-Grouping
-Descendant Selectors

Prior Learning

You should know how to use CSS to control the style of a page.

You should also know that HTML tags are called selectors

The following will work with both Internal and External Stylesheets and can help make your code more **efficient**.

Grouping

When **multiple** selectors use the same value, you can reduce the code by **grouping** them together

```css
header{
    margin-top: 5px;
}

nav{
    margin-top: 5px;
}

main{
    margin-top: 5px;
}

#intro{
    margin-top: 5px;
}
```

```css
header, nav, main, #intro{
    margin-top:5px;
}
```

Using a **comma** to separate selectors allows you to improve efficiency

Selectors

- So far we have always directly controlled all instances of a selector

For example,

```
h1{
    color:red;
}
```

Will turn every piece of text wrapped in h1 tags red across the whole page.

If we wanted to control just one particular <h1> tag, we could use inline CSS

```
<h1 style="color:red">RED!!</h1>
```

Descendant Selectors

The problem with using inline to do this is that we usually want each page to follow a **theme** and that particular <h1> may need to be red on multiple pages.

If we change our mind about the colour then we would need to edit the inline code **multiple times** (across all of our pages)

To solve this, we can use **descendant selectors** in our external stylesheet and still target specific tags

An example

HTML

```
 8  <header>
 9      <h1>BLACK!!</h1>
10  </header>
11
12  <main>
13      <h1>RED!!</h1>
14  </main>
```

BLACK!!

RED!!

CSS

```
1  h1{
2      color:red;
3  }
```

We only want the RED!! <h1> selector to be red but by default, it applies to every <h1>

An example

Since our <h1> is inside another tag, <main>, we can be specific and target **only** that one

CSS

```
1  main h1{
2      color:red;
3  }
```

BLACK!!

RED!!

This only affects an <h1> selector within a <main> selector

Note – there's **no** comma separating the two!

Task 1

Create a page that contains two unordered lists.

- One should be within nav tags and contain the basics of a menu system
- The other should be within the main tags and have a list of awards

```
<nav>
    <ul>
        <li><a href="">Home</a></li>
        <li><a href="">Services</a></li>
        <li><a href="">Products</a></li>
        <li><a href="">Contact Us</a></li>
    </ul>
</nav>

<main>
    <ul>
        <li>Voted #1 by Huh? Magazine</li>
        <li>2017 Pet Groomer Winner</li>
        <li>PGSS Certified</li>
    </ul>
</main>
```

Remember to link this page to a blank external stylesheet

Without any styling, it'll look like this

- Home
- Services
- Products
- Contact Us

- Voted #1 by Huh? Magazine
- 2017 Pet Groomer Winner
- PGSS Certified

To make our menu look better we remove the bullet points and float the list items beside each other.

```
1  li{
2      list-style-type:none;
3      float:left;
4  }
```

As you can see, it affects **both** lists!

HomeServicesProductsContact UsVoted #1 by Huh? Magazine2017 Pet Groomer WinnerPGSS Certified

Let's fix this!

We only want to affect the menu list so we target the <li> within the <nav> selector

```
1  nav li{
2      list-style-type:none;
3      float:left;
4  }
5
6  main{
7      clear:left;
8  }
```

What's the **clear** for?

HomeServicesProductsContact Us

- Voted #1 by Huh? Magazine
- 2017 Pet Groomer Winner
- PGSS Certified

Descendant Selectors are selectors **descended** from other selectors

Tags within Tags