

Introducing HTML - Exercises

Exercise 1

In this exercise you will create your first HTML page.

1. On your computer, in your *websites* folder, create a new folder called **test**.
2. Open your code editor, create a new file and save it as **index.html** in the **test** folder 3. In

index.html :

- On the first line, add the **doctype** for a HTML 5 document:

```
<!doctype html>
```

- On the next lines, add the opening and closing tags for a *html* element

```
<html>
</html>
```

- Remember, everything we add to the page must be *inside* the *html* element.
- Between the *html* tags, add the opening and closing tags to create *head* and *body* elements:

```
<html>
  <head>
  </head>
  <body>
  </body>
</html>
```

- Between the opening and closing *head* tags, add a title element, containing the text *My First Web Page* or similar:

```
<html>
  <head>
    <title>My First Web Page</title>
  </head>
  <body>
  </body>
</html>
```

- Between the opening and closing *body* tags, add the text *Hello World*:

```
<html>
  <head>
    <title>My First Web Page</title>
  </head>
  <body>
    Hello World
  </body>
</html>
```

- Save the modifications you have made to the file

4. Open *index.html* in your browser to review the results of your coding

- Can you see the text *Hello World*?
 - If not, review the code you wrote and ensure that all tags are present and correct. Pay particular attention to the *closing* tags and make sure the */* has been included.
- What about the *title* you added to the *head*: *My First Web Page*. Can you see where this is displayed?
- Right-click somewhere on the page with your mouse and select **View Source** (or *View Page Source*) from the menu. A new tab or window will open where you will see the code that you wrote. Note, you can do this on any web page you visit!

If you have time, you should now read the *Code Formatting* and *Naming Conventions* documents which are available in Moodle and ensure that your code adheres to the guidelines set out in each.

Exercise 2

In this exercise, you will build a structured web page which will become the home page of the website which we will be building in class.

1. Create a new folder in your *websites* folder and call it **balloons** (all lowercase letters)
2. Create a new HTML file and save it in the *balloons* folder as **index.html** (again, all lowercase letters)
3. In *index.html*, add the basic HTML structure for the page, just like you did in the previous exercise
 - i.e. the *doctype* and the *html*, *head*, *title* and *body* tags. • This time, the text for the *title* tag will be: *Balloons Ltd.*
4. Now we can add some content to the page. Remember, all of the *content* should be placed within the *body* element.
5. First, we will add the main heading for the page. Between the opening and closing *body* tags, add a **h1** element containing the text: *Balloons Ltd.*:

```
<body>
  <h1>Balloons Ltd.</h1>
</body>
```

If you view the page in your browser now, you should see the heading displayed as large, bold text.

6. Next, we will add some sub-headings (*h2*) to divide the page into sections. The content of the sub-headings will be:
 - What We Do •
 - Who We Are
 - Where To Find Us
7. Immediately after the *h1* element, add 3 **h2** elements with the appropriate text (see point 6 above). Place each pair of tags on a separate line in your code. E.g.:

```
<body>
  <h1>Balloons Ltd.</h1>
  <h2>What We Do</h2>
  <h2>Who We Are</h2>
  <h2>Where To Find Us</h2>
</body>
```

8. Finally, we will add some content below each of the *h2* elements

- Below the *What We Do* heading, add 2 paragraph elements (`<p></p>`), each on their own line in the code.
 - The first paragraph should contain the text:
We make bespoke balloons of all shapes and sizes, for all occasions and purposes. – The second paragraph should contain the text:
From helium-filled party balloons to hot-air balloons, we have it covered. So, whether you are celebrating a birthday or flying across the channel, give us a call!
- Below the *Who We Are* heading, add another 2 paragraph elements. – The first paragraph should contain the text:
We are a small team of dedicated professionals that are mad about balloons. – The second paragraph should contain the text:
Our engineers are all BBEI accredited and are highly experienced in all things related to the balloon industry.
- Below the *Where To Find Us* heading, add 1 more paragraph element. – This paragraph should contain the text:
Our workshop and showroom are located in Athlone.
Visits are by appointment only, so please give us a call or send us an email before you come to see us.

9. Now save your page and view it in your browser. It should look something like this:

Balloons Ltd.

What We Do

We make bespoke balloons of all shapes and sizes, for all occasions and purposes.

