

**CS 683 Emerging Technologies
Fall Semester, 2004
Doc 3 CSS
Contents**

References	2
Some Properties & Values	3
Colors	3
Lengths.....	4
Border.....	6
Margins.....	10
Backgrounds	11
Fonts	12
Text	16

Copyright ©, All rights reserved. 2004 SDSU & Roger Whitney, 5500 Campanile Drive, San Diego, CA 92182-7700 USA. OpenContent (<http://www.opencontent.org/opl.shtml>) license defines the copyright on this document.

References

Cascading Style Sheets, level 2 revision 1 CSS 2.1

Specification

<http://www.w3.org/TR/CSS21/>

Some Properties & Values

Colors Named Colors

aqua,	black,	blue,	fuchsia,
gray,	green,	lime,	maroon,
navy,	olive,	orange,	purple,
red,	silver,	teal,	white,
yellow			

RGB values

```
em { color: #f00 }          /* #rgb */  
em { color: #ff0000 }        /* #rrggbb */  
em { color: rgb(255,0,0) }  
em { color: rgb(100%, 0%, 0%) }
```

For color details see:

<http://www.w3.org/TR/CSS21/syndata.html#value-def-color>

Lengths

Relative Units

- **em**: the 'font-size' of the relevant font
- **ex**: the 'x-height' of the relevant font
- **px**: pixels, relative to the viewing device

```
h1 { margin: 0.5em } /* em */  
h1 { margin: 1ex } /* ex */  
p { font-size: 12px } /* px */
```

Absolute Units

- **in**: inches — 1 inch is equal to 2.54 centimeters.
- **cm**: centimeters
- **mm**: millimeters
- **pt**: points — the points used by CSS 2.1 are equal to 1/72th of an inch.
- **pc**: picas — 1 pica is equal to 12 points.

```
h1 { margin: 0.5in } /* inches */  
h2 { line-height: 3cm } /* centimeters */  
h3 { word-spacing: 4mm } /* millimeters */  
h4 { font-size: 12pt } /* points */  
h4 { font-size: 1pc } /* picas */
```

For more detail see:

<http://www.w3.org/TR/CSS21/syndata.html#length-units>

Percentages

```
p { font-size: 10px }  
p { line-height: 120% } /* 120% of 'font-size' */
```

Border

A Border has

- Color
- Width
- Style

Details at:

<http://www.w3.org/TR/CSS21/box.html#border-properties>

Width

Values

- thin
- medium
- thick
- <length>

```
p
{
    border-color: black;
    border-top-width: 1pt;
    border-right-width: 2pt;
    border-bottom-width: thin;
    border-left-width: thick;
    border-style: solid;
```

```
}
```

```
p
{
    border-color: black;
    border-style: solid;
    border-width: 1pt 2pt thin thick;
```

```
}
```

Border Style

Values

- **none**
No border; the border width is zero.
- **hidden**
Same as 'none', except in terms of [border conflict resolution for table elements](#).
- **dotted**
The border is a series of dots.
- **dashed**
The border is a series of short line segments.
- **solid**
The border is a single line segment.
- **double**
The border is two solid lines. The sum of the two lines and the space between them equals the value of 'border-width'.
- **groove**
The border looks as though it were carved into the canvas.
- **ridge**
The opposite of 'groove': the border looks as though it were coming out of the canvas.
- **inset**
The border makes the box look as though it were embedded in the canvas.
- **outset**
The opposite of 'inset': the border makes the box look as though it were coming out of the canvas.

Border Style Examples

```
p  
{  
    border-color: black;  
    border-top-style: solid;  
    border-right-style: dotted;  
    border-bottom-style: double;  
    border-left-style: groove;  
    border-width: 1pt;  
}
```

```
p  
{  
    border-color: black;  
    border-width: 1pt;  
    border-style: solid dotted double groove;  
}
```

```
p  
{  
    border-color: black;  
    border-width: 1pt;  
    border-style: solid;  
}
```

Margins

```
p { margin: 1.5pt 1em 2.3mm 2in; }
```

```
body { margin: 2em }      /* all margins set to 2em */  
body { margin: 1em 2em }   /* top & bottom = 1em, right & left = 2em */
```

```
body { margin: 1em 2em 3em } /  
* top=1em, right=2em, bottom=3em, left=2em */
```

```
body {  
    margin-top: 1em;  
    margin-right: 2em;  
    margin-bottom: 3em;  
    margin-left: 2em; /* copied from opposite side (right) */
```

For details see:

<http://www.w3.org/TR/CSS21/box.html#margin-properties>

Backgrounds

Properties

'background-color',	'background-image',
'background-repeat',	'background-attachment',
'background-position',	'background'

```
p  
{  
    margin: 1.5pt 1em 2.3mm 2in;  
    background-color: lime;  
}
```

For details see:

<http://www.w3.org/TR/CSS21/colors.html#q2>

Fonts

Properties

font-family	font-style
font-variant	font-weight
font-size	

Font-family

Value: <family-name> | <generic-family> | inherit

<generic-family>

- serif
- sans-serif
- cursive
- fantasy
- monospace

```
body { font-family: Gill, Helvetica, sans-serif }
```

Font-variant

Values: normal | small-caps | inherit

```
h3 { font-variant: small-caps }  
em { font-style: oblique }
```

Font-style

Values: normal | italic | oblique | inherit

Font-weight

Values

normal	bold
bolder	lighter
100	200
300	400
500	600
700	800
900	inherit

400 = normal

700 = bold

```
p { font-weight: normal } /* 400 */  
h1 { font-weight: 700 } /* bold */
```

```
strong { font-weight: bolder }  
p { font-weight: lighter }
```

font-size

Value: <absolute-size> | <relative-size> | <length> |
<percentage> | inherit

CSS absolute- size values	xx-small	x-small	small	medium	large	x- large	xx-large	
scaling factor	3/5	3/4	8/9	1	6/5	3/2	2/1	3/1
HTML headings	h6		h5	h4	h3	h2	h1	
HTML font sizes	1		2	3	4	5	6	7

<relative-size> larger | smaller

```
p { font-size: 16px; }
@media print {
    p { font-size: 12pt; }
}
blockquote { font-size: larger }
em { font-size: 150% }
em { font-size: 1.5em }
```

Text

Affect visual presentation of characters, spaces, words, and paragraphs

For details see:

<http://www.w3.org/TR/CSS21/text.html>

text-indent

Values: <length> | <percentage> | inherit

```
p { text-indent: 3em }  
p.left { text-indent: -1in }
```

text-align

Values: left | right | center | justify | inherit

```
div.important { text-align: center }
```

text-decoration

Values: none | [underline || overline || line-through || blink] | inherit

```
a:visited,a:link { text-decoration: underline }
```

text-transform

Values:

- **capitalize**
Puts the first character of each word in uppercase; other characters are unaffected.
- **uppercase**
Puts all characters of each word in uppercase.
- **lowercase**
Puts all characters of each word in lowercase.
- **none**
No capitalization effects.