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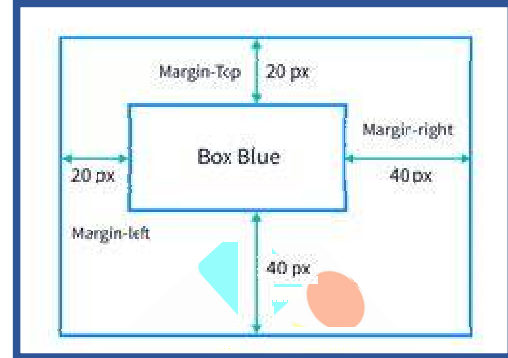
Dynamic HTML Basics

Module 5 - Margins and Padding in CSS

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Margin

Margin refers to the space between an element's border and the surrounding elements. It creates outer space around the element, separating it from other elements. Margins are used to create distance between elements, ensuring they are spaced properly within the layout.

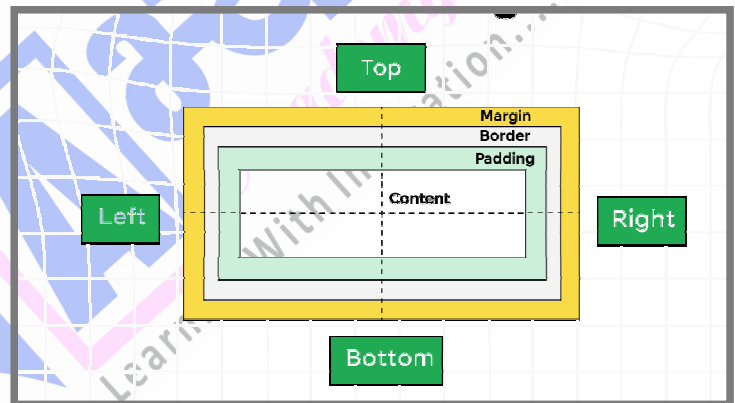


Syntax margin: top right bottom left;

- top: Margin at the top of the element.
- right: Margin at the right side of the element.
- bottom: Margin at the bottom of the element.
- left: Margin at the left side of the element.

Padding

Padding refers to the space between an element's content and its border. It creates inner space within the element, pushing the content away from the edges. Padding is used to create breathing room inside an element, ensuring that the content doesn't touch the element's edges.



Syntax padding: top right bottom left;

- top: Padding on the top of the element.
- right: Padding on the right side of the element.
- bottom: Padding on the bottom of the element.
- left: Padding on the left side of the element.

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Use of Margin in CSS

Margin controls the space outside an element – it pushes the element away from other elements.



Use cases:

- To create space between elements, like between two divs or a heading and a paragraph.
- To center elements horizontally (margin: auto).
- To prevent elements from overlapping or being too close to each other.



Use of Padding In CSS

Padding controls the space inside an element – it pushes the content away from the border of that element.



Use cases:

- To create space around the content inside a box (like text inside a button).
- To improve readability and visual spacing inside elements.
- To give elements a larger clickable area without increasing their outer size.



Difference Between Margin and Padding In CSS

Feature	Padding	Margin
Definition	Space inside the element, between the content and the border	Space outside the element, between the element and others
Affects	The internal spacing of an element	The external spacing around an element
Pushes	Content away from the border	Elements away from each other



Margin Using Internal CSS



```
<!DOCTYPE html>
<html>
<head>
<title>Margin Example</title>
```



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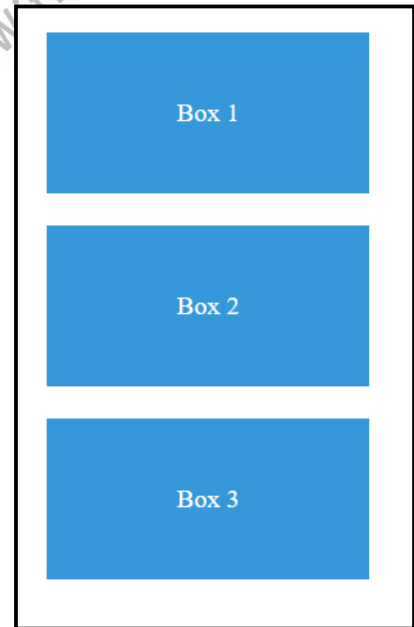
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```
<style>
.box {
width: 200px;
height: 100px;
background-color: #3498db;
color: white;
text-align: center;
line-height: 100px;
margin: 20px; /* Adds space around the box */
}
</style>
</head>
<body>
<div class="box">Box 1</div>
<div class="box">Box 2</div>
<div class="box">Box 3</div>
</body>
</html>
```

Explanation of the above code

- Each .box has a margin: 20px;, which adds 20 pixels of space around each box.
- This creates spacing between the boxes vertically and between the boxes and the edges of the page.
- You can adjust the margin to margin-top, margin-bottom, etc., for more precise control.

Output of above code



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Padding Using Internal CSS

