COMP 1017

Day 12

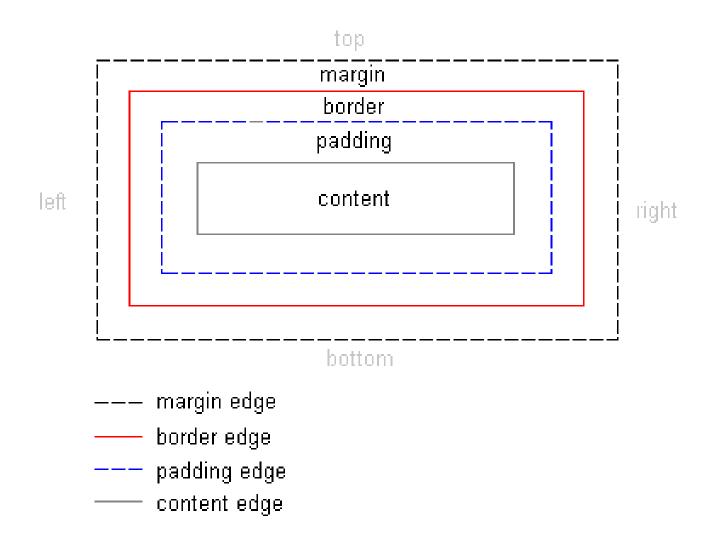
The Box Model

rendered as a box.

Every single element on a web page is

Each box has four different parts:

- 1. content
- 2. padding
- 3. border
- 4. margin



We've already got content mastered,

so let's focus on the other three parts.

Margin

White Space

The margin is the space around an element.

It can be used to push and pull elements around in the layout.

Margins can be controlled by:

- →top (margin-top)
- →right (margin-right)
- →bottom (margin-bottom)
- →left (margin-left)

... or, you can just control all sides

with a single property.

margin: 5px 10px 5px 10px;

- The order is top, right, bottom, left.

margin: 5px 10px;

- The order is top-bottom, right-left.

margin: 5px 10px 15px;

- The order is top, right-left, bottom.

margin: 30px;

- All margins will be 30px.

Border

The Space Around

The border is the line between margin and padding.

By default, the border has a width of zero, but we can make it thicker.

We can also control the style (pattern) and its colour (color).

something like this ...

The longhand declarations look

border-style: none | solid | dotted | dashed | double; /* etc. */

border-width: thin | medium | thick | 1px;

border-color: red | #E51400 | rgb(229,20,0) | rgba(229,20,0,100);

But we can simplify it.

border: 1px solid red;

As with margins, you can also target

each side of the border.

Padding

The Space Within

Padding is the space around the element, inside of the border.

inside a box, protecting your content.

Think of it as like packing peanuts

Padding behaves in a very similar way

to margins.

Padding can be controlled by:

- →top (padding-top)
- →right (padding-right)
- →bottom (padding-bottom)
- →left (padding-left)

... or, you can just control all sides

with a single property.

padding: 5px 10px 5px 10px;

- The order is top, right, bottom, left.

padding: 5px 10px;

- The order is top-bottom, right-left.

padding: 5px 10px 15px;

- The order is top, right-left, bottom.

padding: 30px;

- All padding will be 30px.

Widths & Heights

When it comes to element sizes, it's important to note that all parts of the box model contribute.

A box's total width includes:

A box's total height includes:

Supplemental Readings

http://kamleshshrestha.com.np/css-box-model/

https://torquemag.io/2018/06/css-box-model/

https://hackernoon.com/css-box-model-45ecf4ac219e

https://developer.mozilla.org/en-

<u>US/docs/Learn/CSS/Introduction_to_CSS/Box_model</u>

https://codepen.io/carolineartz/full/ogVXZj