

# Standards

In a time of constant change

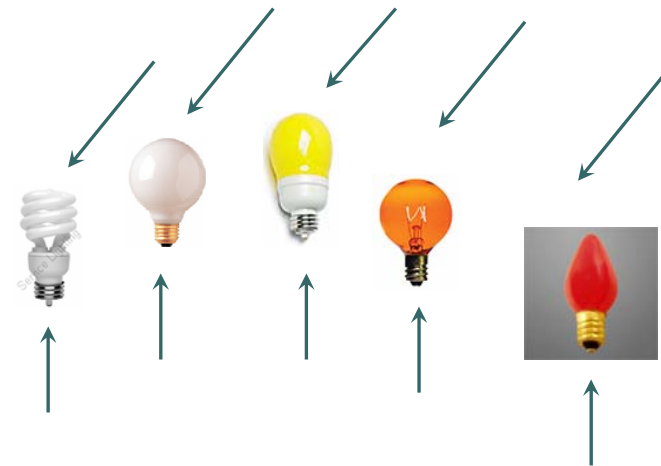
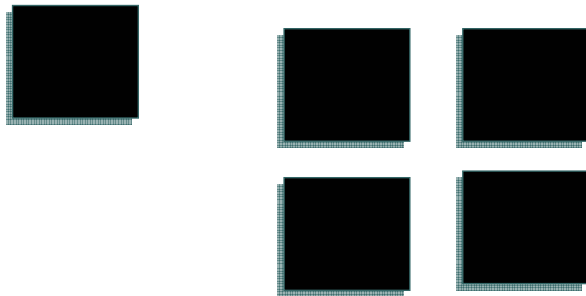
Karen Coyle  
kcoyle@kcoyle.net

"I love standards....

...there are so many to choose from!"

