

The Web Page Example

Web Technologies



Lecture by
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```
<!doctype html>
<html>
  <head>
    <title>
      Web Technologies
    </title>
    <style>
      p {
        color: blue;
      }
    </style>
    <script>
      console.log("client-side");
    </script>
  </head>
  <body>
    <p>
      Welcome!
    </p>
  </body>
</html>
```


What we will cover

Creating a webpage using:

- **Structural elements**
- **Paragraphs and Headings**
- **Image**
- **Unordered lists**

The Web Page in a Browser

City University of London

Department of Computer Science



City has been at the leading edge of computer science in the UK for six decades – including laying the groundwork for the foundation of the British Computer Society and awarding some of the country's first Computer Science degrees.

Today's department is leading research and education in emerging fields such as artificial intelligence, machine learning, data presentation, gaming, software reliability and cyber security...

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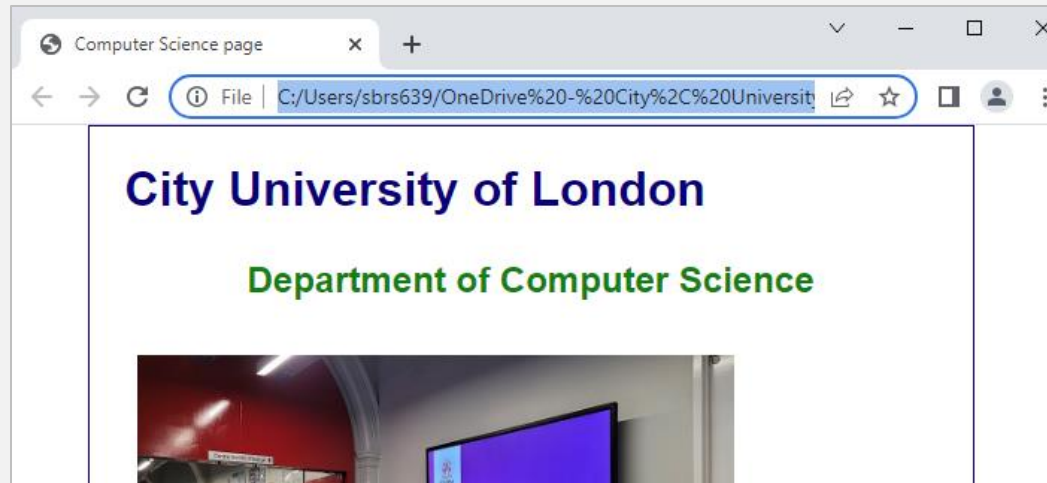
The Structural Elements

```
<!doctype html>
<html lang="en">
  <head>
  </head>
  <body>
    <header>
    </header>
    <main>
    </main>
    <footer>
    </footer>
  </body>
</html>
```

← Structural
elements

The <head> Element

<title> →



```
<head>  
  <title>Computer Science page</title>  
  <link rel="stylesheet" type="text/css" href="style_department.css">  
</head>
```

The <header> and <footer> Elements

```
<header>
  <h1>City University of London</h1>
</header>
<main>
  .
</main>
<footer>
  <p>&copy; 2023 City University</p>
</footer>
```

The <main> Element

```
<main>
<h2 class="group">Department of Computer Science</h2>

<br>
<br>
<p class="group">City has been at the leading edge of computer science in the UK for six
    including laying the groundwork for the foundation of the British Computer Society and
    of the country's first Computer Science degrees. </p>
<p id="current">Today's department is leading research and education in emerging fields such
    machine learning, data presentation, gaming, software reliability and cyber security.
```


The Element

```
<h3>Postgraduate Courses</h3>
<ul>
  <li><a href="https://www..."> MSc Artificial Intelligence</a></li>
  <li><a href="https://www...">MSc Human-Computer Interaction Design</a></li>
  <li><a href="https://www...">To find out more about our courses</a></li>
</ul>
</main>
```

The Web Page without the CSS

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The CSS Rule Set for Body

```
body {  
    font-family: Arial, Helvetica, sans-serif;  
    font-size: 100%;  
    width: 560px;  
    margin: 0 auto;  
    padding: 1em;  
    border: 1px solid navy;  
}
```

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The CSS rule set for h1

```
header {  
    text-align: left;  
}  
h1 {  
    padding: .25em;  
    font-size: 200%;  
    color: navy;  
}
```

The CSS Rule Set for img and p

```
img {  
    margin: 1em 1em;  
}  
p {  
    padding-bottom: .5em;  
}
```

The CSS Rule Set for footer

```
footer {  
    font-size: 50%;  
}
```

footer →

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The CSS rule set for ID and CLASS

```
#current {  
    border-bottom: 1px double red;  
}  
  
.group {  
    text-align: center;  
    color: green;  
}
```

Try It Yourself 1

In this activity you will practice how to create

A webpage with some HTML elements. So:

1. Open a new file in your editor and save it with a chosen name and the extension .html
2. Create the basic HTML elements <html>, <head> and <body>.
3. Inside the <head> put the title of your page and the link to your external style sheet CSS file.
4. Create the structural elements inside the <body>.
5. Inside the <main> element put the content of your page e.g. a paragraph or an image.
6. Save and run the web page on your browser.

Try It Yourself 2

7. Create an External CSS style sheet and save it with your chosen name and the extension .css
8. Add the CSS rule set for body using the properties given in slide 11.
9. Add styles to your page by create more rule sets using Type, ID and Class selectors
10. Make sure you save the files every time you make any changes to the HTML or the CSS codes.