

CSS3 Transitions

- CSS3, allows us to add an effect when changing from one style to another, without using Flash animations, JavaScripts or JQuery.
- Transitions are effects that let an element gradually change from one style to another.
- CSS transitions let you decide which properties to animate (by *listing them explicitly*), when the animation will start (by setting a *delay*), how long the transition will last (by setting a *duration*), and how the transition will run (by defining a *timing function*, e.g. linearly or quick at the beginning, slow at the end).

Syntax:

```
transition: <property> <duration> <timing-function> <delay>;
```

or

```
transition-property: width;
```

```
transition-duration: 1s;
```

```
transition-timing-function: linear / ease / ease-in / ease-out / ease-in-out / step-start / step-end;
```

```
transition-delay: 2s
```

Example: Transitioning width

```
div {  
  height: 100px;  
  width: 100px;  
  transition: width 2s;  
  background: red;  
}  
div:hover {  
  transition: width 2s;  
  width: 300px;  
  background: blue;  
}
```

Example: Multiple Transitions (Transitioning Width, Height & Transform)

```
div {  
  width: 100px;  
  height: 100px;  
  background: red;  
  transition: width 2s, height 2s, transform 2s;
```

```
}  
div:hover {  
    width: 200px;  
    height: 200px;  
    transform: rotate(180deg);  
}
```

Example: Transition using individual Properties

```
<html lang="en" xmlns="http://www.w3.org/1999/xhtml">  
<head>  
    <meta charset="utf-8" />  
    <title>Transitions Demo</title>  
    <style>  
        div {  
            position: absolute;  
        }  
        div.animate {  
            width: 100px;  
            height: 100px;  
            left: 100px;  
            top: 100px;  
            background: red;  
            border-radius: 50%;  
            transition-property: width,height,border-radius,left,top;  
            transition-timing-function: ease-out;  
            transition-duration: 2s;  
        }  
        div:hover div#one {  
            left: 0px;  
            top: 0px;  
            width: 20px;  
            height: 20px;  
            border-radius: 0%;  
            transition-delay: 1s;  
            transition-duration: 2s;  
        }  
    </style>  
</head>  
<body>  
    <div>  
        <div id="one"></div>  
    </div>  
</body>  
</html>
```

```
div:hover div#two {
    left: 280px;
    top: 0px;
    width: 20px;
    height: 20px;
    border-radius: 0%;
    transition-delay: 1.5s;
    transition-duration: 1s;
}

div:hover div#three {
    left: 280px;
    top: 280px;
    width: 20px;
    height: 20px;
    border-radius: 0%;
    transition-delay: 2s;
    transition-duration: 3s;
}

div:hover div#four {
    left: 0px;
    top: 280px;
    width: 20px;
    height: 20px;
    border-radius: 0%;
    transition-delay: 2.5s;
    transition-duration: 1s;
}
</style>
</head>
<body>
    <div style="border:1px solid grey;width:300px;height:300px">
        <div class="animate" id="one"></div>
        <div class="animate" id="two"></div>
        <div class="animate" id="three"></div>
        <div class="animate" id="four"></div>
    </div>
</body>
```

```
</html>
```

Example: Transitioning effect on Menu

```
.menuButton {  
    position: relative;  
    transition-property: background-color, color;  
    transition-duration: 1s;  
    transition-timing-function: ease-out;  
    text-align: left;  
    background-color: grey;  
    left: 5px;  
    top: 5px;  
    height: 26px;  
    color: white;  
    border-color: black;  
    font-family: sans-serif;  
    font-size: 20px;  
    text-decoration: none;  
    box-shadow: 2px 2px 1px black;  
    padding: 2px 4px;  
    border: solid 1px black;  
}  
  
.menuButton:hover {  
    position: relative;  
    transition-property: background-color, color;  
    transition-duration: 1s;  
    transition-timing-function: ease-out;  
    background-color: white;  
    color: black;  
    box-shadow: 2px 2px 1px black;  
}  
  
<div class="sidebar">  
    <p><a class="menuButton" href="home">Home</a></p>  
    <p><a class="menuButton" href="about">About</a></p>  
    <p><a class="menuButton" href="contact">Contact Us</a></p>  
    <p><a class="menuButton" href="links">Links</a></p>  
</div>
```