Section 4.3, pg. 23)

Children

```
( $inline | text() )+
```

#### Attributes

```
( $core.attrs* | $meta.attrs* )
```

#### Parents

```
( $block | $inline )
```

## 1.21. The `table` element

The `table` element represents a table container.

#### Flow

[Block](#) (Section 4.1, pg. 23)

#### Children

```
( title?, summary, group+ )
```

#### Attributes

```
( $core.attrs* | $meta.attrs* | @scope )
```

#### Parents

```
( dml | $block[$block] )
```

The `@scope` attribute *must* be used to provide the primary scope of groups. Allowed values are: `"row"` and `"column"`.

(Draft) TODO: examples

## 1.22. The `title` element

The `title` element represents a header container.

#### Flow

[Block](#) (Section 4.1, pg. 23)

#### Children

```
( $inline | text() )+
```

## Attributes

```
( $core.attrs* | $meta.attrs* )
```

## Parents

```
( dml | $block[$block] )
```

(Draft) TODO: examples

# 2. Core attributes

```
$core.attrs ::= (  
  @class | @dir | @href | @status | @xml:base | @xml:id | @xml:lang  
)
```

These attributes *must not* be repeated in same element.

## 2.1. The @class attribute

The @class attribute provides additional user-specified classification for an element. Value type is `xs:NMTOKENS`.

Any number of elements *may* be assigned the same class name.

## 2.2. The @dir attribute

The @dir attribute specifies the direction of the element and its descendants. Allowed values are:

```
"ltr"
```

Left to right text.

```
"rtl"
```

Right to left text.

## 2.3. The @href attribute

The @href attribute specifies the location of a resource through an URI (`xs:anyURI`).

## 2.4. The `@status` attribute

The `@status` attribute specifies the status of content in the element. Allowed values are:

`"added"`

Added text since last revision.

`"deleted"`

Deleted text since last revision.

`"draft"`

Text work in progress.

`"review"`

Text to evaluate or reevaluate but publishable.

`user-value`

Specific status defined by the users according they publishing process. This value *must* be an `xs:NMTOKEN`.

## 2.5. The `@xml:base` attribute

The `@xml:base` attribute specifies the base URI (`xs:anyURI`) of the element and its descendants. Its value *must* be interpreted according [xml:base W3C recommendation](#) (Appendix A, pg. 24).

## 2.6. The `@xml:id` attribute

The `@xml:id` attribute identifies the unique ID (`xs:ID`) value of the element. Its value *must* be interpreted according [xml:id W3C recommendation](#) (Appendix A, pg. 24).

## 2.7. The `@xml:lang` attribute

The `@xml:lang` attribute identifies the language of the element and its descendants. Its value *must* be interpreted according [XML 1.0](#) (Appendix A, pg. 24).

## 3. Metadata attributes

```
$meta.attrs ::= (  
  @about | @content | @datatype | @property | @rel | @resource | @rev | @typeof  
)
```

These attributes *must not* be repeated in same element.

### 3.1. The @about attribute

The @about attribute provides a *subject* for an RDF triple through an [URI or Safe CURIE](#) (Appendix A, pg. 24).

### 3.2. The @content attribute

The @content attribute provides a machine-readable content for a literal in an RDF triple.

### 3.3. The @datatype attribute

The @datatype attribute provides a datatype of a literal through a [CURIE](#) (Appendix A, pg. 24).

(Draft)

### 3.4. The @property attribute

...?

(Draft)

### 3.5. The @resource attribute

...?

(Draft)

## 3.6. The @typeof attribute

...?

(Draft)

## 4. Flow

### 4.1. Block

### 4.2. Table

<http://www.w3.org/TR/CSS21/tables.html>

### 4.3. Inline

(Draft)

## 5. Relationship with RDFa

...?

