



## Welcome to Week 3

July 25, 2022

## Website Development

### REMEMBER!!

Submit ALL of this week's challenges (or screen shots of them) to [codefest@iechamilton.ca](mailto:codefest@iechamilton.ca) by Sunday, July 31 at noon for your chance to win **1 of 50 \$10 Gift Cards** or the **GRAND PRIZE of up to \$300 towards an online coding &/or technology related activity, camp, course or subscription** (subject to approval).

Web Developers work with programming languages to create websites and web applications. Keep in mind, a Website Developer is not the same as a Website Designer. Designers create the layout for the look and feel of a website making sure it is logical and user-friendly, while Developers take the design and create the code to produce a live, fully-functional website. Front-End Developers use languages like HTML, CSS, and JavaScript to build the visual designs. Back-End developers utilize other languages to set up email services, user authentication, databases, payments and other technical aspects of websites. Full-Stack Developers are able to perform both functions.

A Web Developer will find their career path may have jobs available in both the public and private sectors and is a great option for entrepreneurs and for those who wish to take on contract-based work. Salaries for this field can vary depending on where you choose to work, but you can expect to enter the occupation with a yearly income of \$50,698. \* This will only increase over time as skills develop further with experienced workers earning up to \$85,932 per year. Locally, in Hamilton, Web Developers are in-demand and the prospects look good as Hamilton continues to become a very tech-intense city. COVID-19 has only intensified the need for Website Developers as many companies and organizations are looking to increase their online presence.

There are a few courses and programs at Mohawk College that can help lead you to a web development career path. Take a look at some of their offerings:

[Computer Systems Technology - Software Development - 559](#) - 3 Year Advanced Diploma Program

[Computer Systems Technician - Software Support - 548 - 558](#) - 2 Year Diploma Program

[Mobile Application Development](#) - Acknowledgement of Completion

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## The Challenge!

This week, we're heading to [CodeDragon](#) to learn about web design using HTML including tags, headers, images, and attributes, and CSS, to add design elements to webpages.

To be entered to win one of the prizes this week, you will need to complete (and send in screenshots for):

1. [HTML Tutorial](#)  
Complete all steps & take screen shots on completion.
2. [CSS Tutorial](#)  
Complete all steps & take screen shots on completion.

## Tips:

- Find our example challenges and projects on the next few pages.
- Remember to read the information provided in the tutorials, it will help your understanding for future use.
- BE CREATIVE!!
- If you are struggling, CODEfest Camp Mentors can help! Email: [codefest@iechamilton.ca](mailto:codefest@iechamilton.ca) to register or to ask questions.

Send your completed exercises to [codefest@iechamilton.ca](mailto:codefest@iechamilton.ca).

Make sure you include your full name!

Prize winners will be contacted next week via information provided at registration

If you are interested in exploring HTML & CSS further, there are lots of additional resources like:  
[Zim Skool](#), [HTML Dog](#), [Learn Ruby with rubymonk](#),  
[CodeMaven](#), [CodeWars](#), [Learn the Basics with Educode](#),  
[Responsive Web Design](#) or [W3 Schools](#).

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# Week 3 Challenge

## July 25, 2022

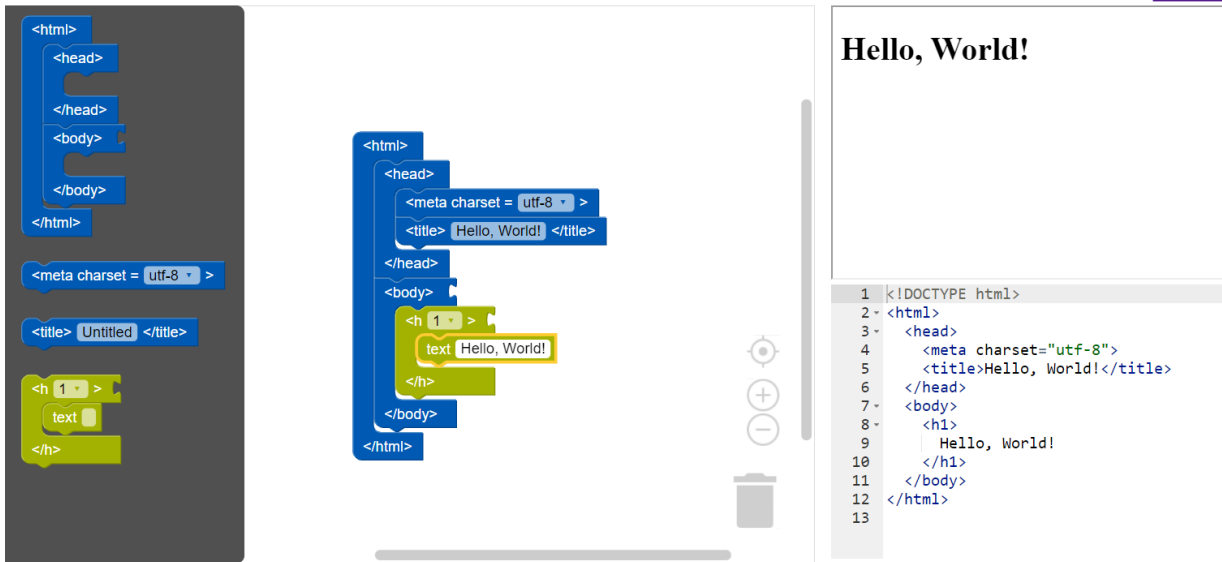
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#### HTML Tutorial

