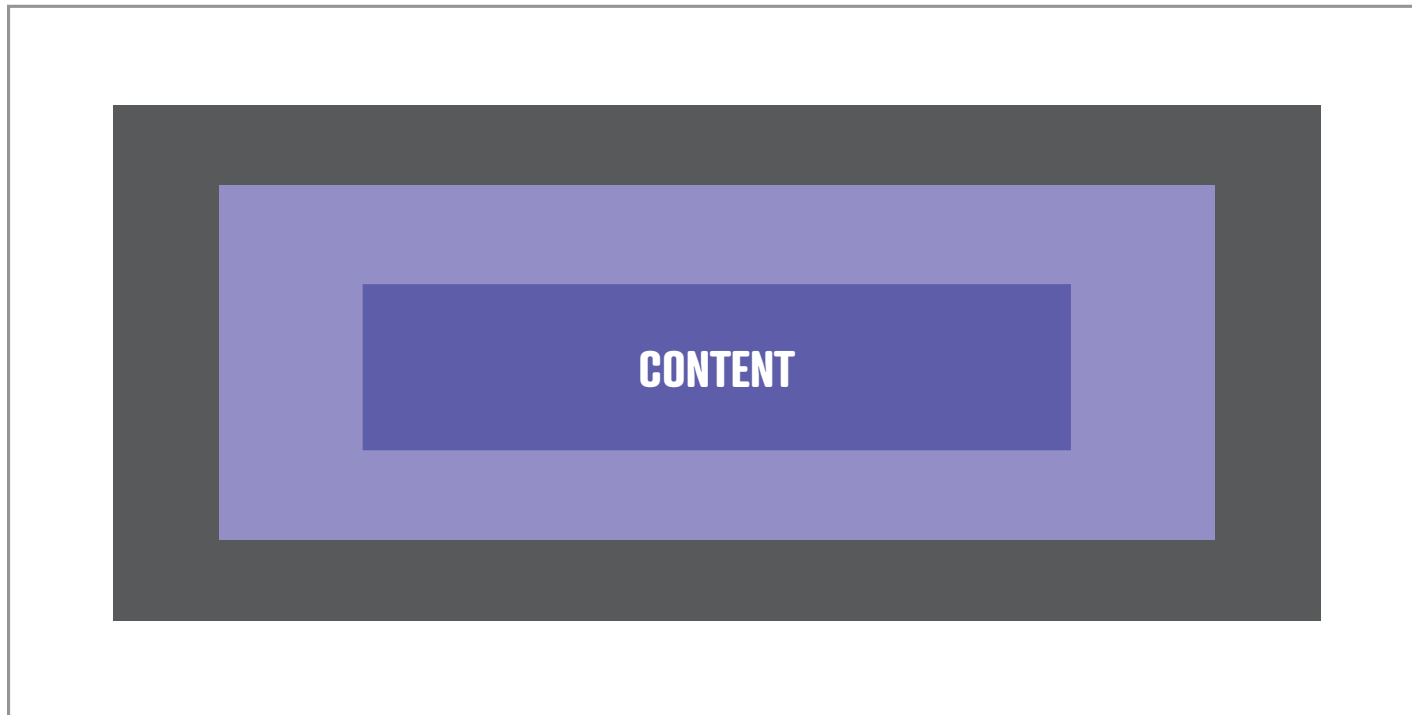


UNDERSTANDING THE BOX MODEL

THE BOX MODEL

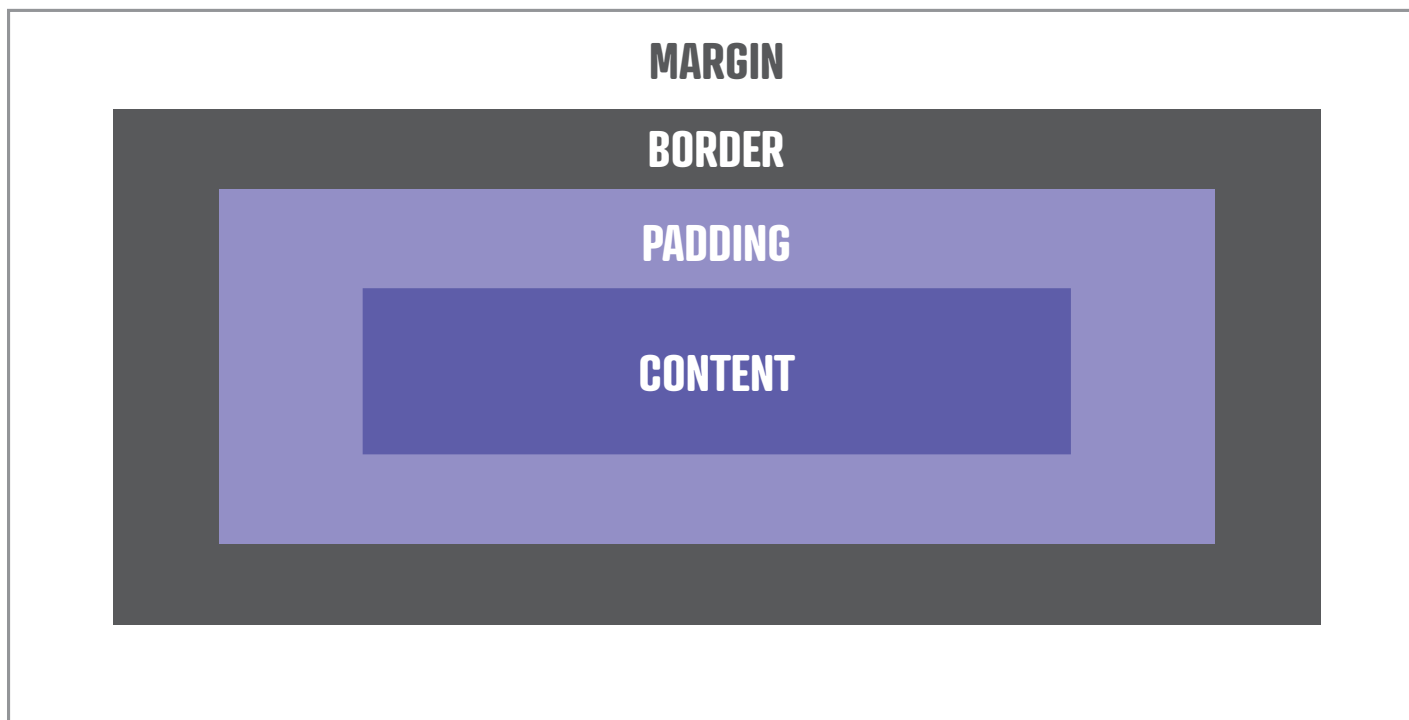
This is something that many people think they understand, but a lack of proper understanding of it causes so many problems.

