



# CSS

## CSS Box Model

# Agenda

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## **CSS Box Model**

# CSS Box Model



# Objectives

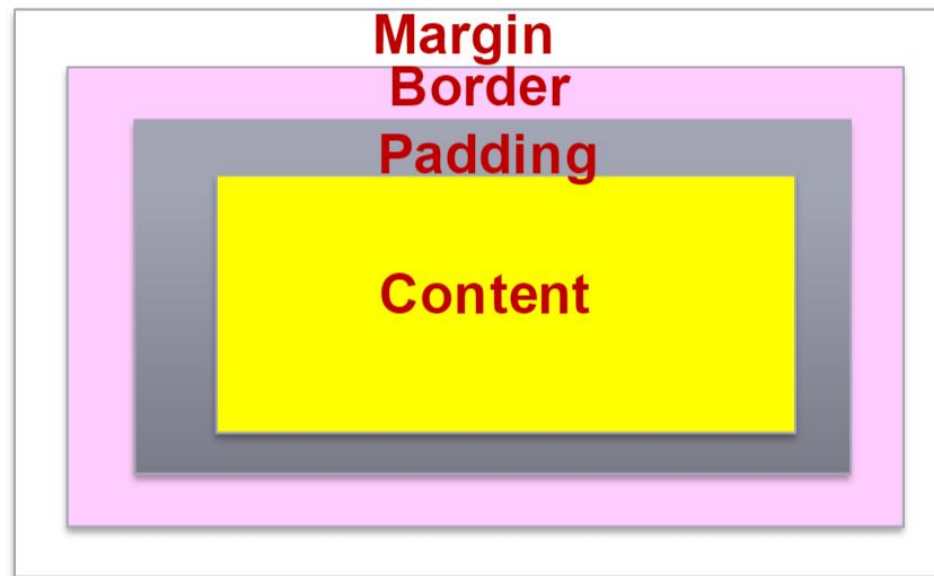
At the end of this module, you will be able to

- 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

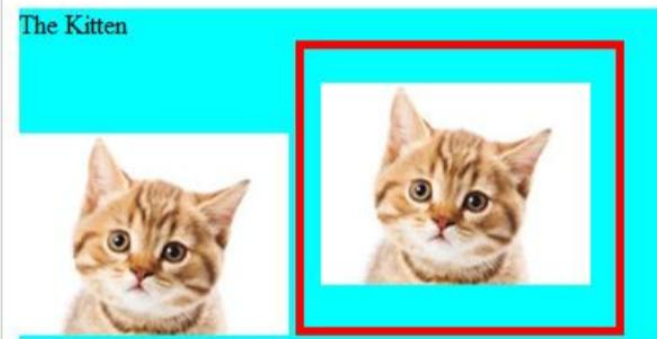
```
<!DOCTYPE html>
<html><head><style>
p {
background-color:cyan;
}
img.i1
{
padding-top:20px;
padding-bottom:25px;
padding-right:15px;
padding-left:10px;
border-style:solid;
border-width:5px;
border-color:red;
}
```

## 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