

CSS3 Qasim Nadeem

CSS Everywhere!

If you are one, when you see an impressive demonstration of a new CSS3 feature, you can't wait to start using it in websites. Of course, then you see that it is available in only one or two of the major browsers (and this never includes IE), so ultimately you decide to wait. The good news for you – with the latest browser releases, there are a few awesome features that are finally supported everywhere, and you can start using them right now!

CSS 3 Features

Animation & Transition
Adv. Selectors
Border Images
Box & Text Shadow
Media Queries
Calc()

3D Transform
3D Rotation
Gradients
Web Fonts
Content & Counters
Multi-Column Layout

Why use CSS

1. Style solves the common problem.

Different browsers act differently to documents, so W3C standardized CSS standard that are supported by all major browsers.

2. Style sheet can save a lot of work.

Font and Style attributes of html are used to format the document, so we define them using CSS in a separate file, by changing at one place we can modify our entire website pages.

3. Multiple style cascade.

Style can cascade into many ways i.e. into a single element, head or external files.

Three parts of CSS

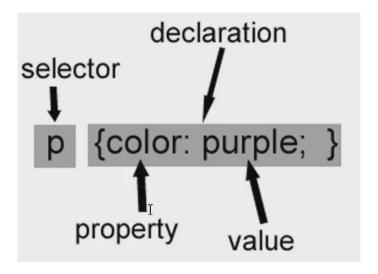
The Style
Their Placement
They Cascade

Style Definition

Selector

Declaration

- Property
- Value



Types of CSS Selectors or Selector Types

Custom CSS (ID & Class) Styles HTML Base/Tag Styles Advanced CSS Selector Styles (redefine the format for)

- A particular combination of tags - A specific id attribute Psuedo Classes e.g. a:hover HTML Base or Tag Selector <body> Standard CSS Labs This is some text in a paragraph This is some text in a Lab: Setting Default properties of a tag paragraph <head> This is some text in a <style type="text/css"> paragraph body{ color: blue;} </body> h2,h3,h5 { color: green;} </html> h1{ font-size: 36px; Lab: Custom CSS (ID) Selector font-weight: bold; color: blue: <html> } <head> p{ <style type="text/css"> font-family: Arial, Helvetica, sans-serif; #uppercase {text-transform: uppercase} font-size: 16px; color: red; #bkclr {background-color: #0000ff;} </style> </style> </head> </head> Custom CSS (Class) Selector Can apply on any HTML tag <body> <html> This is some text in a paragraph Lab: Text Case This is some text in a <head> paragraph <style type="text/css"> </body> /* Applying selector on specific tag */ </html> p.uppercase {text-transform: uppercase} p.lowercase {text-transform: lowercase} Lab: Context Selector p.capitalize {text-transform: capitalize} p.bkclr {background-color: #0000ff;} /* Can apply selector on any tag */ <html> .lowercase {text-transform: lowercase} <head> <style type="text/css"> #container p{color:red;} </style>

td h3 {color: blue;}

</head>

```
</style>
</head>
<body>
      <h3>This is some text in a
paragraph</h3>
      <table border="0" cellspacing="8"
cellpadding="0" >
      <td width="800" valign="middle"
colspan="2">
            <h3>Now h3 is in td to test
context style</h3>
            <div id="container">Great to be
here</div>
      </body>
</html>
```

Lab: Basic Building Block

Div tag can be place anywhere in the document. We can use it in absolute or relative to other elements.

Lab: Div and Child Div

```
<head>
<style type="text/css">
#myDiv{
        position: absolute;
        top: 25px; left: 11px; width: 560px;
height:350;
        background-color: grey;
}
.box{
```