THE BOX MODEL



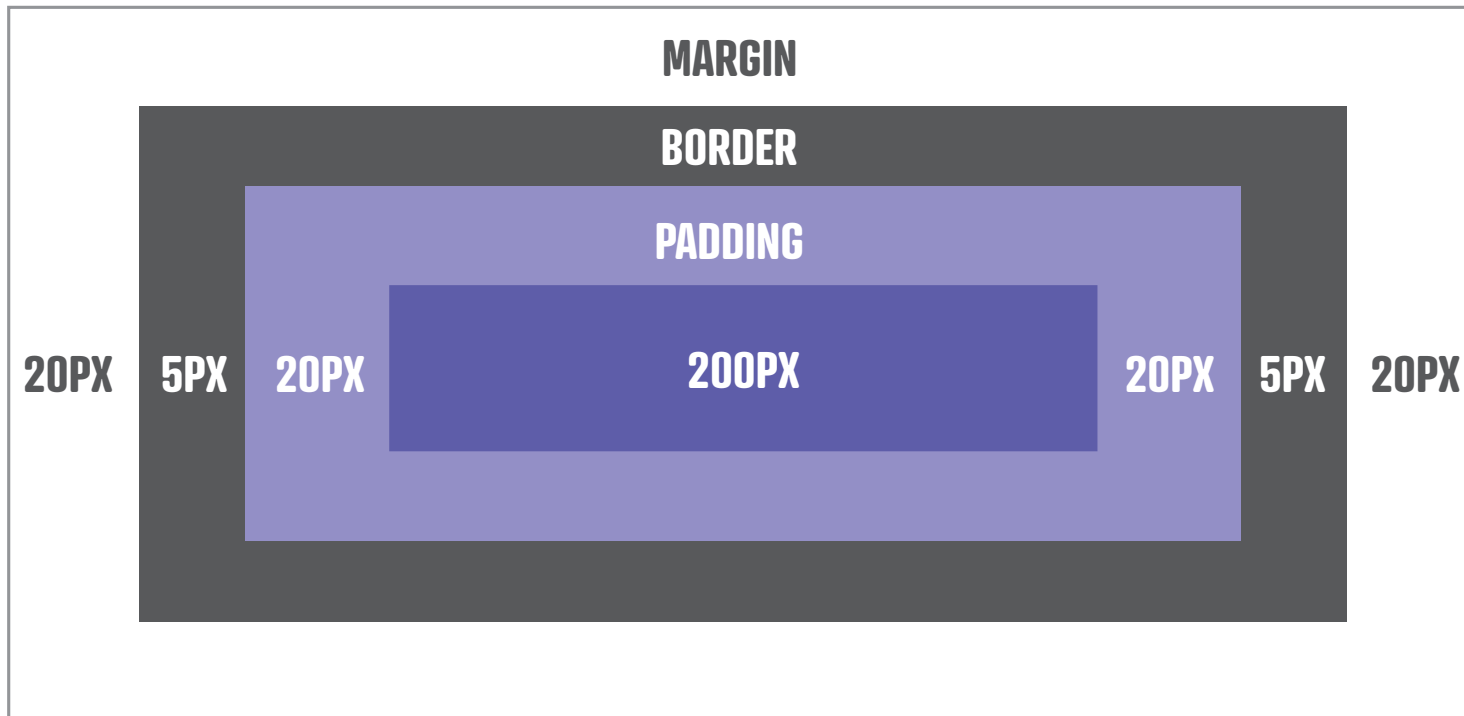
THE BOX MODEL

When we declare a `width` to an element, that width is setting the width of **the content**.



