

warwick C
Cding



Session 5

CSS Layout



Recap from Session 4

- Intro to CSS
- 3 ways of embedding CSS into our HTML pages
- CSS Selectors
- id vs class
- CSS properties



CSS Anatomy

CSS syntax typically follows the "Selector" and "Declaration" of property-value pairs

Example

```
selector {
  property: value;
  property: value;
}
```

```
body {
  color: red;
  background-color: green;
}
```



The correct way to embed CSS

HTML

```
<head>
    link rel="stylesheet" type="text/css" href="styles.css" >
</head>
```



Lets start!



Block and Inline Elements

- The browser treats a block element as you would when you press enter after a sentence.
- Inline examples:

```
<input> <a> <img> <br>>
```

Block example:

```
 <h1>
```

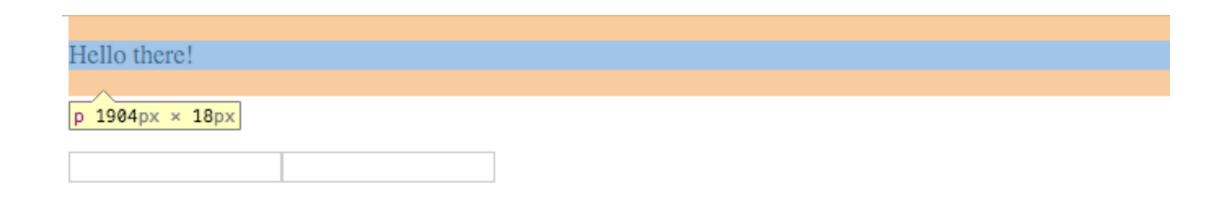


Hello there!

Bye!



If we use the inspect tool in Chrome



Hello there!

Bye!

```
input 131px × 19px
```



Each colour means something when inspected



Live example on CodePen



display: inline-block

- This type of display allows the element to behave like a blocklevel element
- The element will be displayed in line with other elements, and it will not begin on a new line by default



Why group elements together

- In order for our HTML code to be neat, readable and more importantly, re-usable
- We can manipulate similar elements together
- Separate the concerns



Span vs Div

Span creates an inline element

```
I really like <span>CSS</span>
```

Div creates a block element

```
I really like <div>CSS</div>
```

I really like CSS

I really like

CSS



Width & Height

 The width and height properties can be used to resize block level elements and elements

```
.profile-pic {
  width: 100px;
  height: 25px;
}
```



Live dimensions example on CodePen



overflow

- The overflow property states what would happen if our content is bigger that the specified dimensions.
- The default is visible, i.e flows outside
- hidden hides/masks the inner content
- auto brings up a scroll bar

```
div {
    width: 100px;
    height: 25px;
    overflow: ???;
}
img {
    width: 100px;
    height: 25px;
}
```

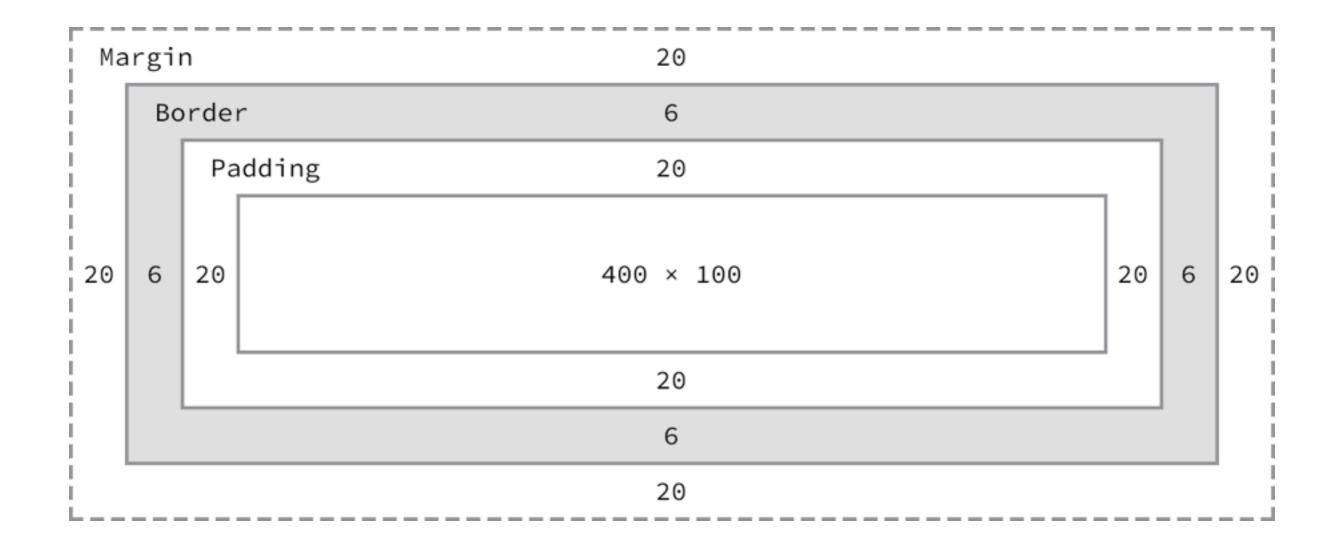


overflow-x & overflow-y

- Using overflow-x and overflow-y, we can manually set the properties for the horizontal and vertical axes
- Maybe we want to have a scroll motion only for the vertical axis.



The Box Model





- The box model tells us that every element is a rectangular box!
- Each element may have the following properties:
 - width
 - height
 - padding
 - borders
 - margins



Margins

- This is the area that separates the box from the other boxes
- We can declare/change all the margins or individually

```
img {
    margin: 10px;
img {
    margin: 10px 15px 20px 10px;
img {
    margin-top: 10px;
```



Auto-margin

- Auto margin is sometimes used to centre elements
- The said element has to have a width

```
margin-left: auto;

■ width: 300; margin-right: auto;
```



Border

- The border property styles the edge around the box and is specified in the following order:
- Thickness, style, colour.

```
img {
   border: 2px solid red;
}
```



Padding

 The padding is the "whitespace" between the border and the content

```
img {
    padding: 10px;
img {
    padding: 10px 15px 20px 10px;
img {
    padding-bottom: 10px;
```



Positioning Content

- The position property is used to specify a positioning scheme for an element. The default is "static" which puts the element in the <u>normal</u> flow.
- In normal flow, inline boxes flow from left to right, wrapping to next line when needed.
- In normal flow, block boxes flow from top to bottom, making a new line after every box.



position: relative

- The relative value means that this is a new position relative to the original one
- To use relative, we have to add more properties, such as: top, right, bottom, left.



position: absolute

- Unlike, relative, this will take the element out of the normal flow & position with respect to the window.
- Window here means the whole <body>



Float

- The float property is used to float boxes on the sides of other boxes, allowing other content to flow around it. First used to wrap text around images.
- You can float non-image elements, as long as you specify a width for them first.



Clear

• The clear property can be used to specify that an element should *not* wrap around floated elements above it.