(Draft)

## 6. Namespace

<http://purl.oclc.org/NET/dml/1.0>

(Draft)

## 7. Schema

RELAX NG and Schematron references

## Appendix A — Resources

### RELAX NG

- ISO/IEC 19757-2:2008: [Information technology — Document Schema Definition Language \(DSDL\) — Part 2: Regular-grammar-based validation — RELAX NG](http://standards.iso.org/ittf/PubliclyAvailableStandards/c052348_ISO_IEC_19757-2_2008(E).zip) ([http://standards.iso.org/ittf/PubliclyAvailableStandards/c052348\\_ISO\\_IEC\\_19757-2\\_2008\(E\).zip](http://standards.iso.org/ittf/PubliclyAvailableStandards/c052348_ISO_IEC_19757-2_2008(E).zip)). ISO/IEC. 2008.
- [RELAX NG Home page](http://www.relaxng.org/) (<http://www.relaxng.org/>)

### Schematron

- ISO/IEC 19757-3:2006: [Information technology — Document Schema Definition Language \(DSDL\) — Part 3: Rule-based validation — Schematron](http://standards.iso.org/ittf/PubliclyAvailableStandards/c040833_ISO_IEC_19757-3_2006(E).zip) ([http://standards.iso.org/ittf/PubliclyAvailableStandards/c040833\\_ISO\\_IEC\\_19757-3\\_2006\(E\).zip](http://standards.iso.org/ittf/PubliclyAvailableStandards/c040833_ISO_IEC_19757-3_2006(E).zip)). ISO/IEC. 2006.
- [Schematron Home page](http://www.schematron.com) (<http://www.schematron.com>)

### IETF (Internet Engineering Task Force)

- [RFC 2119: Key words for use in RFCs to Indicate Requirement Levels](http://www.apps.ietf.org/rfc/rfc2119.html) (<http://www.apps.ietf.org/rfc/rfc2119.html>). S. Bradner. 1997.
- [RFC 4646: Tags for the Identification of Languages](http://www.apps.ietf.org/rfc/rfc4646.html) (<http://www.apps.ietf.org/rfc/rfc4646.html>). A. Phillips, Ed., M. Davis. 2006.

### xml namespace

- [xml:id Version 1.0](http://www.w3.org/TR/2005/REC-xml-id-20050909/) (<http://www.w3.org/TR/2005/REC-xml-id-20050909/>). N. Walsh, D. Veillard, J. Marsh. 2005.
- [Extensible Markup Language \(XML\) 1.0 \(Fifth Edition\), 2.12 Language Identification](http://www.w3.org/TR/REC-xml/#sec-lang-tag) (<http://www.w3.org/TR/REC-xml/#sec-lang-tag>). T. Bray, J. Paoli, C. M. Sperberg-McQueen, E. Maler, F. Yergeau. 2008.
- [XML Base](http://www.w3.org/TR/2001/REC-xmlbase-20010627/) (<http://www.w3.org/TR/2001/REC-xmlbase-20010627/>). J. Marsh. 2001.

### RDFa

- [RDFa in XHTML: Syntax and Processing](http://www.w3.org/TR/2008/REC-rdfa-syntax-20081014/) (<http://www.w3.org/TR/2008/REC-rdfa-syntax-20081014/>). B. Adida, M. Birbeck, S. McCarron, S. Pemberton. 2008.
- [RDFa Primer](http://www.w3.org/TR/2008/NOTE-xhtml-rdfa-primer-20081014/) (<http://www.w3.org/TR/2008/NOTE-xhtml-rdfa-primer-20081014/>). B. Adida, M. Birbeck. 2008.
- [RDFa in XHTML: Syntax and Processing, CURIE definition](http://www.w3.org/TR/rdfa-syntax/#dt_curie) ([http://www.w3.org/TR/rdfa-syntax/#dt\\_curie](http://www.w3.org/TR/rdfa-syntax/#dt_curie)). B. Adida, M. Birbeck, S. McCarron, S. Pemberton. 2008.
- [RDFa in XHTML: Syntax and Processing, URIorSafeCURIE definition](http://www.w3.org/TR/rdfa-syntax/#dt_urisafecurie) ([http://www.w3.org/TR/rdfa-syntax/#dt\\_urisafecurie](http://www.w3.org/TR/rdfa-syntax/#dt_urisafecurie)). B. Adida, M. Birbeck, S. McCarron, S. Pemberton. 2008.



## Dublin Core Metadata Initiative

- [Dublin Core Metadata Initiative Home page](http://dublincore.org/). (<http://dublincore.org/>)
- [Expressing Dublin Core metadata using HTML/XHTML meta and link elements](http://dublincore.org/documents/2008/08/04/dc-html/) (<http://dublincore.org/documents/2008/08/04/dc-html/>). P. Jhonston, A. Powell. 2008.