

## Lab 02

# Introduction to CSS3 & Formatting using style sheets

### A. OBJECTIVES

- Understanding and using difference type of selectors.
- Using internal and external style sheets.
- Using CSS properties and CSS3 properties.
- Using pseudo-class and pseudo-element.
- Using CSS3 transform and transition.
- Using CSS3 animation.

### B. STEP BY STEP EXERCISES

#### 1. The priority of selectors

```
1  <!doctype html>
2  <html>
3  <head>
4  <meta charset="utf-8">
5  <title>The priority of selectors</title>
6  <style type="text/css">
7  * {font: 20px "Comic Sans MS";}
8  MyCustomizeTag {
9      display: block;
10     text-align: center;
11     text-transform: capitalize;
12     text-decoration: underline;
13     width: 500px;
14 }
15 div {
16     background-color: yellow;
17     margin: 0px 0px 5px 5px;
18     width: 300px;
19 }
20 .GroupFormat {
21     font-weight: bold;
22     color: #f00;
23     width: 400px;
24 }
25 #TheHighestPriority {
26     background-color: #000;
27     font-weight: none;
28     font: italic 30px "Times New Roman";
29     color: #fff;
30 }
31 </style>
32 </head>
```

```

33 <body>
34   <MyCustomizeTag>Here is customize tag</MyCustomizeTag>
35   <div>The first paragraph.</div>
36   <div class="GroupFormat">The second paragraph.</div>
37   <div class="GroupFormat" id="TheHighestPriority">
38     The third paragraph.
39   </div>
40   <div>The fourth paragraph.</div>
41   <div class="GroupFormat">The fifth paragraph.</div>
42   <div class="GroupFormat">The sixth paragraph.</div>
43   <div>The seventh paragraph.</div>
44 </body>
45 </html>
46

```

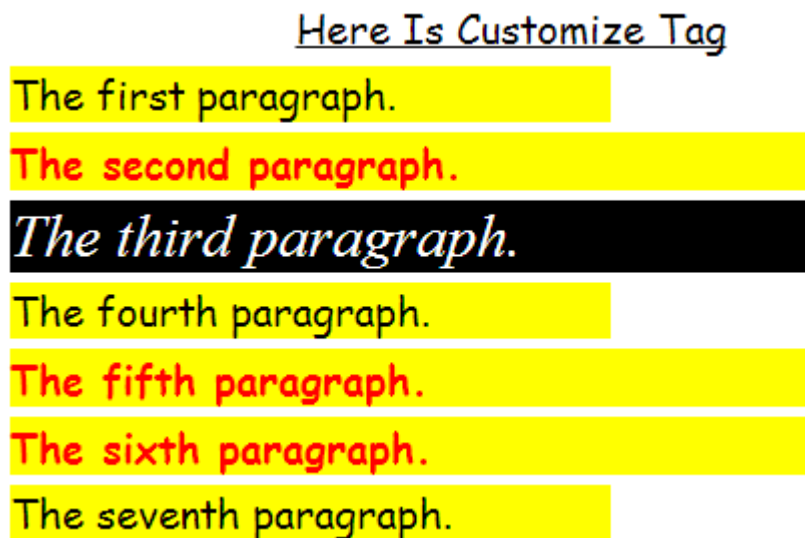


Figure 2.1

## 2. Recognize odd and even element

```

1  <!doctype html>
2  <html>
3  <head>
4  <meta charset="utf-8">
5  <title>Recognize odd and even element</title>
6  <style>
7  div {width: 400px;}
8  div:nth-child(even) {background: #f9f9f9;} /* even | odd */
9  div:nth-child(2n + 1) {background: #ff9;} /* an + b */
10 </style>
11 </head>
12 <body>
13   <h1>Aptech Semester 1's Subject</h1>
14   <div>Elementary Programming in C.</div>
15   <div>Explore HTML, DHTML and JavaScript.</div>
16   <div>Designing Web Sites in Dreamweaver.</div>
17   <div>RDBMS and Data Management.</div>
18   <div>Working with SQL Server Database Objects.</div>
19   <div>eProject (Dreamweaver).</div>
20 </body>
21 </html>

```

# Aptech Semester 1's Subject

Elementary Programming in C.  
 Explore HTML, DHTML and JavaScript.  
 Designing Web Sites in Dreamweaver.  
 RDBMS and Data Management.  
 Working with SQL Server Database Objects.  
 eProject (Dreamweaver).

