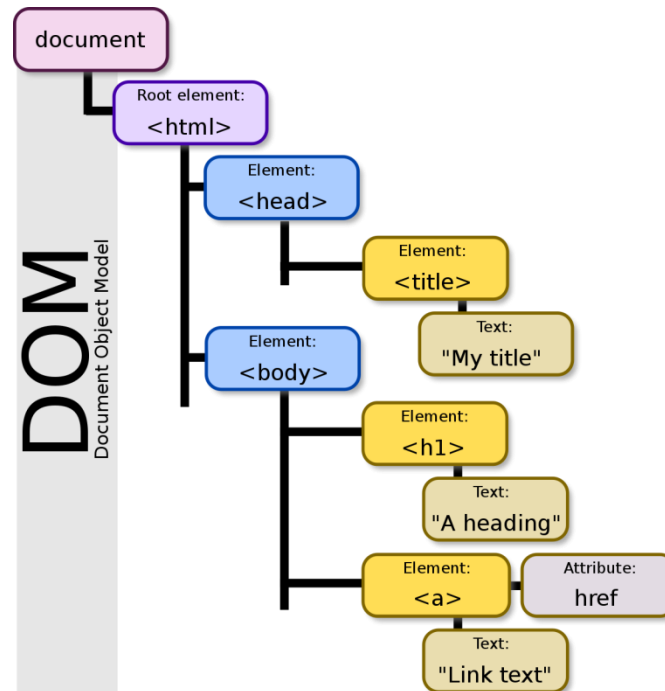


JavaScript - DOM

What is JavaScript DOM?

The Document Object Model is a cross-platform and language-independent interface that treats an XML or HTML document as a tree structure wherein each node is an object representing a part of the document. The DOM represents a document with a logical tree.



EventTarget.addEventListener()

The EventTarget method `addEventListener()` sets up a function that will be called whenever the specified event is delivered to the target.

`addEventListener()` works by adding a function or an object that implements `EventListener` to the list of event listeners for the specified event type on the EventTarget on which it's called.

Example 1:

```
<!DOCTYPE html>
<html>
  <head>
    <title>CSS Example</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
  </head>
  <body>
```

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```
<h1>JavaScript DOM</h1>
```

<p>This example uses the addEventListener() method to attach a click event to a button.</p>

```
<button id="myBtn">Try it</button>
```

```
<script>
  document.getElementById("myBtn").addEventListener("click", function () {
    alert("Hello World!");
  });
</script>
</body>
</html>
```

Example 2:

```
<!DOCTYPE html>
<html>
  <head>
    <title>CSS Example</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
  </head>
  <body>
    <h1>JavaScript DOM</h1>
```

<p>This example uses the addEventListener() method to add many events on the same button.</p>

```
<button id="myBtn">Try it</button>
<p id="demo"></p>
<script>
  var x = document.getElementById("myBtn");
  x.addEventListener("mouseover", myFunction);
  x.addEventListener("click", mySecondFunction);
  x.addEventListener("mouseout", myThirdFunction);

  function myFunction() {
    document.getElementById("demo").innerHTML += "Moused over!<br>";
  }

  function mySecondFunction() {
```

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```
    document.getElementById("demo").innerHTML += "Clicked!<br>";  
}  
  
function myThirdFunction() {  
    document.getElementById("demo").innerHTML += "Moused out!<br>";  
}  
</script>  
</body>  
</html>
```