

CS 696 Emerging Web and Mobile Technologies
Spring Semester, 2011
Doc 2 CSS Part 2
Jan 25, 2011

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References

List of CSS Properties

<http://meiert.com/en/indices/css-properties/>

CSS 3 Selectors

<http://www.w3.org/TR/css3-selectors/>

Zen garden - examples

<http://www.csszengarden.com/>

CS 683 Lecture notes, <http://www.eli.sdsu.edu/courses/fall04/cs683/notes/index.html>

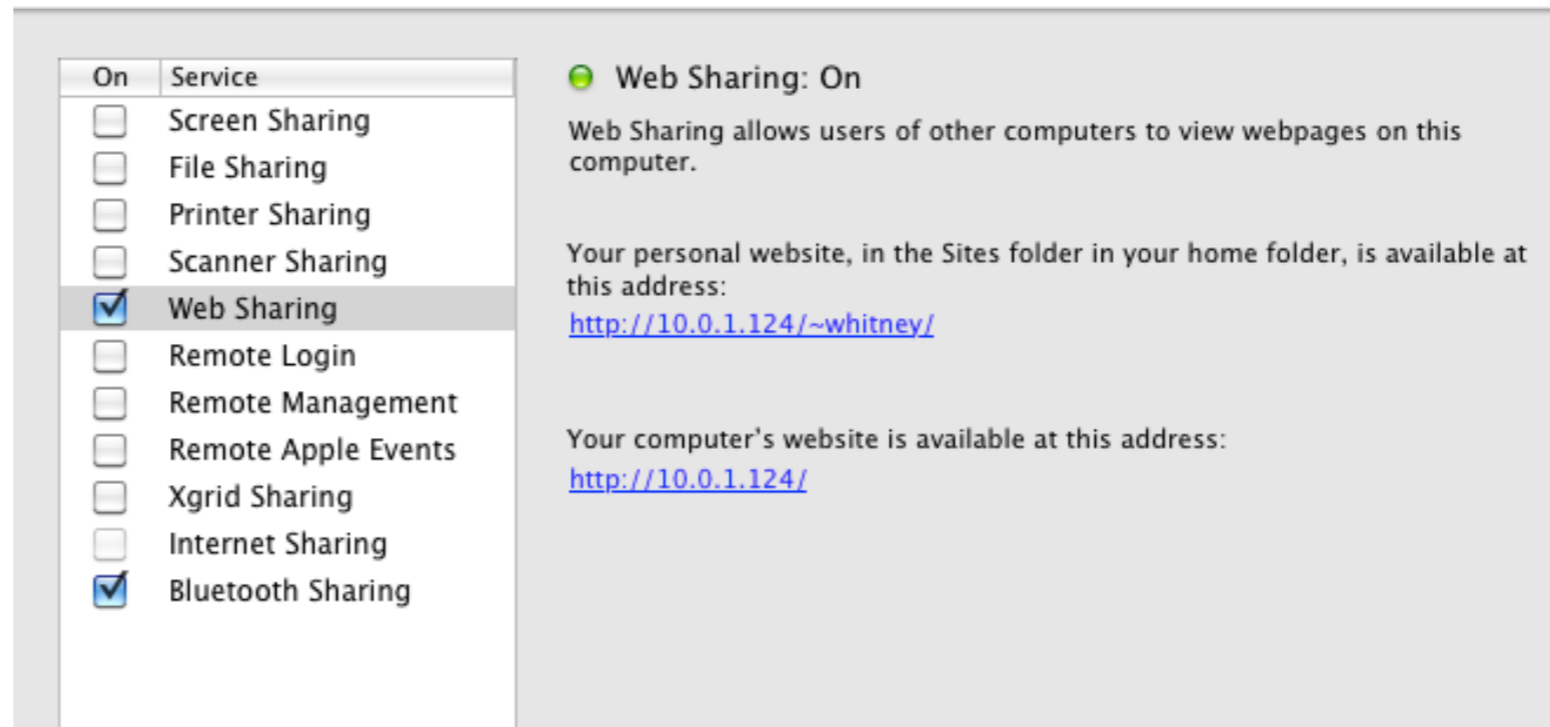
