

<u>CSS</u>

CSS 3

Agenda



CSS 3

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Objectives

At the end of this module, you will be able to

- Explore the new features introduced in CSS3
- Set shadows for box and text
- Use enhanced border properties
- Use enhanced background properties
- Explore transform and transition properties

CSS 3 Introduction

- As discussed earlier, several new functionalities have been added in CSS 3
- In this section, we will be having a look at the following CSS 3 properties:
 - border-radius
 - text-shadow
 - box-shadow
 - border-image
 - background-size
 - transform-rotate
 - transform-scale
 - transform-skew
 - transition

CSS 3 Border Radius Property

- You can use **border-radius** property to add rounded borders to html elements.
- You can also specify different values for four corners in the following manner:

```
border-top-left-radius: 20px;
border-top-right-radius: 20px;
border-bottom-right-radius: 30px;
border-bottom-left-radius: 30px;
```

Demo: border-radius

```
<!DOCTYPE html>
<ht.ml><head>
<style>
                                                       Output:
Div {
border:2px solid #111111;
                                                        The border-radius property allows you to add
                                                        rounded corners to elements.
padding:10px 40px;
background: #aa00ee;
width:300px;
border-radius:25px;
</style>
</head>
<body>
<div>The border-
  radius property allows you to add rounded corners to elements. </div>
</body></html>
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```

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CSS 3 Text Shadow Property

- You can use text-shadow property to apply shadow to text.
- text-shadow: h-shadow v-shadow blur color;

Where

h-shadow is the horizontal shadow.
v-shadow is the vertical shadow.
blur is the blur distance.
color is the color of shadow.

Demo: text-shadow

```
<html>
                           Output:
<head>
                           This example demonstrates text shadow.
<style>
h1 {
text-shadow: 10px 10px 2px "110000,
</style>
</head>
<body>
<h1>This example demonstrates text shadow</h1>
</body>
</html>
```

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CSS 3 Box Shadow Property

- You can use box-shadow property to attach one or more drop shadows to the box.
- text-shadow: h-shadow v-shadow blur spread color;

Where

h-shadow is the horizontal shadow.
v-shadow is the vertical shadow.
blur is the blur distance.
spread is the size of the shadow.
color is the color of shadow.

Demo: box-shadow

```
<!DOCTYPE html>
<html>
<head>
<style>
div {
width:300px;
height:100px;
background-color:yellow;
box-shadow: 10px 10px 25px 10px #ff0000;
</style>
</head>
<body>
<div>This example demonstrates box shadow</div>
</body>
</html>
```

Output:

This example demonstrates box shadow

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CSS 3 Border Image Property

- You can use border-image shorthand property for setting up border-image-source, border-image-width, border-image-repeat properties.
- border-image:url(wonder.bmp) 30 30 round;
- Where, *url* is used to specify the image file

Demo: border-image

```
<!DOCTYPE html>
<html>
<head>
<style>
div{
border:15px solid transparent;
width:250px;
padding:10px 20px;
#tiled {
border-image:url(wonder.bmp) 30 30 round;
```

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Demo: border-image (Contd.).

```
#stretch {
border-image:url(wonder.bmp) 30 30 stretch;
</style>
</head>
<body>
The border-image property specifies an image to be used as a border.
<div id="tiled">Here, the image is tiled (repeated) to fill the area</div>
<br>
<div id="stretch">Here, the image is stretched to fill the area</div>
Image that was used for demonstration :
<imq src="wonder.bmp">
</body>
</html>
```

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Demo: border-image (Contd.).

Output:

The border-image property specifies an image to be used as a border.





Image that was used for demonstration:



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Demo: background-size

• Using this property, we will see how the background image grows in size as we keep appending the text.

```
<html>
<head>
<style>
div {
background:url(wonder.bmp);
background-size:100% 100%;
background-repeat:no-repeat;
}
</style>
</head>
```

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Demo: background-size (Contd.).

```
<body >
<div style = "font-Family:arial; color:yellow; font-size:80px;">

Welcome to Wipro.

