WDOS - Tutorial - HTML and CSS Basics

Objectives: Getting familiar with HTML and CSS

Instructions

- You will need to refer to the lecture slides, internet resources and lab work to complete these tasks.
- Make sure you understand each part, but if you are unsure, ask your tutor.

Create the citrus café page – (A web page to a café named Citrus)

1. Create a folder called `citrusCafe`

2. Copy the `images` folder from LMS and add to it `citrusCafe` folder

3. Create the page called `citrus.html` and add the following code:

```
<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="utf-8">
        <meta name=viewport content="width=device-width,
            initial-scale=1">
        <meta name="description" content="Citrus Café restaurant">
        <title>Citrus Cafe</title>
        <link rel="stylesheet" href="styles.css">
    </head>
    <body>

    </body>
</html>
```

4. Create a style sheet called `styles.css` and save it in the `citrusCafe` folder

5. Test the files and links by adding a rule to `styles.css` to set the background of the body to red:

```
body {
    background:red;
}
```

6. View `citrus.html` in a browser and ensure that the page is red

7. Remove the body rule and save `styles.css`

8. Add a container around the page in `citrus.html`. As there is not an appropriate semantic tag for this, use a `<div>` tag within the `<body>` tag

```
<body>
    <div id="myPage">
    </div>
<body>
```

9. Inside the `<div>` tag add the following tags:
    a. `<header> </header>`
    b. `<nav> </nav>` with an `id` of `mainNav`
    c. `<main> </main>`
    d. `<footer> </footer>`

10. Inside the `<header>` tag, add the following elements:
    a. an image with the following attributes:
        i.   `src="images/logo.png"`
        ii. `alt="Citrus Café Logo"`
        iii. `width="296"`
        iv. `height="101"`
    b. a top level heading (<h1>) with "Citrus Cafe" as the heading
    c. a second level heading (<h2>) with "Sustainable, organic and natural" as the heading
    d. a paragraph with the following text: "A vibrant neighbourhood kitchen utilising our philosophy of purchasing local, organic, and sustainable ingredients."

11. Inside the `<nav>` tag, add an unordered list of links:

```
<nav id="mainNav">
    <ul>
        <li><a href="home.html">Home</a></li>
        <li><a href="#">Menus</a></li>
        <li><a href="reservations.html">Reservations</a></li>
        <li><a href="#">Booking</a></li>
        <li><a href="#">Contact</a></li>
    </ul>
</nav>
```

12. Inside the `<footer>` tag add the following details:

```
<footer>
    &copy; Citrus Cafe 2014. Telephone Number 123-555-123
</footer>
```

13. Save and test the page

14. Validate the page in the HTML validator (https://validator.w3.org/)

15. Inside the `<main>` tag, add 4 `<article>` tags

16. Inside each `<article>` tag, add a `<header>` tag containing a `<h2>` tag as follows:
    a. About Us
    b. Today's Specials
        i. the `<header>` tag should have an id of `specialHeader`
    c. Recipe of the Day
    d. Latest News

17. Inside the About Us `<article>` tag, add 2 `<section>` tags below the `<header>` tag

18. Inside the first `<section>` tag, add the following elements:
    a. a third level heading (`<h3>`) with "The Suite" as the heading
    b. an image with the following attributes:
        i.   `src="images/events.jpg"`
        ii. `alt=" Photo of the new Britannia Suite "`
        iii. `width="255"`
        iv. `height="153"`
    c. a paragraph with "We can hold events of all sizes in our dedicated Britannia Suite."
    d. a paragraph with "The top 5 additions to the suite are:"
    e. an ordered list containing 4 items:
        i.   Projector
        ii. Whiteboard
        iii. Wifi
        iv. Coffee and tea

19. Inside the second `<section>` tag, add the following elements:
    a. a third level heading (`<h3>`) with "Restaurant" as the heading
    b. a paragraph with "Our restaurant was purpose-built in 2002 but with all the open fires, secluded dining areas and delicious pub food favourites of a country pub restaurant, we offer a warm welcome to guests who can enjoy al fresco dining on the patio and attractive gardens in summer or relax by a cosy fire."

