

HTML history

- 11 year gap between HTML 4.01 and HTML5!
- there are problems inherent in mixing content and presentation.
- XML (eXtensible Markup Language), which shuffles all the presentation off onto XSLT (XML stylesheets).
- Browsers (particularly IE) were slow to implement full XML/XSLT support. That coupled with resistance from web developers effectively killed the move to XML.
- In practice, splitting content and presentation is accomplished by proper usage of HTML and CSS.

More on Tags

- <hr /> tag (horizontal rule).
 - Adjusting the appearance of a horizontal rule can be done in CSS... (more on this soon!)

The image tag is .

- src (the source file) and alt (a text description of the image).

Tags you've seen!

- `<div>`
 - defines a division or a section in an HTML document.
 - used to group block-elements to format them with styles.

Example (w3schools.com)

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h3>This is a header</h3>
```

```
<p>This is a paragraph.</p>
```

```
<div style="color:#00FF00">
```

```
  <h3>This is a header</h3>
```

```
  <p>This is a paragraph.</p>
```

```
</div>
```

```
</body>
```

```
</html>
```

Output

This is a header

This is a paragraph.

This is a header

This is a paragraph.

Tables!

1	2	3	
4		5	
X	6		7

Easy! (try it!)

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
<html>
  <head>
    <title>Column and Row Spanning</title>
  </head>
  <body>
    <table border="1">
      <tr>
        <td>1</td>
        <td rowspan="2">2</td>
        <td>3</td>
      </tr>
      <tr>
        <td>4</td>
        <td>5</td>
      </tr>
      <tr>
        <td>X</td>
        <td colspan="2">6</td>
        <td>7</td>
      </tr>
    </table>
  </body>
</html>
```

Loads of tags to play with

- Not going to be testing you on them!
- Eventually you will get to know more
- Important point
 - Understand the relationship between HTML tags and CSS

Cascading Style Sheets

- CSS
- Goes into the HTML as

```
<head>  
  <title>MY TITLE! </title>  
  <link rel="stylesheet"  
        type="text/css"  
        href="example-class.css"  
  />  
</head>
```

 - The **href** attribute should point to the css file.
- Rules relate properties to tags in HTML
 - **selector** { properties }

cascading?

- the cascade defines the order of **precedence** for how conflicting styles should be applied
 - p { color: #ff0000; }
 - p { color: #0000ff; }
- conflicted! Which one do you USE?!!
 - What if they were in a different order?
 - For more see <http://www.htmldog.com/guides>

precedence rules (some of)!

- look in the style sheet for a selector matching the element. If there are no defined styles, then use the **default rules** in the browser
- look in the style sheet for selectors marked **!important** and apply those to the appropriate elements.
- if two rules apply to the same element and have the same selector precedence, the one that was loaded **last** will be applied.

Example of a CSS file

```
h1
{
    color: red;
    font-family: Impact;
    text-align: right;
}

ul
{
    list-style-type: square;
    font-family: Comic Sans MS;
}

hr
{
    color: green;
    background-color: green;
    width: 60%;
    height: 8px;
}
```

OTHER selectors!

- HTML tags can be selectors
- You can also define your own selectors in the form of **Class** and **ID** selectors.
 - Class start with .
 - ID start with #

```
#top {  
    background-color: #ccc;  
    padding: 1em  
}
```

```
.intro {  
    color: red;  
    font-weight: bold;  
}
```

Example

```
<div id="top">
```

```
<h1>Chocolate curry</h1>
```

```
<p class="intro">This is my recipe for making  
curry purely with chocolate</p>
```

```
<p class="intro">Mmm mm mmmmm</p>
```

```
</div>
```

Difference?

- an ID can be used to identify one element,
- a class can be used to identify more than one
- Can get tricky!
 - p.jam { whatever }
 - will only be applied to *paragraph* elements that have the class 'jam'.

Loads you can do...

```
.red  
{  
    color: red;  
}
```

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/  
html4/strict.dtd">  
<html>  
    <head>  
        <title>CSS Class Example</title>  
        <link rel="stylesheet" type="text/css" href="example-class.css" />  
    </head>  
    <body>  
        <div class="red">Here's a little text from class red.</div>  
    </body>  
</html>
```


Shows on a webpage as...

Here's a little text from class red.

Colour

- CSS brings 16,777,216 colours to your disposal
 - They can take the form of a **name**, an **rgb** (red/green/blue) value or a **hex** code.
 - We can adjust the color of any element using the [color property](#).
 - Similarly, you can adjust the color of the background with the [background-color property](#).
- You can find colour pickers online to help!

Font

- There are a number of font properties which can be adjusted with CSS.
- You can list multiple fonts
 - The browser will try to use the first font in the list that is available on the user's machine.
- You can adjust the size of text with font-size

[http://www.w3schools.com/cssref/
pr_font_font-size.asp](http://www.w3schools.com/cssref/pr_font_font-size.asp)

Hungry for more!?

- Start here!<http://www.htmldog.com/guides/> (others??!)

[HTML Beginner Tutorial - A step-by-step tutorial to HTML basics. If you're completely new to web design, start here.](#)

[CSS Beginner Tutorial - A step-by-step tutorial to CSS basics. Go here if you're comfortable with basic HTML.](#)

[HTML Intermediate Tutorial - Some HTML bits-and-bobs that might be useful to beginners and advanced HTMLers alike.](#)

[CSS Intermediate Tutorial - Various odds-and-sods building on the basics of CSS.](#)

[HTML Advanced Tutorial - Pushing HTML to its full standards-compliant, accessible potential.](#)

[CSS Advanced Tutorial - Exploiting the versatile depths of CSS.](#)