#### Tags & Structure



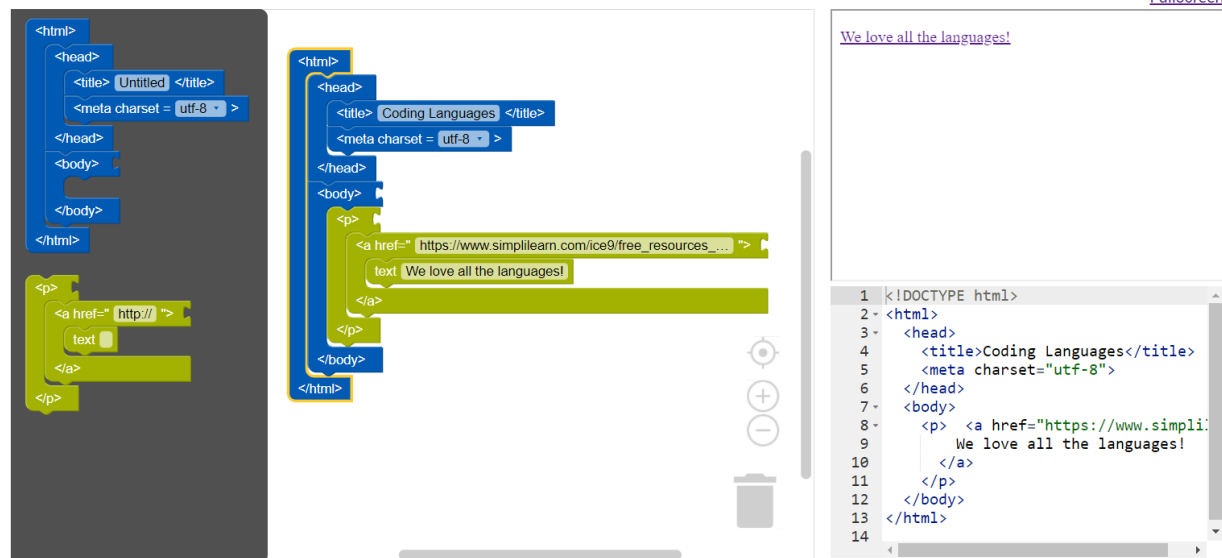
The screenshot shows a code editor with a dark theme on the left and a preview window on the right. The code in the editor is as follows:

```
<html>
<head>
</head>
<body>
</body>
</html>
<meta charset = utf-8 >
<title> Untitled </title>
<h1 >
text Hello, World!
</h1>
</html>
```

The preview window displays the rendered HTML, showing the text "Hello, World!" in a large, bold font. Below the preview, the source code is visible:

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <meta charset="utf-8">
5 <title>Hello, World!</title>
6 </head>
7 <body>
8 <h1>
9 Hello, World!
10 </h1>
11 </body>
12 </html>
13
```

#### Using Links



The screenshot shows a code editor with a dark theme on the left and a preview window on the right. The code in the editor is as follows:

```
<html>
<head>
<title> Untitled </title>
<meta charset = utf-8 >
</head>
<body>
</body>
</html>
<p>
<a href="http://" >
text
</a>
</p>
</html>
```

The preview window displays the rendered HTML, showing a link that says "We love all the languages!". Below the preview, the source code is visible:

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Coding Languages</title>
5 <meta charset="utf-8">
6 </head>
7 <body>
8 <p> <a href="https://www.simpli:
9 We love all the languages!
10 </a>
11 </p>
12 </body>
13 </html>
14
```