Lab: Formatting Text

```
<html>
<head>
<style type="text/css">
h3 {font-family: times}
p {font-family: courier}
p.sansserif {font-family: sans-serif}
</style>
</head>

<body>
<h3>This is header 3</h3>
This is a paragraph
</body></html>
```

```
<html>
<head>
<style type="text/css">
h1 {font-size: 150%}
h2 {font-size: 130%}
p {font-size: 100%}
</style>
</head>

<body>
<h1>This is header 1</h1>
<h2>This is header 2</h2>
This is a paragraph
</body></html>
```

```
This example demonstrates how to set the style
                                                 </head>
of a font.
<html>
                                                 <body>
<head>
                                                 This is a paragraph
<style type="text/css">
h1 {font-style: italic}
                                                 This is a paragraph
h2 {font-style: normal}
                                                 This is a paragraph
p {font-style: oblique}
</style>
                                                 </body></html>
</head>
<body>
                                                 This example demonstrates how to use the
<h1>This is header 1</h1>
                                                 shorthand property for setting all of the font
<h2>This is header 2</h2>
                                                 properties in one declaration.
This is a paragraph
                                                 <html>
</body>
                                                 <head>
</html>
                                                 <style type="text/css">
                                                 р
How to set the variant of a font
                                                 font: italic small-caps 900 12px arial
<html>
                                                 </style>
<head>
                                                 </head>
<style type="text/css">
p.normal {font-variant: normal}
                                                 <body>
p.small (font-variant: small-caps)
                                                 This is a paragraph
</style>
                                                 </body></html>
</head>
                                                 Lab: Formatting Borders
<body>
This is a paragraph
                                                 <html>
This is a paragraph
                                                 <head>
</body>
                                                 <style type="text/css">
                                                 p.dotted {border-style: dotted}
</html>
                                                 p.dashed {border-style: dashed}
                                                 p.solid {border-style: solid}
```

How to set the boldness of a font

```
<html>
<head>
<style type="text/css">
p.normal {font-weight: normal}
p.thick {font-weight: bold}
p.thicker {font-weight: 900}
</style>
```

p.double {border-style: double}
p.groove {border-style: groove}
p.ridge {border-style: ridge}
p.inset {border-style: inset}
p.outset {border-style: outset}
</style>
</head>
<body>
class="dotted">A dotted border

```
A dashed border
A solid border
A double border
A groove border
A ridge border
An inset border
An outset border
</body></html>
```

How to set different borders on each side of the element

```
<html>
<head>
<style type="text/css">
p.soliddouble {border-style: solid double}
p.doublesolid {border-style: double solid}
p.groovedouble {border-style: groove double}
p.three {border-style: solid double groove}
</style>
</head>
<body>
Some text
Some text
Some text
Some text
</body>
</html>
```

How to set the color of the four borders. It can have from one to four colors

```
<html>
<head>
<style type="text/css">
p.one
{
border-style: solid;
border-color: #0000ff
}
p.two
{
border-style: solid;
border-color: #ff0000 #0000ff
```

```
p.three
border-style: solid;
border-color: #ff0000 #00ff00 #0000ff
p.four
border-style: solid;
border-color: #ff0000 #00ff00 #0000ff
rgb(250,0,255)
</style></head><body>
One-colored border!
Two-colored border!
Three-colored border!
Four-colored border!
<b>Note:</b> The "border-color"
property does not work if it is used alone. Use
the "border-style" property to set the borders
first.
</body></html>
```

How to set the width of the bottom border

```
<html>
<head>
<style type="text/css">
p
{
border-style: solid;
border-bottom-width: 15px
}
</style>
</head>

<body>
<b>Note:</b> The "border-bottom-width"
property does not work if it is used alone. Use
the "border-style" property to set the borders
first.
</body>
</html>
```

```
How to set the width of the left border
<html>
<head>
<style type="text/css">
р
border-style: solid;
border-left-width: 15px
</style>
</head>
<body>
<b>Note:</b> The "border-left-width"
property does not work if it is used alone. Use
the "border-style" property to set the borders
first.
</body>
</html>
```

How to set the width of the right border

```
<html>
<head>
<style type="text/css">
p
{
border-style: solid;
border-right-width: 15px
}
</style>
</head>

<body>
<b>Note:</b> The "border-right-width"
property does not work if it is used alone. Use the "border-style" property to set the borders first.
</body></html>
```

How to set border Style & Width

```
<html>
<head>
<style type="text/css">
p
{
border-style: solid;
border-top-width: 15px
}
</style>
</head>

<body>
<b>Note:</b> The "border-top-width"
property does not work if it is used alone. Use the "border-style" property to set the borders first.
</body>
</html>
```

Shorthand way of setting all of the properties for the bottom border in one declaration

```
<html>
<head>
<style type="text/css">
p
{
border-bottom: medium solid #ff0000
}
</style>
</head>
<body>
Some text.
</body>
</html>
```

Shorthand way of setting all of the properties for the left border in one declaration.

```
<html>
<head>
<style type="text/css">
p
```

```
{
border-left: medium solid #ff0000
}
</style>
</head>
<body>
Some text.
</body></html>
```

