

# CSS Box Model – Notes

## 1. What is CSS Box Model?

Every HTML element in CSS is considered as a **box**. The CSS Box Model consists of four main parts:

1. Content
2. Padding
3. Border
4. Margin

Order (inside → outside): **Content → Padding → Border → Margin**

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## 2. Content

- This is the actual area where text or images appear.
- Width and height apply to the content area.

Example:

```
div {  
    width: 200px;  
    height: 100px;  
}
```

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## 3. Padding

- Space **inside** the border.
- Creates distance between content and border.

Example:

```
div {  
    padding: 20px;  
}
```

## Padding Sides (Top, Right, Bottom, Left)

```
padding: 10px 20px 30px 40px;  
/* top right bottom left */
```

## 4. Border

- Surrounds the padding and content.
- Has width, style, and color.

Example:

```
div {  
    border: 2px solid black;  
}
```

## 5. Margin

- Space **outside** the border.
- Used to create distance between elements.

Example:

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

## Margin Sides (Top, Right, Bottom, Left)

```
margin: 10px 20px 30px 40px;  
/* top right bottom left */
```

## 6. Box Model Example (All Together)

```
.box {  
    width: 200px;  
    height: 100px;
```

```
padding: 20px;  
border: 2px solid blue;  
margin: 30px;  
}
```

## 7. Border Radius

- Used to create **rounded corners**.

Example:

```
div {  
  border-radius: 10px;  
}
```

## 8. Creating a Circle Using Border Radius

To create a perfect circle: 1. Width and height must be equal 2. border-radius must be 50%

Example:

```
.circle {  
  width: 100px;  
  height: 100px;  
  background-color: red;  
  border-radius: 50%;  
}
```

## 9. Important Notes

- Padding increases element size
- Margin does not affect element size
- `border-radius: 50%` creates circle

## 10. Quick Summary Table

Property	Space Location
Content	Actual data
Padding	Inside border
Border	Around padding
Margin	Outside border

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End of Box Model Notes ✨