University of Technology Facily of Information Technology	So where are we at?
31268 Web Systems Week 5 The Web and HCI	Web page development • HTML/XHTML • CSS: Cascading Style Sheets Web applications • Online media and file sharing • Communications • Search engines Human Computer Interaction • History of the Internet • Security and encryption
31268 – Web Systems 1	31268 - Web Systems 2
Problem with HTML	Structure and Presentation
 HTML defines both Structure and Presentation of web pages eg: Structural tags: head> <div> <a></div> eg: Presentation tags: <h3> <center> </center></h3> Best to separate structure from presentation. Why? more device types (eg: mobile) different rendering of pages (eg: Printing) accessibility (eg: Text to voice) 	 Structure: defines the components and areas on the page. eg: top of page, middle section, footer welcome blah blah blah blah
 Style Sheets and HTML Presentation	Definition From W3C:- Cascading Style Sheets (CSS) is a simple mechanism for adding style (e.g. fonts, colors, spacing) to Web documents. It is how we achieve the outcome of separating style from structure. CSS allows us to define the behaviour of each tag or container for our content.
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Who's responsible for them?	What does it look like?
• The W3C (<u>www.w3.org</u>) is responsible for defining many web standards and CSS is one of them.	A set of rules defining how elements are to be presented. The rules are set out as follows:
 • CSS 1 and CSS 2 have been released and version 3 is being finalised • Most browsers follow the standards as best they can but there are subtle differences. 	<pre>selector { property: value; property: value; } </pre>
What is each rule is applied to?	What is each rule is applied to?
 4 types of selectors available to us: 1. tag this can be for any HTML tag In stylesheet: p {color: yellow; } In HTML: this paragraph is yellow 2. #id this can be for a particular element of our page. Starts with a # symbol In stylesheet: #myYellow { color: yellow; } In HTML: this para is yellow 	 3class allows us to apply a style to a given group of elements In stylesheet: .yellowPara { color: yellow; } In HTML: this para is yellow 4. inline Effectively hardcoding a style in an element without a stylesheet. In HTML: this para is yellow →you should avoid this technique where possible.
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We need some more flexibility	How to implement CSS
 Sometimes we want to divide our page into sections with different styles. Use the following tags: <div> apply style to elements that need to be separated from each other. Meet browners put a line brook berg. </div> 	 4 ways in which CSS can be included in your page: 1. Imported – adding the contents of an external CSS file to another set of CSS rules. – Stylesheet: @import url(/css/mystyle.css) – HTML: only within in <style> tags </td></tr><tr><td> other. Most browsers put a line break here. apply a different style to part of your content inline without any line breaks e.g: this is inline styles. this is inline styles </td><td> 2. Linked – an external CSS file included in the head of the page ** BEST WAY ** Stylesheet: this just contains the styles. HTML: <link rel="stylesheet" href="/css/mystyle.css" type="text/css"> </td></tr><tr><td>31268 – Web Systems 11</td><td>31268 – Web Systems 12</td></tr></tbody></table></style>



Summary

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- Cascading Style Sheets allows us to separate the structure of a page from it's presentation.
- We saw 4 selector types tag, id, class and inline
- We saw 4 ways of implementing CSS imported, linked, embedded and inline
- Next week we will cover web applications and start on some networking
- Week 7 will be an online multi-choice exam. DON'T MISS YOUR TUTORIAL!!!