Shorthand way of setting the width of the four borders in one declaration, can have from one to four values

```
<html>
<head>
<style type="text/css">
p.one
border-style: solid;
border-width: 5px
p.two
border-style: solid;
border-width: 5px 10px
p.three
border-style: solid;
border-width: 5px 10px 1px
p.four
border-style: solid;
border-width: 5px 10px 1px medium
</style></head><body>
Some text
Some text
Some text
Some text
<b>Note:</b> The "border-width" property
does not work if it is used alone. Use the
```

```
"border-style" property to set the borders
first. 
</body> </html>
```

Shorthand way of setting all the properties for the four borders in one declaration, can have from one to three values

```
<html>
<head>
<style type="text/css">
p
{
border: medium double rgb(250,0,255)
}
</style>
</head>
<body>
Some text
</body></html>
```

Lab: Setting Margins

```
<html>
<head>
<style type="text/css">
p.leftmargin {margin-left: 2cm}
</style>
</head>

<body>
This is a paragraph with no margin specified
This is a paragraph with a specified left margin
</body>
</html>
```

How to set the right margin of a text

```
<html>
```

```
<head>
                                               This is a paragraph with
<style type="text/css">
                                               specified margins
p.rightmargin {margin-right: 8cm}
                                               This is a paragraph with no specified
</style>
                                               margins
</head>
                                               </body></html>
<body>
                                               Lab: Formatting Table Cells
This is a paragraph with no margin
specified
                                               <html>
This is a paragraph with
                                               <head>
a specified right margin 
                                               <style type="text/css">
</body>
                                               td {padding-left: 2cm}
</html>
                                               </style>
                                               </head>
                                               <body>
How to set the top margin of a text
                                               <html>
                                               <head>
                                               This is a tablecell with a left padding. This is a
<style type="text/css">
                                               tablecell with a left padding.
p.topmargin {margin-top: 5cm}
                                               </style>
                                               </head>
                                               </body></html>
<body>
This is a paragraph with no margin
specified
                                               <html>
This is a paragraph with
                                               <head>
a specified top margin 
                                               <style type="text/css">
</body>
                                               td {padding-right: 5cm}
</html>
                                               </style>
                                               </head>
Shorthand way of setting all of the margin
                                               <body>
properties in one declaration
                                               <html>
                                               <head>
                                               This is a table cell with a right padding. This is a
<style type="text/css">
                                              table cell with a right padding.
p.margin {margin: 2cm 4cm 3cm 4cm}
                                               </style>
                                               </head>
                                               </body></html>
<body>
This is a paragraph with no specified
```

margins

How to set the bottom padding of a table cell. Tea Coca Cola <html> <head> ul class="none"> <style type="text/css"> Coffee td {padding-bottom: 2cm} Tea Coca Cola </style> </head> </body></html> <body> <html> <head> <style type="text/css"> This is a table cell with a bottom padding ol.decimal {list-style-type: decimal} ol.lroman {list-style-type: lower-roman} ol.uroman {list-style-type: upper-roman} ol.lalpha {list-style-type: lower-alpha} </body> ol.ualpha {list-style-type: upper-alpha} </html> </style> </head> Lab: Formatting List <body> class="decimal"> <html> Coffee <head> Tea <style type="text/css"> Coca Cola ul.disc {list-style-type: disc} </0|> ul.circle {list-style-type: circle} ul.square {list-style-type: square} Coffee ul.none {list-style-type: none} Tea </style> Coca Cola </head> </01> class="uroman"> <body> Coffee ul class="disc"> Tea Coffee Coca Cola Tea </0|> Coca Cola Coffee Tea Coffee Coca Cola Tea </0|> Coca Cola Coffee ul class="square"> Tea Coffee Coca Cola

```
</01>
</body></html>
                                                 list-style-position: inside
                                                 ul.outside
How to set an image as the list-item marker
                                                 list-style-position: outside
<html>
<head>
                                                 </style>
<style type="text/css">
                                                 </head>
ul
                                                 <body>
                                                 This list has a list-style-position with a value
list-style-image: url('arrow.gif')
                                                 of "inside":
                                                 ul class="inside">
</style>
                                                 Earl Grey Tea - A fine black tea
</head>
                                                 Jasmine Tea - A fabulous "all purpose"
                                                 tea
<body>
                                                 Honeybush Tea - A super fruity delight
tea
Coffee
                                                 Tea
Coca Cola
                                                 This list has a list-style-position with a value
of "outside":
</body>
                                                 ul class="outside">
</html>
                                                 Earl Grey Tea - A fine black tea
                                                 Jasmine Tea - A fabulous "all purpose"
                                                 tea
<html>
                                                 Honeybush Tea - A super fruity delight
<head>
                                                 tea
<style type="text/css">
                                                 ul.inside
                                                 </body></html>
Advance CSS Labs
```

