

Unit 5: Web Development

In this unit, you will use CodePuppy to learn about:

1. How to write HTML code to add content to a website
2. How to use CSS code to change the format of a website
3. How to use CSS code to change the format of individual parts of a website

Exercise 1

Find the following lines of code:

```
<h1>Website Title</h1>
<h2>Website Subtitle</h2>
<p>Website Introduction</p>
```

Study Drills:

Change the text Website Title to a title of your choice

Change the text Website Subtitle to a subtitle of your choice

Change the text Website Introduction to an introductory paragraph welcoming visitors and explaining to them what your website it about

Click on Run Code to run your code.

Exercise 2

Find the following lines of code:

```
<details>
  <summary>Section 1 Heading</summary>
  <p>
    Section 1 Paragraph Text
  </p>
</details>
```

Study Drills:

Change the text Section 1 Heading to a heading of your choice

Change the text Section 1 Paragraph Text to add some content to the web page

Repeat this process for Section 2 and Section 3

Click on Run Code to run your code.

Exercise 3

Add the following code to your website. Run your code to make sure it works.

```
<img src = "img/1.jpg">
```

Study Drills:

Add three more pictures to your website. You will find an image library by clicking on

**Extension:**

Try adding a picture you have found on the internet in the same way. You will need to find the path to the image you want to use by **right clicking** on the image and choosing **Copy Image Address**

Exercise 4

Change the size of your images using the following code:

```
<img src = "img/1.jpg" style = "height:200px;">
```

Study Drills:

Experiment with the size of the pictures you have added

Extension

Try giving your pictures a drop shadow, like this:

```
<img src = "img/1.jpg" style = "height:200px;box-shadow: 10px 10px 10px grey;">
```

Exercise 5

Add the following code to your website. Run your code to make sure it works.

```
<a href="https://www.codepuppy.org">CodePuppy Homepage</a>
```

Study Drills:

Add hyperlinks to three more websites to your page

Exercise 6

Find the following lines of code:

```
body {  
    background: red;  
    font-family: "times";  
}
```

Study Drills:

Change the background colour of the page. You will find a list of different colours by clicking on



Exercise 7

Find the following lines of code:

```
body {  
    background: red;  
    font-family: "times";  
}
```

Study Drills:

Change the font of the body text (this will not change the font of the headings and subheadings)

The following fonts work well:

Helvetica

Arial

Arial Black

Verdana

Tahoma

Trebuchet MS

Impact

Times

Georgia

Courier

Comic Sans MS

Exercise 8

Find the following lines of code:

```
body {  
    background: red;  
    font-family: "times";  
}
```

Study Drills:

In the same way, change the font style and colours of the other sections of your website

Exercise 9

Add the following style code:

```
a {  
  background:black;  
  color: white;  
  padding-top: 15px;  
  padding-bottom: 15px;  
}
```

Study Drills:

Experiment with the CSS hyperlink code - try changing the values and see how it changes the appearance of your hyperlinks.

There is an **extension** for Exercise 9 on the next slide →

Exercise 9

Extension

Add the following style code:

```
a:hover {  
    background:grey;  
}
```

Study Drills:

Play around with the hover style. How can you make your navigation more dynamic?

Exercise 10

Find the following line of code:

```
<summary>Section 1 Heading</summary>
```

Add the following code to change the format of this section:

```
<summary style="color: pink;">Section 1 Heading</summary>
```

Study Drills:

Experiment by changing the format of other sections of the page