Pat Harris, Executive Director,  
National Information Standards Organization

# STANDARD



## Formal Standards Organizations International



International  
Organization for  
Standardization



## Formal Standards Organizations National



American National Standards Institute



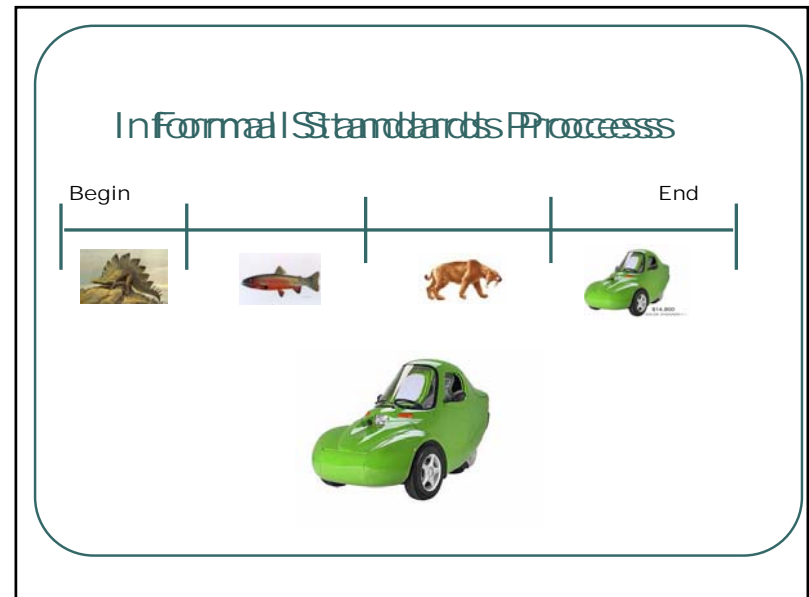
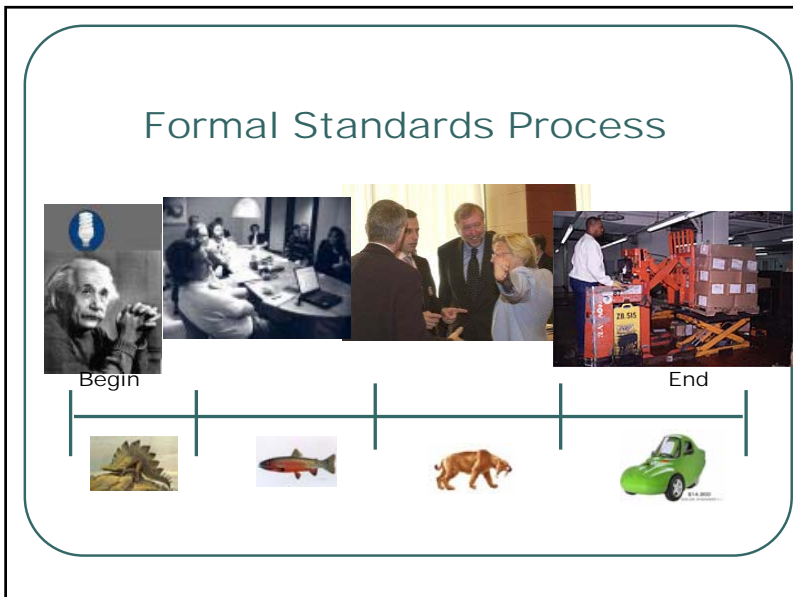
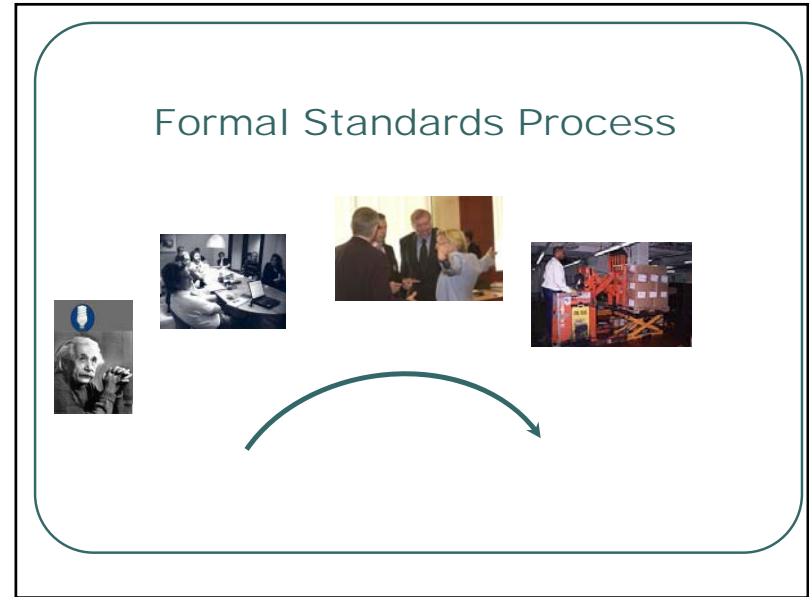
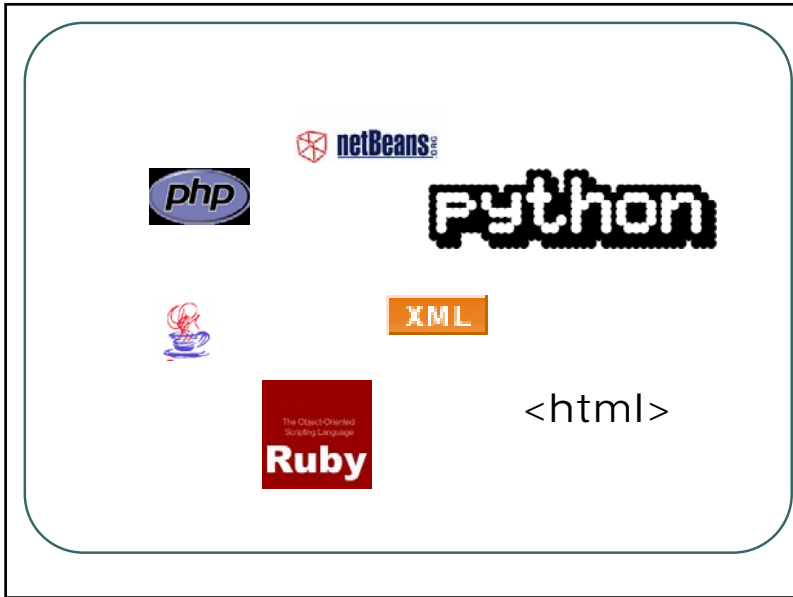
**NISO**

