



Introduction to the DOM

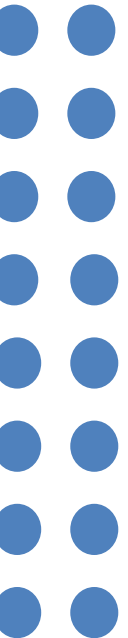


LESSON OBJECTIVES

- 
- Understand the DOM (Document Object Model)
 - Understand how to select and create different elements in Javascript
- 

Document Object Model

- Javascript was designed to make websites interactive.
- The Document Object Model (DOM) is a programming interface for web documents.
- Using the DOM we can access elements within the HTML.

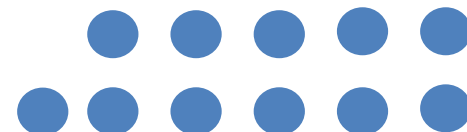


DOM methods

- document keyword
- getElementById()
- getElementsByTagName()
- getElementsByClassName()
- getElementsByName()

These methods allow us to target the html elements so we can use them in javascript.

```
document.getElementById('id-name')  
document.getElementsByTagName('tag-name')  
document.getElementsByClassName('id-name')  
document.getElementsByName('id-name')
```

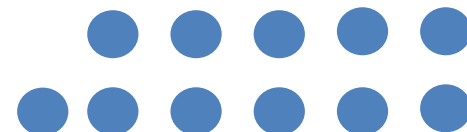


DOM methods

- `querySelector()`
- `querySelectorAll()`

```
document.querySelector('element')  
document.querySelector('#id-name')  
document.querySelector('.class-name')  
document.querySelector('[attribute-name]')
```

```
document.querySelectorAll('element')  
document.querySelectorAll('#id-name')  
document.querySelectorAll('.class-name')  
document.querySelectorAll('[attribute-name]')
```



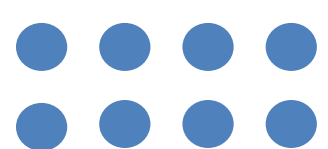
DOM Properties



Using these properties we can alter the content inside of an HTML element.

```
document.getElementById('id-name').innerText = 'Hello'  
document.getElementsByTagName('tag-name').textContent = 7  
document.getElementsByName('id-name').innerHTML =  
'<p>GoodBye</p>'
```

- .innerText
- .textContent
- .innerHTML



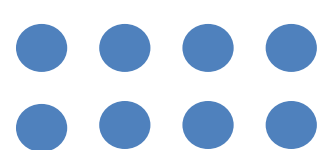
Creating elements



The `.createElement()` method creates the element using javascript.

```
let div = document.createElement('div')
document.body.append(div)
```

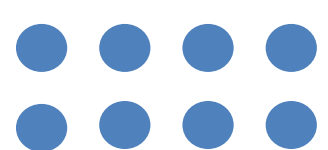
- `.createElement()`
- `append()`
- `prepend()`~~see code example



Removing elements

The `.remove()` method allows us to remove an element from the HTML document.

```
const element = document.getElementById("demo");  
element.remove();
```



Events Listeners

Event listeners are methods that attach an event handler to the specified element without overwriting existing events.

```
let button = document.querySelector('button')
button.addEventListener('click', function(){
  // type code here
})
```

- .addEventListener
- 'click'
- function()

