

LBSC 690: Week 6
CSS, XML/XSLT



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What's a Document?

- o Content
- o Structure
- o Appearance
- o Behavior

CSS

- o Separating content and structure from appearance
- o Rules for defining styles "cascade" from broad to narrow:
 - Browser default
 - External style sheet
 - Internal style sheet
 - Inline style

Basics of CSS

- o Basic syntax:
`selector {property: value}`
 - HTML tag you want to modify...
 - The property you want to change...
 - The value you want the property to take
- o Example:
`p { text-align: center;
color: black;
font-family: arial }`
Causes
 - Font to be center-aligned
 - Font to be Arial and black

Different Ways for Using CSS

- o Inline style:
 - Causes only the tag to have the desired properties

```
<p style="font-family:arial; color:blue">...</p>
```
- o Internal stylesheet:
 - Causes *all* tags to have the desired properties

```
...  
<head>...  
<style type="text/css">  
p { font-family:arial; color:blue}  
</style>  
</head>  
<body>  
<p>...</p>  
...
```

Customizing Classes

- o Ability to define customized styles for standard HTML tags:

```
...  
<head>...  
<style type="text/css">  
p.style1 { font-family:arial; color:blue}  
p.style2 { font-family:serif; color:red}  
</style>  
</head>  
<body>  
<p class="style1">...</p>  
<p class="style2">...</p>  
...
```

External Style Sheets

- Store formatting metadata in a separate file

mystyle.css

```
p.style1 { font-family:arial; color:blue}
p.style2 { font-family:serif; color:red}
```

```
...
<head>...
<link rel="stylesheet" href="mystyle.css" type="text/css" />
</head>
<body>
<p class="style1">...</p>
<p class="style2">...</p>
...
```

Why Use CSS?

- What are the advantages of CSS?
- Why have three separate ways of using styles?

XML and XSLT

- XML document: contains the content
- DTD (Document Type Definition): defines a well-formed XML document
- XSLT (eXtensible Stylesheet Language Transformations): language for converting one XML document into another