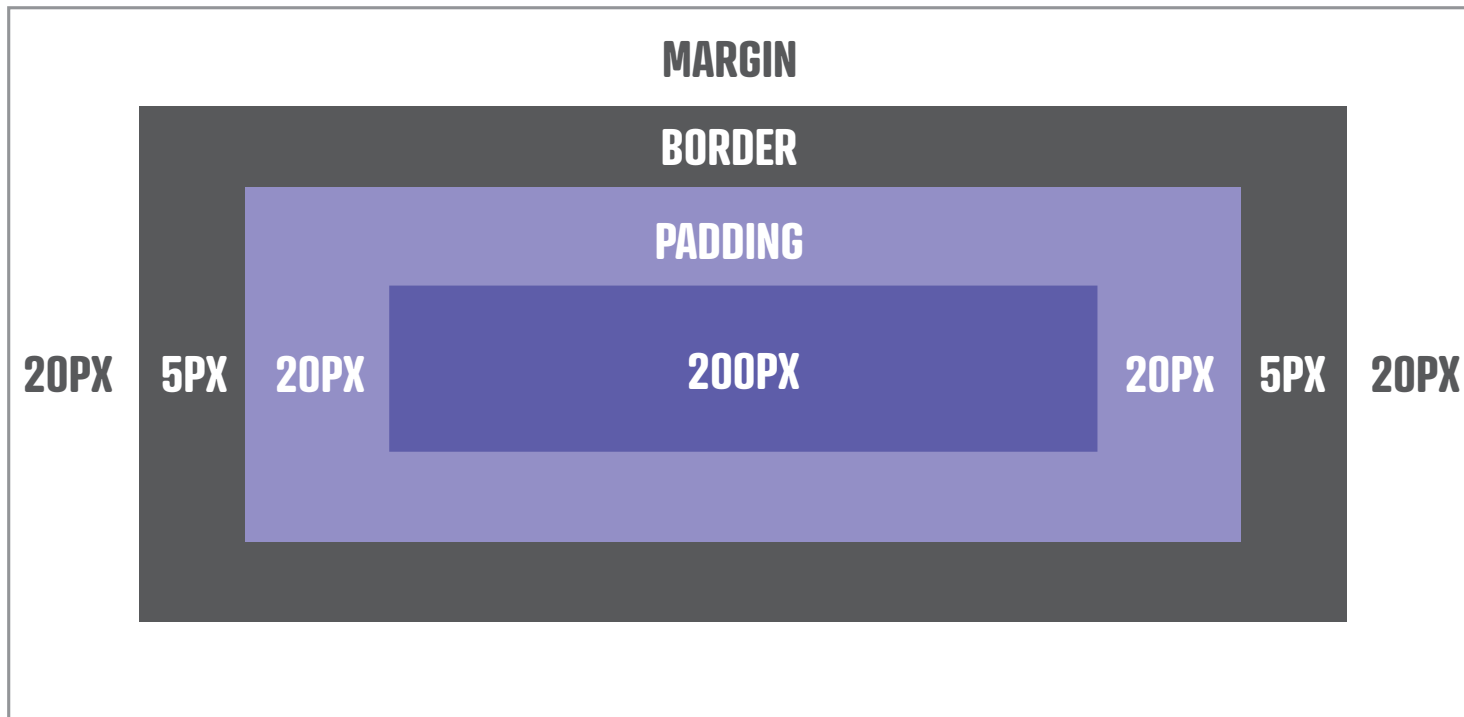
THE BOX MODEL

$20 + 5 + 20 + 200 + 20 + 5 + 20 = \text{total width}$




THE BOX MODEL

$$20 + 5 + 20 + 200 + 20 + 5 + 20 = 290\text{px}$$



THE BOX MODEL

So even though we've declared `width: 200px` we have an element with an actual width of 290px!



```
.element {  
  width: 200px;  
  padding: 20px;  
  border: 5px solid #820b35;  
  margin: 20px;  
}
```

box-sizing

TO THE RESCUE!

THE BOX MODEL

To help make our lives easier, it's very common to change the `box-sizing` of an element to `border-box`.



```
.element {  
  box-sizing: border-box;  
}
```

THE BOX MODEL

Now, when we declare a width (or height), the number we declare includes the **content**, but also includes the **padding** and **border**.



```
.element {  
  box-sizing: border-box;  
}
```

