



CSS

CSS Box Model

Agenda

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Objectives

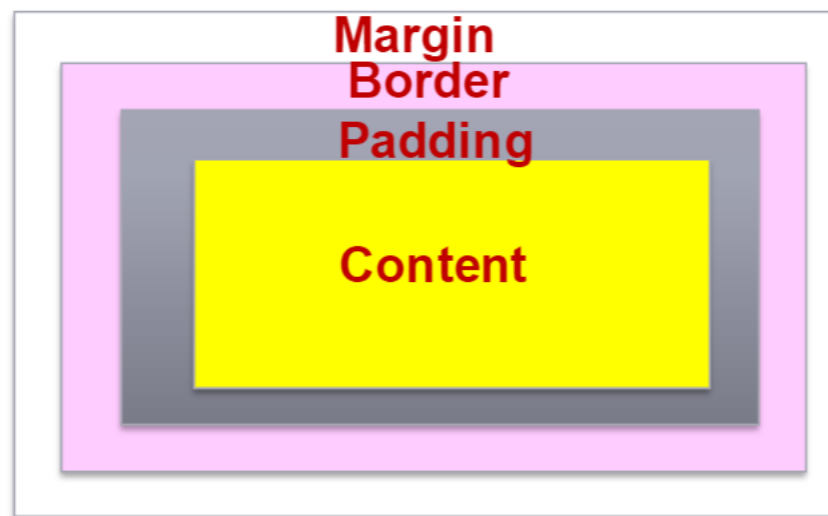
At the end of this module, you will be able to

- Design the layout of a document using Box Model
- Set the height and Width of an element
- Set padding, border and margin properties

Box Model : Introduction

- Box model is useful for designing the layout of an HTML Page.
- CSS Box model describes a box that wraps around HTML elements.
- Using this model, we can define the margins, borders, padding and the actual content.
- We can place border around elements and space elements in relation to each other.

Box Model : Illustration



Setting the height and width of an element

- You can set the height and width of an element using the **height** and **width** properties.
- The `width` attribute specifies the width of an image, in pixels.
- The `height` attribute specifies the height of the element, in pixels.

Demo :Setting the height and width

```
<html><head><style>
img.large{
height:200px; width:300px;
}
img.normal {
    height:auto;width:auto;
}
p.custom {
    height:120px;width:150px;
}
</style></head>
```


Demo :Setting the height and width(Contd.).

```
<body>
```

```

```

```

```

```
<p class="custom">We are using user defined height and width for this  
  paragraph</p>
```

```
<p>This is the paragraph created without using user defined height and  
  weight. </p>
```

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

Output :



We are using user
defined height and width
for this paragraph

This is the paragraph that we created, without using user defined height and weight.

CSS Padding

- You can use the CSS padding properties to define the space between the element border and the element content.
- It is possible to change the top, right, bottom and left padding independently using separate properties.
- You can also use a shorthand padding property to change all paddings in a single statement.
- Individual padding properties can be specified as follows :

padding-top:20px;
padding-bottom:30px;
padding-right:25px;
padding-left:10px;

CSS Padding (Contd.).

Shorthand padding property can be specified as follows :

`padding : 20px 30px 25px 10px;`

where

top padding is 20px.

right padding is 30px.

bottom padding is 25px.

left padding is 10px.

CSS Border

- You can use the CSS Border properties to specify the style and color of an element's border.
- You can use the following properties :

border-style

border-width

border-color

Demo : CSS Padding and Border

```
<!DOCTYPE html>
<html><head><style>
p {
background-color:cyan;
}
img.i1
{
padding-top:20px;
padding-bottom:25px;
padding-right:15px;
padding-left:10px;
border-style:solid;
border-width:5px;
border-color:red;
}
```

Demo : CSS Padding and Border (Contd.).

```
</style>
</head>
<body>
<p> The Kitten <br>


</p>
</body>
</html>
```

Output :



Quiz

1. If you use negative values for padding, it will result in
 - a) An Error. The HTML page will not be displayed.
 - b) No error. The HTML page will be displayed with value of padding considered as zero.
 - c) The HTML page will be displayed with overlapping of border with the content.
 - d) None of the above.

CSS Margin

- Using CSS Margin properties you can specify the space around elements.
- You can also specify different margin for different sides :

margin-top: 50px;
margin-bottom: 30px;
margin-right: 25px;
margin-left: 10px;

- You can also specify Margin shorthand property to specify margin values.
- The shorthand property for all margin properties is **margin**.

margin: 50px 30px 25px 10px; where

top margin is 50px.

right margin is 30px.

bottom margin is 25px.

left margin is 10px.

Demo : CSS Margin

```
<!DOCTYPE html>
<html>
<head>
<style>
p {
background-color:cyan;
}
img.i1 {
padding:20px;
border-style:solid;
border-width:5px;
border-color:red;
margin: 40px 30px 20px 10px;
}
</style>
```

Demo : CSS Margin

```
</head>
<body>
<p> The Kitten<br>


</p>
</body>
</html>
```

Output :



Quiz

1. How do you assign 25px as the value of top margin for a paragraph?
 - a) `p {margin-top:25px;}`
 - b) `p {top-margin:25px;}`
 - c) `p {upper-margin:25px;}`
 - d) `p {margin-upper:25px;}`

2. Which of the following is not a valid border property?
 - a) `border-style`
 - b) `border-width`
 - c) `border-color`
 - d) `border-height`

Summary

In this module, you were able to :

- Design the layout of a document using Box Model
- Set the height and Width of an element
- Set padding, border and margin properties



Thank You