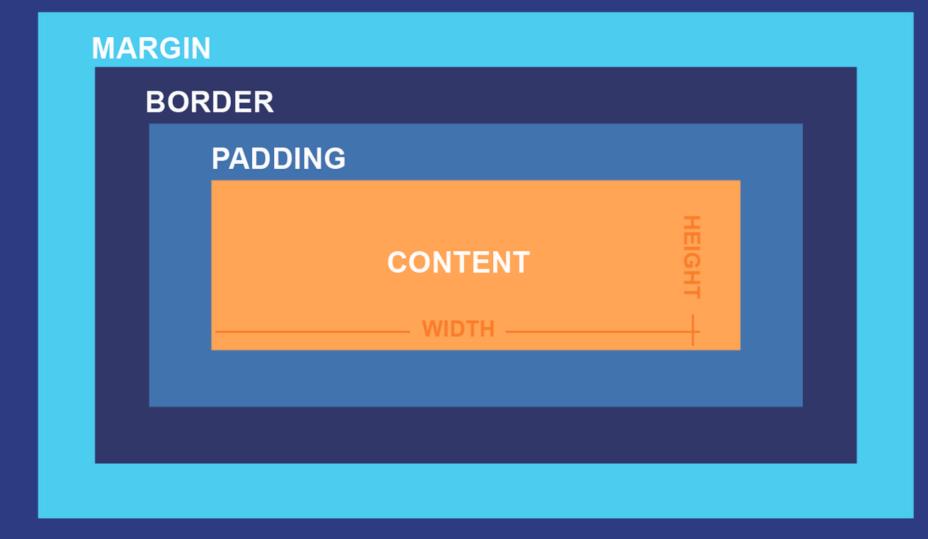
## Calculating The Box Model Dimensions

**TOP** 



**RIGHT** 

воттом

# Knowing The Final Box Model Dimensions

The width and height specified for an element in CSS are not the final width and height occupied by the element on the web page.

The actual dimensions include the collective size of padding, borders and height or width.

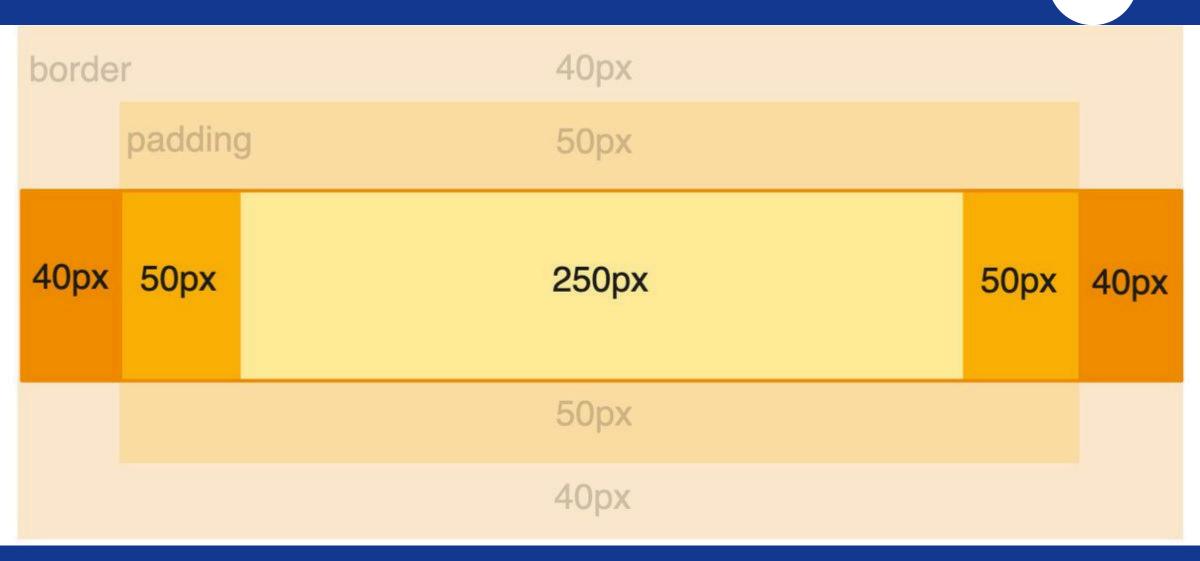
Let us take a look at an example:

```
//html
<div> I am the content </div>
// css styles
div {
  width: 250px;
  height: 150px;
  padding: 50px;
  background-color: yellow;
  border: solid 40px darkgreen;
  margin: 30px;
```

