

Day 11 : Morning

Behavioral JavaScript

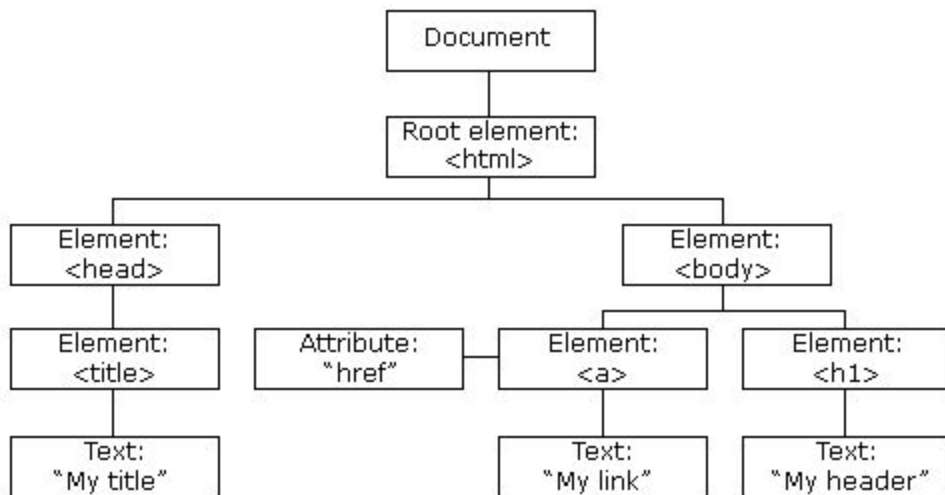
Document **Object** Model (DOM)

DOM is an api that represents and interacts with HTML document.

[W3 : DOM Introduction](#)

[MDN : DOM\(Document Object Model\)](#)

DOM Tree



DOM

4 ways you can use DOM to interact with HTML elements. C.R.U.D

- Create
- Read
- Update
- Delete

DOM Data Types

- window - a window which contains DOM document. (Mostly Read only, not recommended)
- document - represents the entire documents
- element - represents one html element on a page
- nodeList - represents a list of elements

DOM Data Types

- `attributes` - represents an html element
- `namedNodeMap` - represents an array-like object of attribute objects

Create

```
let p = document.createElement("p");  
let div =  
document.createElement("div");
```

This only creates elements. It has not been added to HTML.

Create Continued...

```
let body =  
document.getElementsByTagName( "body"  
)[0];  
p.innerText = "Some text you want to  
add";  
body.appendChild(p);
```

Read

document

let content =

document.getElementById("p1");

let div =

document.getElementById("div1");

Read Continued...

```
let p =  
document.getElementsByTagName( "p" );  
  
let div =  
document.getElementsByClassName( "someClass" );
```

Read Continued...

`p.innerText;`

`p.innerHTML;`

`div.attributes;`

Update

```
let p =  
document.getElementsByTagName( "p" ) [ 0 ];  
  
p.setAttribute( "id",  
  "first-paragraph" );  
  
p.classList.add( "someClass" );
```

Update Continued...

```
p.style.color = "red";
```

```
p.style.border = "2px solid black";
```

```
p.innerText = "Updated Text";
```

Delete

```
let div =  
document.getElementsByTagName( "div" )  
[0];  
  
div.remove();
```

Document Selectors

`getElementById("id");`

`getElementsByClassName("class");`

`getElementsByTagName("tagName");`

Query Selectors

Allows JavaScript to target html elements on the page using an expressive selector syntax. It follows general selector rulesets.

- `querySelector`
- `querySelectorAll`

Query Selectors Continued...

```
let li1 =  
document.querySelector("li");
```

```
let li2 =  
document.querySelector("#li");
```

```
let li3 =  
document.querySelector(".li");
```

Query Selectors Continued...

```
let li1 =  
document.querySelectorAll("li");
```

Codepen : C.R.U.D. Examples

Exercise

Codepen : BehavioralJS Practice

- Target the element with the id of “first-id”
- Create paragraph element which says “welcome to behavioral js!” inside.

Exercise

- Target the element with id “second-id”
- Change the style. Border color to blue, background color to red

Exercise

- Target the third box.
- Remove it

Exercise

- Display the hidden paragraph in console.