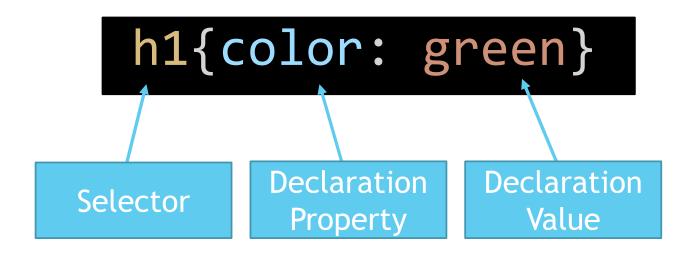
Selectors

► This is possible by using CSS (Cascading Style Sheets)

```
h1
{
    color: green;
    background-color:black;
}
```

► HTML uses tags whereas CSS Uses selectors

Selectors



► This changes every h1 heading to the colour green

Selectors

```
h1{color: green; background-color:black;}
```

- Separate multiple statements with a semicolon;
- Multiple statements are often listed vertically for clarity

```
h1
{
    color: green;
    background-color:black;
}
```

External Styling

Put in head section!

<link rel="stylesheet" type="text/css" href="styling_types.css" />

```
H1
{
    color: green;
    background-color:black;
}

Name of external CSS file

file
```

Simple External example - Full Webpage

```
<!DOCTYPE html>
 <html lang="en">
 <head>
     <title>Document</title>
   <<li>link rel="stylesheet" type="text/css" href= "styles.css"
</head>
 <body>
                                            Separate file: styles.css
     <h1>Hello World!</h1>
                                            h1
 </body>
 </html>
                                                 color: green;
```

Advantages of CSS

- Greater control over layout CSS can be use for many things such as:
 - ▶ Colour
 - ► Background Colour
 - Positioning of elements
 - ► Element widths and heights
 - ► Font sizes
 - Borders
 - ► Padding and margins

And many more

Grouping

If you want multiple tags to have the same styles, use commas and list them:

```
h1, h2, h3, p
{
    color: green;
}
```

This example would make every h1, h2, h3 heading and paragraph green

Decendents

If you want particular combinations to have a style, separate with a space

```
p strong
{
    color: green;
}
```

This example would make every strong tag green, only if it is used in a paragraph

Universal selector

If you want EVERYTHING to have a particular style, use *

```
*
{
    color: green;
}
```

This example would make everything green (aside from backgrounds)

Type, Classes and IDs

for CSS

You can define your own style selectors

to use with any tag

Keyword
"class" in
HTML

NB: Note the dot in CSS

```
.greenytext
{
    color: green;
    font-style: italic;
}
```

```
<h1 class="greenytext">Hello World!</h1>
Hi World
```

You can define your own style selectors

to use with any tag

NB: Note the hash in CSS

```
#greenytext
{
    color: green;
}
```

```
Keyword
"id" in
HTML
```

```
<h1 id="greenytext">
Hello World!
</h1>
```

IDs vs Classes

- A class selector can be used on any number of elements
- ► An ID selector can only be used only once
 - It identifies a *specific* element (useful for JavaScript etc.)

Types, Classes and IDs

```
Type selector;
 for existing
                                color: green;
   elements
                            .greenytext
  Dot => Class
                                color: green;
    selector
                                font-style: italic;
    Hash
                            #main_image
=> ID selector
                                border-width:5px;
                                padding:10px;
```

Selector Types

Туре	Description	E.g.,
Type Selector	For existing tags	<pre>h1 { color: green; }</pre>
Class Selector	For defining your own class style to use on any element. Start with a dot in CSS	<pre>.greenytext { color:green }</pre>
ID Selector	For defining a style on one element only. Starts with a hash in CSS	<pre>#main_image { border-width: 5px; margin: 10px; }</pre>

Advantages of CSS

- CSS keeps style separate from the HTML content, allowing you to manipulate the appearance easier
- A single CSS file can be used to manage the appearance of a whole website very easily and very quickly
- ► HTML documents are simpler and smaller as the styling information can be removed

Don't forget to check your pages for errors





Be careful copying/pasting CSS

PowerPoint and other programs can add invisible characters and you might be wondering why your code doesn't work!