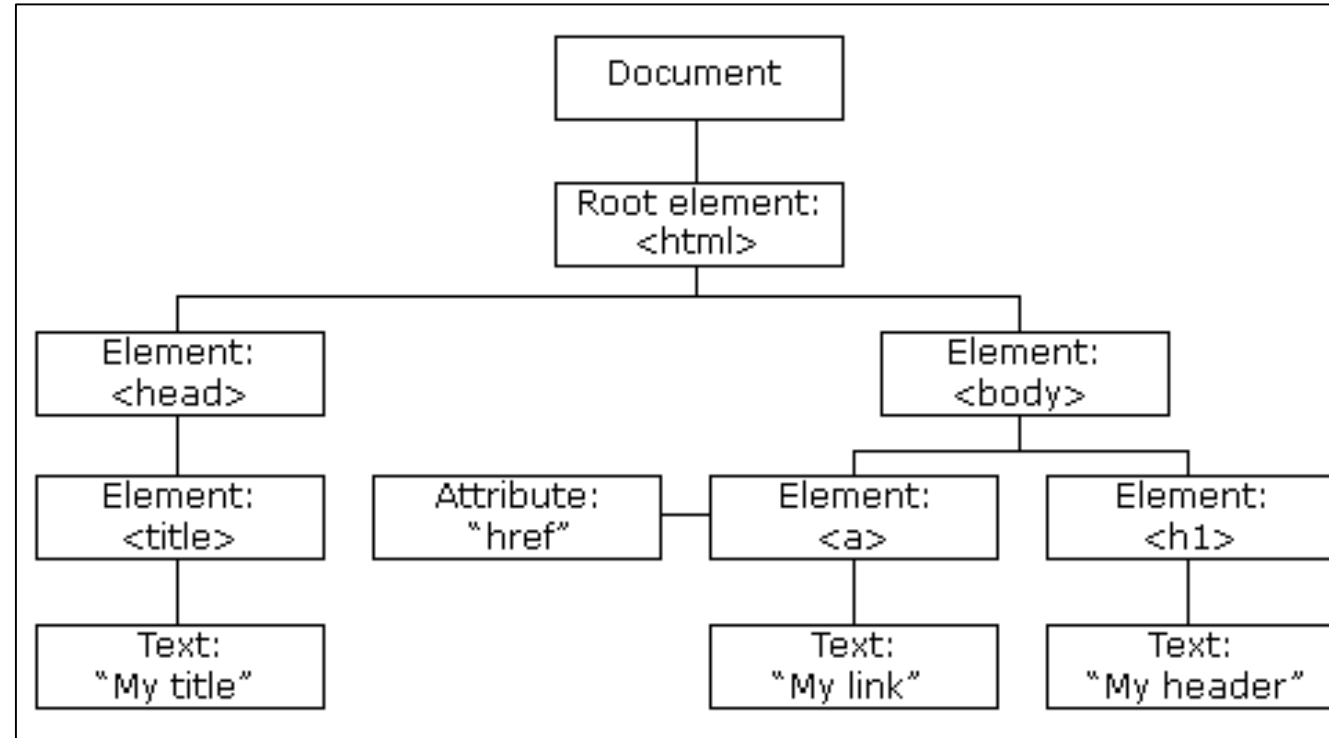# The Document Object Model

The DOM

The Document Object Model (DOM)

- Document - The file and all its content
- Object - All the things in the document and their "handles"
- Model - A way to depict the document and all its objects

JavaScript and the DOM

- Accessed with JavaScript

- Elements == objects

- The programming interface is through properties and methods
  - A property is a value
  - A method is an action

Properties

- A property is a characteristic or attribute of the object.

- Access a property through its DOT NOTATION: object.property

- Examples
  - The URL of a web page document
    `document.URL`
  - The title of a web page document
    `document.title`
  - The date the web page file was last modified
    `document.lastModified`
  - The src file of an image object
    `mymage.src`

Method

- A method is an action the object can do or respond to:

- Writing text to a web page document:

  `document.write()`

- Submitting a form
  using JavaScript instead of `<input type="submit"`...

  `form1.submit()`

.getElementById() method

- The `.getElementById()` method returns the element with the specified ID

- Example:
`var myIntro = document.getElementById("intro");`

.addEventListener() method

- Waits for a specific "event" on a particular element (.getElementById()), then runs a *function()*

- Example:

```
myIntro.addEventListener("click", function(){

     alert("Someone clicked me!");

})
```