



XML and “Well-Formedness”

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XML encoding

```
<?xml version="1.0" standalone="yes" ?>
<catalog>
  <entry>
    <canonical_title>Ec yn Fidderlyn</canonical_title>
    <collected_title>Ec yn Fidderlyn</collected_title>
    <text lang="glv">Yes</text><tune>No</tune>
    <singer gender="male">Thomas Kermode</singer>
    <collector>Strachan, John </collector>
    <collector>Henebry, Father Richard</collector>
    <collected date>1896</date>
    <source date>1897</date>
    <place>Man : Rushen : Rushen : Bradda</place>
    <source type="printed"/>
    <reference>ZCP i (1897): 54-58</reference>
  </entry>
</catalog>
```



Root Element

- Every XML instance must have a *root* element

```
<catalog>  
  <entry> ... </entry>  
  <entry> ... </entry>  
</catalog>
```



Elements

- Elements must *nest*
 - `<collector>` must be closed before `<date>` is opened

```
<collector>John Strachan</collector>  
<date>1896</date>
```



Element Names

- Element names are *case-sensitive*
 - <Date> and <date> would be two separate elements



End Tags

- End tags cannot be omitted

`<collector>John Strachan</collector>`

`<collector>Father Richard Henebry</collector>`



Empty Elements

- Empty elements must be *closed*

```
<source type="printed"/>
```



Attributes

- Attributes must be quoted
 - by which is meant the value of the attribute

```
<text lang="glv">Yes</text>
```



Entities

- 3 special characters

- < <
- > >
- & &