## CSS Box Model



### Learning Objectives

- **Define** <u>CSS Box Model</u>, and demonstrate the ability to properly manipulate the "<u>box</u>" around elements
- Select nested elements to apply styling
- Apply different display properties to a page
- Describe and identify use cases for <u>normalize.css</u> and <u>reset.css</u> files

### Agenda

- Week One Review
- CSS Selectors
- How to start a project / website
- CSS Box Model
- Lab Time
- Question & Answer Time

### Things to focus on...

- Organisation and Folder Structure
- Naming Conventions and File Extensions
- Consistency and Formatting
- Get used to Atom
- Office Hours

**Remember!** This isn't a memory game, you aren't expected to remember everything. You just need to roughly know what to search for. Google is your friend!

## Review



### **Web Review**

- Roughly, how does it work?
- What does HTML do?
- What does CSS do?
- What does JS do?

### **HTML Review**

- What is it?
- What are elements?
- What are elements made up of?
- Why do we indent?
- What are some common tags?

### **CSS Review**

- How do we include CSS?
- Where do we add a link tag?
- Why does it mean by cascading?
- What is a CSS rule?
- What is a CSS rule made up of?
- What are some common selectors?
- What is CSS specificity?

# Starting Projects





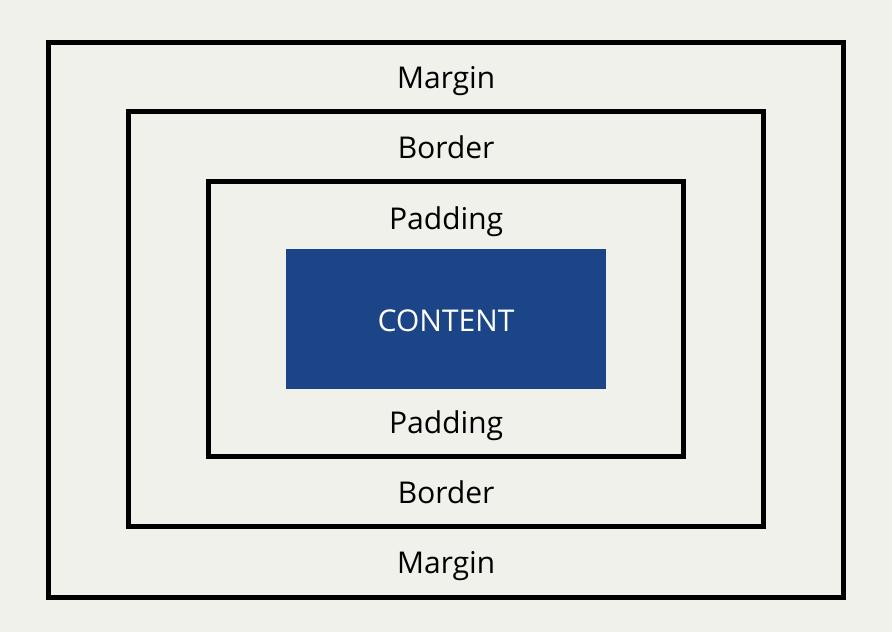
## **Box Model**

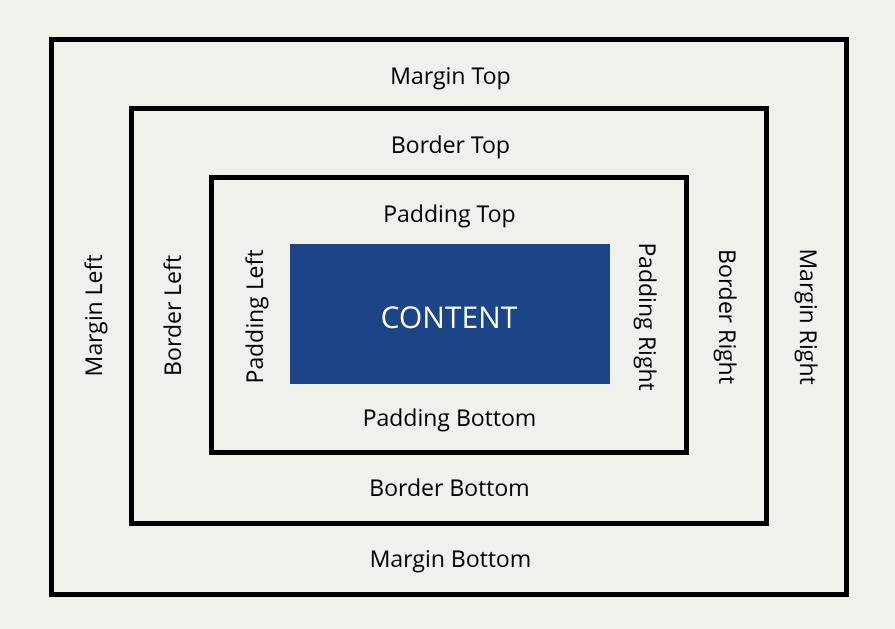


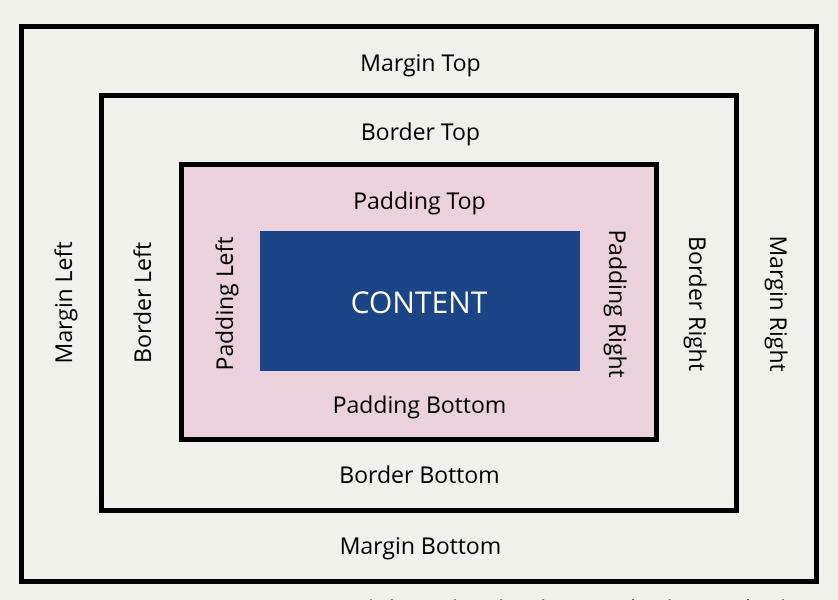