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# Week 3 Challenge

## July 25, 2022

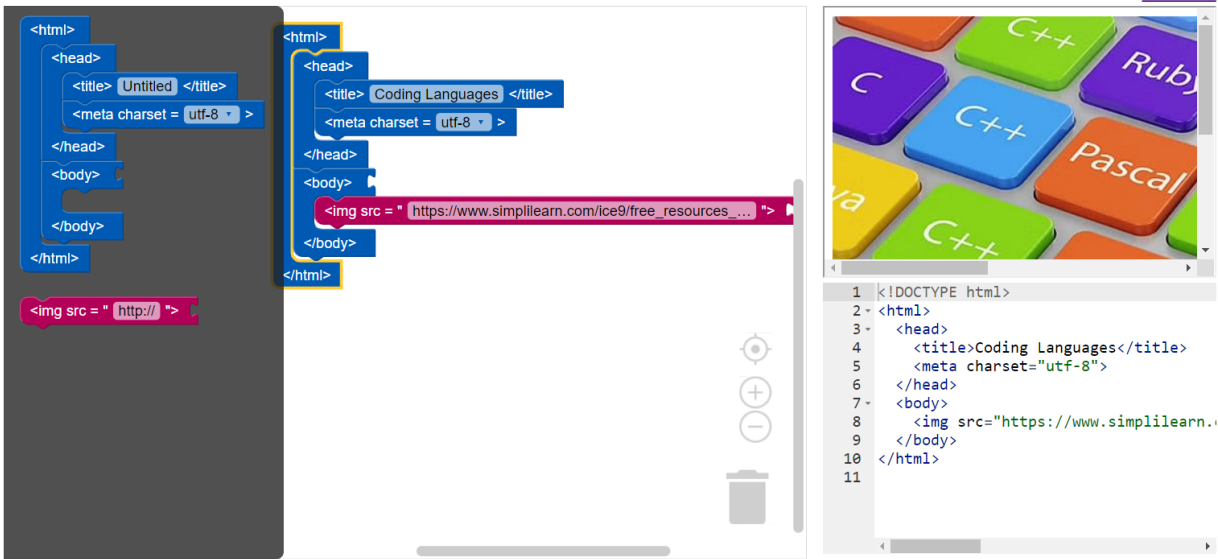
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#### HTML Tutorial Cont'd

#### Adding Images

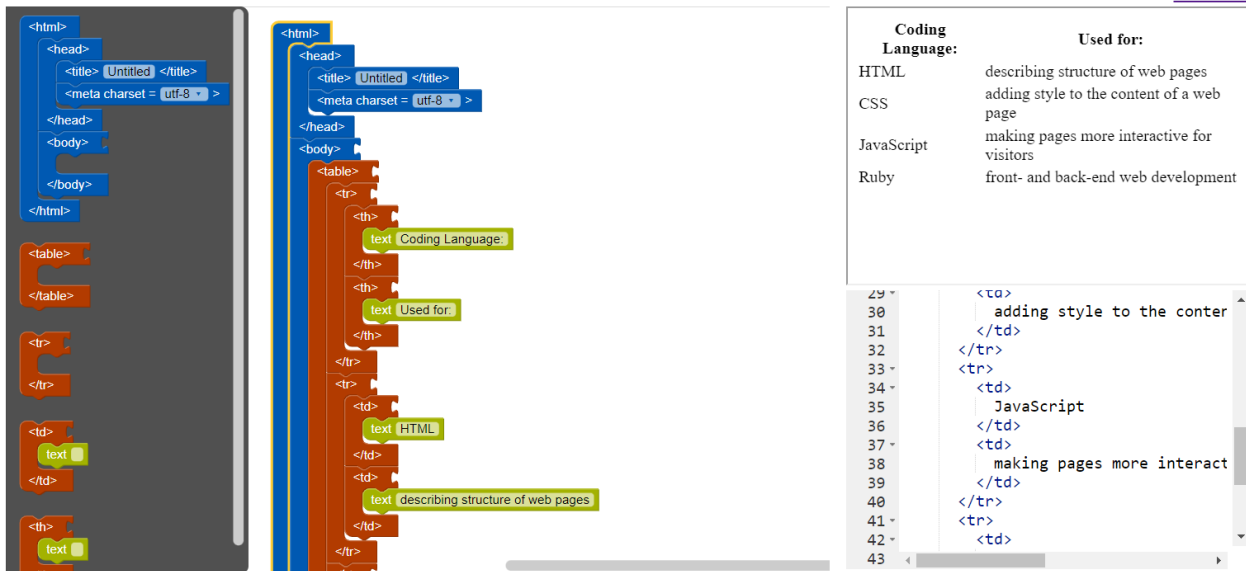


```

<html>
<head>
<title> Coding Languages </title>
<meta charset = utf-8 >
</head>
<body>
<img src = " https://www.simplilearn.com/ice9/free_resources_... " >
</body>
</html>

