## **MODULE 2: HTML + CSS**

Just like Batman and Robin, or Macaroni and Cheese, HTML and CSS are at their best when they work together. If HTML was compared to the frame of a house, CSS is the interior design. With CSS, we can define the style used for text fonts, colours, sizes, and more.

```
CSS example

(just a little sample)

<style>
h1 {
    color:#FF0000;
    font-family:arial;
    }
</style>
```

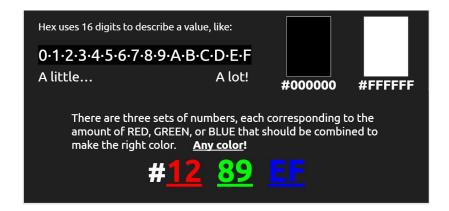
Let's break this down! CSS lives inside **<STYLE>** tags that go inside our **<HEAD>** tag. In this example: **<h1>** is a Heading size 1 tag, and we have defined a few things for it:

- FF0000 indicate we have told the font to be red. This is called HEX CODE, which
  is a way to describe millions of colours without remembering the name of every
  colour, like Ultra Super-Duper Bright Green.
- 2. We have also defined <h1> to use the font called Arial.
- 3. We close things up by completing both the brackets **{}**, and finishing with a closing **</STYLE>** tag.

**(CANADIAN) PRO TIP:** In Canada we spell the word colour with a "u". But in CSS coding, it's spelled without one: "color".



## **HEX COLOUR GUIDE**



Learning about HEX will be important when you want to change the colour of text or background on a website. HEXADECIMAL uses 16 digits (A through F) to represent colours, and requires 3 sets of numbers. The first two numbers in the code are Red, the second two are Green, and the final set is Blue. This helps the computer know how much of a colour to mix together to make the colour you want. Two zeroes mean using none of that colour, while two Fs will instruct the computer to use the maximum of the colour.

You can see above that #000000 is **BLACK**. Not using any black can create **RED**, **GREEN**, **or BLUE**. **#FFFFFF** uses all the colours, which combines to become **WHITE**. With a bit more modification, we can mix a bit of each to make any colour we choose!

What do you think the HEX CODE for **PURPLE** would be? If you said: #FF00FF for red and blue combined, you would be correct!

## WHERE CAN WE GO FROM HERE?

HTML is a very common computer programming language, but there are also many others. Java and JavaScript are incredibly popular, and so is Python. Web development continues to grow, with plenty of career opportunities available to people who can learn these languages to create websites, apps, and games. Check out a website like <a href="www.code.org">www.code.org</a> to play games and build real working projects using a variety of programming languages.

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