Lab: CSS Animation

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<style type="text/css">
div
{
width:100px;
height:100px;
```

```
background:red;
position:relative;
animation:mymove 5s infinite;
-moz-animation:mymove 5s infinite; /*Firefox*/
-webkit-animation:mymove 5s infinite; /*Safari and Chrome*/
@keyframes mymove
from {left:0px;}
to {left:200px;}
@-moz-keyframes mymove /*Firefox*/
from {left:0px;}
to {left:200px;}
@-webkit-keyframes mymove /*Safari and Chrome*/
from {left:0px;}
to {left:200px;}
</style>
</head>
<body>
<b>Note:</b> This example does not work in Internet Explorer and Opera.
<div></div>
</body>
</html>
Animation Duration
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<style type="text/css">
div
width:100px;
height:100px;
```

background:red;

```
position:relative;
animation:mymove infinite;
animation-duration:1s;
/* Firefox */
-moz-animation:mymove infinite;
-moz-animation-duration:1s;
/* Safari and Chrome */
-webkit-animation:mymove infinite;
-webkit-animation-duration:1s;
@keyframes mymove
from {top:0px;}
to {top:200px;}
@-moz-keyframes mymove /* Firefox */
from {top:0px;}
to {top:200px;}
@-webkit-keyframes mymove /* Safari and Chrome */
from {top:0px;}
to {top:200px;}
</style>
</head>
<body>
<b>Note:</b> This example does not work in Internet Explorer and Opera.
<div></div>
</body>
</html>
Animation Iteration
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<style type="text/css">
div
```

```
width:100px;
height:100px;
background:red;
position:relative;
animation:mymove 5s;
animation-iteration-count:3;
/* Firefox */
-moz-animation:mymove 5s;
-moz-animation-iteration-count:3;
/* Safari and Chrome */
-webkit-animation:mymove 5s;
-webkit-animation-iteration-count:3;
@keyframes mymove
from {top:0px;}
to {top:200px;}
@-moz-keyframes mymove /* Firefox */
from {top:0px;}
to {top:200px;}
@-webkit-keyframes mymove /* Safari and Chrome */
from {top:0px;}
to {top:200px;}
</style>
</head>
<body>
<b>Note:</b> This example does not work in Internet Explorer and Opera.
<div></div>
</body>
</html>
```

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<style type="text/css">
div
width:100px;
height:100px;
background:red;
position:relative;
animation:myfirst 5s infinite;
animation-direction:alternate;
/* Firefox */
-moz-animation:myfirst 5s infinite;
-moz-animation-direction:alternate;
/* Safari and Chrome */
-webkit-animation:myfirst 5s infinite;
-webkit-animation-direction:alternate;
@keyframes myfirst
0% {background:red; left:0px; top:0px;}
25% {width:200px; height:200px;background:yellow; left:200px; top:0px;}
50% {background:blue; left:200px; top:200px;}
75% {background:green; left:0px; top:200px;}
100% {background:red; left:0px; top:0px;}
}
@-moz-keyframes myfirst /* Firefox */
0% {background:red; left:0px; top:0px;}
25% {width:200px; height:200px;background:yellow; left:200px; top:0px;}
50% {background:blue; left:200px; top:200px;}
75% {background:green; left:0px; top:200px;}
100% {background:red; left:0px; top:0px;}
}
@-webkit-keyframes myfirst /* Safari and Chrome */
0% {background:red; left:0px; top:0px;}
25% {width:200px; height:200px;background:yellow; left:200px; top:0px;}
50% {background:blue; left:200px; top:200px;}
75% {background:green; left:0px; top:200px;}
100% {background:red; left:0px; top:0px;}
```

```
}
</style>
</head>
<body>
<b>Note:</b> This example does not work in Internet Explorer and Opera.
<div></div>
</body>
</html>
Animation Play State [paused or running]
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<style type="text/css">
div
width:100px;
height:100px;
background:red;
position:relative;
animation:mymove 5s;
animation-play-state:paused;
/* Firefox */
-moz-animation:mymove 5s;
-moz-animation-play-state:paused;
/* Safari and Chrome */
-webkit-animation:mymove 5s;
-webkit-animation-play-state:paused;
}
@keyframes mymove
from {left:0px;}
to {left:200px;}
@-moz-keyframes mymove /* Firefox */
from {left:0px;}
```

to {left:200px;}

}

```
@-webkit-keyframes mymove /* Safari and Chrome */
{
from {left:0px;}
to {left:200px;}
}
</style>
</head>
<body>
<b>Note:</b> This example does not work in Internet Explorer and Opera.
</div>
</div>
</body>
</html>
```

