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Dynamic HTML - Module 4

Working with Borders and Margins

Working with borders in CSS allows you to define the appearance of borders around elements on your webpage. Borders can be styled, colored, and positioned to enhance the visual presentation of content.

**Border Color (border-color)**

The border-color property in CSS is used to specify the color of an element's border. It accepts color values in various formats such as hex codes, RGB, RGBA

• Syntax:

```
css
border-color: color;
```

• Example:

```
css
border-color: #000; /* Sets the border color to black */
```

• Explanation:

- This example sets the border color of an element to black (`#000`). You can replace `#000` with any other valid color value to change the border color accordingly.

**Border Style (border-style)**

The border-style property defines the style of an element's border. It determines whether the border will be solid, dashed, dotted, double, groove, ridge, inset, outset, or none.

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- Syntax:

```
css Copy code  
border-style: value;
```

- Example:

```
css Copy code  
border-style: solid; /* Sets a solid line border */
```

- Explanation:

- This example specifies that the border of an element should be a solid line. You can replace `solid` with other values like `dashed`, `dotted`, `double`, etc., to achieve different border styles.

### Border Width (border-width)

The border-width property sets the width of an element's border. You can specify the width in pixels (px), ems (em), rems (rem), or as a percentage (%).

- Syntax:

```
css Copy code  
border-width: value;
```

- Example:

```
css Copy code  
border-width: 2px; /* Sets a border width of 2 pixels */
```

- Explanation:

- This example sets the border width of an element to 2 pixels. Adjust the value (`2px`) to increase or decrease the thickness of the border as needed.

### Practical Usage

These basic border properties are essential for defining the appearance of borders around HTML elements in web design. They allow you to customize the

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look and feel of borders to suit the overall design aesthetic of your webpage, enhancing visual hierarchy and clarity.

**Tabular format to present the hexadecimal color codes for CSS.**

Color Name	Hexadecimal Code
Black	`#000000`
White	`#FFFFFF`
Red	`#FF0000`
Green	`#00FF00`
Blue	`#0000FF`
Yellow	`#FFFF00`
Cyan	`#00FFFF`
Magenta	`#FF00FF`
Gray	`#808080`
Light Gray	`#D3D3D3`
Dark Gray	`#A9A9A9`
Orange	`#FFA500`
Purple	`#800080`
Brown	`#A52A2A`
Pink	`#FFC0CB`



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Tabular format listing some common RGB (Red, Green, Blue) color values used in CSS

Color Name	RGB Value
Black	<code>`rgb(0, 0, 0)`</code>
White	<code>`rgb(255, 255, 255)`</code>
Red	<code>`rgb(255, 0, 0)`</code>
Green	<code>`rgb(0, 255, 0)`</code>
Blue	<code>`rgb(0, 0, 255)`</code>
Yellow	<code>`rgb(255, 255, 0)`</code>
Cyan	<code>`rgb(0, 255, 255)`</code>
Magenta	<code>`rgb(255, 0, 255)`</code>
Gray	<code>`rgb(128, 128, 128)`</code>
Light Gray	<code>`rgb(211, 211, 211)`</code>
Dark Gray	<code>`rgb(169, 169, 169)`</code>
Orange	<code>`rgb(255, 165, 0)`</code>
Purple	<code>`rgb(128, 0, 128)`</code>
Brown	<code>`rgb(165, 42, 42)`</code>
Pink	<code>`rgb(255, 192, 203)`</code>

Margins in CSS

Margins in CSS are used to create space around elements, separating them from other elements or the edges of the browser window. Margins can be applied to all sides of an element (top, right, bottom, left) or individually.

**Basic Margin Properties**

**1. Margin (margin):**

- Sets the margin for all four sides of an element.
- Syntax: margin: top right bottom left;
- Example: margin: 10px; (applies 10 pixels margin to all sides)
- Example: margin: 10px 20px; (10 pixels top and bottom, 20 pixels left and right)
- Example: margin: 10px 20px 30px; (10 pixels top, 20 pixels left and right, 30 pixels bottom)
- Example: margin: 10px 20px 30px 40px; (10 pixels top, 20 pixels right, 30 pixels bottom, 40 pixels left)

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2. Margin-Top (margin-top), Margin-Right (margin-right), Margin-Bottom (margin-bottom), Margin-Left (margin-left):

- Sets the margin for individual sides of an element.
- Syntax: margin-top: value; margin-right: value; margin-bottom: value; margin-left: value;

- Example: margin-top: 10px;
- Example: margin-right: 20px;
- Example: margin-bottom: 30px;
- Example: margin-left: 40px;

Assignment

**Ques 1: Creating Consistent Spacing**

- **Objective:** Create a webpage layout where paragraphs (<p> elements) have consistent spacing between them.
- **Task:** Use CSS margins to ensure each <p> element has 20 pixels of margin-bottom to separate paragraphs effectively.

**Ques 2:** You are designing an e-commerce product listing page. Each product box should have a 1-pixel solid border with a light gray color (#CCCCCC) and 15 pixels of margin around it to ensure adequate spacing between products.

**Ques 3:** You are tasked with designing a webpage that showcases the features of a new smartphone model. Each feature description should be presented in a box with a 3-pixel double border, dark green color (#006400), and 20 pixels of margin to emphasize key information and improve layout structure.

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Attributes

solid, double, groove, ridge, inset, outset,  
Border-width:  
Border-color:  
top, bottom, left, right, (any combination i.e. top left)

Values

dotted, dashed,  
thin, medium, thick;  
color name

All the margin properties can have the following values:

- auto - the browser calculates the margin
- length - specifies a margin in px, pt, cm, etc.
- % - specifies a margin in % of the width of the containing element
- inherit - specifies that the margin should be inherited from the parent element

Above attributes are used in given example:

```
<html>
<head>
<style>
p{border-style: solid;
border-width: 5px;
border-color: red;
margin: 50px;}
</style>
</head>
<body>
<p class="one">Some text.</p>
</body>
</html>
```

Assignment:

Prepare a web page in which write 4 paragraphs and 1 main heading. Set each paragraph's border style = dashed, color = red, width = 12x.

