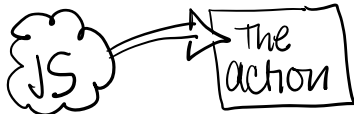


- CHROME } YOUR TOOLS
- VS CODE }
- FUNDAMENTALS JS

BASICS

- DOM - DOCUMENT OBJECT MODEL

1. WHAT IS IT
2. METHODS TO SELECT ELEMENTS IN THE DOM
3. HOW TO TRAVERSE THE DOM
4. HOW TO MANIPULATE THE DOM
5. EVENTS

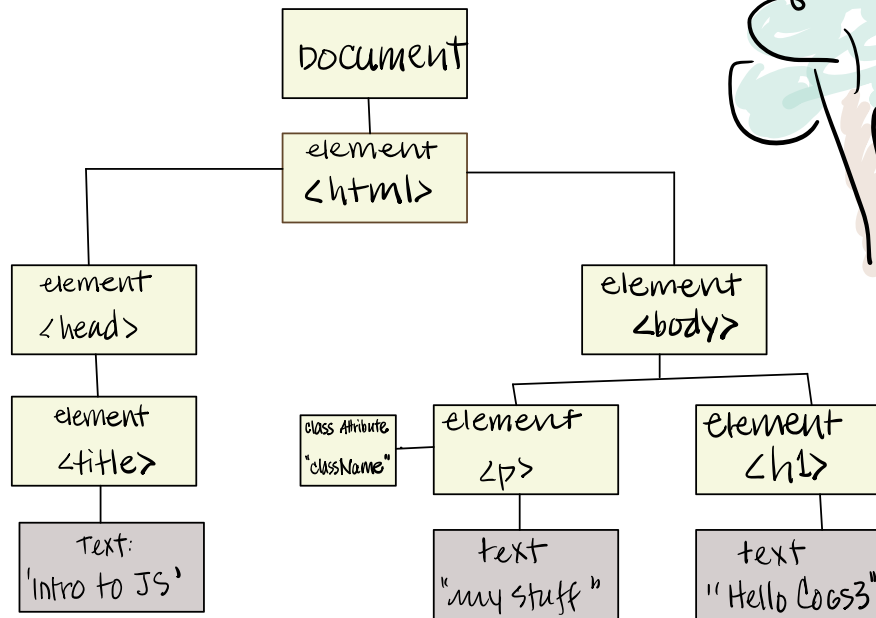


```
<script src="app.js"></script>
```

DOM - DOCUMENT OBJECT

- manipulate
- (a) content
 - (b) style
 - (c) structure

NODES OF DOM:



DOM: A TREE



Relationships

Identify:

parent: child

sibling: sibling

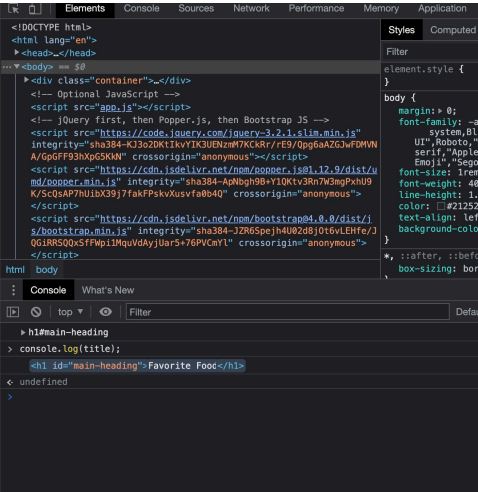
root

note: classes & ID are nodes but are not considered a parent nor child

```
11 <title>Hello, world!</title>
12 </head>
13 <body>
14 <div class="container">
15 <h1 id="main-heading">Favorite Food</h1>
16 <ul>
17 <li class="list-items">Eggs</li>
18 <li class="list-items">Cakes</li>
19 <li class="list-items">Breads</li>
20 <li class="list-items">Salads</li>
21 </ul>
22 </div>
23 <div class="container">
24 <h1 id="other-heading">Favorite Singers</h1>
25 <ul>
26 <li class="list-items">Taylor Swift</li>
27 <li class="list-items">Eric Clapton</li>
28 <li class="list-items">Elvis</li>
29 </ul>
30 </div>
```

Favorite Food

- Eggs
- Cakes
- Breads
- Salads



<https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Statements/const>

Constants are block-scoped, much like variables declared using the `let` keyword. The value of a constant can't be changed through reassignment (i.e. by using the `assignment operator`), and it can't be redeclared (i.e. through a `variable declaration`). However, if a constant is an `object` or `array`, its properties or items can be updated or removed.

Try it

JavaScript Demo: Statement - Const

```
1 const number = 42;
2
3 try {
4   number = 99;
5 } catch (err) {
6   console.log(err);
7   // expected output: TypeError: invalid assignment to const "number"
8   // Note - error messages will vary depending on browser
9 }
10
11 console.log(number);
12 // expected output: 42
13
```

```
1 // COGS3 - JavaScript DOM Manipulation
2
3 // getElementById()
4 const title_a = document.getElementById('main-heading');
5
6 //getElementsByName()
7 const listItems = document.getElementsByClassName('list-items');
8
9 for (i = 0; i < listItems.length; i++){
10     listItems[i].style.fontSize = '5rem';
11 }
12
13 //getElementsByTagName()
14 const tagNames = document.getElementsByTagName('li');
15
16 //querySelector()
17 const firstDiv = document.querySelector('div');
18 const title_b = document.querySelector('#main-heading');
19 title_b.style.color = 'purple';
20
21 //querySelectorAll()
22 const allDiv = document.querySelectorAll('div');
23
24 //Create Elements
25 // first create the variable/constant to grab or create
26 const get_ul = document.querySelector('ul');
27 const put_li = document.createElement('li');
28
29 //use append to insert your new element:
30 get_ul.append(put_li);
31
32 //add text to li
33 put_li.innerText = 'Yogurt';
34
```