Figure 2.2

## 3. Create product list with CSS3



Figure 2.3

```

1  <!doctype html>
2  <html>
3  <head>
4  <meta charset="utf-8">
5  <title>Create product list with CSS3</title>
6  <style type="text/css">
7  .ProductDetails {display: none;}
8  .Product img {
9      width: 150px;
10     height: 150px;
11     border-radius: 20px;
12     box-shadow: 5px 5px 10px #aaa;
13 }
14 .ProductName {font-weight: bold;}
15 .ProductPrice {font-style: italic;}
16 .ProductPrice:before {content: " - ";}
17 .Product {
18     text-align: center;
19     width: 150px;
20     margin: 0px 20px;
21     float: left;
22     cursor: pointer;
23 }
24 .Product:hover .ProductDetails {display: block;}
25 </style>
26 </head>

```

```
27 <body>
28 <div class="ProductContainer">
29     <div class="Product">
30         
31         <div class="ProductDetails">
32             <span class="ProductName">Rose</span>
33             <span class="ProductPrice">1.5$</span>
34         </div>
35     </div>
36     <div class="Product">
37         
38         <div class="ProductDetails">
39             <span class="ProductName">Tulip</span>
40             <span class="ProductPrice">2.0$</span>
41         </div>
42     </div>
43     <div class="Product">
44         
45         <div class="ProductDetails">
46             <span class="ProductName">Daisy</span>
47             <span class="ProductPrice">1.0$</span>
48         </div>
49     </div>
50 </div>
51 </body>
52 </html>
```

#### 4. The basic transform and transition

```
1  <!doctype html>
2  <html>
3  <head>
4  <meta charset="utf-8">
5  <title>The basic transform &amp; transition</title>
6  <style>
7  div {
8      position: absolute; left:100px; top:100px; width: 100px; height: 100px;
9      border: 1px solid #000;
10     text-align: center;
11     cursor: pointer;
12
13     transition: transform 2s, font 2s, background 2s, color 2s;
14     -o-transition: -o-transform 2s, font 2s, background 2s, color 2s;
15     -ms-transition: -ms-transform 2s, font 2s, background 2s, color 2s;
16     -moz-transition: -moz-transform 2s, font 2s, background 2s, color 2s;
17     -webkit-transition: -webkit-transform 2s, font 2s, background 2s, color 2s;
18 }
19 div:hover {
20     background: #ff0;
21     color: #f00;
22     font: bold 30px;
23
24     transform: rotate(360deg) scale(2, 2);
25     -o-transform: rotate(360deg) scale(2, 2);
26     -ms-transform: rotate(360deg) scale(2, 2);
27     -moz-transform: rotate(360deg) scale(2, 2);
28     -webkit-transform: rotate(360deg) scale(2, 2);
29 }
30 </style>
31 </head>
32 <body>
33 <div>CSS transition &amp; transform feature</div>
34 </body>
35 </html>
```

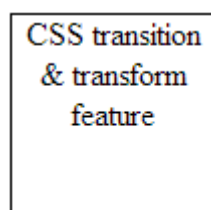


Figure 2.4

## 5. Using CSS3 transition to zoom in product image

```

1  <!doctype html>
2  <html>
3  <head>
4  <meta charset="utf-8">
5  <title>Using CSS3 transition to zoom in product image</title>
6  <style type="text/css">
7  #product01 {z-index: 3; left: 20px;}
8  #product02 {z-index: 2; left: 240px;}
9  #product03 {z-index: 1; left: 460px;}
10 .Product {position: absolute; text-align: center;}
11 .Product img {
12     width: 200px;
13     height: 250px;
14     border-radius: 20px;
15     border: 1px solid #999;
16     box-shadow: 2px 2px 10px #777;
17
18     transition: width 2s, height 2s, box-shadow 2s;
19     -o-transition: width 2s, height 2s, box-shadow 2s;
20     -ms-transition: width 2s, height 2s, box-shadow 2s;
21     -moz-transition: width 2s, height 2s, box-shadow 2s;
22     -webkit-transition: width 2s, height 2s, box-shadow 2s;
23 }
24 .Product:hover img{
25     width: 300px;
26     height: 375px;
27     box-shadow: 10px 10px 20px #ddd;
28 }
29 .Product {text-shadow: 2px 2px 6px #555;}
30 .Product span {font-weight: bold;}
31 .Product span:after {
32     content: " - ";
33 }
34 </style>
35 </head>
36 <body>
37 <div class="ProductContainer">
38     <div class="Product" id="product01">
39         
40         <div><span>Ultra-fast ASP.NET</span>$10</div>
41     </div>
42     <div class="Product" id="product02">
43         
44         <div><span>HTML, XHTML & CSS</span>$8</div>
45     </div>
46     <div class="Product" id="product03">
47         
48         <div><span>C++ How to program</span>$12</div>
49     </div>
50 </div>
51 </body>
52 </html>

```



Figure 2.5