MERN STACK JOURNEY 🚀

🚋Class 6: CSS Box Model – Part 2

This class focuses on **borders, padding, and color systems** in CSS. These are extremely important for **UI design, frontend interviews, and real-world layouts**.

Border Width

The `border-width` property specifies the **thickness of the border** for all four sides of an HTML element.

```
.button {
  border-width: 2px;
}
```

Important Warning

- `border-style` is **mandatory** for borders to appear.
- Without `border-style`, `border-width` and `border-color` will not be visible.
- **Exception**: HTML `button` has a default border.

MCQs

Q1. Which CSS Property can be used to set the border thickness of an HTML element? - height - ✅ border-width - width - border

Q2. Which CSS Property and value pair removes the border of an HTML element? - ✅border-width: 0px; - border: 0px; - width: 0px; - border width: 0px;

Q3. Fill in the blank

```
.button {
  border-width: _____;
}
```

✅**Answer:** `2px`

Q4. Is `border-style` **mandatory to show border width and color?** - ✅Yes - No

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Border Radius

The `border-radius` property controls the **roundness of corners**.

```css
.button {
  border-radius: 20px;
}
```

🚢 Corner-specific Properties

- `border-top-left-radius`
- `border-top-right-radius`
- `border-bottom-left-radius`
- `border-bottom-right-radius`

Tip

Adding a background color makes border-radius more visible.

MCQs

Q1. Which property rounds the bottom-left corner? - left-bottom-border-radius - ✅border-bottom-left-radius - border-bottom-top-radius - border-bottom-right-radius

Q2. Fill in the blank

```css
.button {
  border-radius: _____;
}
```

✅**Answer:** `20px`

Border Color

The `border-color` property specifies the **color of the border**.

```css
.button {
  border-color: orange;
}
```

Warning

`border-style` is required for `border-color` to appear.

MCQs

Q1. Which CSS Property specifies the color for all four borders? - ✅border-color - border-width - color - background-color

Q2. Fill in the blank

```css
.button {
  border-color: _____;
}
```

✅**Answer:** `blue`

Border Style

The `border-style` property defines **how the border looks**.

```css
.button {
  border-style: dashed;
}
```

Common Values

- dotted
- dashed
- solid
- none (default)

MCQs

Q1. Which property specifies the style of the border? - border-color - border - style - ✅border-style

Q2. Fill in the blank

```css
.button {
  border-style: _____;
}
```

✅**Answer:** `dashed`

Padding

The `padding` property specifies the **space between content and border**.

```css
.card {
  padding: 10px;
}
```

MCQs

Q1. Which statement is TRUE? - Padding is the border surrounding the content - Padding is the background surrounding the content - ✅Padding is the space surrounding the content - Padding is the border color of content

Q2. Fill in the blank

```css
.button {
  padding: _____;
}
```

✅**Answer:** `10px`

CSS Colors – Hex Codes

CSS supports multiple color formats: - Color names - Hex codes - RGB - HSL

Hex codes allow access to **~16 million colors**.

🚲**Examples**

Color	Hex Code
orange	#ffa500
red	#ff0000
blue	#0000ff
green	#008000
custom	#25b1cc

```css
.button {
  background-color: #25b1cc;
}
```

⛴️**How to Pick Colors**

- Search **"color picker"** on Google
- Use browser dev tools

🏡 Complete Code Example

`index.html`

```html
<!DOCTYPE html>
<html>
  <head></head>
  <body>
    <div class="card">
      <h1>Tourism</h1>
      <p>Plan your trip wherever you want to go</p>
      <button class="button">Get Started</button>
    </div>
  </body>
</html>
```

`style.css`

```css
.button {
  border-width: 2px;
  border-color: orange;
  border-style: dashed;
  border-radius: 10px;
  background-color: #25b1cc;
}

.card {
  padding: 10px;
}
```

🛳️ Interview Questions (Must Prepare)

1. What is CSS Box Model?
2. Difference between border and padding?
3. Why border-style is mandatory?
4. Difference between `border: 0` and `border-width: 0`?
5. What are Hex color codes and why are they used?

✅**You have completed Class 6 successfully!**

Next recommended class: ➡️**Class 7: CSS Box Model – Margin & Box Sizing**