```

#### Tables



```

<table>
<tr>
<th> Coding Language </th>
<th> Used for </th>
</tr>
<tr>
<td> HTML </td>
<td> describing structure of web pages </td>
</tr>
<tr>
<td> CSS </td>
<td> adding style to the content of a web page </td>
</tr>
<tr>
<td> JavaScript </td>
<td> making pages more interactive for visitors </td>
</tr>
<tr>
<td> Ruby </td>
<td> front- and back-end web development </td>
</tr>
</table>

```

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# Week 3 Challenge

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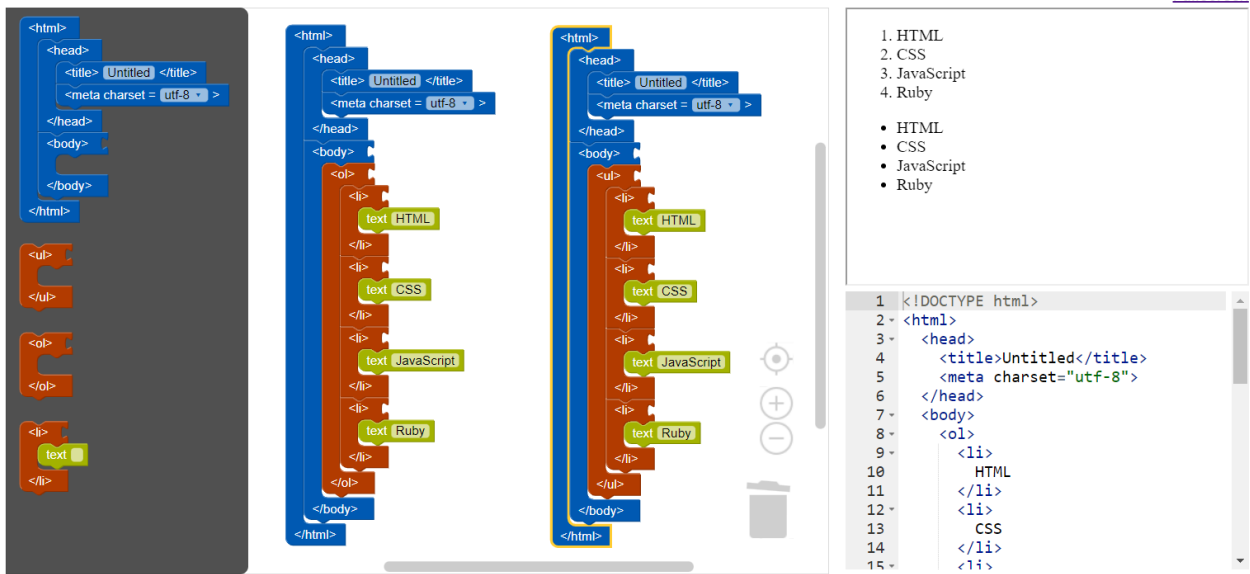
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## HTML Tutorial Cont'd

