

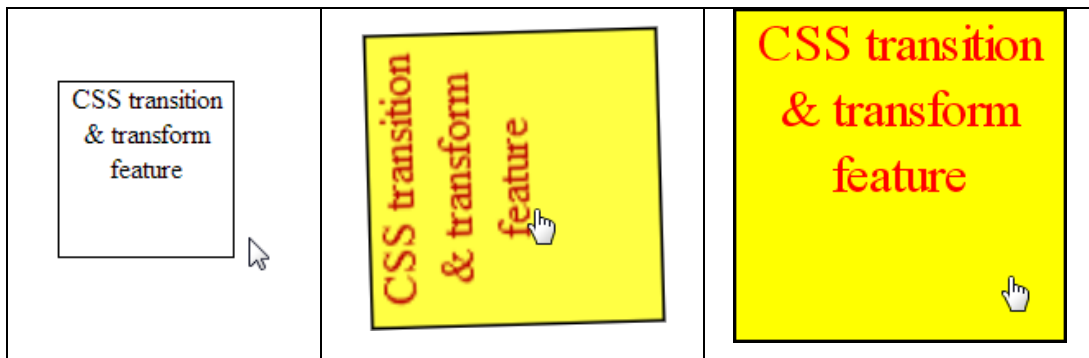
## LAB FOR SESSION 10

### A. OBJECTIVES

- Using CSS3 transform and transition.
- Using CSS3 animation.
- Create slideshow and drop down menu.

### B. STEP BY STEP EXERCISES

#### 1. The basic transform and transition



*Figure 10.1*

#### Hint:

```
<!doctype html>
<html>

<head>
  <meta charset="utf-8">
  <title>The basic transform & transition</title>
  <style>
    div {
      position: absolute;
      left: 100px;
      top: 100px;
      width: 100px;
      height: 100px;
      border: 1px solid #000;
      text-align: center;
      cursor: pointer;
      transition: transform 2s, font 2s, background 2s, color 2s;
      -o-transition: -o-transform 2s, font 2s, background 2s, color 2s;
      -ms-transition: -ms-transform 2s, font 2s, background 2s, color 2s;
      -moz-transition: -moz-transform 2s, font 2s, background 2s, color 2s;
      -webkit-transition: -webkit-transform 2s, font 2s, background 2s, color 2s;
    }
  </style>
</head>
<body>
  <div>
    CSS transition
    & transform
    feature
  </div>
</body>
</html>
```

```

div:hover {
    background: #ff0;
    color: #f00;
    font: bold 30px;
    transform: rotate(360deg) scale(2, 2);
    -o-transform: rotate(360deg) scale(2, 2);
    -ms-transform: rotate(360deg) scale(2, 2);
    -moz-transform: rotate(360deg) scale(2, 2);
    -webkit-transform: rotate(360deg) scale(2, 2);
}
</style>
</head>

<body>
|   <div>CSS transition &amp; transform feature</div>
</body>

</html>

```

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



*Figure 10.2*

**Hint:**

```

<!doctype html>
<html>

<head>
  <meta charset="utf-8">
  <title>Using CSS3 transition to zoom in product image</title>
  <style type="text/css">
    #product01 {
      z-index: 3;
      left: 20px;
    }

    #product02 {
      z-index: 2;
      left: 240px;
    }

    #product03 {
      z-index: 1;
      left: 460px;
    }

    .Product {
      position: absolute;
      text-align: center;
    }

    .Product img {
      width: 200px;
      height: 250px;
      border-radius: 20px;
      border: 1px solid #999;
      box-shadow: 2px 2px 10px #777;
      transition: width 2s, height 2s, box-shadow 2s;
      -o-transition: width 2s, height 2s, box-shadow 2s;
      -ms-transition: width 2s, height 2s, box-shadow 2s;
      -moz-transition: width 2s, height 2s, box-shadow 2s;
      -webkit-transition: width 2s, height 2s, box-shadow 2s;
    }

    .Product:hover img {
      width: 300px;
      height: 375px;
      box-shadow: 10px 10px 20px #ddd;
    }

    .Product {
      text-shadow: 2px 2px 6px #555;
    }

    .Product span {
      font-weight: bold;
    }
  </style>

```

```

        .Product span:after {
            content: " - ";
        }
    </style>
</head>

<body>
    <div class="ProductContainer">
        <div class="Product" id="product01">
            
            <div><span>Ultra-fast ASP.NET</span>$10</div>
        </div>
        <div class="Product" id="product02">
            
            <div><span>HTML, XHTML & CSS</span>$8</div>
        </div>
        <div class="Product" id="product03">
            
            <div><span>C++ How to program</span>$12</div>
        </div>
    </div>
</body>

</html>

