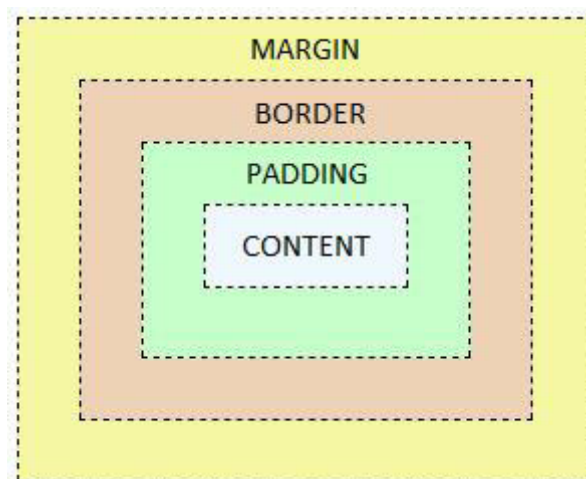


Box Model in CSS

Overview

Box model describes the layout of the elements. The HTML elements are considered as boxes.

The CSS box model is essentially a **box that wraps around every HTML element**. It consists of: **margins**, **borders**, **padding**, and **content**. The image below illustrates the box model.



- **Content** - The content of the box, where text and images appear
- **Padding** - Clears an area around the content. The padding is transparent
- **Border** - A border that goes around the padding and content
- **Margin** - Clears an area outside the border. The margin is transparent.

The element's **total width** is equal to the total of the horizontal borders, padding, and content width of the element.

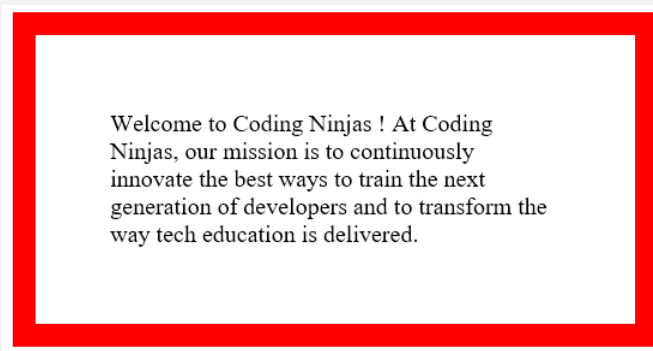
The **total height** of the element is equal to the total of the vertical borders, padding, and content height of the element.

HTML :

```
<div>
    Welcome to Coding Ninjas !
    At Coding Ninjas, our mission is to continuously innovate the
    best ways to train the next generation of developers and to
    transform the way tech education is delivered.
</div>
```

CSS :

```
div {
    width: 300px;
    border: 15px solid red;
    padding: 50px;
    margin: 20px;
}
```



Browser :

Width and Height of an Element

By using CSS's width and height properties, only the height and width of the content box is set. To calculate the total size of an element, you must also add padding, borders and margins.

Example :

```
div {
    width: 400px;
    padding: 10px;
    border: 5px solid gray;
    margin: 10;
}
```

❖ **Width of this div will be 450.**

Calculation :

```
400px (width)
+ 20px (left + right padding)
+ 10px (left + right border)
= 430px
```