### Ordered & Unordered Lists



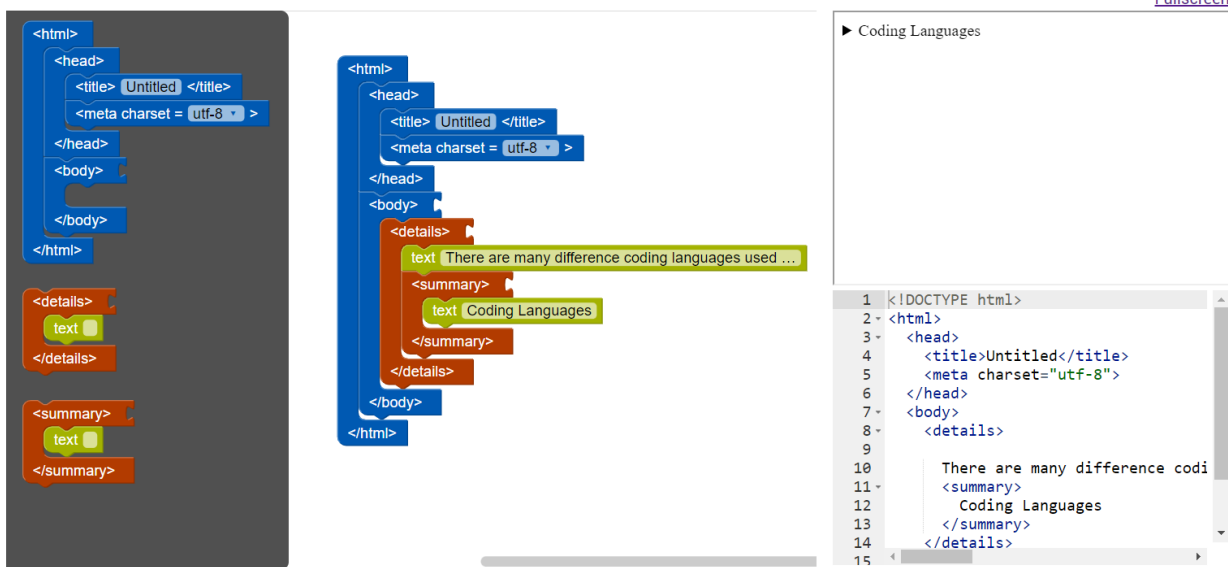
[Fullscreen](#)

```

1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Untitled</title>
5 <meta charset="utf-8">
6 </head>
7 <body>
8 <ol>
9 <li>
10 HTML
11 </li>
12 <li>
13 CSS
14 </li>
15 </ol>

```

### Summaries



[Fullscreen](#)

```

1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Untitled</title>
5 <meta charset="utf-8">
6 </head>
7 <body>
8 <details>
9 <summary>
10 Coding Languages
11 </summary>
12 There are many difference codi
13 </details>
14 </body>
15 </html>

```

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#### CSS Tutorial

##### Styling HTML with CSS

#### CSS Tutorial

##### Making Text Prettier - Using Fonts

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# Week 3 Challenge

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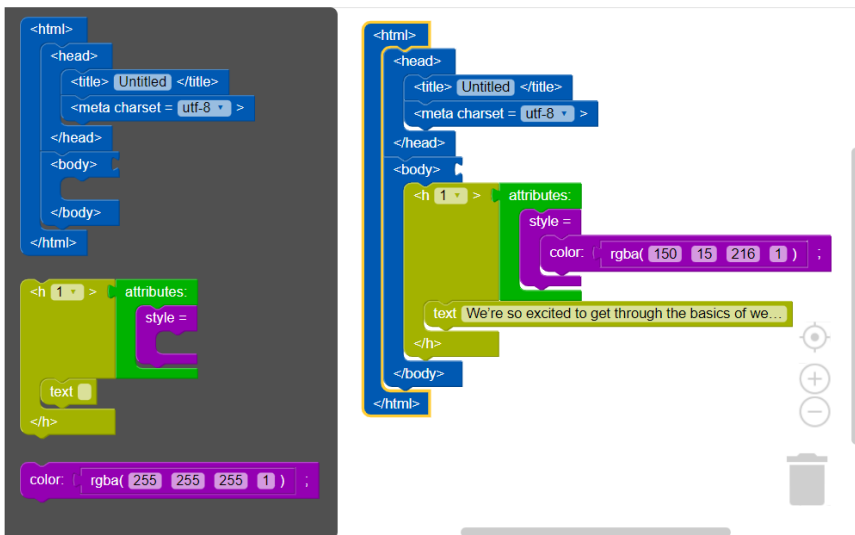
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#### CSS Tutorial Cont'd

#### Making Text Prettier - Adding Colour with RGB



The screenshot shows a code editor with the following HTML code:

