

Cascading Style Sheets

The Box Model

Exploring Margin Properties

The blank area around the border of an element is called margin. It is used to create an extra space around an element. It is completely transparent and does not contain any background color. Margin is also used to determine the spacing around different elements. The margin property is used to set all the sides of an element, such as top, right, bottom, and left. The syntax to set the margin property is as follows:

```
P {margin: value ;}
```

The following are the possible values of the margin property:

- **Auto**—Defines margin.
- **Length**—Defines a fixed margin in px, pt, and cm. The default value of this property is 0px.
- **%** —Defines margin in percentage. The value of margin is the height of the nearest block.
- **Inherit**— Defines that margin should be inherited from the parent element.

A box has four sides; therefore, the margin in a box is divided into the following four properties:

- margin-top
- margin-bottom
- margin-right
- margin-left

The following code snippet shows the specifications of margin properties in the box model:

```
#container
{
    margin-top: 7px;
    margin-left: 25%;
    margin-right: auto;
    margin-bottom: 45px;
    border: 2px solid 000000;
}
```

The top, right, bottom, and left values of a margin can be changed independently by using different properties, such as margin-top, margin-right, margin-bottom, and margin-left. A shorthand margin property is used to change all the properties of margin at once. The values of margin properties range between one and four.

For example:

```
#id1 {margin: 12px, 25px, 150px, 100px ;} /* set top, right, bottom, left margin in one line */
#id2 {margin: 25px ;} /* set all side margin 25px */
```

The property of element specifies that the top margin has the value of 12px, the right margin has the value of 25px, the bottom margin has the value of 150px, and the left margin has the value of 100px. If the margin property has only one value, i.e. 25px, then all the sides of the margin, such as left, right, top and bottom have the equal value of 25px.

Example:

```
<!DOCTYPE html>
<html><head><style>
div { margin: 70px;
      border: 1px solid #4CAF50;}
</style></head>
<body>
<div>This element has a margin of 70px.
</div>
</body></html>
```

This element has a margin of 70px.

```
<!DOCTYPE html>
<html><head><style>
div { border: 1px solid black;
      margin: 25px 50px 75px 100px;
      background-color: lightblue;}
</style></head>
<body><h2>The margin shorthand property - 4 values</h2>
<div>This div element has a top margin of 25px, a right margin of 50px, a bottom margin of 75px, and a left margin of 100px.
</div>
<hr>
</body></html>
```

The margin shorthand property - 4 values

This div element has a top margin of 25px, a right margin of 50px, a bottom margin of 75px, and a left margin of 100px.

```
<!DOCTYPE html>
<html><head><style>
div { border: 1px solid black;
      margin-top: 100px;
      margin-bottom: 100px;
      margin-right: 150px;
      margin-left: 80px;
      background-color: lightblue;}
</style></head>
<body>
<h2>Using individual margin properties</h2>
<div>This div element has a top margin of 100px, a right margin of 150px, a bottom margin of 100px, and a left margin of 80px.</div>
</body></html>
```

Using individual margin properties

This div element has a top margin of 100px, a right margin of 150px, a bottom margin of 100px, and a left margin of 80px.

Exercise:

- 1: Write short note on Margin Property.
- 2: Give an Example of Margin Property