

## Chapter 3 Css Box Model

The CSS box model looks at all the HTML elements as boxes.

Margin

.....

border

.....

Padding

.....

Content

.....

Padding

.....

Border

.....

Margin

### Setting width & height

We can set width and height in CSS as follows.

```
#box{  
Height:60px;  
Width:60px'  
}
```

Note that the total width / height in css as follows.

Total height = height + top/bottom padding + top/ bottom border + top/bottom margin.

## Setting margin & padding

We can set margin and padding in CSS as follows.

```
#box{  
  
margin:6px;           sets top, bottom, left and right values  
  
padding:6px;  
  
}  
  
.boxmain{  
  
Margin: 7px 3px 2px 10px;           top, right, bottom, Left  
  
}  
  
.newbox{  
  
Margin: 23px 12px;           top & bottom           left & right  
  
}
```

We can also set individual margins / padding like this:

```
Margin-top: 44px;  
  
Margin-bottom: 4px;  
  
Margin-left: 5px;  
  
Margin-right: 12px;
```

## Setting Borders

We can set border in CSS as follows.

```
#box{
```

```
Border-width : 2px;  
Border-style : solid;  
Boder-color: green;  
}
```

## Border radius

We can set border radius to create rounded borders.

```
#box2{  
Border-radius: 2px;  
}
```

## Margin collapse

When two margins from different elements overlap, the equivalent margin is the greater of the two. This is called margin collapse.

.....

.....

Margin 2px

Margin 7px

.....

.....

## Box sizing

Determines what out of padding and borders is included in elements width and height.

Can be content-box or border-box

.box1{

Box-sizing: border-box;

}

## Source Code:

```
Index.html
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Chapter 3 box models </title>
  <style>
    * {
      margin: 0;
      padding: 0;
    }

    .content {
      height: 433px;
      width: 345px;
      background: green;
      margin: 5px;
      padding: 8px;
      border: 2px solid black;
      margin: 5px 3px 4px 2px;
      border-radius: 24px;
    }
  </style>
</head>

<body>
  <div class="content">
    Lorem ipsum dolor sit amet consectetur adipisicing elit. Quibusdam
    dolore, quas eum hic, rem possimus molestiae in qui facilis neque ut saepe modi,
    nesciunt ea corrupti corporis veritatis quis esse.
```

```

    </div>

</body>

</html>

Margincollapse.html
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Margin Collapse </title>
</head>
<style>
    * {
        margin: 0;
        padding: 0;
    }

    .box1 {
        background-color: aqua;
        margin: 30px;
        height: 20%;
        width: 233px;
        border: 2px solid green;
    }

    .box2 {
        background-color: green;
        height: 20%;
        width: 233px;
        box-sizing: content-box;
        /* do effect the content*/
        box-sizing: border-box;
    }
</style>

<body>

    <div class="box1">
        Lorem ipsum dolor sit amet consectetur adipisicing elit. Quod modi quo,
        ex possimus veniam earum! Esse sed distinctio tempora magni libero. In totam

```

```
iusto excepturi quod ea aut dignissimos deleniti. voluptatum illo ipsa quasi vel
unde autem incidunt,
    ratione, corporis quidem par accusantium provident itaque nihil, placeat
unde? Nihil ullam consequuntur fugit! Quam, odit aliquid illum numquam facere
impedit laboriosam similique, eius culpa blanditiis reprehenderit alias, optio
nostru
    </div>
    <div class="box2">
        Lorem ipsum dolor sit amet consectetur adipisicing elit. Qui, quam nisi
itaque corporis dolorum dolore? Eum, obcaecati porro! Voluptatem necessitatibus
perspiciatis, corrupti consequatur reprehenderit adipisci natus sed tempora
voluptatibus suscipit delectus
        m dicta. Modi totam beatae sequi, dolore eum explicabo suscipit ea iste
veritatis provident dolorum animi esse reprehenderit nisi sed voluptates? Facilis
minus magnam laborum quam praesentium accusantium reprehenderit necessitatibus
ipsam alias
        laudantium saepe, totam, voluptate vel neque. Eaque rerum cumque
laudantium fugit vitae quidem. Iusto sed ipsam officia dignissimos ab eveniet
maiores amet alias nulla. Sapiente, accusantium pariatur tempore deserunt
delectus omnis ex ipsa atque,
        repudiandae eos repellat culpa qui laudantium. Qui consectetur placeat
esse quidem tenetur nulla corporis! Autem illum impedit vitae sequi enim a, error
vel qui necessitatibus repellat quisquam alias odio laudantium cumque ipsam vero
odit eum
        porro, ad veniam temporibus voluptvitae, excepturi minima.

    </div>
</body>

</html>
```

Thank You