Testing Webpages on Mobile

Web Server on Rohan

See

<http://www-rohan.sdsu.edu/gdelines.shtml>

Web Server on Mac



Web Server on Windows

Lots of free web servers for windows

Try NGINX easier to install than apache

<http://www.nginx.org/>

Viewing on iPhone Emulator

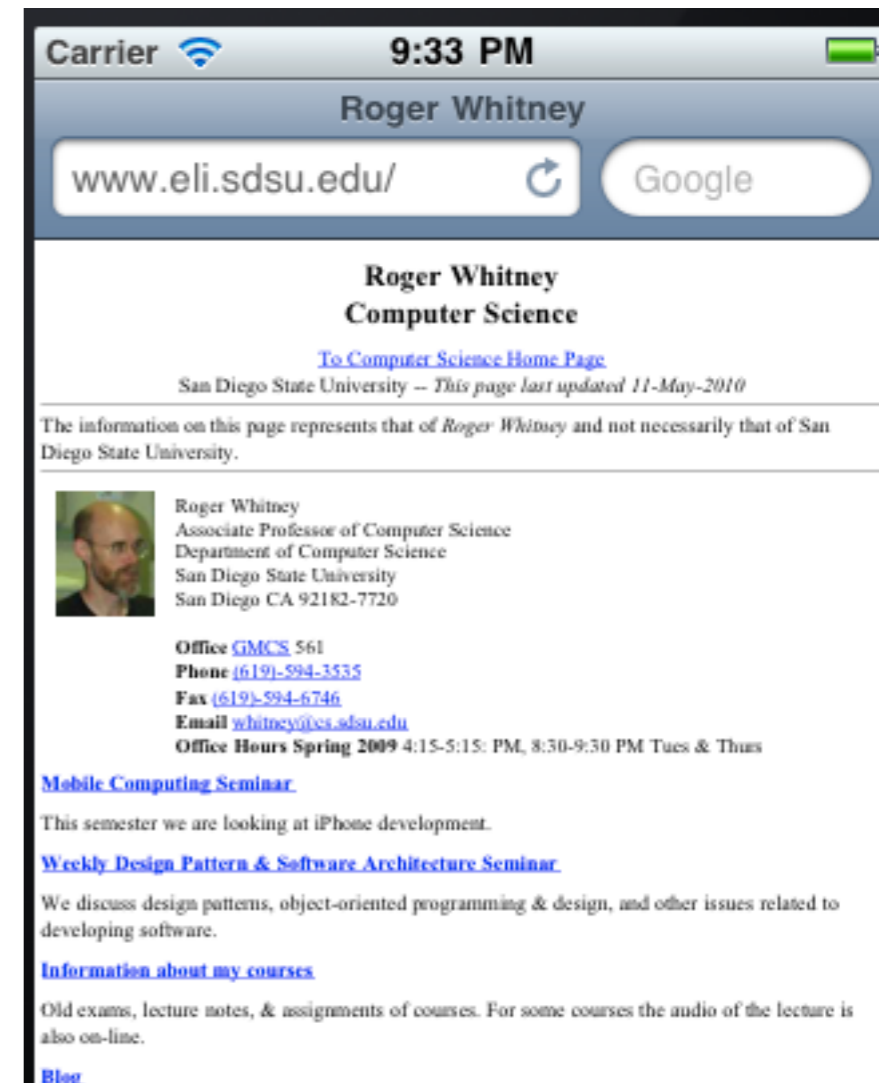
Install iPhone SDK

<http://developer.apple.com/devcenter/ios/index.action>

Run the emulator

[Developer/Platforms/iPhoneSimulator.platform/Developer/Applications](#)

