

CSS Review

CSC 242, Web Programming

Cascading Style Sheets (CSS)

- W3C standard for defining the *presentation* of documents written in HTML
- Using style sheets
 - 1 Start with an HTML document
 - 2 Write style **rules** for HTML elements
 - 3 Attach the style rules to the document

CSS Rules

```
/* This is a comment */  
selector {  
  property1: value1;  
  property2: value2;  
  property3: vaule3:  
}
```

- selector: the element to style
- property: the style property
- value: the value of the property

Style Rule Example

```
/*  
This rule changes the font size for paragraph  
elements to small and the text color to green  
*/  
p {  
  font-size: small;  
  color: green;  
}
```

Attaching Style Sheets to the Document

- External style sheets

```
<head>  
  <link rel="stylesheet" href="file.css">  
</head>
```

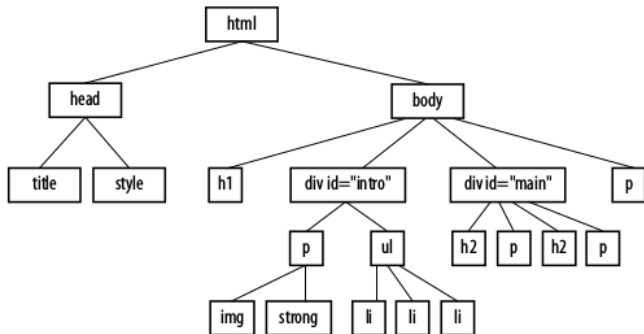
- Embedded style sheets

```
<head>  
  <style>  
    /* rules go here */  
  </style>  
</head>
```

- Inline style (not recommended)

```
<p style="color: green;">...</p>
```

Document Structure and Inheritance



Selectors

- Element selector: targets an element
`element {property: value;}`
- ID selector: targets an element with an id attribute
`#id-name {property: value;}`
- Class selector: targets an element with a class attribute
`element.class-name {property: value;}`
- Descendent selector: target elements that are contained within another element
`e1 e2 {property: value;}`
- Grouped selector: shortcut to groups multiple styles
`e1, e2, e3 {property: value;}`

Pseudo-class Selectors

- Link pseudo-classes
 - `:link` applies a style to an unvisited link
 - `:visited` applies a style to links that have been visited
- User action pseudo-classes
 - `:focus` applies a style when the element is selected
 - `:hover` applies a style when the mouse pointer is over the element
 - `:active` applies a style when the element is in the process of being activated

Conflicting Style Sheet Rules

- A rule in a style sheet lower in this list has higher priority
 - 1 Browser default style
 - 2 User style settings (reader style sheet)
 - 3 Linked external style sheets
 - 4 Embedded style sheets
 - 5 Inline styles
 - 6 Any style marked `!important` by the author
 - 7 Any style marked `!important` by the reader

Specificity

- After style sheet precedence, the specificity of the rule is used
- The following list is from least to most specific:
 - 1 Individual element selectors
 - 2 Descendent selectors
 - 3 Class selector
 - 4 ID selector
- If a conflict remains, the rule defined last is chosen

The Box Model