Animation Timing Function

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<style type="text/css">
div
width:100px;
height:100px;
background:red;
position:relative;
animation:mymove 5s infinite;
animation-timing-function:linear;
/* Firefox */
-moz-animation:mymove 5s infinite;
-moz-animation-timing-function:linear;
/* Safari and Chrome */
-webkit-animation:mymove 5s infinite;
-webkit-animation-timing-function:linear;
@keyframes mymove
from {left:0px;}
to {left:200px;}
}
```

```
@-moz-keyframes mymove /* Firefox */
from {left:0px;}
to {left:200px;}
@-webkit-keyframes mymove /* Safari and Chrome */
from {left:0px;}
to {left:200px;}
}
</style>
</head>
<body>
<b>Note:</b> This example does not work in Internet Explorer and Opera.
<div></div>
</body>
</html>
Animation Timing Function
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
```

```
<html>
<head>
<style type="text/css">
div
width:100px;
height:50px;
background:red;
color:white;
font-weight:bold;
position:relative;
animation:mymove 5s infinite;
-moz-animation:mymove 5s infinite; /* Firefox */
-webkit-animation:mymove 5s infinite; /* Safari and Chrome */
}
#div1 {animation-timing-function:cubic-bezier(0,0,0.25,1);}
#div2 {animation-timing-function:cubic-bezier(0.25,0.1,0.25,1);}
#div3 {animation-timing-function:cubic-bezier(0.42,0,1,1);}
```

```
#div4 {animation-timing-function:cubic-bezier(0,0,0.58,1);}
#div5 {animation-timing-function:cubic-bezier(0.42,0,0.58,1);}
/* Firefox: */
#div1 {-moz-animation-timing-function:cubic-bezier(0,0,0.25,1);}
#div2 {-moz-animation-timing-function:cubic-bezier(0.25,0.1,0.25,1);}
#div3 {-moz-animation-timing-function:cubic-bezier(0.42,0,1,1);}
#div4 {-moz-animation-timing-function:cubic-bezier(0,0,0.58,1);}
#div5 {-moz-animation-timing-function:cubic-bezier(0.42,0,0.58,1);}
/* Safari and Chrome: */
#div1 {-webkit-animation-timing-function:cubic-bezier(0,0,0.25,1);}
#div2 {-webkit-animation-timing-function:cubic-bezier(0.25,0.1,0.25,1);}
#div3 {-webkit-animation-timing-function:cubic-bezier(0.42,0,1,1);}
#div4 {-webkit-animation-timing-function:cubic-bezier(0,0,0.58,1);}
#div5 {-webkit-animation-timing-function:cubic-bezier(0.42,0,0.58,1);}
@keyframes mymove
from {left:0px;}
to {left:300px;}
@-moz-keyframes mymove /* Firefox */
from {left:0px;}
to {left:300px;}
@-webkit-keyframes mymove /* Safari and Chrome */
from {left:0px;}
to {left:300px;}
}
</style>
</head>
<body>
<b>Note:</b> This example does not work in Internet Explorer and Opera.
<div id="div1">linear</div>
<div id="div2">ease</div>
<div id="div3">ease-in</div>
<div id="div4">ease-out</div>
<div id="div5">ease-in-out</div>
```

```
</body>
</html>
Lab: Background Setup in Center
body
background-image:url('images/background.jpg');
background-repeat:no-repeat;
background-attachment:fixed;
background-position:center;
Lab: Overflow
<!DOCTYPE HTML>
<html>
<head>
<style type="text/css">
div
width:110px;
height:110px;
border:thin solid black;
overflow-x:hidden;
overflow-y:hidden; /* scroll or auto */
</style>
</head>
<body>
<div>
In my younger and more vulnerable years my father gave me some advice that I've been turning over in
my mind ever since.
'Whenever you feel like criticizing anyone,' he told me, just remember that all the people in this world
haven't had the advantages that you've had.'
</div>
Overflow-x specifies whether or not to clip the left/right edges of the content.
Overflow-y specifies whether or not to clip the top/bottom edges of the content.
</body>
```

</html>

Lab: Z-Index and Opacity

