

# CSS Box Model



# Learning Objectives

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





Project Name



assets



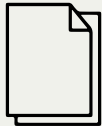
fonts, images, audio, videos, etc.



CSS



js



\*.html (all of them!)

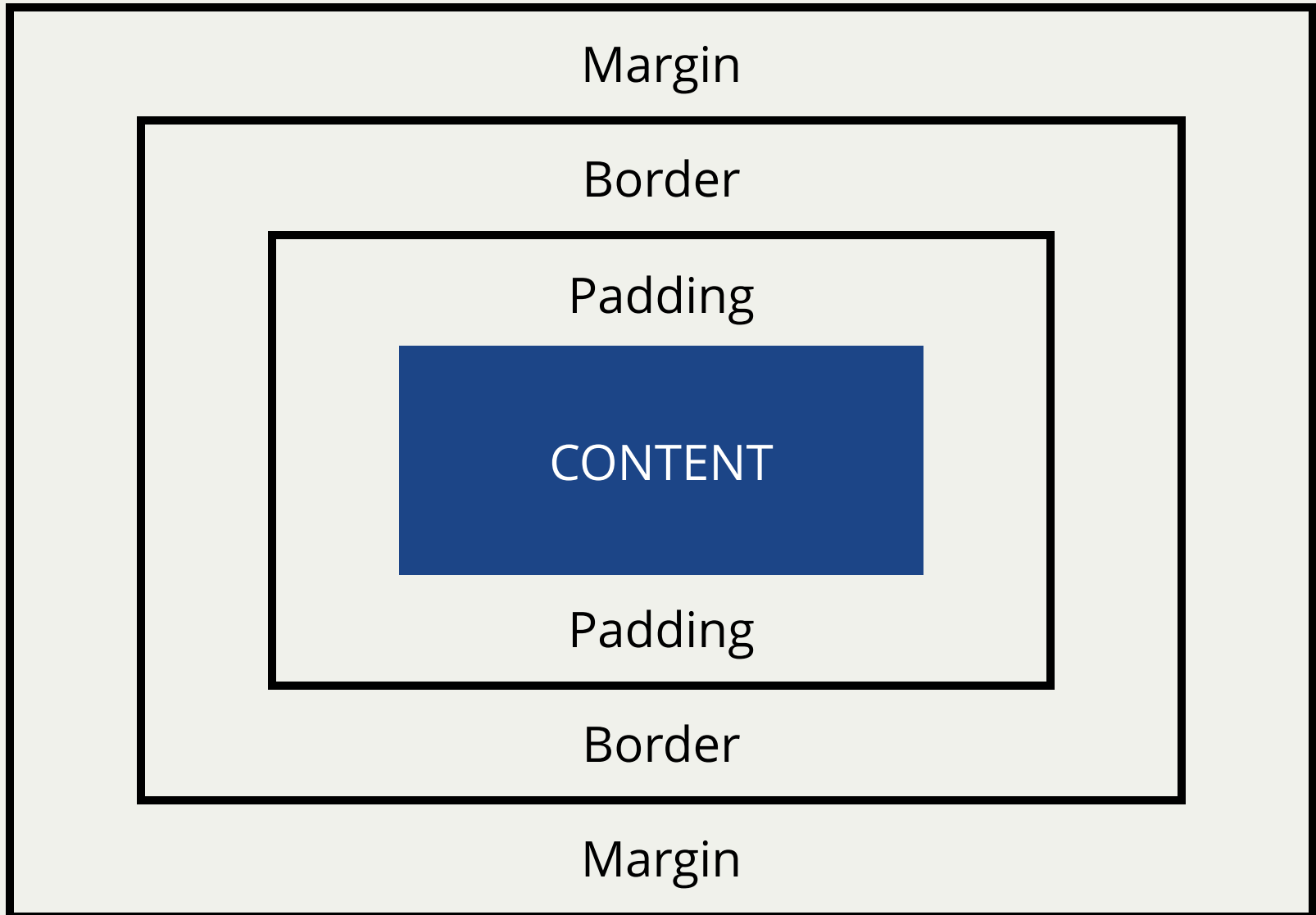