## Industry Standards Organizations



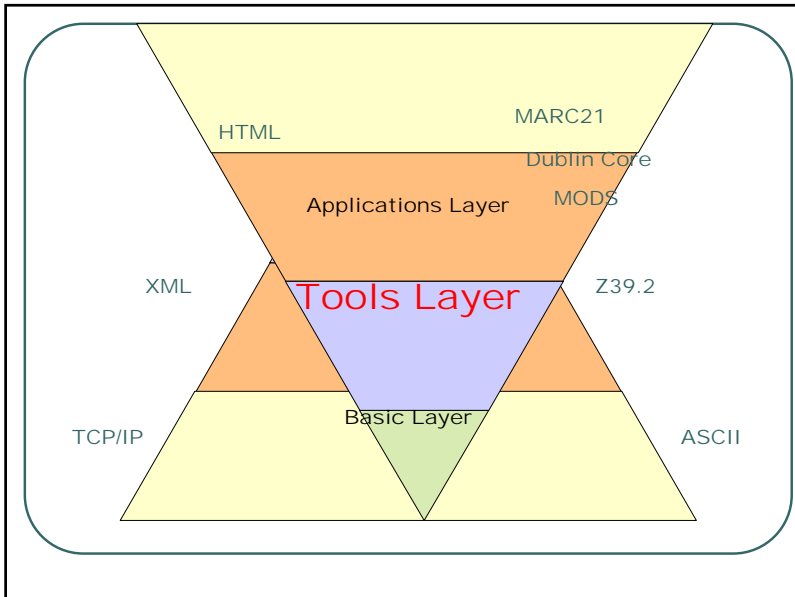
Advancing E-Business Standards Since 1993







Inter•oper•ability



XML - A language tool

Rules:

- <> begins a tag
- </> ends a tag

<title></title>

<title>Moby Dick</title>

## XML - A language tool

### Rules:

<> begins a tag

</> ends a tag

```
<245></245>
```

```
<245>Moby Dick</245>
```

## XML Schema or DTD

My record can have one <mainAuthor>, must have one <mainTitle>, may have none or more <subject> fields.

```
<mainAuthor  
minoccurs=0,  
maxoccurs=1/>
```

```
<mainTitle  
minoccurs=1,  
maxoccurs=1/>
```

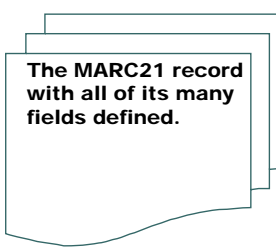
```
<subject minoccurs=0,  
maxoccurs=unbounded/>
```

## Schemas on the Web

schema location: <http://www.loc.gov/bib/schema.1>

```
<mainAuthor>Melville, Herman</mainAuthor>  
<mainTitle>Moby Dick</mainTitle>  
<subject>Whales in fiction</subject>  
<subject>Literature - U.S.</subject>
```