```

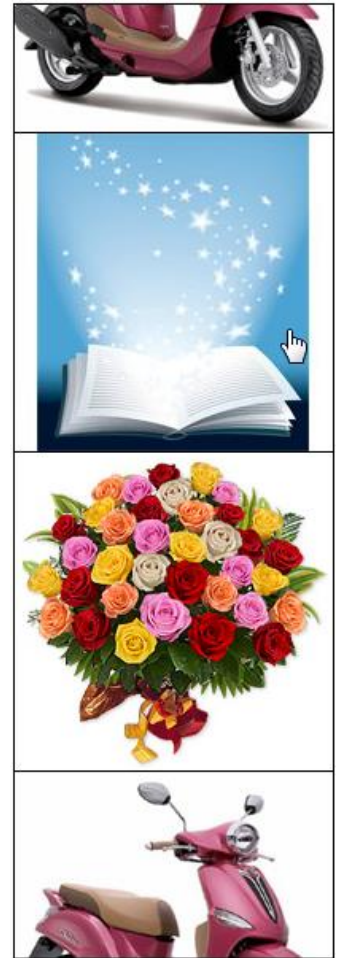
### 3. Create scrolling product panel using CSS3 animation

*Note: The scrolling will be stopped when user move the pointer over the product panel.*

```

1  <!doctype html>
2  <html>
3  <head>
4  <meta charset="utf-8">
5  <title>Create scrolling product panel</title>
6  <style type="text/css">
7  .ScrollPanel {
8      width: 200px; height: 600px;
9      border: 1px solid black;
10     overflow: hidden;
11 }
12 .ScrollPanel img {
13     display: block; width: 200px; height: 200px;
14     border-top: 1px solid black;
15 }
16 .ScrollPanel img:first-child {border-top: none;}
17 .ScrollContent {
18     position: relative;
19     animation: Scrolling 15s linear infinite;
20     -o-animation: Scrolling 15s linear infinite;
21     -ms-animation: Scrolling 15s linear infinite;
22     -moz-animation: Scrolling 15s linear infinite;
23     -webkit-animation: Scrolling 15s linear infinite;
24 }
25 .ScrollContent:hover {
26     animation-play-state: paused;
27     -o-animation-play-state: paused;
28     -ms-animation-play-state: paused;
29     -moz-animation-play-state: paused;
30     -webkit-animation-play-state: paused;
31 }
32 @keyframes      Scrolling {from{top:0px;} to{top:-605px;}}
33 @-o-keyframes   Scrolling {from{top:0px;} to{top:-605px;}}
34 @-ms-keyframes  Scrolling {from{top:0px;} to{top:-605px;}}
35 @-moz-keyframes Scrolling {from{top:0px;} to{top:-605px;}}
36 @-webkit-keyframes Scrolling {from{top:0px;} to{top:-605px;}}
37 </style>
38 </head>
39 <body>
40 <div class="ScrollPanel">
41     <div class="ScrollContent">
42          
43         
44
45          
46         
47     </div>
48 </div>
49 </body>
50 </html>