From helium-filled party balloons to hot-air balloons, we have it covered. So, whether you are celebrating a birthday or flying across the channel, give us a call!

Who We Are

We are a small team of dedicated professionals that are mad about balloons.

Our engineers are all BBEI accredited and are highly experienced in all things related to the balloon industry.

Where To Find Us

Our workshop and showroom are located in Athlone. Visits are by appointment only, so please give us a call or send us an email before you come.

If it does not look like this, check your code and ensure that all opening and closing tags are present and correct.

If you have time, and you have not already done so, you should read the *Code Formatting* and *Naming Conventions* documents and ensure that your code adheres to the guidelines set out in each.

Exercise 3

In this exercise, we will enhance the *meaning* of the code we have written with *attributes* and *semantic elements*.

Before you begin this exercise, you should have completed exercise 2.

1. Open *index.html* from your *balloons* folder in your code editor.
2. First, we will add the language attribute we saw in the presentation.

- Locate the opening *html* tag in your code.
- Add a **lang** attribute to it, with the *value*: **en**

```
<html lang="en">
```

Save your page and view it in your browser. If you have added the attribute correctly, you should see no difference!

3. Next, we will mark some of the text as *important*. We will use the **strong** tag for this.

- In your code, locate the paragraph that follows the *Where To Find Us* heading (Our work-shop...)
- We want to place the text “Visits are by appointment only” in a *strong* element. •

Immediately before the word *Visits*, add an opening *strong* tag

- Immediately after the word *only*, but before the *comma* that follows it, add a closing *strong* tag.
- When done, your code should look something like this:

```
<p>Our workshop and showroom are located in Northampton Square, London.  
  <strong>Visits are by appointment only</strong>, so please give us a call  
  or send us an email before you come to see us.</p>
```

Save and view your page in your browser. Is the text being displayed as bold text?

4. Now, we will mark some words and phrases as having *emphatic stress*. We will use the **em** tag for this.

- In your code, locate the second paragraph that follows the *What We Do* heading (From helium-filled party balloons...)
- We want to give emphasis to the *types* of balloons that are mentioned in the text.
- Within the paragraph, locate these 2 phrases and place each of them in an *em* element:
helium-filled party balloons **and** hot-air balloons
- When done, your code should look like this:

```
<p>From <em>helium-filled party balloons</em> to <em>hot-air balloons</em>, we  
  have it covered. So, whether you are celebrating a birthday or flying across the  
  channel, give us a call!</p>
```

Note how the word **to** between the 2 phrases has not been included in the *em* tag.

- Save and view your page in your browser. Are the 2 phrases being displayed as italic text?

5. Finally, we will provide an expansion for the fictitious acronym used in the *What We Do* section (BBEI)

- In your code, locate the *BBEI* acronym which appears in the second paragraph following the *What We Do* heading
- Add an **abbr** element which surrounds the acronym:

```
<p>Our engineers are all <abbr>BBEI</abbr> accredited....</p>
```

- Now add a **title** attribute to the *abbr* opening tag:

```
<p>Our engineers are all <abbr title="">BBEI</abbr> accredited....</p>
```

- Now add the expansion of the acronym to the *title* attribute's *value*. The acronym stands for: *Bespoke Balloon Engineers Institute*

```
<p>Our engineers are all  
<abbr title="Bespoke Balloon Engineers Institute">BBEI</abbr>  
accredited....</p>
```

- Save your page and view it in your browser.
- Try holding your mouse over the acronym... You should see the acronym's expansion displayed as a tool-tip.
- If you are using Firefox, there should also be a dotted line displayed below the acronym – Note, not all browsers apply this default style to the abbrtag

6. For reference, the completed page should look something like this:

Balloons Ltd.

What We Do

We make bespoke balloons of all shapes and sizes, for all occasions and purposes.

From *helium-filled party balloons* to *hot-air balloons*, we have it covered. So, whether you are celebrating a birthday or flying across the channel, give us a call!

Who We Are

We are a small team of dedicated professionals that are mad about balloons.

Our engineers are all BBEI accredited and are highly experienced in all things related to the balloon industry.

Where To Find Us

Our workshop and showroom are located in Athlone. **Visits are by appointment only**, so please give us a call or send us an email before you come.