## Profiles



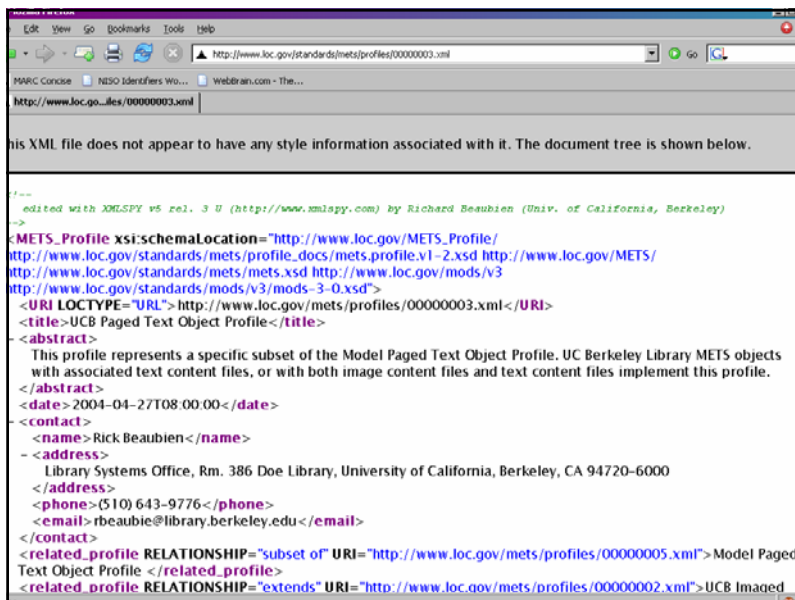
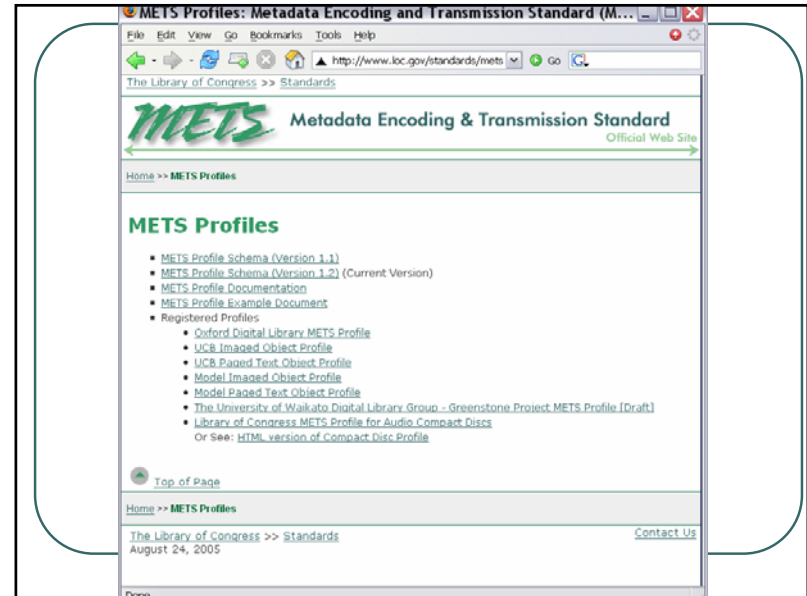
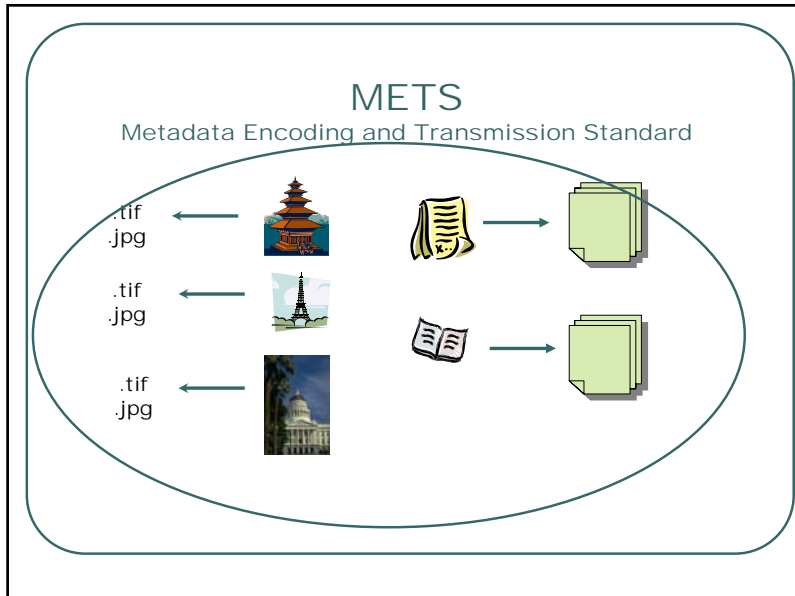
The MARC21 record with all of its many fields defined.