```
<html>
<head>
<style>
      #d1,#d2{
             position:absolute;
            width:200px;
             height:200px;
       }
      #d1{
             background-color:#00CC33;
            top:100;
             z-index:4;
      }
      #d2{
             background-color:#09C;
            top:150;
            z-index:3;
             opacity: .20;
            filter:alpha(opacity=20); /*for IE8 or earlier*/
</style>
</head>
<body>
       <div id="d1">
      Test
  </div>
  <div id="d2">
      Z index
  </div>
</body>
</html>
Lab: Transparency & image Hover
img
opacity:0.4;
filter:alpha(opacity=40); /* For IE8 and earlier */
}
img:hover
opacity:1.0;
```

```
filter:alpha(opacity=100); /* For IE8 and earlier */
Lab: The CSS3 @import @media @page
@import url(searchStyles.css);
@import url(styles.css);
/*#printable { display: none; }*/
@media print
     #non-printable { display: none; }
     #printable {
                    display: block;
                    width:100%;
             /** {size: landscape; }*/
  @page { margin: .2cm; size: landscape; }
 /*@page :left { margin-left: .2in; }
 @page :right {margin-right: .2in;}*/
```

Lab: The CSS3 @font-face Rule

Before CSS3, web designers had to use fonts that were already installed on the user's computer.

With CSS3, web designers can use whatever font he/she likes.

When you have found/bought the font you wish to use, include the font file on your web server, and it will be automatically downloaded to the user when needed.

Your "own" fonts are defined in the CSS3 @font-face rule.

