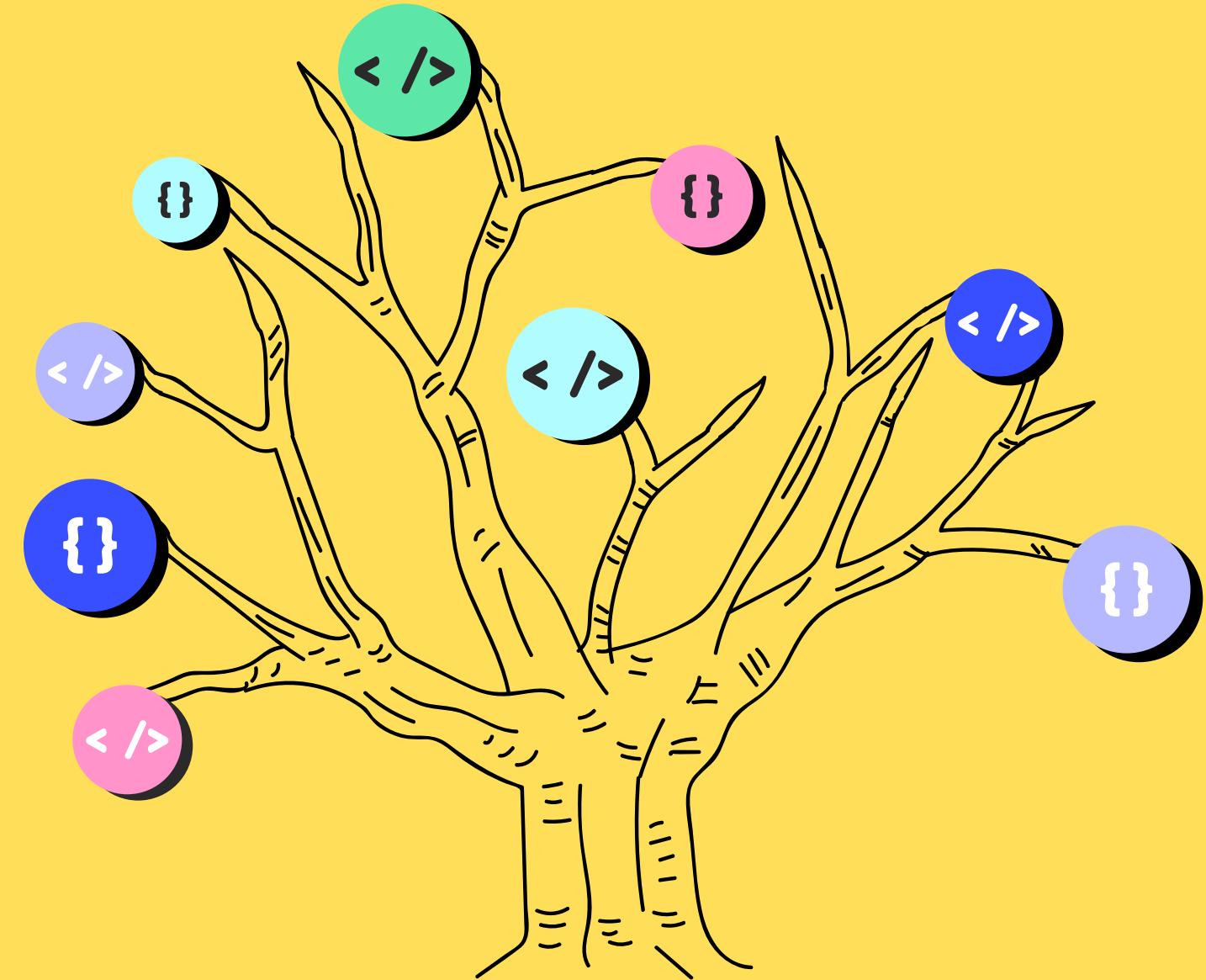


THE DOM