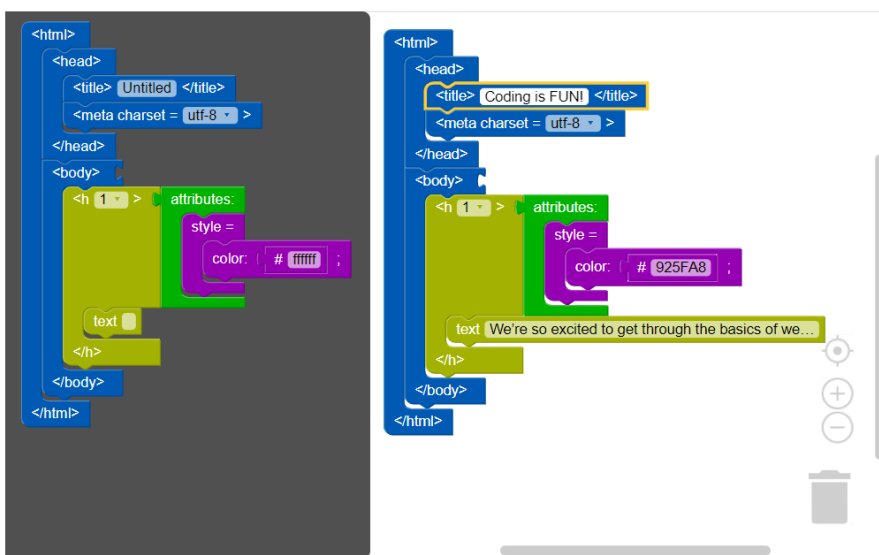
```
<html>
<head>
<title> Untitled </title>
<meta charset = utf-8 >
</head>
<body>
</body>
</html>
```

The code is being modified to include a heading and text with a specific color:

```
<h1 style="color: rgba(150, 15, 216, 1) ;">
We're so excited to get through the basics of we...
</h1>
```

The text "We're so excited to get through the basics of we..." is displayed in a purple color on the right side of the editor.

#### Making Text Prettier - Adding Colour with HEX



The screenshot shows a code editor with the following HTML code:

```
<html>
<head>
<title> Coding is FUN! </title>
<meta charset = utf-8 >
</head>
<body>
</body>
</html>
```

The code is being modified to include a heading and text with a specific color:

```
<h1 style="color: #925FA8 ;">
We're so excited to get through the basics of we...
</h1>
```

The text "We're so excited to get through the basics of we..." is displayed in a purple color on the right side of the editor.

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#### CSS Tutorial Cont'd

#### Making Text Prettier - Adding Colour with CodeDragon Colour Picker



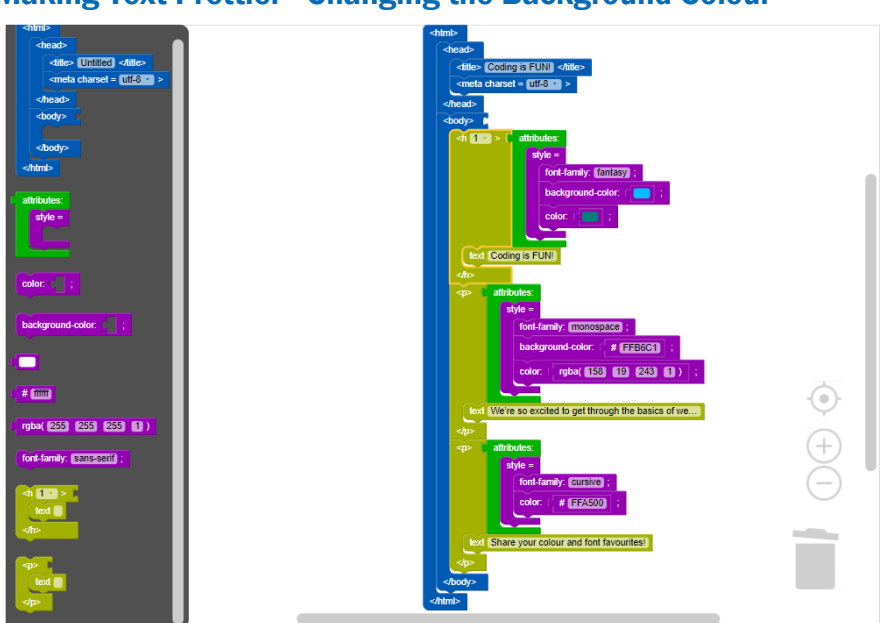
The screenshot shows the CodeDragon interface with a color picker tool. The user is selecting a color for the text of an `<h1>` tag. The preview window shows the text "We're so excited to get through the basics of web development so we can start being creative when building our own websites!" in a dark cyan color.

```

1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Coding is FUN!</title>
5 <meta charset="utf-8">
6 </head>
7 <body>
8 <h1 style="color: darkcyan;">
9   We're so excited to get through the
10  </h1>
11 </body>
12 </html>