Run Safari



Viewing on Android Emulator

Download Android SDK

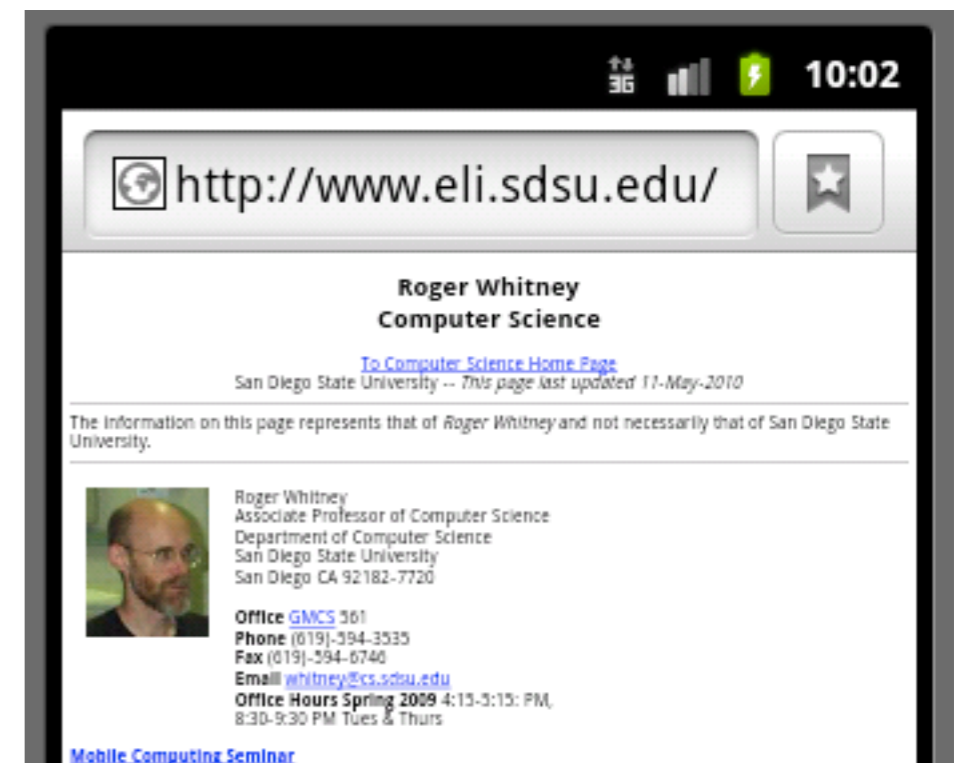
<http://developer.android.com/sdk/index.html>

Create an AVD

<http://developer.android.com/guide/developing/tools/emulator.html>

`emulator -avd <avidName>`

<http://developer.android.com/guide/developing/tools/emulator.html>



CSS Properties

Text Properties - Demo

Typography

Typography Demo

HTML5 Typography in Action

Chunk Five

Size

Color

Leading

Tracking

Transparency

Rotation

Shadow ON OFF

Hello.

<http://developer.apple.com/safaridemos/showcase/typography/>

Colors

Named Colors

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

```
em { color: red }
```

147 named colors in CSS3

RGB

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

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 */
```

```
p { font-size: 120% }
```



em is like %

1em = 100%

1.1em = 110%

0.9em = 90%

Lengths - Absolute Units

in: inches — 2.54 centimeters.

cm: centimeters

mm: millimeters

pt: points — 1/72th of an inch.

pc: picas — 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 */
```

Use em or %

Some users have a preference

em or % is based on their preference

Borders

A border can have

Color

Image

Length

Radius

Style

Spacing

Width

Width

Values

thin

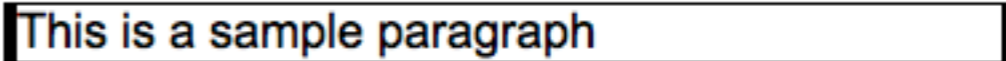
medium

thick

<length>


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

```
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 Styles

This is a sample paragraph

- none
- hidden
- dotted
- dashed
- solid
- double
- groove
- ridge
- inset
- outset