The visual representation on screen 🕝

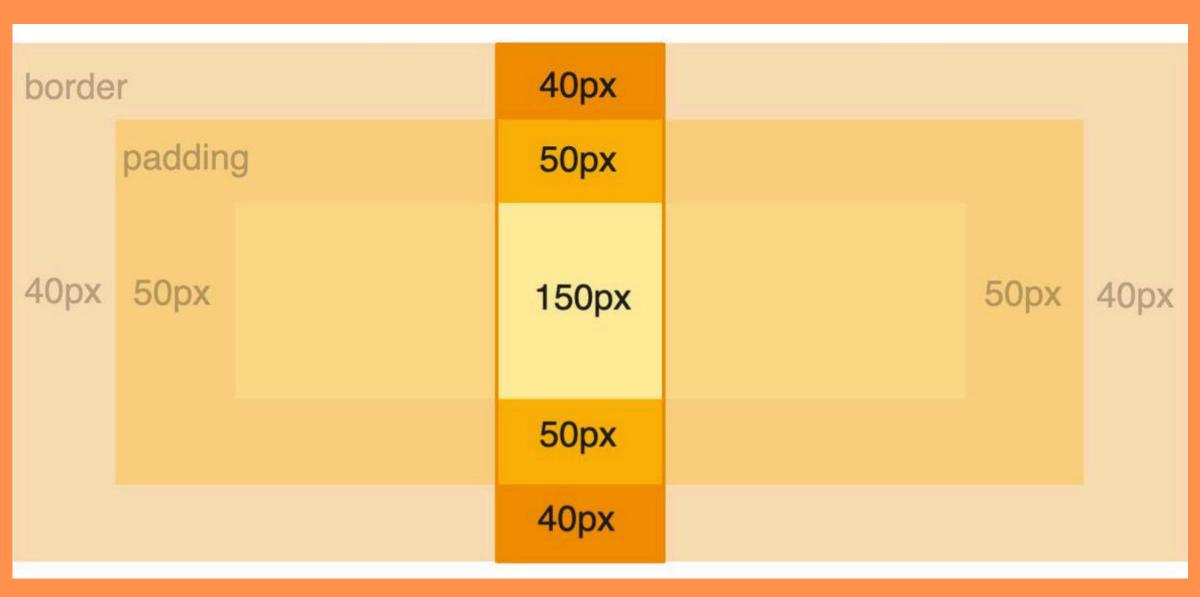
I am the content

From the above code, we understand that the final width of an element is calculated as follows:



# Final Width = content width + left padding + right Padding + left Border + right Border

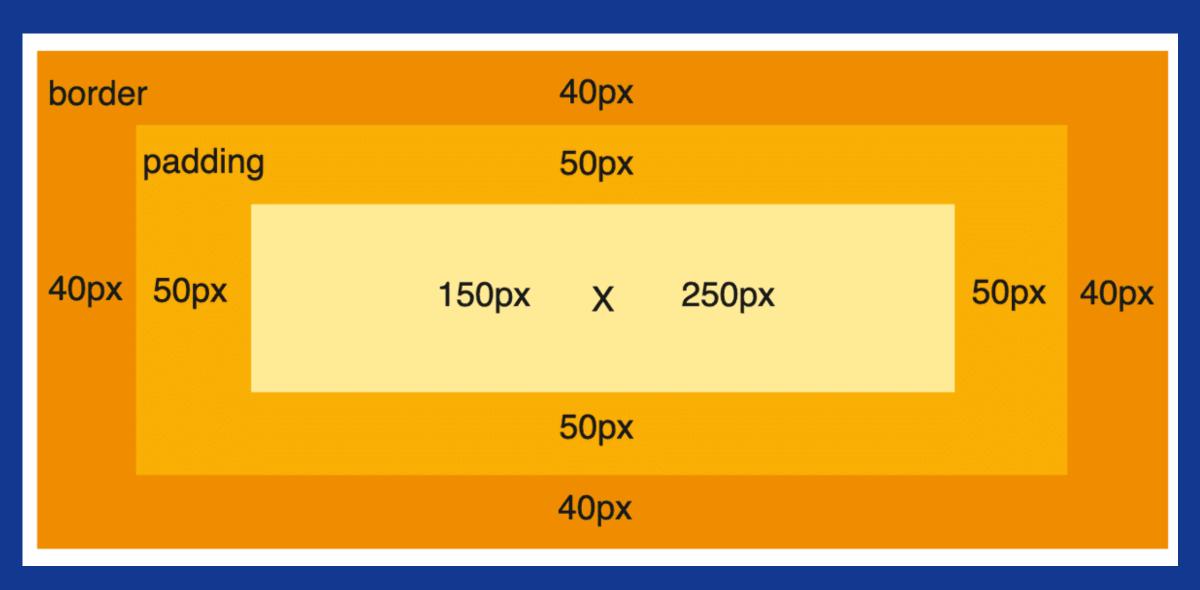
#### And for the height:



Final Height = content height + top padding

+ bottom Padding + top Border + bottom Border

## The total width and height for this box will be:



#### **Total Width Calculation Explanation:**

- Content Width: 250px
- Padding: 50px on each side (left and right), so
   50px + 50px = 100px
- Border: 40px on each side (left and right), so
   40px + 40px = 80px
- Margin: 30px on each side (left and right), so 30px + 30px = 60px (Note: Margin is not included in the total box size, but it does affect the element's spacing with other elements.)

#### **Summary**

Total Width = Content Width + Padding + Border

Total Width = 250px + 100px + 80px = 430px

#### **Total Height Calculation**

- Content Height: 150px
- Padding: 50px on each side (top and bottom), so
   50px + 50px = 100px
- Border: 40px on each side (top and bottom), so
   40px + 40px = 80px
- Margin: 30px on each side (top and bottom), so 30px + 30px = 60px (Note: Margin is not included in the total box size, but it does affect the element's spacing with other elements.)
- Total Height = Content Height + Padding + Border
- Total Height = 150px + 100px + 80px = 330px

#### Summary

Total Width (including content, padding, and border): 430px

Total Height (including content, padding, and border): 330px

These calculations show the total size of the **div** element itself, excluding the margin. The margin affects the spacing around the element but not the element's dimensions.

In conclusion, understanding the CSS Box Model is essential for precise layout control as they help in creating responsive and well-structured web pages.

- Always consider padding, border, and margin when calculating the total dimensions of an element.
- Use the formula to ensure your elements fit perfectly within your design.

Keep practicing and experimenting with different box model properties to gain deeper insights.

## Hi There!

### Thank you for reading through

Did you enjoy this knowledge?

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