```

#### Making Text Prettier - Changing the Background Colour



The screenshot shows the CodeDragon interface with CSS properties being added to the `<h1>` tag. The preview window shows the text "Coding is FUN!" in a pink color on a blue background. Below it, the text "We're so excited to get through the basics of web development so we can start being creative when building our own websites!" is shown in a teal color on a white background.

```

1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Coding is FUN!</title>
5 <meta charset="utf-8">
6 </head>
7 <body>
8 <h1 style="font-family: fantasy;
9   background-color: deepsk
10  color: teal;">
11   Coding is FUN!
12 </h1>
13 <p style="font-family: monospace
14  background-color: #ffb6c
15

```

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#### CSS Tutorial Cont'd

#### Making Text Prettier - Boxes and Margins

```

<html>
<head>
<title> Untitled </title>
<meta charset = "utf-8" >
</head>
<body>
</body>
</html>

<h1 > </h1>
text Website
</h1>
<h2 > </h2>
text Development
</h2>
<h1 > </h1>
text FUN!
</h1>

style =
margin - top > : 20px ;
margin - left > : 100px ;
margin - bottom > : 0px ;

style =
margin - top > : 0px ;
margin - right > : 50px ;
margin - bottom > : 50px ;

style =
margin - top > : 100px ;
margin - left > : 300px ;

style =
margin - top > : 15px ;
margin - right > : 100px ;
margin - left > : 155px ;

<h1 style="margin-top: 20px; margin-left: 100px; margin-bottom: 0px;">
  Website
</h1>
<h1 style="margin-top: 0px; margin-right: 50px;">
  is
  
```

#### Making Text Prettier - Padding

```

<html>
<head>
<title> Untitled </title>
<meta charset = "utf-8" >
</head>
<body>
</body>
</html>

<h1 > </h1>
text Coding is FUN!
</h1>

style =
border : 1 px solid #0000ff ;
padding - top > : 100px ;
padding - right > : 155px ;
padding - bottom > : 2px ;
padding - left > : 155px ;

<h1 style="border: 1px solid #0000ff; padding-top: 100px; padding-right: 155px; padding-bottom: 2px; padding-left: 155px;">
  Coding
  is
  FUN!
  