```
<!DOCTYPE html>
<html>
<head>
<title>Padding Example</title>
<style>
/* Padding applied to all sides equally */
.box {
padding: 20px;
background-color: lightblue;
}

/* Padding with different values: top, right, bottom, left */
.box-different {
padding: 10px 20px 15px 5px; /* top right bottom left */
background-color: lightgreen;
}

/* Padding using shorthand for top-bottom and left-right */
.box-shorthand {
padding: 10px 15px; /* top & bottom = 10px, left & right = 15px */
background-color: lightcoral;
}

/* Padding on specific sides */
.box-specific {
padding-top: 10px;
padding-right: 20px;
padding-bottom: 15px;
padding-left: 5px;
background-color: lightyellow;
}
</style>
</head>
<body>
<div class="box">Equal Padding</div>
<div class="box-different">Different Padding</div>
<div class="box-shorthand">Shorthand Padding</div>
<div class="box-specific">Specific Side Padding</div>
</body>
</html>
```



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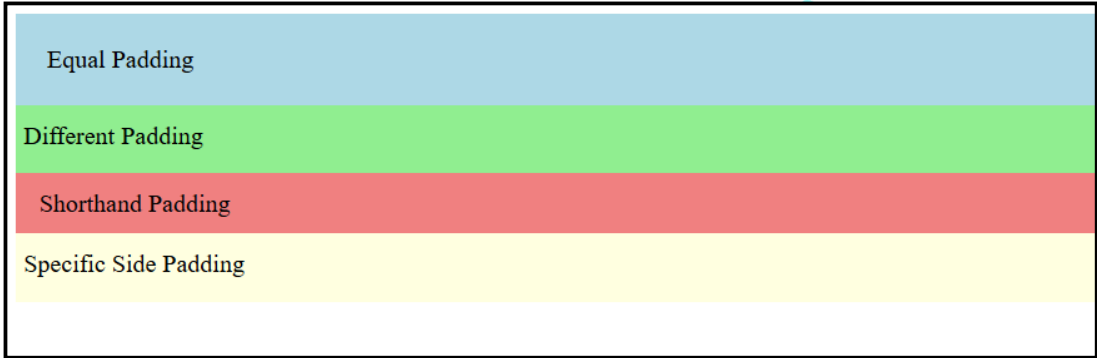
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Explanation of above code:

- A yellow box appears.
- Does the same thing as .box-different, but uses individual properties instead of shorthand.
- Padding amounts are clearly set for each side.

Output of above code:



Assignment

Instructions:

- You need to take 3 divs:
- The background color of the first div should be yellow.
- The background color of the second div should be pink.
- The background color of the third div should be green.
- The font color (text color) of all three divs should be white.
- The font size should be 14px.
- The margin should be:
 - Top: 20%
 - Bottom: 20%
 - Right: 30%
 - Left: 30%
- You have to give them a border dotted border.

• Div 1- A computer is an essential electronic device that plays a vital role in our daily lives. It is used for various tasks such as storing data, processing information, accessing the internet, and communication. A computer system consists of hardware components like the monitor, keyboard, mouse, and CPU, as well as software programs that run on it, including the operating system and applications

• Div 2- In the modern digital era, computer awareness has become an essential skill for individuals across all age groups and professions. A computer is an

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electronic device that accepts data as input, processes it using a central processing unit (CPU), and delivers meaningful output through devices like monitors or printers.

• Div 3- Being computer aware means not only knowing how to operate a computer but also understanding how to use it safely and efficiently. This awareness empowers individuals to use technology confidently, increases productivity, and is often a key requirement in job markets and academic environments.

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