

## News Metadata Framework (NMDF)

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## NMDF Goals

- Support a spectrum of needs, from lightweight to heavyweight
- Be highly interoperable, while allowing proprietary "black holes"
- Be easy to understand and use
- Be compact

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## Metadata Values

- Simple values (eg integer, date or string)
- Scheme-code pairs representing a concepts (eg "iso4217" and "USD")
- Structured values (eg <person>)
- Supplementary information
- Labels

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## Simple Values

- <significance>80</significance>
- <created>2005-10-24</created>
- <slugLine separator="-">  
sports-boxing-tyson  
</slugLine>

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## Scheme-Code Pairs

- A scheme is a taxonomy
- It may be very simple (a flat list) or very sophisticated (a thesaurus with typed relationships between nodes)
- Each scheme is identified by a URI

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## Scheme-Code Pairs

- As URIs are long and quite difficult to use in XML, for each scheme URI we define a scheme alias
- For example: "iso4217" →  
"http://www.iptc.org/schemes/iso4217#"

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## Scheme-Code Pairs

- Each node in a taxonomy is represented by a code (eg "3", "USD", "Interview")
- Each node is represented by a URI, obtained by appending the code to the scheme URI, eg:  
`http://www.iptc.org/schemes/iso4217#USD`



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## Scheme-Code Pairs

- QNames are Qualified Names
- Defined by Namespaces in XML
- An example of the QName syntax is "`<news:item>`"
- Unfortunately, we can't use QNames for scheme alias definition as ...



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## Scheme-Code Pairs

- NameStartChar ::= ":" | [A-Z] | "\_" | [a-z] | [#xC0-#xD6] | [#xD8-#xF6] | [#xF8-#x2FF] | [#x370-#x37D] | [#x37F-#x1FFF] | [#x200C-#x200D] | [#x2070-#x218F] | [#x2C00-#x2FEF] | [#x3001-#xD7FF] | [#xF900-#xFDCF] | [#xFDF0-#xFFFD] | [#x10000-#xEFFFF]
- NameChar ::= NameStartChar | "-" | "." | [0-9] | #xB7 | [#x0300-#x036F] | [#x203F-#x2040]



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## Scheme-Code Pairs

- So these are illegal QNames:  
nc:15000000 (sport)  
nc:15001000 (aero and aviation sport)  
nc:15001001 (parachuting)  
nc:15001002 (sky diving)

...



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## Scheme-Code Pairs

- This is why we have adopted CURIEs (Compact URIs)
- `<ns prefix="nc" uri="http://www.iptc.org/NewsCodes#" />`




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## Structured Values

- For example:
- `<person>`  
  `<givenName>Marilyn</givenName>`  
  `<familyName>Monroe</familyName>`  
  `<pic></pic>`  
• `</person>`



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## Supplementary Information

- @creator and @created
- @confidence and @relevance
- @type
- @why
- <title>
- <sameAs> and <childOf>

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## Syntax

```
<subject code="nc:15062000"/>
  creator="..." created="..." type="..."
  confidence="..." relevance="..." why="..."
  <title>...</title>
  <sameAs code="...">
  <childOf code="...">
</subject>
```

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## Grouping Concepts

- Women's+100m+Swimming+Final
- Positive+pre-announcement + Citigroup
- Microsoft's share price + moved up
- the Clintons (Bill + Hillary)

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## Grouping Concepts

```
<subject>
  <bag>
    <bit code="nc:15000002"/>
    <bit code="nc:15062000"/>
  </bag>
  <title>Women's Swimming</title>
</subject>
```

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## Labels

- <title creator="..." created="..." role="..." markup="..." media="..." xml:lang="en">  
The <abbr title="International Press Telecommunications Council">IPTC </abbr>  
(<abbr xml:lang="fr" title="Comité International des Télécommunications de Presse">CITP</abbr>)  
announces major new standard!  
</title>

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## Labels

- The <sup>International Press Telecommunications Council</sup>  
<sup>Comité International des Télécommunications de Presse</sup>  
IPTC (CITP) announces major new standard!

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