Frontend Development Part 5

CSS Box Model Explained 📦

Nahar Singh
@naharsingh.com

Save For Later 🔖

What is the Box Model?

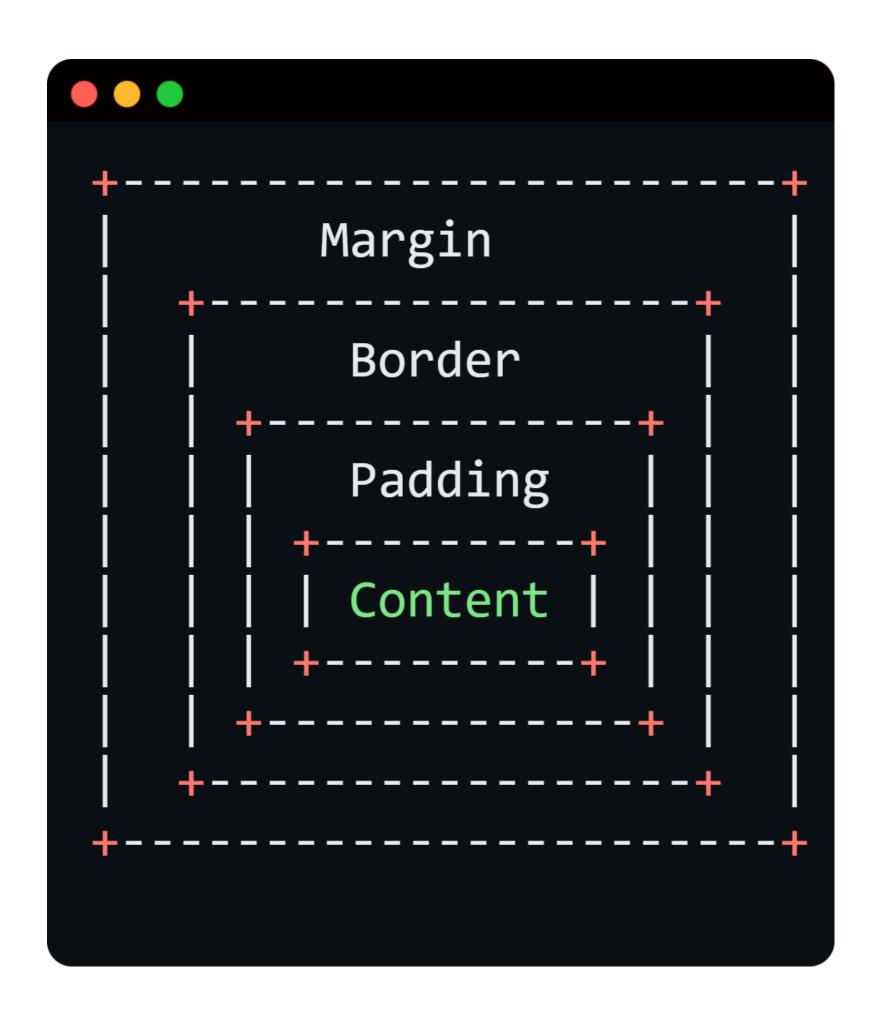Every HTML element is a box in CSS.
It's made of 4 layers:
      Content → text, images, etc.
      Padding → space inside, around content
      Border → edge around padding
      Margin → space outside the element

Visual Representation

CSS Properties in Box Model

```css
div {
  margin: 20px;        /* outside space */
  border: 2px solid black; /* edge */
  padding: 15px;       /* inside space */
  width: 200px;        /* content area */
}
```

Total Element Size Formula

👉 Total Width = content + padding + border + margin
👉 Total Height = content + padding + border + margin

⚠️ This is why elements sometimes take more space than expected!

Box-Sizing Property

```
div {
  box-sizing: border-box;
}
```

✓ Includes padding & border inside width/height
✓ Makes layouts predictable
✓ Widely used in modern web design

Practice Exercise

Create a <div> with text inside
Add padding and see text move inward
Add border and watch element size grow
Add margin and see space outside

Key Takeaway

✔ Every element = a box 📦
✔ Understand content, padding, border, margin
✔ Use box-sizing: border-box; for cleaner layouts
👉 **Next in Part 6 → CSS Positioning Explained** 🎯