20. Inside the Today's Specials `<article>` tag, add the following elements below the `<header>` tag:
    a. a **picture** of the small lobster
    b. a paragraph with "We have daily specials advertised via the web site. All you need to do is quote today's code 'MYSPECIAL103489' when ordering the items on special offer today"
    c. a paragraph with "Today's discount is 5% off the following."
    d. an unordered list as follows:

- Baked Camembert
- Devilled Whitebait
    - Cooked in a crispy crumb
    - served with garlic mayonnaise
- Columbian Chocolate Torte
- Salad Special

21. Inside the Recipe of the Day `<article>` tag, add the following code below the `<header>` tag:

```
<p>Ingredients for recipe: <span lang="fr-FR">Poulet basquaise</span></p>
<ul>
  <li data-quantity="1kg" data-vegetable>Tomatoes</li>
  <li data-quantity="3" data-vegetable>Onions</li>
  <li data-quantity="3" data-vegetable>Garlic</li>
  <li data-quantity="700g" data-vegetable="not spicy like chili">Red
pepper</li>
  <li data-quantity="2kg" data-meat>Chicken</li>
  <li data-quantity="optional 150g" data-meat>Bacon bits</li>
  <li data-quantity="optional 10ml" data-vegetable="liquid">Olive oil</li>
  <li data-quantity="25cl" data-vegetable="liquid">White wine</li>
</ul>
```

22. Inside the Latest News `<article>` tag, add the following elements below the `<header>` tag:
    a. navigation with a list of links as below, and href set to # to link to itself
        i. Booking for 'Celebrity Guest Chef Night' now on
        ii. Sign up for our reward card
        iii. Buy a gift card for a loved one
        iv. Free starter or pudding if you book online
        v. Tell us about your visit
        vi. Cat themed Party Special Night on 1st August 2020

23. Save and test the page

24. Show the page to your tutor

Styling the Page

Note – This is not going to be well designed or pretty – it is just for you to practise styles

All this code is added to styles.css

1. Centre the page by styling the <div> with an id of myPage, using the following code:

```
margin:0 auto; /* centred on page, no margin at top and bottom */
max-width:1260px;
min-width:860px;
width:95%;
background:#66B034;
color:white;
```

2. Style the main navigation:
    a. a solid border in black, with a width of 2px
    b. width of 120px
    c. margin of 5px

3. Style the ul inside the main navigation:
    a. remove bullet points by setting list-style to none
    b. margin and padding of 0

4. Style the hover state of the links in the main navigation:
    a. swap the foreground and background colours
        i.   background set to #FFF
        ii. color set to #66B034

5. Style the sections:
    a. white background with 80% opacity using rgba(255, 255, 255, .8);
    b. a solid border in black, with a width of 2px
    c. padding of 1em
    d. margin of 5px
    e. color set to black to override white text

6. Style the articles:
    a. background set to white
    b. solid, thin black border
    c. margin of 5px
    d. padding of 10px

7. Style only the image inside the article, not the logo:
    a. width of 100%
    b. automatically sized height, by setting height:auto
    c. margin and padding of 0

8. Style only the hyperlinks in the article, not the navigation:
   a. remove underlining by setting text-decoration:none
   b. color set to #66B034

9. Style the hover state of all links to swap the foreground and background colour

10. Style the list items in the news section:
    a. square bullet point by setting list-style-type:square
    b. color set to #66B034 as bullets will be black without this

Advanced Styling

The following requirements will test your knowledge of selectors:

1. Use an attribute selector to style the list with data items in it
   see https://developer.mozilla.org/en-US/docs/Web/CSS/Attribute_selectors

2. Use nth of type to colour the list items with stripes
   see https://developer.mozilla.org/en-US/docs/Web/CSS/:nth-of-type