

STEM Digital Academy

School of Science & Technology

Semantic & Meta Elements

Web Technologies



Lecture by Dr Elahe Kani-Zabihi

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



What we will cover

- Semantic elements
- Structural elements
- Meta element
- Character entity code





HTML5 Semantic Elements

- <header>
- <main>
- <section>
- <article>
- <nav>
- <aside>
- <footer>



<header>, <main>, <footer> Elements

```
<!doctype html>
<html>
    <head>
    </head>
    <body>
        <header>
        </header>
        <main>
        </main>
        <footer>
        </footer>
    </body>
</html>
```



Structural Elements

```
<body>
   <header>
       <h1>The third page title</h1>
   </header>
   <main>
       >
       Suspendisse commodo mauris eu lobortis ornare.
       Fusce varius, massa efficitur scelerisque fringilla,
       sem risus placerat lacus, at imperdiet quam dui nec elit.
       Sed non aliquet elit.
       </main>
   <footer>
       Links to the privacy statments and Terms & Conditions
   </footer>
</body>
```



<section>, <article>, <aside> Elements

- <section>
- <article>
- <aside>

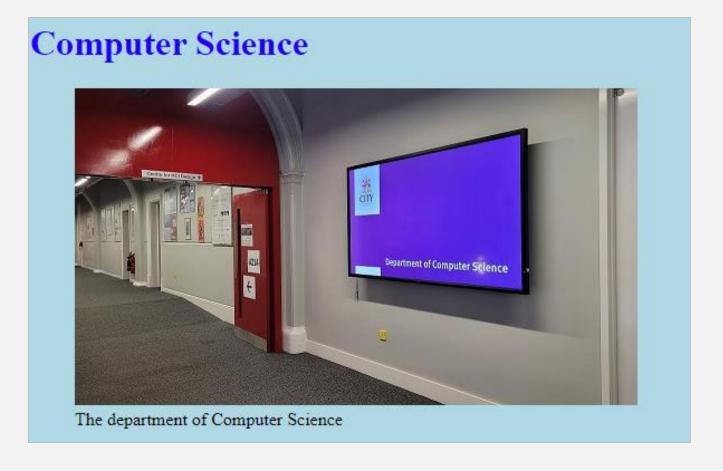


<figure> Element

```
<main>
    <h1>Computer Science</h1>
    <figure>
        <img src="department.jpg"</pre>
             alt="Department">
        <figcaption>The department of Computer Science</figcaption>
    </figure>
    Suspendisse commodo mauris eu lobortis ornare.
        Fusce varius, massa efficitur scelerisque fringilla,
        sem risus placerat lacus, at imperdiet quam dui nec elit.
       Sed non aliquet elit
</main>
```



The Webpage with the <figure> Element in a Browser





<meta> element

Attributes:

- charset
- name
- content

```
<head>
     <title>San Joaquin Valley Town Hall speakers</title>
     <meta charset="utf-8">
          <meta name="description" content="A yearly lecture series with speakers
          that present new information on a wide range of subjects">
           <meta name="keywords" content="san joaquin, town hall, speakers, lectures">
           </head>
```



Character Entities

Entity	Character
&	&
<	<
>	>
©	©
®	®
™	TM

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Try It Yourself

In this activity you will practice how to use the structural elements. So:

- 1. Open a new HTML file and save it as thirdpage.html
- 2. After you have inserted the <a href="https://www.ncbo.ncbo.new.new.ncbo.new.new.ncbo.new.new.ncbo.new.new.ncbo.new.new.ncbo.new.new.ncbo.new.new.ncbo.new.ncbo.new.ncbo.new.ncbo.new.ncbo.new.ncbo.new.ncbo.new.ncbo.new.ncbo.new.ncbo.new.ncbo.new.ncbo.new.ncbo.new.ncbo.new
- 3. Add a heading to the <header> element.
- 4. Add a <figure>, and <h1> elements to the <main> elements. The contents of these elements can be anything you choose.
- 5. Add a element for the <footer> element. The text content can be anything you choose e.g. contact details.