```
font-family:myFirstFont,Arial,Parchment;
</style>
</head>
<body>
<div>Samjhe</div>
</body>
</html>
@font-face
font-family: myFirstFont;
src: url('Sansation_Bold.ttf'),
   url('Sansation_Bold.eot'); /* IE9+ */
font-weight:bold;
Lab: Rounded Corners
div
border:2px solid;
border-radius:25px;
-moz-border-radius:25px; /* Firefox 3.6 and earlier */
Lab: Box Shadow
div
box-shadow: 10px 10px 5px #888888;
Lab: Border Image & Text Shadow
div
border-image:url(border.png) 30 30 round;
-moz-border-image:url(border.png) 30 30 round; /* Firefox */
-webkit-border-image:url(border.png) 30 30 round; /* Safari and Chrome */
-o-border-image:url(border.png) 30 30 round; /* Opera */
Lab: Text Shadow
h1
text-shadow: 5px 5px 4FF0000;
Example: Word Wrapping - IE not supported
p {word-wrap:break-word;}
```

Property	Description
hanging-punctuation	Specifies whether a punctuation character may be placed outside the line box
punctuation-trim	Specifies whether a punctuation character should be trimmed
text-align-last	Describes how the last line of a block or a line right before a forced line break is aligned when text-align is "justify"
text-emphasis	Applies emphasis marks, and the foreground color of the emphasis marks, to the element's text
text-justify	Specifies the justification method used when text-align is "justify"
text-outline	Specifies a text outline
text-overflow	Specifies what should happen when text overflows the containing element
text-shadow	Adds shadow to text
text-wrap	Specifies line breaking rules for text
word-break	Specifies line breaking rules for non-CJK scripts
word-wrap	Allows long, unbreakable words to be broken and wrap to the next line

Lab: Gradient Backgrounds Linear Gradient (Top → Bottom)

#linearBg2 { /* fallback */ background-color: #1a82f7; background: url(images/linear_bg_2.png); background-repeat: repeat-x; /* Safari 4-5, Chrome 1-9 */ background: -webkit-gradient(linear, 0% 0%, 0% 100%, from(#1a82f7), to(#2F2727)); /* Safari 5.1, Chrome 10+ */ background: -webkit-linear-gradient(top, #2F2727, #1a82f7); /* Firefox 3.6+ */ background: -moz-linear-gradient(top, #2F2727, #1a82f7); /* IE 10 */ background: -ms-linear-gradient(top, #2F2727, #1a82f7); /* Opera 11.10+ */ background: -o-linear-gradient(top, #2F2727, #1a82f7); }

Linear Gradient (Left → Right)

#linearBg1 { /* fallback */ background-color: #1a82f7; background-image: url(images/linear_bg_1.png); background-repeat: repeat-y; /* Safari 4-5, Chrome 1-9 */ background: -webkit-gradient(linear, left top, right top, from(#1a82f7), to(#2F2727)); /* Safari 5.1, Chrome 10+ */ background: -webkit-linear-gradient(left, #2F2727, #1a82f7); /* Firefox 3.6+ */ background: -moz-linear-gradient(left, #2F2727,

#1a82f7); /* IE 10 */ background: -ms-linear-gradient(left, #2F2727, #1a82f7); /* Opera 11.10+ */ background: -o-linear-gradient(left, #2F2727, #1a82f7); }

Linear Gradient (with Even Stops)

#even-stops { /* fallback DIY*/ /* Safari 4-5, Chrome 1-9 */ background: -webkit-gradient(linear, left top, right top, from(#2F2727), color-stop(0.25, #1a82f7), color-stop(0.5, #2F2727), color-stop(0.75, #1a82f7), to(#2F2727)); /* Safari 5.1+, Chrome 10+ */ background: -webkit-linear-gradient(left, #2F2727, #1a82f7, #2F2727, #1a82f7, #2F2727); /* Firefox 3.6+ */ background: -moz-linear-gradient(left, #2F2727, #1a82f7, #2F2727, #1a82f7, #2F2727); /* IE 10 */ background: -ms-linear-gradient(left, #2F2727, #1a82f7, #2F2727, #1a82f7, #2F2727); /* Opera 11.10+ */ background: -o-linear-gradient(left, #2F2727, #1a82f7, #2F2727, #1a82f7, #2F2727); }

Linear Gradient (with Specified Arbitrary Stops)

#arbitrary-stops { /* fallback DIY*/ /* Safari 4-5, Chrome 1-9 */ background: -webkit-gradient(linear, left top, right top, from(#2F2727), color-stop(0.05, #1a82f7), color-stop(0.5, #2F2727), color-stop(0.95, #1a82f7), to(#2F2727)); /* Safari 5.1+, Chrome 10+ */ background: -webkit-linear-gradient(left, #2F2727, #1a82f7 5%, #2F2727, #1a82f7 95%, #2F2727); /* Firefox 3.6+ */ background: -moz-linear-gradient(left, #2F2727, #1a82f7 5%, #2F2727, #1a82f7 95%, #2F2727); /* IE 10 */ background: -ms-linear-gradient(left, #2F2727, #1a82f7 5%, #2F2727, #1a82f7 95%, #2F2727); /* Opera 11.10+ */ background: -o-linear-gradient(left, #2F2727, #1a82f7 5%, #2F2727, #1a82f7 95%, #2F2727); }

Radial Gradient (Centered, Full Size)

#radial-center { /* fallback */ background-color: #2F2727; background-image: url(images/radial_bg.png); background-position: center center; background-repeat: no-repeat; /* Safari 4-5, Chrome 1-9 */ /* Can't specify a percentage size? Laaaaaaame. */ background: -webkit-gradient(radial, center center, 0, center center, 460, from(#1a82f7), to(#2F2727)); /* Safari 5.1+, Chrome 10+ */ background: -webkit-radial-gradient(circle, #1a82f7, #2F2727); /* Firefox 3.6+ */ background: -moz-radial-gradient(circle, #1a82f7, #2F2727); /* Opera cannot do radial gradients yet */ }

Radial Gradient (Positioned, Sized)

Warning: Not Consistent Among Browsers

#radial-position { /* fallback */ background-color: #2F2727; background-image: url(images/radial_fancy.png); background-position: 80% 20%; background-repeat: no-repeat; /* Safari 4-5, Chrome 1-9 */ background: -webkit-gradient(radial, 80% 20%, 0, 80% 40%, 100, from(#1a82f7), to(#2F2727)); /* Safari 5.1+, Chrome 10+ */ background: -webkit-radial-gradient(80% 20%, closest-

```
corner, #1a82f7, #2F2727); /* Firefox 3.6+ */ background: -moz-radial-gradient(80% 20%, closest-corner, #1a82f7, #2F2727); /* IE 10 */ background: -ms-radial-gradient(80% 20%, closest-corner, #1a82f7, #2F2727); /* Opera cannot do radial gradients yet */ }
```

Lab: Counter-Increment Property

```
A way to number sections and sub-sections with "Section 1", "1.1", "1.2", etc.:
<!DOCTYPE html>
<html>
<head>
<style>
body {counter-reset: section;}
h1 {counter-reset: subsection;}
h1:before { counter-increment: section; content: "Section " counter(section) ". ";}
h2:before { counter-increment: subsection; content: counter(section) "." counter(subsection) " ";}
</style>
</head>
<body>
<b>Note:</b> IE8 supports these properties only if a !DOCTYPE is specified.
<h1>HTML tutorials</h1>
<h2>HTML Tutorial</h2>
<h2>XHTML Tutorial</h2>
<h2>CSS Tutorial</h2>
<h1>Scripting tutorials</h1>
<h2>JavaScript</h2>
```