Every element in web design is a box.

### **Box Model**

- The CSS Box Model is essentially a couple of squares that wrap around every element
- It defines how much space they take up
- It consists of a couple of different things:
  - Content
  - Padding
  - Border
  - Margin







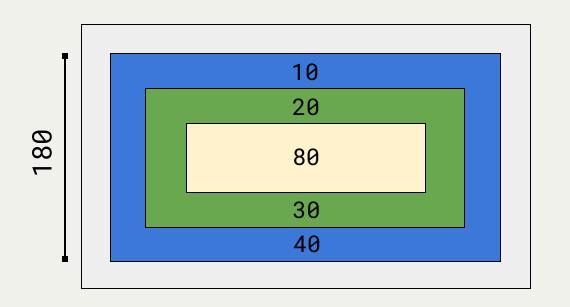
\*The pink is the element's background colour

#### Width Calculation

#### **Total Width**

Content Width + padding-left + padding-right + borderleft + border-right

## **Height Calculation**



#### **Total Height**

Content Height +
padding-top +
padding-bottom +
border-top +
border-bottom

### **Box Model Resources**

- <u>Shay Howe's explanation</u> (this is awesome)
- CSS Tricks
- MDN's explanation
- Learn Layout

## Exercise!

Tags and Boxes

#### Ahh! Math!

Adding the widths, borders, and paddings can be a little frustrating. Sometimes even impossible!

So what can we do?

### **Box Sizing: Border Box**

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

Add this at the start of every project!

### Exercise!

<u>Relaxr</u>

### Homework

- Keep planning for <u>Relaxr</u>
- Finish off anything you didn't get done from last Thursday's homework
- Keep practicing HTML and CSS
- Start looking into floats and clears
  - CSS Tricks
  - Smashing Magazine
  - Floats and Escalators (this is really well done!)

# Q & A



### Feedback Time

Lesson 3: CSS Box Model

https://ga.co/fewd32syd

## Thanks!