</div>
</body>
</html>
```

Output:



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Quiz

1. If we want to have a div element with box shadow effect having vertical shadow of 10px, horizontal shadow of 20px, the spread size as 40px, a blur distance of 30px and the color of shadow as red, which one of the following we will have to use:

```
a) div { box-shadow: 40px 30px 20px 10px #ff0000; }
```

- b) div { box-shadow: 10px 20px 30px 40px #ff0000; }
- c) div { box-shadow: 20px 10px 30px 40px #ff0000; }
- d) div { box-shadow: 20px 10px 40px 30px #ff0000;}

transform:rotate method

- When you use *transform:rotate* method, the element rotates clockwise at a given degree.
- If you want rotation in anti-clockwise direction, use negative values.

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Demo: transform:rotate

```
<html>
<head>
<style>
div{
width:200px;
height:100px;
background-color:yellow;
/* Rotate div */
transform:rotate(30deg);
</style>
</head>
```

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<u>Demo: transform:rotate (Contd.).</u>

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transform:scale method

- When you use *transform:scale* method, the element increases or decreases in size, depending on the parameters given for the width (X-axis) and the height (Y-axis)
- The value scale(2,3) transforms the width to betwice its original size and the height thrice its original size.

Demo: transform:scale method

```
<html>
<head>
<style>
div {
width:200px;
height:100px;
margin: 0px auto;
background-color:yellow;
div#div2 {
background-color:cyan;
transform:scale(2,3);
</style>
</head>
```

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<u>Demo: transform:scale method (Contd.).</u>

```
<body align="centre">
This example is a demonstration of transform: scale method
<div>Hello, Welcome to the training on CSS3</div>
<br><br><br><br><br><br><br><br></pr>
<div align="center" id="div2" >
Hello, Welcome to the training on CSS3
</div>
</body>
</html>
```

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Demo: transform:scale method (Contd.).

This example is a demonstration of transform:scale method

Output:

Hello, Welcome to the training on CSS3

Hello, Welcome to the training on CSS3

transform:skew method

- When you use the *transform:skew* method, the element turns in a given angle, depending on the parameters given for the horizontal(X-axis) and the vertical(Y-axis) lines:
- The value skew(35deg,25deg) turns the element 35 degrees around the X-axis and 25 degrees around the Y-axis.

Demo: transform:skew method

```
<html>
<head>
<style>
div {
width:200px;
height:100px;
margin: 0px auto;
background-color:yellow;
div#div2 {
background-color:cyan;
transform:skew(35deg,25deg);
</style>
</head>
```

Demo: transform:skew method (Contd.).

```
<body align="centre">
This example is a demonstration of transform: skew method
<div>Hello, Welcome to the training on CSS3</div>
<br>
<div align="center" id="div2" >
Hello, Welcome to the training on CSS3
</div>
</body>
</html>
```

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Demo: transform:skew method (Contd.).

Output:

This example is a demonstration of transform:skew method



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CSS3 Transitions

- With CSS3, an effect can be added, when changing from one style to another, without using Javascript or Flash animation.
- CSS3 transitions are effects that let an element gradually change from one style to another.
- For transition effect, we must:
 - > Specify the CSS property for which we want to add an effect.
 - > Specify the duration of this effect.

Demo: CSS Transition

```
<html>
<head>
<style>
div{
width:100px;
height:100px;
background:red;
transition: width 2s, height 2s;
div:hover{
width:200px;
height:200px;
transform:rotate(180deg);
```

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Demo: CSS Transition (Contd.).

```
</head>
</body>
<b> Demonstration of Transition</b>
<div>Please hover over this object to see the transition effect!
</div>
</body>
</html>

Demonstration of Transition

Output:

Demonstration of Transition

Output:

Demonstration of Transition

Output:

Demonstration of Transition

Output:

Outp
```

Please hover over this object o see the transition effect!

Quiz

```
div1 {transform:rotate(30deg);}
div2 {transform:rotate(-30deg);}
```

Related to the code given above, which of the following statement is true:

- a) div1 rotates 30 degrees anti-clockwise while div2 rotates 30 degrees clockwise
- b) div1 rotates 30 degrees clockwise while div2 rotates 30 degrees anti-clockwise
- c) Negative values have no effect. Both div1 and div2 rotate 30 degrees in clockwise direction.
- d) Negative values have no effect. Both div1 and div2 rotate 30 degrees in anti-clockwise direction.

Summary

- In this sub-module, you were able to
 - Explore the new features introduced in CSS3
 - Set shadows for box and text
 - Use enhanced border properties
 - Use enhanced background properties
 - Explore transform and transition properties



Thank You