```
<h2>VBScript</h2>
<h1>XML tutorials</h1>
<h2>XML</h2>
<h2>XSL</h2>
</body>
</html>
Lab: Multiple Columns
<!doctype html>
<html>
  <head>
     <meta charset="utf-8"/>
     <title>First Document</title>
     <style>
      div {-webkit-column-count: 3; /* Chrome, Safari, Opera */
      -moz-column-count: 3; /* Firefox */
      column-count: 3;
      column-fill:balance;
                           -webkit-column-rule: 4px inset #ff00ff; /* Chrome, Safari, Opera */
  -moz-column-rule: 4px outset #ff00ff; /* Firefox */
  column-rule: 4px outset #ff00ff;
                    }
     </style>
  </head>
```

```
<body>
  <h1>ICT Trainings</h1>
  <hr color="#FF0000" size="10" />
  <div>The key to social media and the most important thing to realize is that it's not about having a
megaphone to shout about your products and services, but rather to interact and engage with potential
customers; by doing this you will see them be drawn to your business naturally.</div>
</body>
</html>
Lab RGBA [Red Green Blue Alpha]
Alpha specifies the opacity level of that color.
rgba(107, 146, 98, 0.96)
Lab: FLEX BOX
<!DOCTYPE html>
<html>
<head>
<style>
.flex-container {
  display: -webkit-flex;
  display: flex;
  /*-webkit-flex-direction: column;
  flex-direction: column;*/
  width: 400px;
  height: 250px;
  background-color: lightgrey;
}
.flex-item {
  background-color: cornflowerblue;
  width: 100px;
  height: 100px;
  margin: 10px;
```

</style> </head> <body>

```
<div class="flex-container">
 <div class="flex-item">flex item 1</div>
 <div class="flex-item">flex item 2</div>
 <div class="flex-item">flex item 3</div>
</div>
</body>
</html>
Lab: MEDIA Query
<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<style>
.wrapper {overflow:auto;}
#main {margin-left: 4px;}
#leftsidebar {float: none; width: auto;}
#menulist {margin:0;padding:0;}
.menuitem {
  background:#CDF0F6;
  border:1px solid #d4d4d4;
  border-radius:4px;
  list-style-type:none;
  margin:4px;
  padding:2px;
}
@media screen and (min-width: 480px) {
  #leftsidebar {width:200px;float:left;}
  #main {margin-left:216px;}
}
</style>
</head>
<body>
<div class="wrapper">
 <div id="leftsidebar">
  cli class="menuitem">Menu-item 1
   cli class="menuitem">Menu-item 2
   class="menuitem">Menu-item 3
```

```
cli class="menuitem">Menu-item 4
    class="menuitem">Menu-item 5
  </div>
 <div id="main">
  <h1>Resize the browser window to see the effect!</h1>
  This example shows a menu that will float to the left of the page if the viewport is 480 pixels wide
or wider. If the viewport is less than 480 pixels, the menu will be on top of the content.
 </div>
</div>
</body>
</html>
Lab: Rotate
<!DOCTYPE html>
<html>
<head>
<style>
div {
  width: 300px;
  height: 100px;
  background-color: yellow;
  border: 1px solid black;
}
div#myDiv {
  -webkit-transform: rotateZ(90deg); /* Safari */
  transform: rotateZ(90deg); /* Standard syntax */
}
</style>
</head>
<body>
<div>
This a normal div element.
</div>
<div id="myDiv">
The rotateZ() method rotates an element around its Z-axis at a given degree. This div element is rotated
90 degrees.
</div>
```

```
<b>Note:</b> Internet Explorer 9 (and earlier versions) does not support the rotateZ()
method.
</body>
</html>
Lab: CSS Sprites
<!DOCTYPE html>
<html>
<head>
<style>
#navlist {
  position: relative;
}
#navlist li {
  margin: 0;
  padding: 0;
  list-style: none;
  position: absolute;
  top: 0;
}
#navlist li, #navlist a {
  height: 44px;
  display: block;
}
#home {
  left: 0px;
  width: 46px;
  background: url('img_navsprites.gif') 0 0;
}
#prev {
  left: 63px;
  width: 43px;
  background: url('img_navsprites.gif') -47px 0;
}
#next {
  left: 129px;
  width: 43px;
  background: url('img_navsprites.gif') -91px 0;
```