

STEM Digital Academy

School of Science & Technology

Element Interface

Web Technologies



Lecture by Dr Elahe Kani-Zabihi

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



What we will cover

- Methods of the element Interface
- DOM HTML specification properties
- classList methods





Methods of the Element Interface

- hasAttribute (name)
- getAttribute (name)
- setAttribute (name, value)
- removeAttribute (name)



getAttribute() Example

```
<a href="www.city.ac.uk"> City University </a>
```

```
<script>
  const link = document.querySelector("a");
  const hrefValue = link.getAttribute("href");
  console.log(hrefValue);
</script>
```



setAttribute() Example

```
<img id="anImage" alt="This is an image" src="">
<script>
  const imageLink =
document.getElementById("anImage");
  const imageUrl = "https://city.ac.uk/logo.jpg";
  imageLink.setAttribute("src", imageUrl);
</script>
```



DOM HTML Specification Properties

- All elements
 - id
 - title
 - className
 - tagName
- <a>>
 - href
 - src
 - alt
- input
 - disabled

- 1. Alert (imageElement.src);
- 2. Const target = \$("#first_link").href
- 3. \$("p").className = "paragraph";
- 4. \$("#btnPlay").disabled = true;



classList Methods

- contains (className)
- add (className)
- remove (className)
- replace (oldName, newname)
- toggle (className)



add() Method Example

```
<head>
 <style>
   .colour {background-color: blue;}
 </style>
</head>
<body>
 Hello World!
 <script>
   const chCo = document.getElementById ("changeColour");
   chCo.classList.add ("colour");
 </script>
</body>
```





toggle() Method Example

```
<body>
 Hello World!
 <button onclick = "applyColour()"> Colour </button>
  <script>
   function applyColour() {
   const chCo = document.getElementById("changeColour");
   chCo.classList.toggle("colour");
 </script>
</body>
```

Hello World!





Hello World!

Colour



replace() Method Example

```
<head><style>
     .oldColour {background-color:blue;}
     .newColour {background-color: pink;}</style>
</head>
<body>
   Hello World!
   <button onclick = "applyColour()"> Colour </button>
   <script>
     function applyColour(){
     const chCo = document.getElementById("changeColour");
     chCo.classList.replace("oldColour", "newColour");}
   </script>
</body>
```



Hello World!

Colour



Try It Yourself

In this activity you can practice using the classList methods. So,

1. Use the code given in slides 9-11 to use the add (), toggle () and replace () methods.

