# Fundamentals Day 2

Introduction to CSS



## **Browsers have Style**

Ever wonder why pages look a certain way in the browser?

Every element has a set of rules already defined for it.

CSS lets you change those rules. LIGHTHOUSE LABS

## What are these rules?

- 1. Size
- 2. Positioning
- 3. Color
  - 4. Font
- 5. Behaviour



#### What does CSS look like?

```
header {
  color: black;
  font-weight: bold;
  text-align: center;
}
```

#### What does that mean?

Some elements are called *inline* elements.

They can change the way they are displayed, but not the way they are aligned.

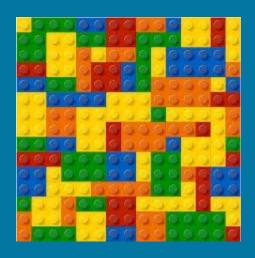
Other elements are called block or block-level elements.

Block elements will always try and fill up all of the horizontal space of the container in which you place them.



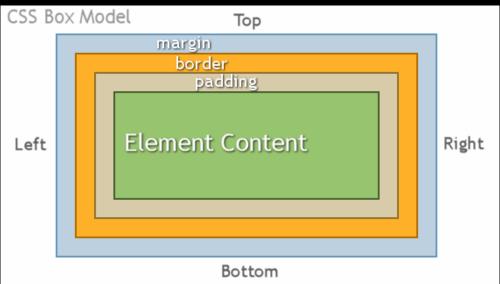
#### Blocks and blocks and more blocks

Browsers build pages the same way you would assemble a wall out of toy bricks.



Some bricks are longer and larger than others. But, they all have their place.

## The Box Model





## Okay, so how do we use this?

We rewrite the browser's rules when we need to change the layout of our page.

Then the browser figures everything out from there.

By managing the four box model properties, we can make our page have whatever layout we want.



## **CSS Properties**

All CSS properties are in the format:

key: value;

We use our tag names to define them.

For example:

```
section {
  margin-bottom: 2px;
  border: 1px;
  padding: 3px;
```



#### **Selectors**

Whenever we define a rule in CSS, we identify the elements we want to modify using selectors.

Selectors tell the browser how specific to be in applying the rules.

```
section p {
p
   font-family: Arial;
                                font-size: 13px;
   font-size: 17px;
                                color: blue;
   margin: 2px 5px;
   padding: 5px;
   border: 1px 2px 3px;
   color: white;
                            section header p {
                                font-size: 19px;
                                font-weight: bold;
```



#### How do we customize further?

#### Classes and IDs:

Classes are used for sets of items on a page. You can have many instances of a class on the page.

Classes are set like this:

Text

IDs are used for a single unique item on a page. There can only be one of each ID present on a webpage.

IDs are set like this:

## Writing CSS for IDs and Classes

#### If we want to target this:

```
<section id="main">Our
content.
```

#### We need to write this:

```
#main {
    padding: 10px;
}
```

#### If we want to target this:

```
This
paragraph is classy.
```

#### We need to write this:

```
.active {
   font-size: 16px;
}
```



## Specificity

## AKA: Only change what you need to



## **Order of Specificity**

- Inline Styles These have the highest specificity, and are set up as style attributes on an element. Ex: <h1 style="color: blue;">Heading</h1>
- 2. IDs These are defined using the id attribute on an element. Ex: This is the main content.
- 3. Classes, attributes, pseudo-classes This group includes .classes [attributes] selectors, and pseudo-selectors like :hover. Ex: This is some special text.
- 4. Elements and pseudo-elements Regular elements like p section and li, as well as pseudo-elements like :before and :after

