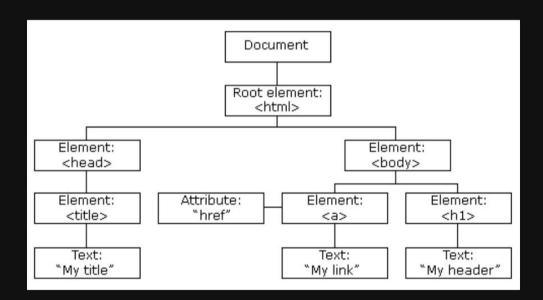
DOM Selectors



Document

It all starts with the document, the root node





Exercise

Open up the JS console and try these 4 lines:

```
document.URL;
document.head;
document.body;
document.links;
```





Methods

The document comes with a bunch of methods for selecting elements. We're going to learn about the following 5:

- document.getElementById()
- document.getElementsByClassName()
- document.getElementsByTagName()
- document.querySelector()
- document.querySelectorAll()





getElementById

Takes a string argument and returns the one element with a matching ID

```
var tag = document.getElementById("highlight");
```





getElementsByClassName

Takes a string argument and returns a list of elements that have a matching class

```
var tags = document.getElementsByClassName("bolded");
console.log(tags[0]);
```

```
<body>
  <h1>Hello</h1>
  <h1>Goodbye</h1>

    id="highlight">List Item 1
    cli class="bolded">List Item 2
    cli class="bolded">List Item 3

<
```





getElementsByTagName

Returns a list of all elements of a given tag name, like or <h1>

```
var tags = document.getElementsByTagName("li");
console.log(tags[0]);
```





getElementsByTagName

Returns a list of all elements of a given tag name, like or <h1>

```
var tags = document.getElementsByTagName("h1");
console.log(tags[0]);
```

```
<body>
<h1>Hello</h1>
<h1>Goodbye</h1>

id="highlight">List Item 1
cli class="bolded">List Item 2
cli class="bolded">List Item 3

</
```





querySelector

Returns the first element that matches a given CSS-style selector

```
//select by ID
var tag = document.querySelector("#highlight");
```



querySelector

Returns the first element that matches a given CSS-style selector

```
//select by Class
var tag = document.querySelector(".bolded");
```

```
<body>
  <h1>Hello</h1>
  <h1>Goodbye</h1>

    id="highlight">List Item 1
    cli class="bolded">List Item 2
    cli class="bolded">List Item 3

<p
```





querySelector

Returns **the first element** that matches a given CSS-style selector

```
//select by tag
var tag = document.querySelector("h1");
```

```
<body>
  <h1>Hello</h1>
  <h1>Goodbye</h1>

     id="highlight">List Item 1
     id="highlight">List Item 2
     class="bolded">List Item 2
     class="bolded">List Item 3

  </body>
```





querySelectorAll

Returns **a list of elements** that matches a given CSS-style selector

```
//select by tag
var tags = document.querySelectorAll("h1");
```





querySelectorAll

Returns **a list of elements** that matches a given CSS-style selector

```
//select by class
var tags = document.querySelectorAll(".bolded");
```

```
<body>
  <h1>Hello</h1>
  <h1>Goodbye</h1>

    id="highlight">List Item 1
    cli class="bolded">List Item 2
    cli class="bolded">List Item 3
    </ri>

<p
```





Exercise

Come up with 4 different ways to select the first tag

