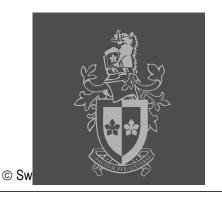


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COS10026 Computing Technology Inquiry Project

Lecture 5 CSS 2 – CSS Properties



Topics

CSS properties define which aspect of the selected HTML element will be changed or styled



- □Size
- □ Color
- □Typography
- □List
- □ Display and Alignment

CSS: Property Groups

- Animation
- Background
- **Border and outline**
- Box
- Color
- Content Paged Media Margin
- Dimension
- Flexible Box
- **Font**

- Generated content
- Grid
- Hyperlink
- Linebox
- List
- Marquee
- Multi-column
- Padding

- Paged Media
- Positioning
- Print
- Ruby
- Speech
- Table
- Text
- 2D/3D Transform
- Transition
- User-interface

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Size measurement

■ Relative is used for styling screen webpages

e.g. h1 { letter-spacing: .5em; }

Unit	Abbr	Description	Example
EM	em	Height of the current font's default size	p {padding: 2em;}
Percentage	%	Works like em, where 100% is the default font size	p {line-height: 100%;}
Ex	ex	Height of letter x in the current font	p {margin: 25ex;}
Pixel	рх	Pixel size of screen	p {font-size: 12px;}

Avoid units absolute or print measurements:

cm, in, mm, pt

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Color

■ We can specify **color**: in the following four basic ways:

Format	Description and Examples		
name	Colour names . There are 16 basic colours (from the Windows VGA palette) Many others are now accepted by popular browsers, but best to use 'hex' colors.		
	<pre>h1 {color: red} p {color: green}</pre>		
#rrggbb or #rgb	Red, green and blue values in hexadecimal format Written in "hex' format in 6 or concise 3 character versions. Colour values between 00 and FF (or 0 and F)		
	hr {color: #FF0000} /* red */ td {color: #00F} /* blue concise format - saves bandwidth */		
rgb(r,g,b)	rgb (red,green,blue) values in decimal with the rgb () command. Units between 0 and 255		
	.info {color: rgb(255,0,255); } /* purple info class */		
rgb (r%,g%,b%)	rgb (red,green,blue) values in percentage units with the rgb () command. Unit values between 0% and 100%.		
	em {color: rgb(100%,0%,100%); } /* purple emphasised text */		

