# CodeSoc: Web development

Class 7: Advanced CSS

#### Last time

- Learnt how to use the CSS selector for element types, id attributes and class attributes
- Learnt to use an external *stylesheet* to hold all of our styling

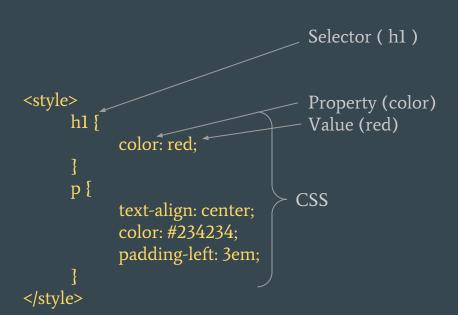
#### **Outline**

- 1. Introduction and creation of simple example website
- 2. (Today) The HTML document Page structure, content types & best practises
- More HTML elements & adding style (part i)
- 4. More HTML elements & adding style (part ii) consolidating what we know
- 5. Multi-page sites & navigation
- 6. External style
- 7. Advanced CSS
- 8. Introduction to Javascript

# **Today**

- CSS box model
- Drop down menus
- Various CSS tricks

## CSS recap



Everything inside the { } is called the declaration

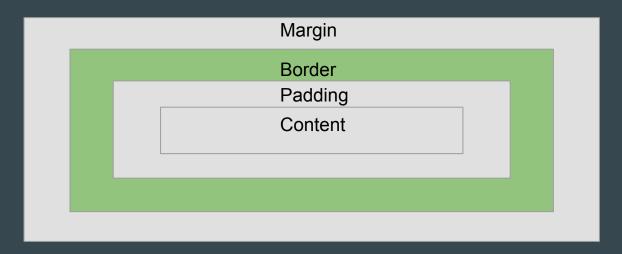
# CSS recap

Selectors

```
    <h1> = h1 { }
    <h1 id="myId"> = #myId { }
    <h1 class="myClass"> = .myClass { }
```

#### The box model

- Made up of the content, padding, border and margin
  - Content is simply the space taken up by the element
  - Padding clears an area around the content it's transparent
  - The border surrounds the combined padding and content
  - The margin adds a further spacing around the border it's also transparent



- We know most of the CSS to be able to do this already
- The HTML is very simple, most of the work is done in the styling
- Note the class attributes we are using to select in CSS later...

• First we style the button which will drop down the menu

- Next add some necessary style to the div that holds our content together
- This stops the drop down activating when we hover next to the button
  - This is due to the block/inline levels (from the class on spans and divs)

```
.dropdown {
    position: relative;
    display: inline-block;
}
```

- Next we style the content of our menu and each link
- Note we use display:none this hides the element from view (whilst we don't want the menu shown)

```
.dropdown-content {
    display: none;
    position: absolute;
    background-color: #aaaaaa;
    min-width: 160px;
}
```

```
.dropdown-content a {
    color: black;
    padding: 12px 16px;
    text-decoration: none;
    display: block;
}
```



• This is the magic that makes it work - when we hover over the menu, we override display so it shows the menu!

```
.dropdown:hover .dropdown-content {
    display: block;
}
.dropdown-content a:hover {background-color: #cccccc}
.dropdown:hover .dropbtn {
    background-color: #eeeeee;
}
```

#### Link selectors

- We have seen the use of :hover in some of our selectors
- These are styles that depend on the state of the element
- The following states are available to use:
  - a:link an unvisited link
  - o a:visted a visted link
  - o a:hover when the user is hovering over the link
  - a:active the moment the link is clicked
- Hover can be used on any element, and the rest on anything that is "clickable"

## Aligning

- We saw that we couldn't use text-align:centre to centre images or other block level elements
- We can however use a different method, by changing the margin and width of the element in CSS

```
.centred {
        display: block;
        margin: auto;
        width: 50%;
}
```

## More niche parts of CSS

- The CSS covered in the classes has been all the commonly needed parts
- There is a whole host of different things you can do using CSS
  - Many are silly to teach as they are all things you use only once
- The best way to look through the cool things you can do is on W3schools
- It's possible to do animation, transitions between pages
  - Catz ball example

#### **Next time**

• Working with javascript - more coding where HTML/CSS is designing