The **CSS Box Model** is a fundamental concept in web design. It describes how the size of elements on a web page is determined, including content, padding, border, and margin.

Here are some clear examples to illustrate each part of the box model:

**🔹 Basic Box Model Structure**

html

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<!DOCTYPE html>

<html>

<head>

<style>

.box {

width: 200px;

height: 100px;

padding: 20px;

border: 5px solid blue;

margin: 15px;

background-color: lightyellow;

}

</style>

</head>

<body>

<div class="box">This is a box</div>

</body>

</html>

* **Content:** 200px × 100px
* **Padding:** 20px on all sides (increases inner spacing)
* **Border:** 5px (adds to size)
* **Margin:** 15px (outer spacing)

**🔹 Visual Breakdown**

| **Area** | **What it Does** |
| --- | --- |
| Content | The actual content (text, image, etc.) |
| Padding | Space inside the border, around the content |
| Border | The border wrapping the element |
| Margin | Space outside the border, separating elements |

**🔹 Using box-sizing**

By default, the width and height include **only the content**. You can use box-sizing: border-box; to include padding and border in the specified width/height:

css

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.box {

width: 200px;

padding: 20px;

border: 5px solid blue;

box-sizing: border-box;

}

Now the total width remains **200px** instead of 200 + 2\*20 + 2\*5 = 250px.

**🔹 Multiple Boxes Example**

html

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<style>

.container {

display: flex;

gap: 20px;

}

.box {

width: 150px;

height: 100px;

padding: 10px;

border: 2px solid black;

margin: 10px;

background-color: #ddd;

}

</style>

<div class="container">

<div class="box">Box 1</div>

<div class="box">Box 2</div>

</div>

Would you like a visual diagram or interactive CodePen link as well?

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**You said:**

more examples

**ChatGPT said:**

Great! Here are **more CSS Box Model examples** to help you better understand how margin, padding, border, and box-sizing work in different scenarios:

**✅ Example 1: Margin Collapsing**

html

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<style>

.box {

height: 100px;

margin: 20px 0;

background-color: lightcoral;

}

</style>

<div class="box"></div>

<div class="box"></div>

🟢 **Explanation:**

* The vertical margins between .box elements **collapse**. So instead of 20px + 20px = 40px, the space between boxes is just **20px**.

**✅ Example 2: Padding Increases Size**

html

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<style>

.box {

width: 200px;

height: 100px;

padding: 20px;

background-color: lightblue;

}

</style>

<div class="box">With padding</div>

🟢 **Explanation:**

* Final size: width = 200 + 20\*2 = 240px, height = 100 + 20\*2 = 140px.

**✅ Example 3: Box with Border**

html

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<style>

.box {

width: 150px;

height: 80px;

border: 10px solid green;

background-color: lightgreen;

}

</style>

<div class="box">Bordered box</div>

🟢 **Explanation:**

* Total width: 150 + 10\*2 = 170px
* Total height: 80 + 10\*2 = 100px

**✅ Example 4: box-sizing: border-box (Total Size Control)**

html

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<style>

.box {

width: 200px;

height: 100px;

padding: 20px;

border: 5px solid black;

background-color: lightyellow;

box-sizing: border-box;

}

</style>

<div class="box">Border-box sizing</div>

🟢 **Explanation:**

* Total size **remains** 200px × 100px even with padding and border.
* Content shrinks to fit inside that area.

**✅ Example 5: Different Padding and Margin Values**

html

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<style>

.box {

width: 200px;

height: 100px;

padding: 10px 30px 20px 5px; /\* top, right, bottom, left \*/

margin: 15px 5px 10px 25px;

background-color: peachpuff;

border: 2px dashed red;

}

</style>

<div class="box">Custom padding and margin</div>

🟢 **Explanation:**

* Padding and margin are defined **individually** for each side using shorthand.

**✅ Example 6: Inline vs Block Elements**

html

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<style>

.inline-box {

display: inline-block;

padding: 10px;

border: 2px solid blue;

margin: 10px;

background-color: lightsteelblue;

}

</style>

<span class="inline-box">Box 1</span>

<span class="inline-box">Box 2</span>

🟢 **Explanation:**

* Using inline-block allows the elements to sit side by side, **but still use box model properties** like padding, margin, and border.