My MARC21 Record with 20 fields.

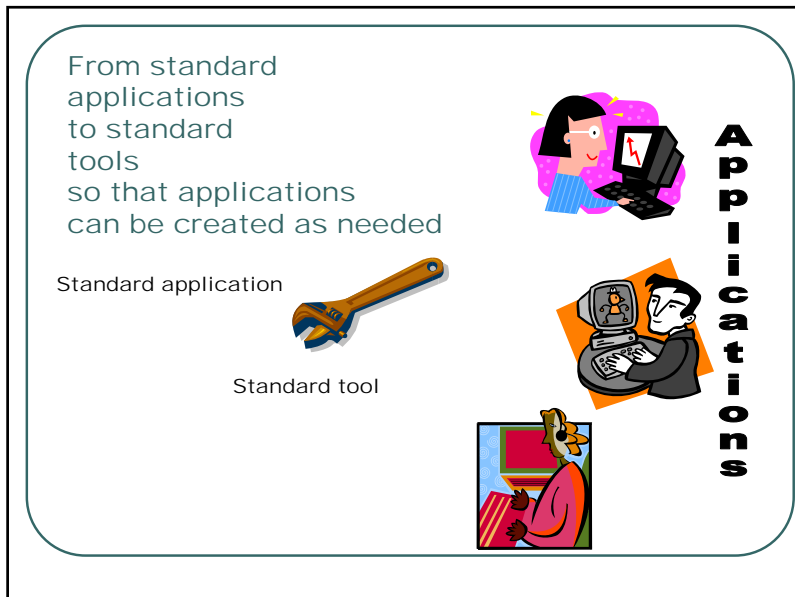
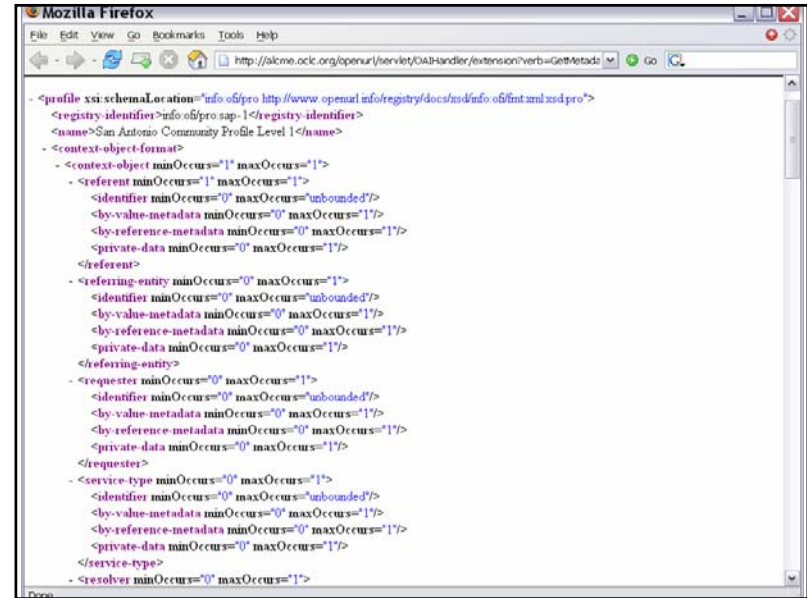
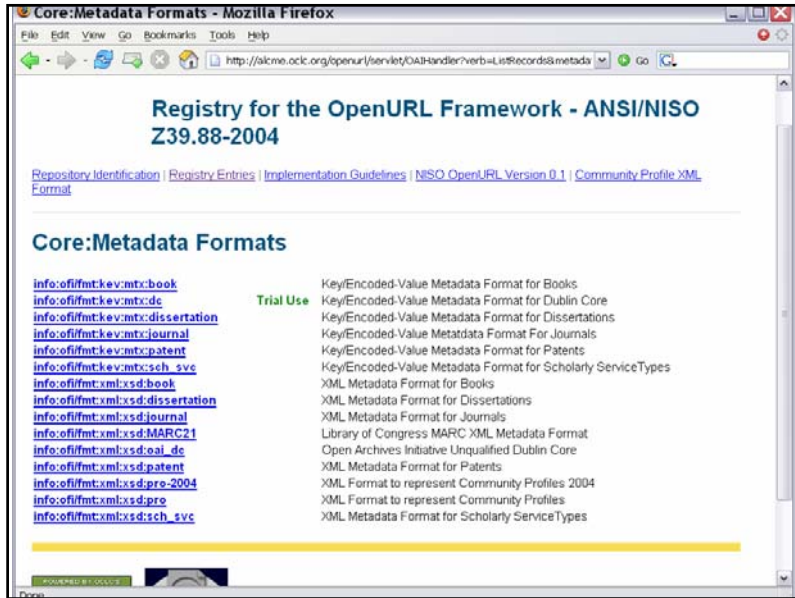
Profiles are often - but not always - subsets

