Understanding Box Sizing

"box-sizing: border-box", what's that?

In this lesson I will explain some fundamental concepts with respect to the CSS Box Model.

Consider the following markup:

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

Pretty simple.

Let's say this `.box` was styled like so:

```
.box {
  width: 200px;
  height: 200px;
  background-color: red;
}
```

What we have now is a red square. Easy enough

Output
HTML
CSS (SCSS)

What if we decided we wanted a padding of `100px` within this box, like this:

```scss
padding: 100px
```

Here's what we have:

Output
HTML
CSS (SCSS)

The Implication Of This.

As you can see above, the computed width and height of the box has increased. The box is bigger! without specifying any change to the width or height of the box.
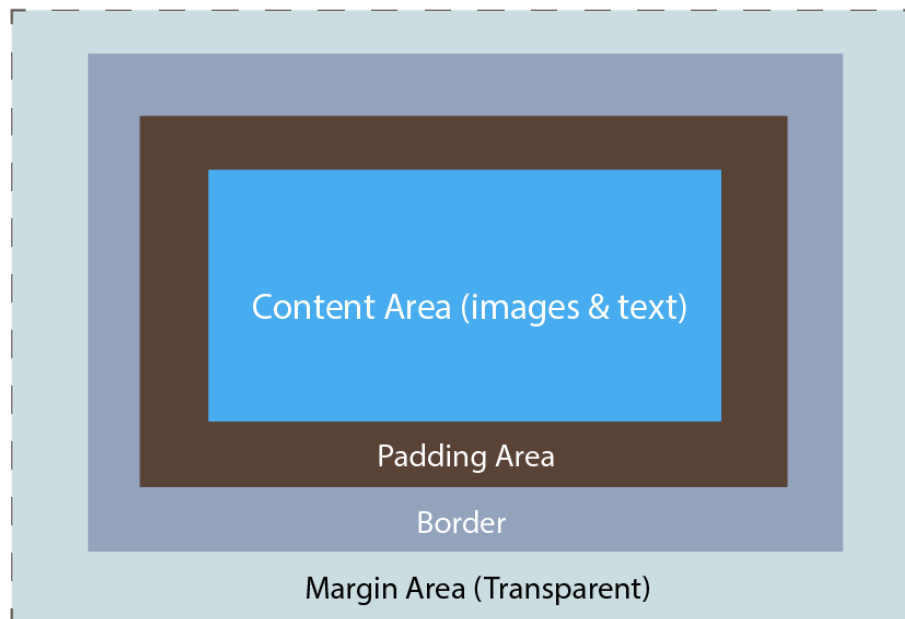
What's happened?

This has to do with how the box model fundamentally works.

The size of a `padding` or `border` are both added to the `width` you specify. Essentially, you end up with a box with a larger computed width and height.

Why Is This?

We took a look at the box model earlier.

The `width` and `height` you specify in your css code blocks are the width and height of the **content area** (please refer to the image above.)

When you specify `padding` and `border` values, the computed width of the element now becomes the sum of the widths of the **content area** plus **padding area** plus the **border**

Now you understand why we have larger than expected elements.

Can we Stop this Behavior?

Indeed we can.

The `box-sizing` property allows for the changing of this behaviour.

We can choose to NOT grow the box size when `padding` and `borders` are introduced. Instead, the box will retain its size. Note that, the `padding` and `border` will be introduced, but they will not increase the size of the element.

Here's how:

```
box-sizing: border-box
```

We dont have to worry about additional padding and border widths making our elements grow again.

our elements grow again.

Let's go ahead and apply this new knowledge to the movie page project.

See ya!