```



**Figure 10.3**

## C. EXTRA EXERCISES

## 1. Using CSS3 animation to create a slideshow as below



*Figure 10.4*

### Hint:

```
<!doctype html>
<html>
<head>
<meta charset="utf-8">
<title>.....</title>
<style type="text/css">
.ProductThumb img {
    display: block;
    float: left;
    width: 48px;
    height: 48px;
    border: 2px solid #aaa;
    border-left: none;
}
.ProductThumb img:first-child {
    border-left: 2px solid #aaa;
}
.ProductPanel .Product {
    background-size: 252px 252px;
    width: 252px;
    height: 252px;

    animation: ChangeProduct 25s linear infinite alternate;
    -o-animation: ChangeProduct 25s linear infinite alternate;
    -ms-animation: ChangeProduct 25s linear infinite alternate;
    -moz-animation: ChangeProduct 25s linear infinite alternate;
    -webkit-animation: ChangeProduct 25s linear infinite alternate;
}
```



```

.ProductPanel .ThumbBox {
    position: relative;
    border: 4px solid #000;
    width: 44px;
    height: 44px;

    animation: MoveThumbBox 25s linear infinite alternate;
    -o-animation: MoveThumbBox 25s linear infinite alternate;
    -ms-animation: MoveThumbBox 25s linear infinite alternate;
    -moz-animation: MoveThumbBox 25s linear infinite alternate;
    -webkit-animation: MoveThumbBox 25s linear infinite alternate;
}

@keyframes MoveThumbBox {
    0% {left: 0px;} 18% {left: 0px;}
    20% {left: 50px;} 38% {left: 50px;}
    40% {left: 100px;} 58% {left: 100px;}
    60% {left: 150px;} 78% {left: 150px;}
    80% {left: 200px;} 100% {left: 200px;}
}

@-o-keyframes MoveThumbBox {
    0% {left: 0px;} 18% {left: 0px;}
    20% {left: 50px;} 38% {left: 50px;}
    40% {left: 100px;} 58% {left: 100px;}
    60% {left: 150px;} 78% {left: 150px;}
    80% {left: 200px;} 100% {left: 200px;}
}

@-ms-keyframes MoveThumbBox {
    0% {left: 0px;} 18% {left: 0px;}
    20% {left: 50px;} 38% {left: 50px;}
    40% {left: 100px;} 58% {left: 100px;}
    60% {left: 150px;} 78% {left: 150px;}
    80% {left: 200px;} 100% {left: 200px;}
}

@-moz-keyframes MoveThumbBox {
    0% {left: 0px;} 18% {left: 0px;}
    20% {left: 50px;} 38% {left: 50px;}
    40% {left: 100px;} 58% {left: 100px;}
    60% {left: 150px;} 78% {left: 150px;}
    80% {left: 200px;} 100% {left: 200px;}
}

@-webkit-keyframes MoveThumbBox {
    0% {left: 0px;} 18% {left: 0px;}
    20% {left: 50px;} 38% {left: 50px;}
    40% {left: 100px;} 58% {left: 100px;}
    60% {left: 150px;} 78% {left: 150px;}
    80% {left: 200px;} 100% {left: 200px;}
}

@keyframes ChangeProduct {
    0% {background-image: url(img/1.jpg);} 18% {background-image: url(img/1.jpg);}
    20% {background-image: url(img/2.jpg);} 38% {background-image: url(img/2.jpg);}
    40% {background-image: url(img/3.jpg);} 58% {background-image: url(img/3.jpg);}
    60% {background-image: url(img/4.jpg);} 78% {background-image: url(img/4.jpg);}
    80% {background-image: url(img/5.jpg);} 100% {background-image: url(img/5.jpg);}
}

@-o-keyframes ChangeProduct {
    0% {background-image: url(img/1.jpg);} 18% {background-image: url(img/1.jpg);}
    20% {background-image: url(img/2.jpg);} 38% {background-image: url(img/2.jpg);}
    40% {background-image: url(img/3.jpg);} 58% {background-image: url(img/3.jpg);}
    60% {background-image: url(img/4.jpg);} 78% {background-image: url(img/4.jpg);}
    80% {background-image: url(img/5.jpg);} 100% {background-image: url(img/5.jpg);}
}

```

```

@-ms-keyframes ChangeProduct {
    0% {background-image: url(img/1.jpg);}18% {background-image: url(img/1.jpg);}
    20% {background-image: url(img/2.jpg);}38% {background-image: url(img/2.jpg);}
    40% {background-image: url(img/3.jpg);}58% {background-image: url(img/3.jpg);}
    60% {background-image: url(img/4.jpg);}78% {background-image: url(img/4.jpg);}
    80% {background-image: url(img/5.jpg);}100%{background-image: url(img/5.jpg);}
}
@-moz-keyframes ChangeProduct {
    0% {background-image: url(img/1.jpg);}18% {background-image: url(img/1.jpg);}
    20% {background-image: url(img/2.jpg);}38% {background-image: url(img/2.jpg);}
    40% {background-image: url(img/3.jpg);}58% {background-image: url(img/3.jpg);}
    60% {background-image: url(img/4.jpg);}78% {background-image: url(img/4.jpg);}
    80% {background-image: url(img/5.jpg);}100%{background-image: url(img/5.jpg);}
}
@-webkit-keyframes ChangeProduct {
    0% {background-image: url(img/1.jpg);}18% {background-image: url(img/1.jpg);}
    20% {background-image: url(img/2.jpg);}38% {background-image: url(img/2.jpg);}
    40% {background-image: url(img/3.jpg);}58% {background-image: url(img/3.jpg);}
    60% {background-image: url(img/4.jpg);}78% {background-image: url(img/4.jpg);}
    80% {background-image: url(img/5.jpg);}100%{background-image: url(img/5.jpg);}
}
</style>
</head>

<body>
<div class="ProductPanel">
    <div class="Product">&nbsp;</div>
    <div class="ProductThumb">
        
        
        
        
        
    </div>
    <div class="ThumbBox">&nbsp;</div>
</div>
</body>
</html>

```