

Live Cohort

DAY - II

CSS Notes:
Div, Backgrounds, and Box Model

CSS Notes

1. What is <div> and Its Uses

- <div> = generic container (groups elements together).
- No visual effect by default → styled using CSS.
- Acts like a box we can paint, resize, and fill.

✓ Common Uses:

- Page sections (header, footer, sidebar, content).
- Wrapping text, images, and buttons.
- Making cards, banners, layouts.

Example:

```
1 <div class="container">
2   <h2>Welcome</h2>
3   <p>This is inside a div container.</p>
4 </div>
5
```

2. Making a Box with <div>

Example:

```
1 <div class="box">Hello World</div>
2
```

```
1 .box {
2   width: 200px;
3   height: 100px;
4   background-color: lightblue;
5   border: 2px solid blue;
6 }
7
```

👉 Used for profile cards, product listings, banners, etc.

CSS Notes

3. 🎨 Background Properties

3.1 Background Color



```
1 div { background-color: lightgreen; }  
2
```

- ✓ Buttons, headers, sections.

3.2 Linear Gradient



```
1 div { background: linear-gradient(to right, red, yellow); }  
2
```

- ✓ Navigation bars, gradient effects.

3.3 Radial Gradient



```
1 div { background: radial-gradient(circle, blue, white); }  
2
```

- ✓ Spotlight / circular highlights.

CSS Notes

3.4 Conic Gradient



```
1 div { background: conic-gradient(red, yellow, green, blue, red); }  
2
```

- ✓ Pie-chart style designs.

3.5 Background Image



```
1 div { background-image: url('pattern.png'); }  
2
```

- ✓ Hero sections with big images.

3.6 Background Size



```
1 div { background-size: cover; }  
2
```

- cover → fills whole area.
- contain → fits inside element.
- Custom (e.g., 100px 200px).

3.7 Background Position



```
1 div { background-position: center; }  
2
```

- ✓ Positions image (top, left, right, center).

CSS Notes

3.8 Background Repeat



```
1 div { background-repeat: no-repeat; }  
2
```

- repeat (default), repeat-x, repeat-y, no-repeat.

4. 📦 CSS Box Model

Every element is a box:

1. Content → text, images.
2. Padding → inside spacing.
3. Border → outline.
4. Margin → outside spacing.



4.1 Margin



```
1 div { margin: 20px; }  
2
```

✓ Adds space outside elements.

4.2 Padding



```
1 div { padding: 15px; }  
2
```

✓ Adds spacing inside (useful for buttons).

CSS Notes

4.3 Border

```
● ● ●  
1 div { border: 3px solid black; }  
2
```

- ✓ Styles: solid, dashed, dotted, double.

4.4 Border-Radius

```
● ● ●  
1 div { border-radius: 15px; }  
2
```

- Rounded corners.
- border-radius: 50% → makes a circle.

- ✓ Profile pictures, badges.

