

## Guide to coding CSS

In the first project of this set of three, you learned about the tags in HTML5 and have practiced creating web pages using the code. You have also found an error in HTML5 and corrected it – known as debugging.

Now you're using CSS and this can be more of a challenge, as the code you use to create the styles is quite complicated. So this guide is here to help you. At the end of this document is a very useful section that explains why your code might not work – it is worth checking out if you're having problems.

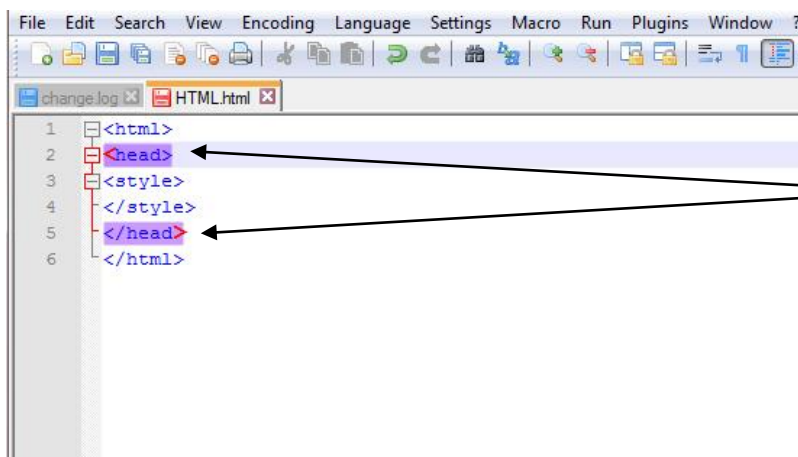


### The style tag (<style>)

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Steve explains in the video how the style tag is used to apply different colours and other formatting features to the web page.

To add a new style to a page, the best place to insert the style tag is into the head section:



```
1 <html>
2 <head>
3 <style>
4 </style>
5 </head>
6 </html>
```

The head section is defined by <head> and </head> tags



Inside the style tag, the code is written to define the style in a very specific way. For example, to turn all the paragraphs of text to red, the code is in the form of...

**p{color:red;}**

inside the style tags as shown in the screenshot on the right.

**Note that:**

- p refers to paragraph
- the curly brackets are used to define the colour
- colour is spelled the American way - color

```
1 <html>
2 <head>
3 <style>
4 p{color:red;}
5 </style>
6 </head>
7 <body>
8 <p>
9 lorem ipsum dolor sit amet, consectetur adipiscing elit. Proin vitae ul:
10 </p>
11 <p>
12 lorem ipsum dolor sit amet, consectetur adipiscing elit. Proin vitae ul:
13 </p>
14 <p>
15 lorem ipsum dolor sit amet, consectetur adipiscing elit. Proin vitae ul:
16 </p>
17 <p>
18 lorem ipsum dolor sit amet, consectetur adipiscing elit. Proin vitae ul:
19 </p>
20 </html>
```

**Double check you understand the code here!**

If we wanted to change the paragraph colour to blue, the code would be p{color:blue;} – don't forget to make sure the word 'color' and the word of the colour you have chosen are separated by a colon. And there is a semi-colon after the colour word and before the curly bracket is closed.

The curly bracket, in case you can't find it, is the character you get when you click shift with the square bracket key, usually on the right of the keyboard next to the return key.

## Using the attributes – class and id

The class attribute allows several different sections of the web page – different blocks of text, or paragraphs, for example – to be styled in the same way.

To use the class attribute with CSS, firstly you insert the appropriate code into the paragraphs to be within the class. This means inserting "class="green"" into the paragraph tag...



```
File Edit Search View Encoding Language Settings Macro Run Plugins
change.log x HTML.html x
1 <html>
2 <head>
3 <style>
4 p{color:red;}
5 </style>
6 </head>
7 <body>
8 <p>
9 lorem ipsum dolor sit amet, consectetur adipiscing e
10 </p>
11 <p class="green">
12 lorem ipsum dolor sit amet, consectetur adipiscing e
13 </p>
14 <p>
15 lorem ipsum dolor sit amet, consectetur adipiscing e
16 </p>
17 <p>
18 lorem ipsum dolor sit amet, consectetur adipiscing e
19 </p>
20 </html>
```

Class="green" is inserted into the <p> tag

This can be copied and pasted into any other paragraph where the same style is needed...

Two paragraphs are now given the same style with the class="green".

```
1 <html>
2 <head>
3 <style>
4 p{color:red;}
5 </style>
6 </head>
7 <body>
8 <p>
9 lorem ipsum dolor sit amet, consectetur ad
10 </p>
11 <p class="green">
12 lorem ipsum dolor sit amet, consectetur ad
13 </p>
14 <p class="green">
15 lorem ipsum dolor sit amet, consectetur ad
16 </p>
17 <p>
18 lorem ipsum dolor sit amet, consectetur ad
19 </p>
20 </html>
```

So the class attribute is for more than one section of a web page. The id attribute works in a similar way, but this defines the class for just one specific section of a web page. So if you had five paragraphs, four could be within a class (and could be styled to look the same) and the fifth could have an id (and styled to look different).



