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# **CSS Properties**

# **Padding in CSS**

**Padding** is a CSS property that adds space **inside** an element, between its content and its border. It helps in controlling the spacing inside elements without affecting their border or margin.

## **Syntax:**

```
element {
    padding: value; /* Can be in px, %, em, etc. */
}
```

### **Different Ways to Use Padding:**

#### 1. Equal Padding on All Sides

```
div {
    padding: 20px; /* Adds 20px padding on top, right, bottom, and left */
}
```

#### 2. Different Padding for Each Side

```
div {
    padding-top: 10px;
    padding-right: 20px;
    padding-bottom: 15px;
    padding-left: 25px;
}
```

#### 3. Shorthand Notation

```
div {
    padding: 10px 20px 15px 25px;
    /* Order: TOP RIGHT BOTTOM LEFT */
}
```

- Two values: padding: 10px 20px; (Top-Bottom 10px, Left-Right 20px)
- Three values: padding: 10px 20px 15px; (Top 10px, Left-Right 20px, Bottom 15px)
- One value: padding: 10px; (Applies 10px padding on all sides)

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## **Example:**

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>CSS Padding Example</title>
   <style>
        .box {
            background-color: lightblue;
            padding: 20px; /* Adds space inside the box */
            border: 2px solid blue;
            width: 200px;
            text-align: center;
   </style>
</head>
<body>
   <div class="box">This is a padded box</div>
</body>
</html>
```

# **Key Points:**

- Padding increases the **inner space** of an element.
- It does not affect the margin (space **outside** the element).
- It can be set in various units like px, %, em, rem, etc.
- Negative padding values are not allowed.