- CHROME
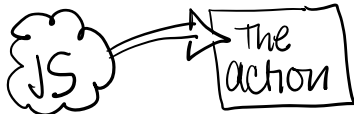- VSCODE } YOUR TOOLS — FUNDAMENTALS JS

Basics — DOM — DOCUMENT OBJECT MODEL

1. WHAT IS IT

2. METHODS TO SELECT ELEMENTS
   IN THE DOM

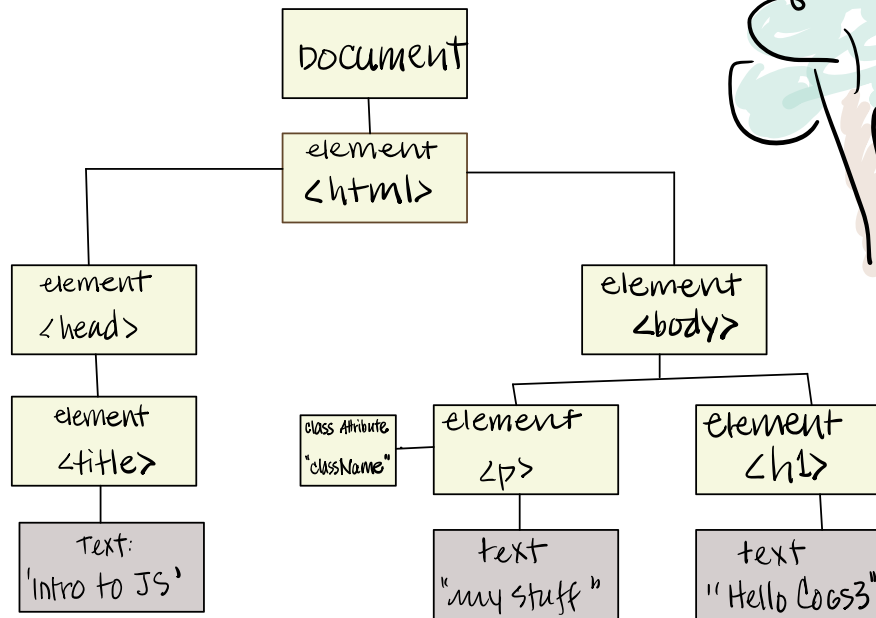3. HOW TO TRAVERSE THE DOM

4. HOW TO MANIPULATE THE DOM

5. EVENTS

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

JS ⟶ The action

DOM — DOCUMENT OBJECT
   ⟶ manipulate   (a) content
                  (b) style
                  (c) structure

NODES OF DOM:

DOM: A TREE

```
                    ┌──────────────┐
                    │   Document   │
                    └──────────────┘
                    ┌──────────────┐
                    │   element    │
                    │   <html>     │
                    └──────────────┘
          ┌──────────────────┴──────────────────┐
   ┌──────────────┐                      ┌──────────────┐
   │   element    │                      │   element    │
   │   <head>     │                      │   <body>     │
   └──────────────┘                      └──────────────┘
   ┌──────────────┐              ┌──────────────┴──────────────┐
   │   element    │       ┌──────────────┐           ┌──────────────┐
   │   <title>    │  ┌────┤   element    │           │   element    │
   └──────────────┘  │    │   <p>        │           │   <h1>       │
   ┌──────────────┐  │    └──────────────┘           └──────────────┘
   │    Text:     │  │    ┌──────────────┐           ┌──────────────┐
   │ 'Intro to JS'│  │    │    text      │           │    text      │
   └──────────────┘  │    │  "my stuff"  │           │ "Hello Cogs3" │
                     │    └──────────────┘           └──────────────┘
              ┌────────────────┐
              │ class Attribute│
              │  "className"   │
              └────────────────┘
```

relationships
Identify:
  parent: child
  sibling: sibling
  root

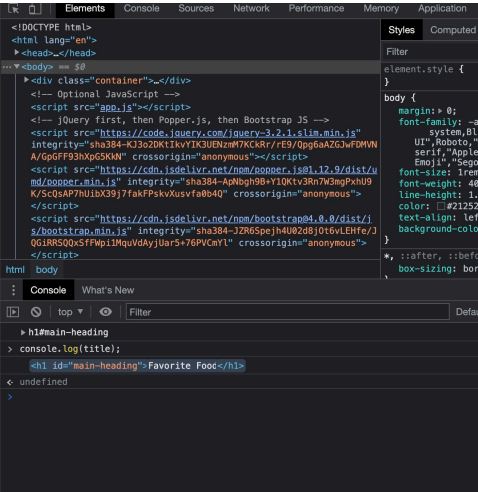note: classes & ID are
      nodes but are
      not considered
      a parent nor
      child

```
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

```javascript
// COGS3 — JavaScript DOM Manipulation

// getElementById()
const title_a = document.getElementById('main-heading');

//getElementsByClassName()
const listItems = document.getElementsByClassName('list-items');

for (i = 0; i < listItems.length; i++){
    listItems[i].style.fontSize = '5rem';
}

//getElementsByTagName()
const tagNames = document.getElementsByTagName('li');

//querySelector()
const firstDiv = document.querySelector('div');
const title_b = document.querySelector('#main-heading');
title_b.style.color = 'purple';

//querySelectorAll()
const allDiv = document.querySelectorAll('div');

//Create Elements
// first create the variable/constant to grab or create
const get_ul = document.querySelector('ul');
const put_li = document.createElement('li');

//use append to insert your new element:
get_ul.append(put_li);

//add text to li
put_li.innerText = 'Yogurt';
```