W3.CSS – Border

W3.CSS provides various numbers of classes for defining border of HTML elements. These are:

- **w3-border**
  The *w3-border* class is used to define border at all side to HTML element.

- **w3-border-top**
  The *w3-border-top* class is used to define border at top side to HTML element.

- **w3-border-bottom**
  The *w3-border-bottom* class is used to define border at bottom side to HTML element.

- **w3-border-left**
  The *w3-border-left* class is used to define border at left side to HTML element.

- **w3-border-right**
  The *w3-border-right* class is used to define border at right side to HTML element.

- **w3-border-0**
  The *w3-border-0* class is used to remove all borders to HTML element.
**Code: Setting Border**

```html
<html>
  <head>
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link rel="stylesheet" href="https://www.w3schools.com/w3css/4/w3.css">
  </head>
  <body>
    <div class="w3-container">
      <h1 class="w3-panel w3-border">I have border at all side.</h1>
      <h1 class="w3-panel w3-border-left">I have border at left side.</h1>
      <h1 class="w3-panel w3-border-top w3-border-bottom">I have border at top and bottom side.</h1>
      <h1 class="w3-panel w3-border-left w3-border-right">I have border at left and right side.</h1>
    </div>
  </body>
</html>
```

**Output:**

![Output](image_url)

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**Setting Color of the border**

Following two classes are for setting color of the border:

- **w3-border-color**
  
The **w3-border-color** class is used to define color of the border to HTML element. Color needs to be specified like **w3-border-khaki**, **w3-border-yellow** etc.

- **w3-hover-border-color**
  
The **w3-hover-border-color** class is used to define color of the border when mouse is moved over the HTML element. Color needs to be specified like **w3-hover-border-red**, **w3-border-aqua** etc.

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*Prepared By: [Ajay Verma]*
**Code: Setting Color of the Border**

```html
<html>
  <head>
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link rel="stylesheet" href="https://www.w3schools.com/w3css/4/w3.css">
  </head>
  <body>
    <div class="w3-container">
      <h1 class="w3-panel w3-border-lime">I have lime color border at all side.</h1>
      <h1 class="w3-panel w3-border-red">I have red color border at left and right side.</h1>
      <h1 class="w3-panel w3-border-top w3-border-bottom w3-yellow w3-border-deep-purple">I have deep purple color border at top and bottom side and yellow background color.</h1>
      <h1 class="w3-panel w3-border-lime w3-hover-border-green">I have lime color border at all side, green color border when mouse moved over me.</h1>
    </div>
  </body>
</html>
```

**Output:**

![Output of the code](image)

When mouse is moved over, border color is changed into green.

Prepared By Ajay Verma
### Setting thick border

Following classes are for setting thick border:

- **w3-topbar**
  
  The `w3-topbar` class is used to define thick border at top side to HTML element.

- **w3-bottombar**
  
  The `w3-bottombar` class is used to define thick border at bottom side to HTML element.

- **w3-leftbar**
  
  The `w3-leftbar` class is used to define thick border at left side to HTML element.

- **w3-rightbar**
  
  The `w3-rightbar` class is used to define thick border at right side to HTML element.

### Code: Setting Thick Border

```html
<html>
  <head>
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link rel="stylesheet" href="https://www.w3schools.com/w3css/4/w3.css">
  </head>
  <body>
    <div class="w3-container">
      <h1 class="w3-panel w3-leftbar w3-border-lime">I have lime color thick border at left side.</h1>
      <br>
      <h1 class="w3-panel w3-bottombar w3-border-red">I have red color thick border at bottom side.</h1>
      <br>
      <h1 class="w3-panel w3-topbar w3-yellow w3-border-deep-purple">I have deep purple color thick border at top side and</h1>
    </div>
  </body>
</html>
```

### Output:

- I have lime color thick border at left side.
- I have red color thick border at bottom side.
- I have deep purple color thick border at top side and yellow background color.
- I have lime color thick border at right side, that changes into green color when mouse moved over me.
Setting Rounded border

Following classes are used for setting rounded border:

`w3-round`

The `w3-round` class is used to define rounded border to HTML element.

`w3-round-size`

The `w3-round-size` class is used to define rounded border by specifying size. The size can be small, medium, large, xlarge, xxlarge.

**Code:**

```html
<html>
<head>
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet" href="https://www.w3schools.com/w3css/4/w3.css">
</head>
<body>
  <div class="w3-container">
    <h1 class="w3-panel w3-border lime w3-hover-border-green">
      I have lime color thick border at right side, that changes into green color when mouse moved over me.
    </h1>
    <h1 class="w3-panel w3-border-small w3-border-red">
      I have red color small rounded border.
    </h1>
  </div>
</body>
</html>
```

**Output:**

![Output Image]

I have lime color rounded border.

I have red color small rounded border.

I have deep purple color large rounded border and yellow background color.

I have lime color xlarge rounded border.

I have deep purple color xxlarge rounded border.

Prepared By Ajay Verma
Exercise:

1) Create a webpage that has 4 paragraphs and style the paragraph using w3css classes as following:

- First paragraph must have left thick green color border.
- Second paragraph must have red color border at all side, and on mouse hover changes the border color to green.
- Third paragraph must have thick bottom khaki color border and background color as aqua.
- Fourth paragraph must have rounded border.