

CSS Border

The CSS border is a shorthand property used to set the border on an element.

The **CSS** border properties are use to specify the style, color and size of the border of an element. The CSS border properties are given below

- border-style
- border-color
- border-width
- border-radius

1) CSS border-style

The Border style property is used to specify the border type which you want to display on the web page.

There are some border style values which are used with border-style property to define a border.

1. {border-style: none;}
2. {border-style: dotted;}
3. {border-style: dashed;}
4. {border-style: solid;}
5. {border-style: double;}
6. {border-style: groove;}

A dotted border.

A dashed border.

A solid border.

A double border.

A groove border.

2) CSS border-width

The border-width property is used to set the border's width. It is set in pixels. You can also use the one of the three pre-defined values, thin, medium or thick to set the width of the border.

CSS border-radius property

This CSS property sets the rounded borders and provides the rounded corners around an element, tags, or div. It defines the radius of the corners of an element.

It is shorthand for **border-top-left-radius**, **border-top-right-radius**, **border-bottom-right-radius** and **border-bottom-left-radius**. It gives the rounded shape to the corners of the border of an element. We can specify the border for all four corners of the box in a single declaration using the border-radius. The values of this property can be defined in percentage or length units.

Property	Description
border-top-left-radius	It is used to set the border-radius for the top-left corner
border-top-right-radius	It is used to set the border-radius for the top-right corner
border-bottom-right-radius	It is used to set the border-radius for the bottom-right corner
border-bottom-left-radius	It is used to set the border-radius for the bottom-left corner

Let's see what happens when we provide a single value, two values, three values, and four values to this property.

- If we provide a single value (such as **border-radius: 30px;**) to this property, it will set all corners to the same value.
- When we specify two values (such as **border-radius: 20% 10% ;**), then the first value will be used for the top-left and bottom-right corners, and the second value will be used for the top-right and bottom-left corners.
- When we use three values (such as **border-radius: 10% 30% 20%;**) then the first value will be used for the top-left corner, the second value will be applied on top-right, and bottom-left corners and the third value will be applied to the bottom-right corner.

- Similarly, when this property has four values (**border-radius: 10% 30% 20% 40%;**) then the first value will be the radius of top-left, the second value will be used for the top-right, the third value will be applied on bottom-right, and the fourth value is used for bottom-left.

If the **border-style** property has four values:

- **border-style: dotted solid double dashed;**
 - top border is dotted
 - right border is solid
 - bottom border is double
 - left border is dashed

If the **border-style** property has three values:

- **border-style: dotted solid double;**
 - top border is dotted
 - right and left borders are solid
 - bottom border is double

If the **border-style** property has two values:

- **border-style: dotted solid;**
 - top and bottom borders are dotted
 - right and left borders are solid

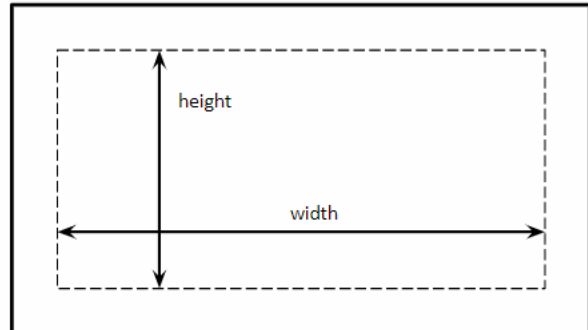
If the **border-style** property has one value:

- **border-style: dotted;**
 - all four borders are dotted

NOTES

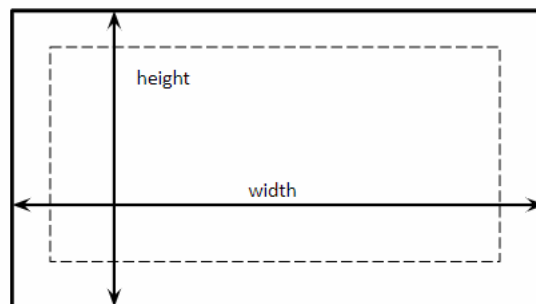
Standard Box Model

```
.box {  
  width: 350px;  
  height: 150px;  
  margin: 10px;  
  padding: 25px;  
  border: 5px solid black;  
}
```



Total height of box will be $150 + 25 + 25 + 5 + 5 = 210\text{px}$ and width will be $350 + 25 + 25 + 5 + 5 = 410\text{px}$

Alternative Box Model



By default box will be of type standard box model if you want to change it to alternative then use `box-sizing : border box` property.