THE BOX MODEL

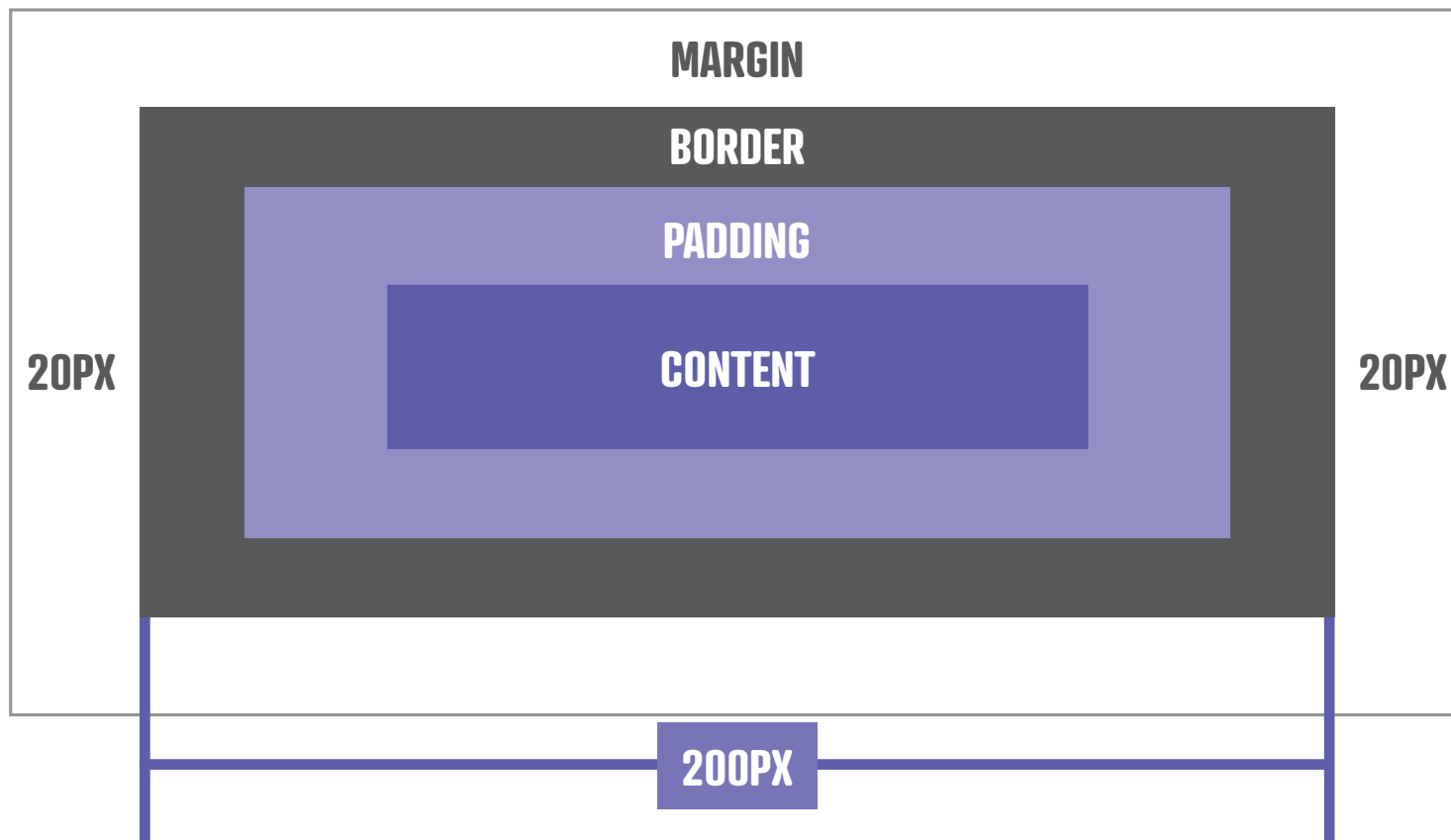
So let's say that we have the following:



```
.element {  
  box-sizing: border-box;  
  
  width: 200px;  
  padding: 20px;  
  border: 5px solid #820b35;  
  margin: 20px;  
}
```

THE BOX MODEL

That would result in the following:



THE BOX MODEL

Some people ask why the `margin` isn't included in that `200px` since that would make it even easier.

THE BOX MODEL

margin is spacing between elements.

By only adding the **padding** and **border** to the total, our **width** and **height** now give us the total size of the visual parts of our element.

THE BOX MODEL

The fact that margin can impact another element is a big deal.

box-sizing **IN ACTION**



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



```
*,
*::before,
*::after {
  box-sizing: border-box;
}
```

THE BOX MODEL

INTRINSIC & EXTRINSIC SIZING

This is a bit out of scope for what I want to talk about right now, but if you'd like to know more, go check out the "bonus materials" section.