



# CSS

## CSS Box Model



# Agenda

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## CSS Box Model

# CSS Box Model



# Objectives

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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

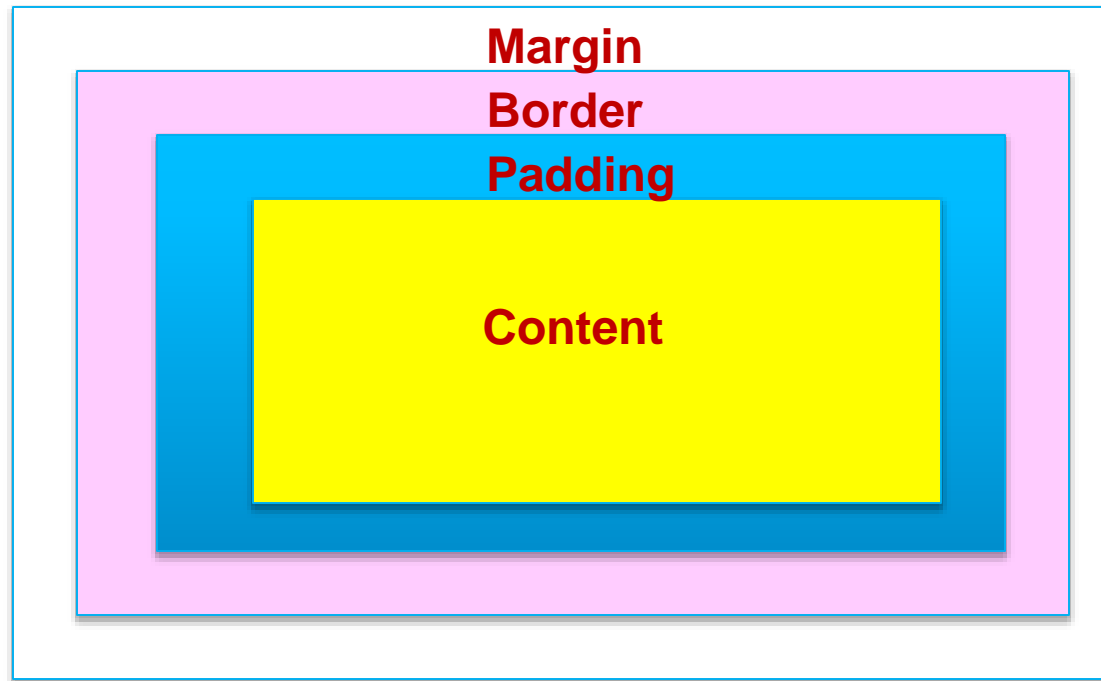
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Box model is useful for designing the layout of an HTML Page.

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

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You can set the height and width of an element using the **height** and **width** properties.

# 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><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

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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.

# CSS Padding (Contd.).

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Individual padding properties can be specified as follows :

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

# CSS Padding (Contd.).

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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

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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

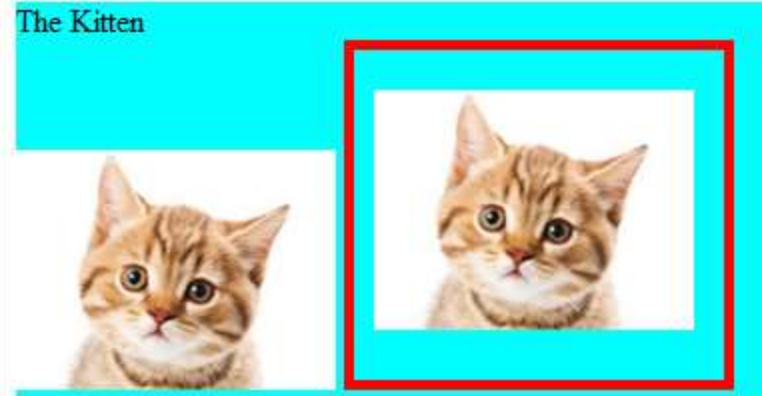
```
<!DOCTYPE html>
<html><head><style>
p {
background-color:cyan;
}
img.i1
{
padding-top:20px;
padding-bottom:25px;
padding-right:15px;
padding-left:10px;
border-style:solid;
border-width:5px;
border-color:red;
}
```

# Demo : CSS Padding and Border (Contd.).

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


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

**Output :**



# Quiz

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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

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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;
```



# CSS Margin (Contd.).

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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

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```
<!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

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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

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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**