```
p  
{  
    border-color: black;  
    border-style: solid dotted double dashed;  
}
```

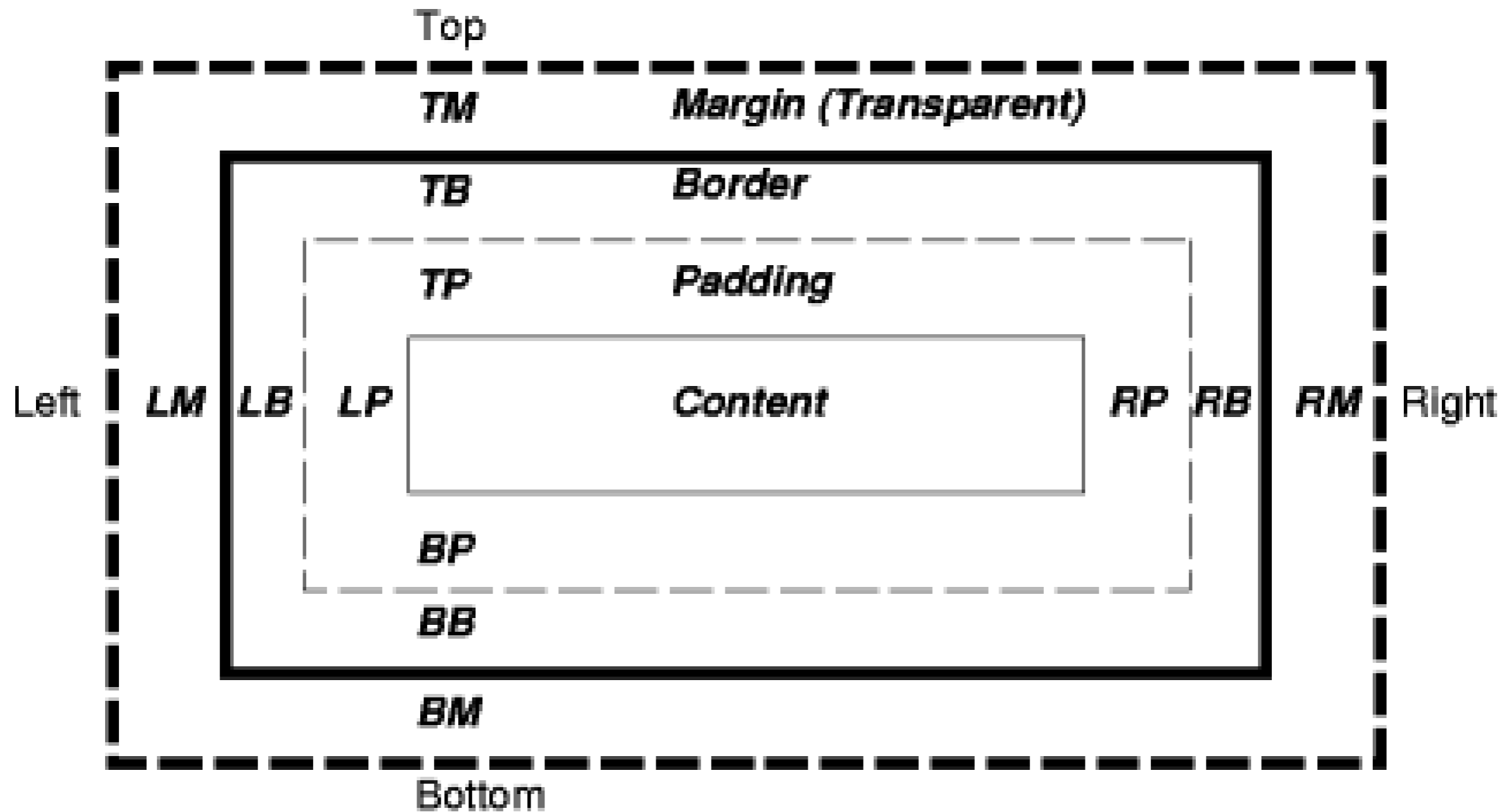
The opposite of 'inset': the border makes the box look as though it were coming out of the canvas.

Margins

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

This is a sample
paragraph

Boxes & Displays



-  Margin edge
-  Border edge
-  Padding edge
-  Content edge

Background

```
attachment    p
break         {
clip          margin: 1.5pt 1em 2.3mm 2in;
color         background-color: lime;
image        }
origin
position
repeat
size
```

This is a sample
paragraph

Fonts

Font-family

Properties

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

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

<generic-family>

serif

sans-serif

cursive

fantasy

monospace

p
{

}

```
margin: 1.5pt 1em 2.3mm 2in;  
background-color: lime;  
font-family: 'Monotype Corsiva', Helvetica, sans-serif;
```

*This is a sample
paragraph*

Font variant & Style

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

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

```
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	1 1/5	1 1/2	2
HTML headings	h6		h5	h4	h3	h2	h1
HTML font sizes	1		2	3	4	5	6

<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

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 }
```

Sample CSS

```
body {
  background-color: #ddd;
  color: #222;
  font-family: Helvetica;
  font-size: 14px;
  margin: 0;
  padding: 0;
}
#header h1 {
  margin: 0;
  padding: 0;
}
#header h1 a {
  background-color: #ccc;
  border-bottom: 1px solid #666;
  color: #222;
  display: block;
  font-size: 20px;
  font-weight: bold;
  padding: 10px 0;
  text-align: center;
  text-decoration: none;
}
#header ul {
  list-style: none;
```