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□Typography

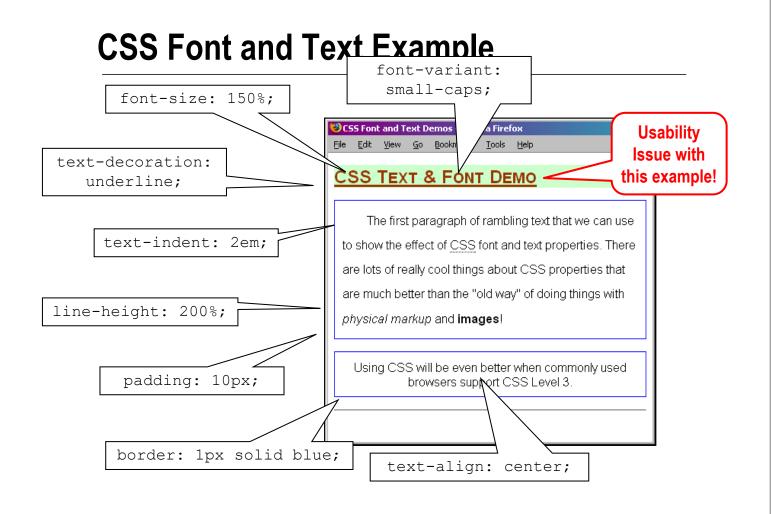
□List

□ Display and Alignment

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CSS Font and Text Example

<body> <h1>CSS Text & amp; Font Demo</h1> The first paragraph of rambling text that we can use to show the effect of <abbr title="Cascading Style" Sheets">CSS</abbr> font and text properties. There are lots of really cool things about CSS properties that are much better than the " old way " of doing things with physical markup and images! Using CSS will be even better when commonly used browsers support CSS Level 3 😂 CSS Font and Text Demos - Mozilla Firefox <hr /> <u>File Edit View Go Bookmarks Tools Help</u> </body> </html> **CSS Text & Font Demo** The first paragraph of rambling text that we can use to show the effect of CSS font and text properties. There are lots of really cool things about CSS properties that are much better than the "old way" of doing things with physical markup and images! Using CSS will be even better when commonly used browsers support CSS Level 3.



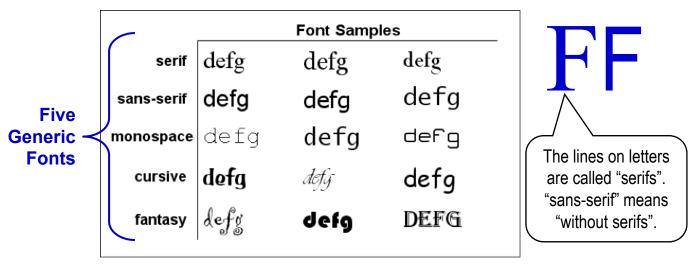
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CSS Font and Text Example – Family, Colour, Spacing

```
grouping selector h1, p
h1, p { font-family: Arial, Helvetica, sans-serif; }
                                                                element selector h1
/* shows the "block" in a background color */
h1 { background-color: #CCFFCC; color: #993300; }
                                                                    It would be better
/* percentage of the "normal" text size */
                                                                    if these rules
h1 { font-size: 150%; }
/* note that the h1 content is NOT in CAPITALS! Cool!*/
                                                                    were grouped
h1 { font-variant: small-caps; }
                                                                    into one rule.
/* not good - confuses users - they think it's a hyperlink! */
h1 { text-decoration: underline; }
                                                      class selector
                                                                    .intro
p.intro { line-height: 200%; }
/* "em" units will scale nicely with font size! */
p.intro { text-indent: 2em; }
/* note border values. padding between text and border */
                                                              element selector p
p { border: 1px solid blue; padding: 10px; }
/* only effects the #tag element */
                                                  id selector #tag
#tag { text-align: center;}
```

CSS: Generic & Specific Fonts

- A **specific font** is a font such as "Times New Roman", "Arial", or "Garamond". Specific fonts are installed on a user's computer, so availability depends on the user's machine.
- A *generic font* refers to the font's general appearance such as: "serif", "sans-serif", "monospace", "cursive" or "fantasy".



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CSS Font Family

To specify the font, we use the **font-family** property. Example:

```
p {
    font-family: Verdana;
```



Any font names containing characters such as whitespace, font must be quoted. eg. "Times New Roman"

■ If you specify a "specific font" a user might not have it on their device, so you may list alternatives, and should include a final "generic font"

```
The preferred specific font

Alternative specific font

Alternative specific font

Validation Warning if no generic font

A "generic font" alternative
```

■ Fonts can also be downloaded using @font

```
@font-face {
  font-family: myfont;
  src : url("http://www.allfont.com/myfont.ttf");}
```

CSS Font Properties

```
font-size:
   xx-small, x-small, small, medium, large, x-large,
     xx-large, smaller, larger, [length], [%]
font-style:
   normal, italic, oblique
■ font-weight:
   normal, bold, bolder, lighter, [100,200, 400, ...,
     9001
■ font-variant:
   normal, small-caps
font-stretch:
   normal, wider, narrower, ultra-condensed,
     extra-condensed, condensed, semi-condensed,
     semi-expanded, expanded, extra-expanded, ultra-
                                    red = default values
     expanded
■ line-height:
   normal, [number], [length], [%]
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```

CSS Font Property

p {

}

■ We can write several font-properties in a shorthand, single declaration, format:

```
font: [style] [variant] [weight] size [/line-height] family

□ size and family values are required

□ The values in square brackets [] are optional.