```

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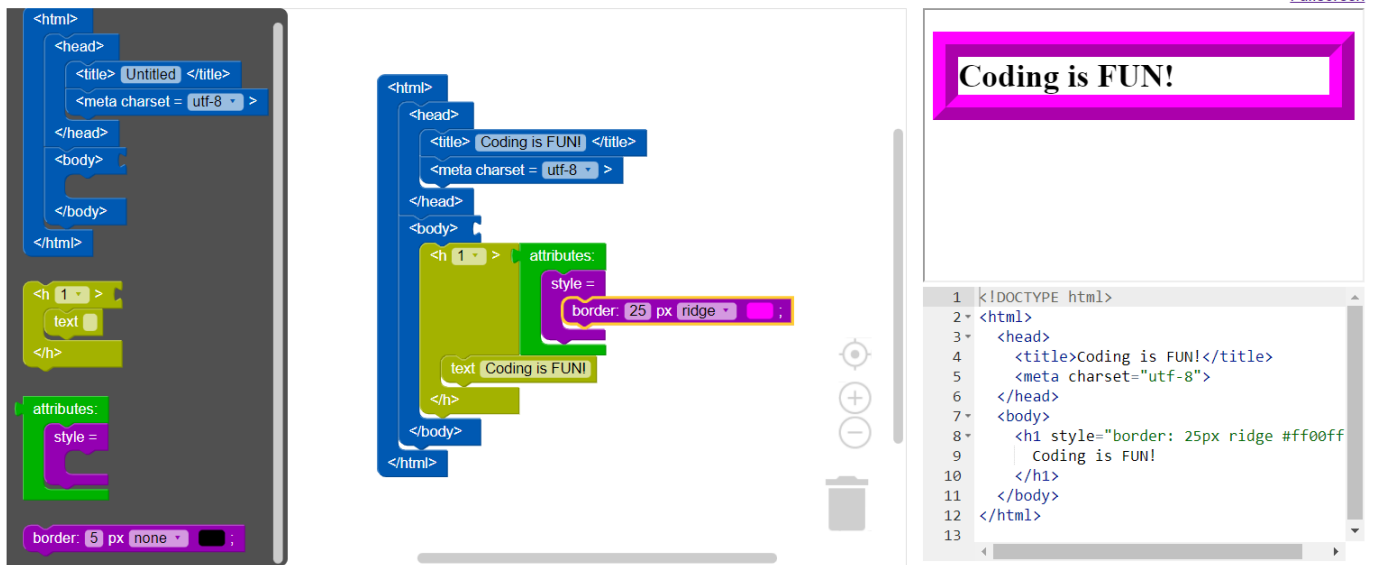
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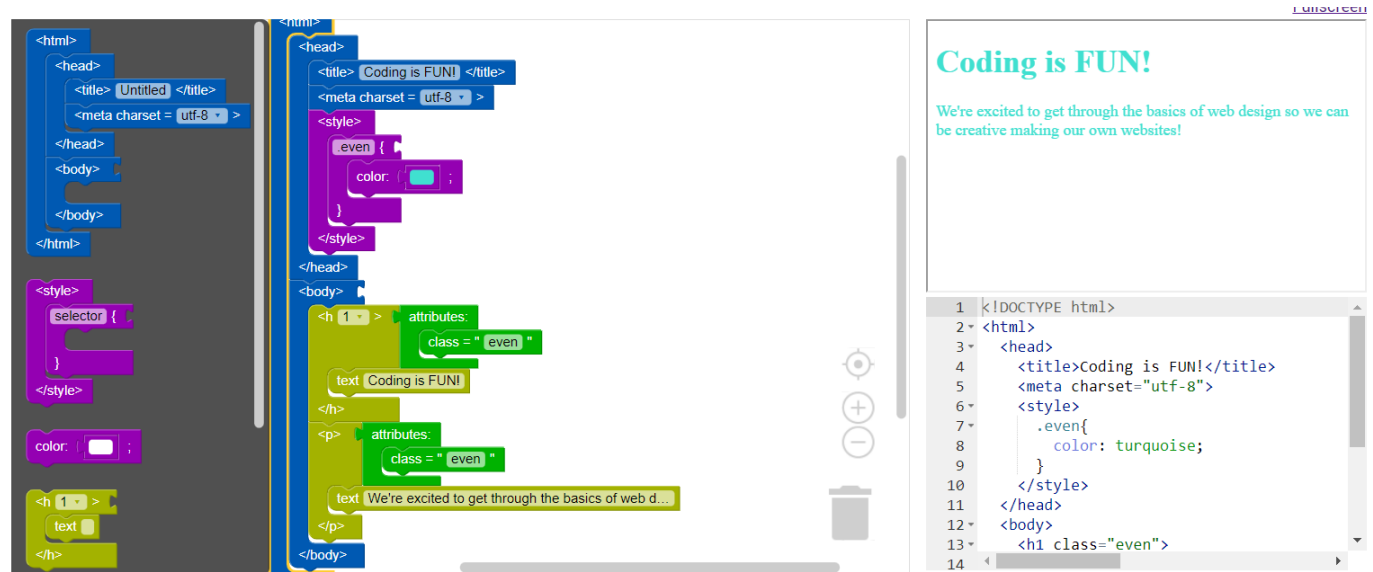
#### CSS Tutorial Cont'd

#### Making Text Prettier - Borders



The screenshot shows a code editor with three panels. The left panel shows a block-based code editor with a 'border' block set to '25 px ridge #ff00ff'. The middle panel shows the corresponding HTML code: `<h1 style="border: 25px ridge #ff00ff;">Coding is FUN!</h1>`. The right panel shows a browser preview of the text 'Coding is FUN!' inside a pink, 3D-style ridged border.

#### Making Text Prettier - Classes



The screenshot shows a code editor with three panels. The left panel shows a 'style' block with a 'color' block set to 'turquoise' and a 'class' block set to 'even'. The middle panel shows the HTML code: `<h1 class="even">Coding is FUN!</h1><p class="even">We're excited to get through the basics of web d...</p>`. The right panel shows a browser preview where the text 'Coding is FUN!' and the paragraph below it are colored turquoise.

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#### CSS Tutorial Cont'd

#### Making Text Prettier - Pseudo Classes

```

<html>
  <head>
    <title> Untitled </title>
    <meta charset = utf-8 >
  </head>
  <body>
  </body>
</html>

<style>
  selector {
  }
</style>

:after {
  background-color: 
}

<h 1 >
  text
</h>
  
```

```

<html>
  <head>
    <title> Untitled </title>
    <meta charset = utf-8 >
  </head>
  <body>
    <h1 >
      background-color: red;
    </h1>
    <h1 :hover >
      background-color: green;
    </h1>
  </body>
  
```

```

1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title>Untitled</title>
5     <meta charset="utf-8">
6   </head>
7   <style>
8     h1{
9       background-color: red;
10    }
11  </style>
12  <style>
13    h1:hover{
14      background-color: green;
15    }
  
```

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