To use an id, insert 'id="blue"' into the <p> tag of the paragraph you want to have the specific style...

```
1 <html>
2 <head>
3 <style>
4 p{color:red;}
5 </style>
6 </head>
7 <body>
8 <p>
9 lorem ipsum dolor sit amet, consect
10 </p>
11 <p class="green">
12 lorem ipsum dolor sit amet, consect
13 </p>
14 <p class="green">
15 lorem ipsum dolor sit amet, consect
16 </p>
17 <p id="blue">
18 lorem ipsum dolor sit amet, consect
19 </p>
20 </html>
```

Two earlier paragraphs are in one class (class="green")

id="blue" is inserted into the <p> tag

## Styling the attributes in CSS

When you have added the attributes – **class** and **id** – to the paragraphs you wanted to style, these have to be defined by going back to the **head** section to use the **<style>** tags. To identify the **class**, the code used is **.green{color:green;}**.

The code is use a full stop before the name of the class that you have used in the <p> tag, and then another curly bracket where the style is named – in this case that the colour of the text should be green {color:green;}. Note the use again of the American spelling of colour (color) and the colon separating the word 'color' from green. And the use of a semi-colon before the curly bracket is closed. This really is like learning a new language!

The code looks like this...

```
1 <html>
2 <head>
3 <style>
4 p{color:red;}
5 .green{color:green;}
6 </style>
7 </head>
8 <body>
9 <p>
10 lorem ipsum dolor sit amet, consectetuer adipiscing elit. Proin v
11 </p>
12 <p class="green">
13 lorem ipsum dolor sit amet, consectetuer adipiscing elit. Proin v
14 </p>
15 <p class="green">
16 lorem ipsum dolor sit amet, consectetuer adipiscing elit. Proin v
17 </p>
18 <p id="blue">
19 lorem ipsum dolor sit amet, consectetuer adipiscing elit. Proin v
20 </p>
21 </html>
```

.green{color:green;} is inserted into the paragraph tag



To identify the **id**, the hashtag (#) is used (also sometimes referred to as a sharp sign, from music, and when using a touch phone, it can be called the pound sign).

So to code the id style, use **#blue{color:blue;}** inside the style tags. This will turn the colour of the text blue in the paragraph with the id="blue".

**The code looks like this...**

```
1 <html>
2 <head>
3 <style>
4 p{color:red;}
5 .green{color:green;}
6 #blue{color:blue;}
7 </style>
8 </head>
9 <body>
10 <p>
11 lorem ipsum dolor sit amet, consectetur adipiscing elit. Proin vitae
12 ullamcorper enim. Sed felis lacus, ultrices id egestas eu, varius eu
13 <p class="green">
14 lorem ipsum dolor sit amet, consectetur adipiscing elit. Proin vitae
15 ullamcorper enim. Sed felis lacus, ultrices id egestas eu, varius eu
16 <p class="green">
17 lorem ipsum dolor sit amet, consectetur adipiscing elit. Proin vitae
18 ullamcorper enim. Sed felis lacus, ultrices id egestas eu, varius eu
19 <p id="blue">
20 lorem ipsum dolor sit amet, consectetur adipiscing elit. Proin vitae
21 ullamcorper enim. Sed felis lacus, ultrices id egestas eu, varius eu
22 </p>
</body>
</html>
```

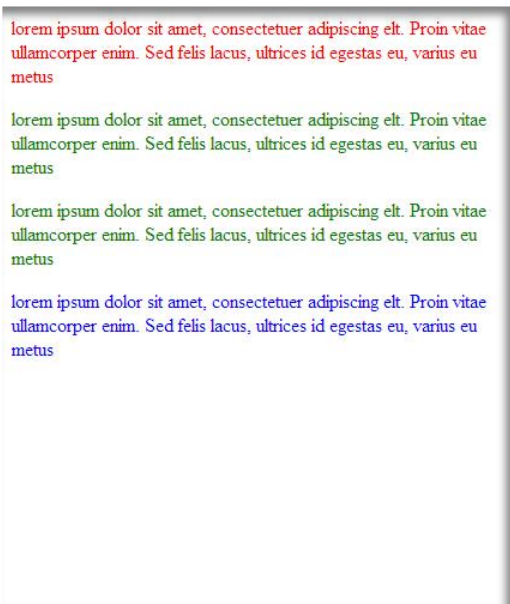
#blue{color:blue;} is inserted into the paragraph tag

Looking at the code above, when we save and publish this, we should get...

1. Paragraph 1 in red
2. Paragraph 2 and 3 in green
3. Paragraph 4 in blue

If you're not sure that this is true, check again through the code and see that paragraphs 2 and 3 are a class, paragraph 4 has an id, but paragraph 1 is defined as any paragraphs that don't have a class or an id – this is known as the default style.

And to check that this is the case, save the code, and run in Chrome to get...



Not working as it should? Check out the list of possible places where it could have gone wrong from the list on the next page.



## Debugging your code

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This is known as debugging – working out where there are errors in the code.

If you find your code doesn't quite generate this outcome, check the syntax (the language of the code) to make sure you haven't...

1. Spelled color incorrectly
2. Forgotten a colon or semi-colon
3. Forgotten the speech marks ("xx") around the class and id definitions (e.g. id="blue")
4. Used the wrong bracket type – should be the curly one!
5. Inserted the style information in the wrong place.