# Box Model

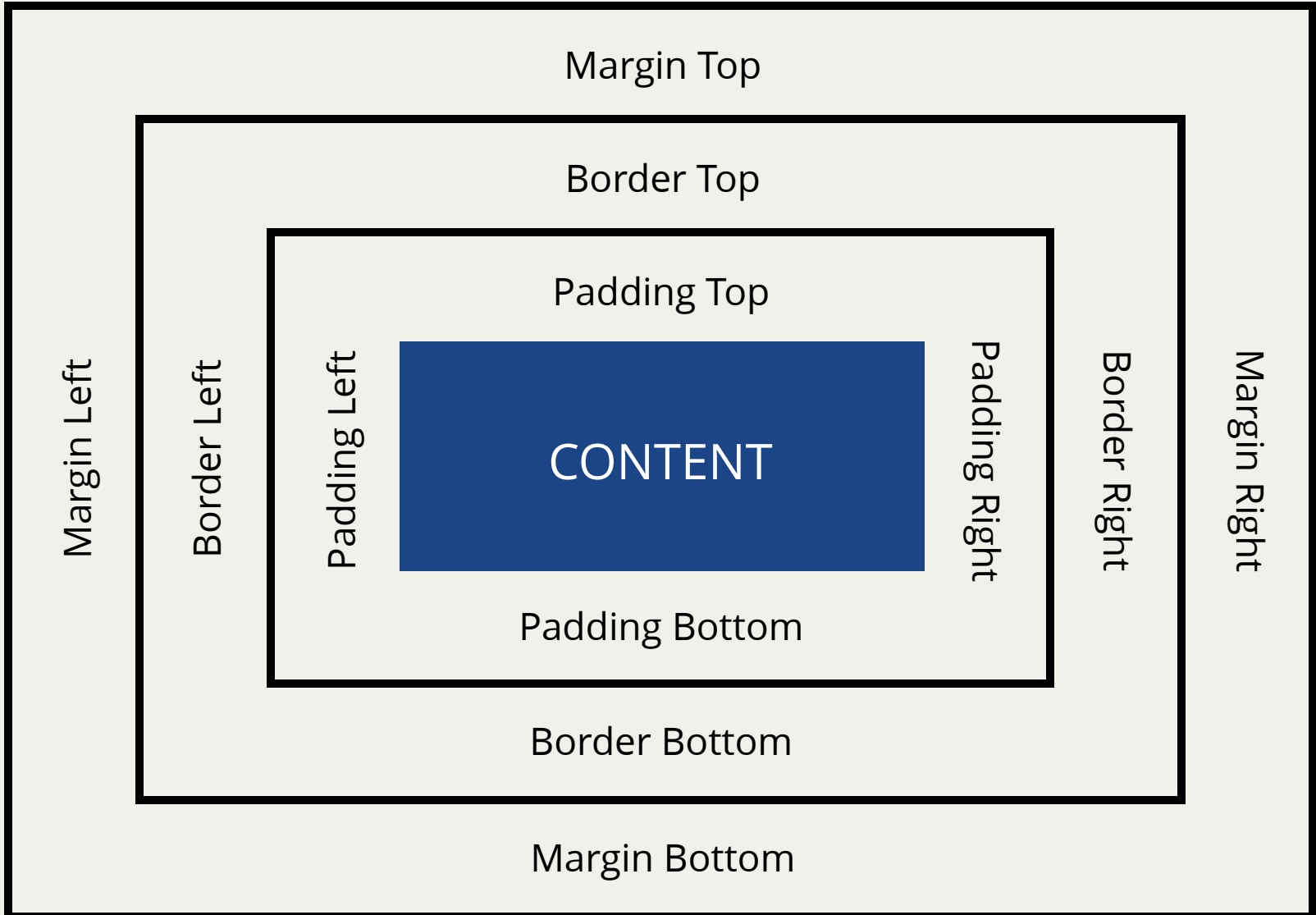


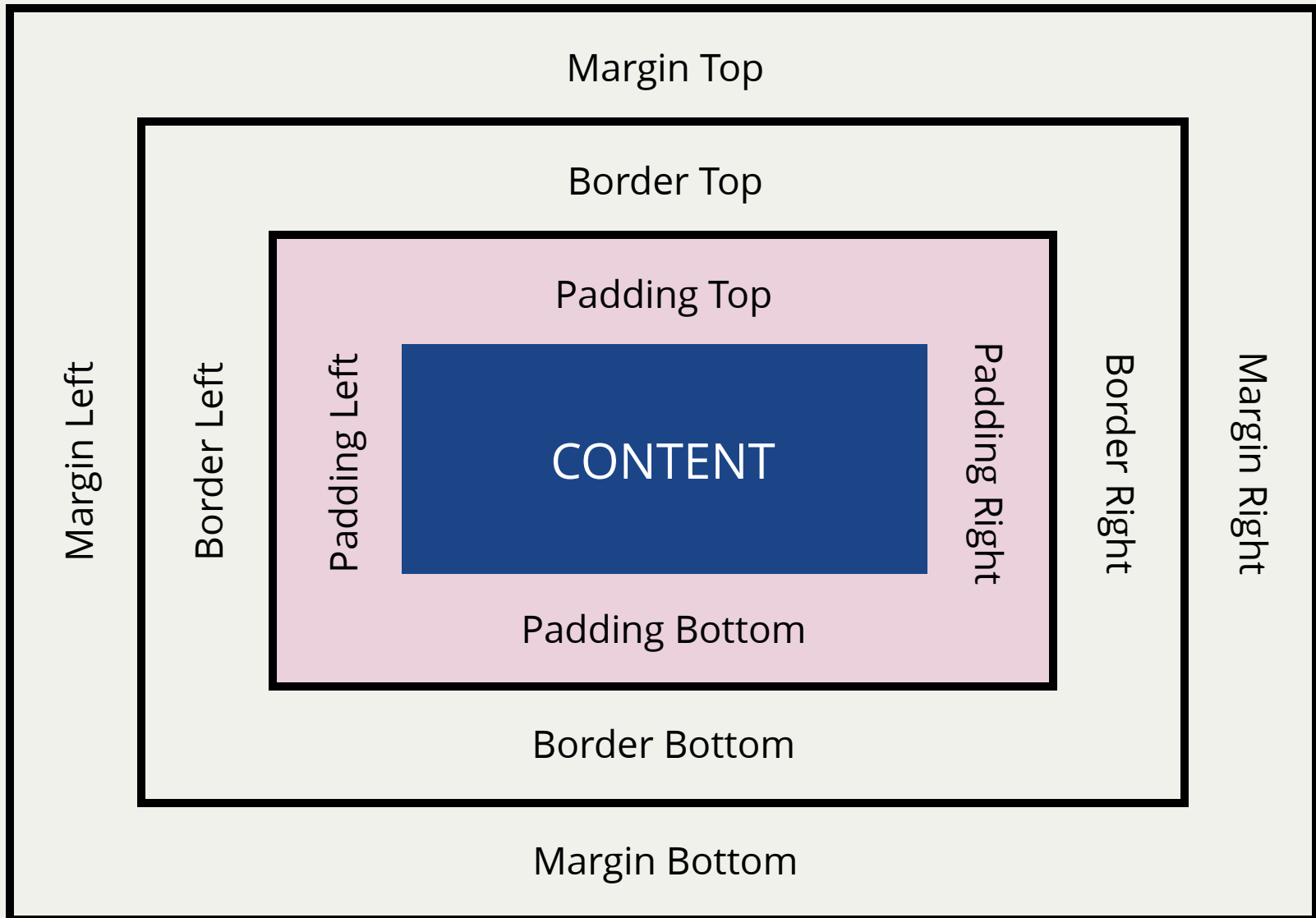
Every element in web design is a box.

# 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*

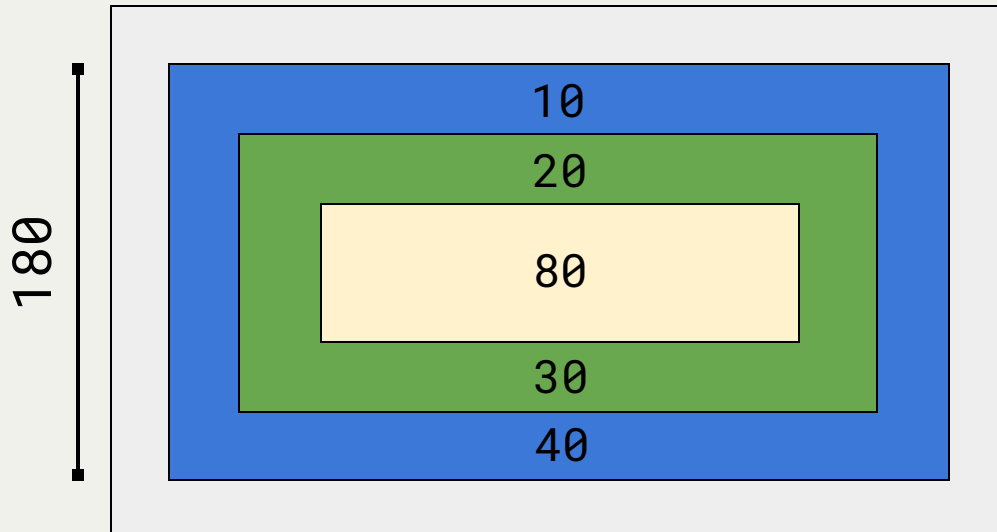


# Width Calculation

## Total Width

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

# Height Calculation



## Total Height

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

# Box Model Resources

- [Shay Howe's explanation](#) (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!

Relaxr

# Homework

- Keep planning for Relaxr
- 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!