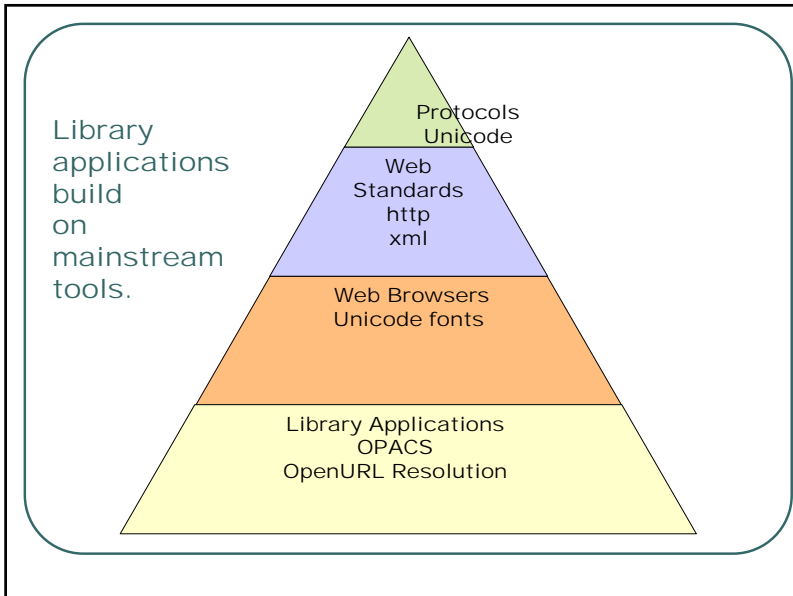
Profiles work best when they are machine-readable



## OpenURL

<h3>OpenURL Registry</h3> <ul style="list-style-type: none"> <li>• ASCII, Unicode</li> <li>• Book, Journal article, MARC21</li> <li>• http, https</li> <li>• k=v, xml</li> <li>• isbn, issn, doi, sici</li> </ul>	<h3>My Profile</h3> <ul style="list-style-type: none"> <li>• ASCII</li> <li>• Journal article</li> <li>• http</li> <li>• k=v</li> <li>• issn, doi</li> </ul>
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Z39.2	MARC
0 to 9 indicator length	2 indicators
0 to 9 subfield code length	1 character subfield code
100 \$last_ Melville \$first Herman	100 \$a Melville, Herman
245 \$title Moby Dick \$subti or the Whale	245 \$a Moby Dick \$b or the Whale





## A New MARC Format

- Modern data format (XML)
- A bibliographic development tool
- Profiles

*Thank You*

<http://www.kcoyle.net>