□ The first three values can be specified in any order

□ /line-height, if used, must come straight after size

■ Example:
```

font: italic normal bold 10pt/14pt Helvetica, sans-serif;

Text Shadow

■ text-shadow: adds shadow to text

```
Blur
          Horizontal
                        Vertical
                                              Shadow
          Shadow
                        Shadow
                                    Radius
                                              Color
h1 {
    text-shadow: 5px
                          2px
                                  Зрх
                                         red;
}
h1 {
    text-shadow: 10px 20px 5px green; CSS
```

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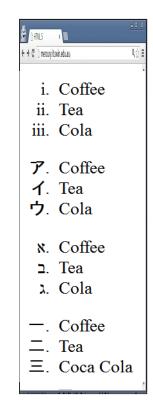


□Display and Alignment

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Creating List styles with CSS

•	list-style-type: none disc circle square decimal decimal-leading-zero lower-roman upper-roman lowe greek lower-alpha lower-latin
	□ ul.a {list-style-type:lower-roman;}
	□ ul.b {list-style-type:katakana ;}
	□ ul.c {list-style-type:hebrew;}
	□ ul.d {list-style-type:cjk-ideographic;}
	list-style-image: none <url></url>
	□ list-style-image : url("spade.gif");
	list-style-position : inside outside;
	□ list-style-position : inside;
	list-style : [type] [position] [image];
	□ list-style : lower-alpha inside;



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Display: block, inline, inline-block

display: inline block list-item inline-block table in table-row-group table-header-group table-footer-group table-column table-cell tall none	oup table-
 display: block used to change an inline element to a block level element, 	Useful for aligning
display: inline used to change a block level element to an inline element	menu items horizontally
(ITTIVIE tubico are officially for tubular data)	n might want some ts in a small layout
m diament name	
http://css-tricks.com/almanac/properties/d/display/ © Swinburne	e University of Technology

CSS: Inline Text Alignment, and other properties

■ The text-align CSS property describes how inline content like text is aligned within its parent block element. text-align does not control the alignment of block elements, only their inline content.
 ■ text-align: left | right | center | justify;
 □ text-align: center;
 □ Justify is not supported by all browser
 ■ text-indent: <value>; (indents first line of paragraph) default is 0
 □ text-indent: -2em;
 □ text-indent: -2em; (for hanging indent)
 ■ line-height: normal | <value>;
 □ line:-height: 150%; (1.5 spacing assuming font size is normal)
 ■ text-decoration: none, underline, overline, line-through

Also see CSS3 text-decoration:

http://www.w3.org/TR/css-text-decor-3/

'underline' is default for

'a' element

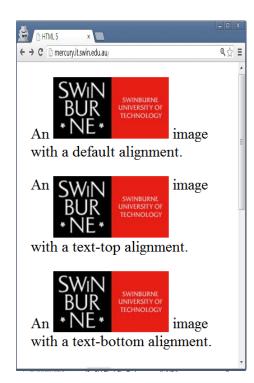
CSS: Inline Alignment of Graphics with Text

```
An <img src="logo.jpg" alt="SUT" width="120"
height="64" />
image with a default alignment.
An <img class="top" src=" logo.jpg"
alt="SUT" width="120" height="64" />
image with a text-top alignment.
An <img class="bottom" src=" logo.jpg"
alt="SUT" width="120" height="64" />
image with a text-bottom alignment.

All = "SUT" width="120" height="64" />
image with a text-bottom alignment.
```

```
css
img.top {
    vertical-align:text-top;}

img.bottom {
    vertical-align:text-bottom;}
```



vertical-align: baseline | sub | super | top | text-top | middle | bottom | text-bottom

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