DOCUMENT

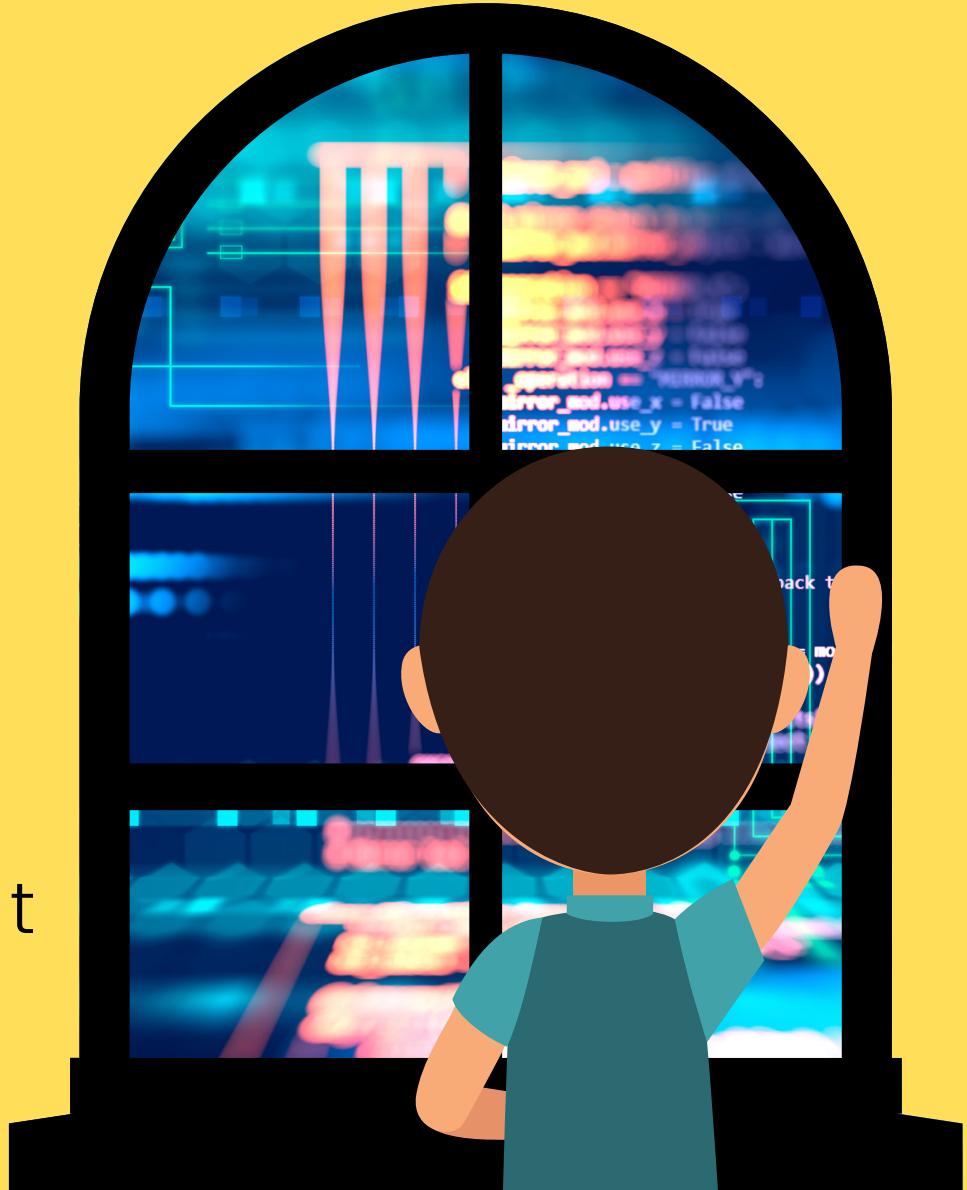
OBJECT

MODEL



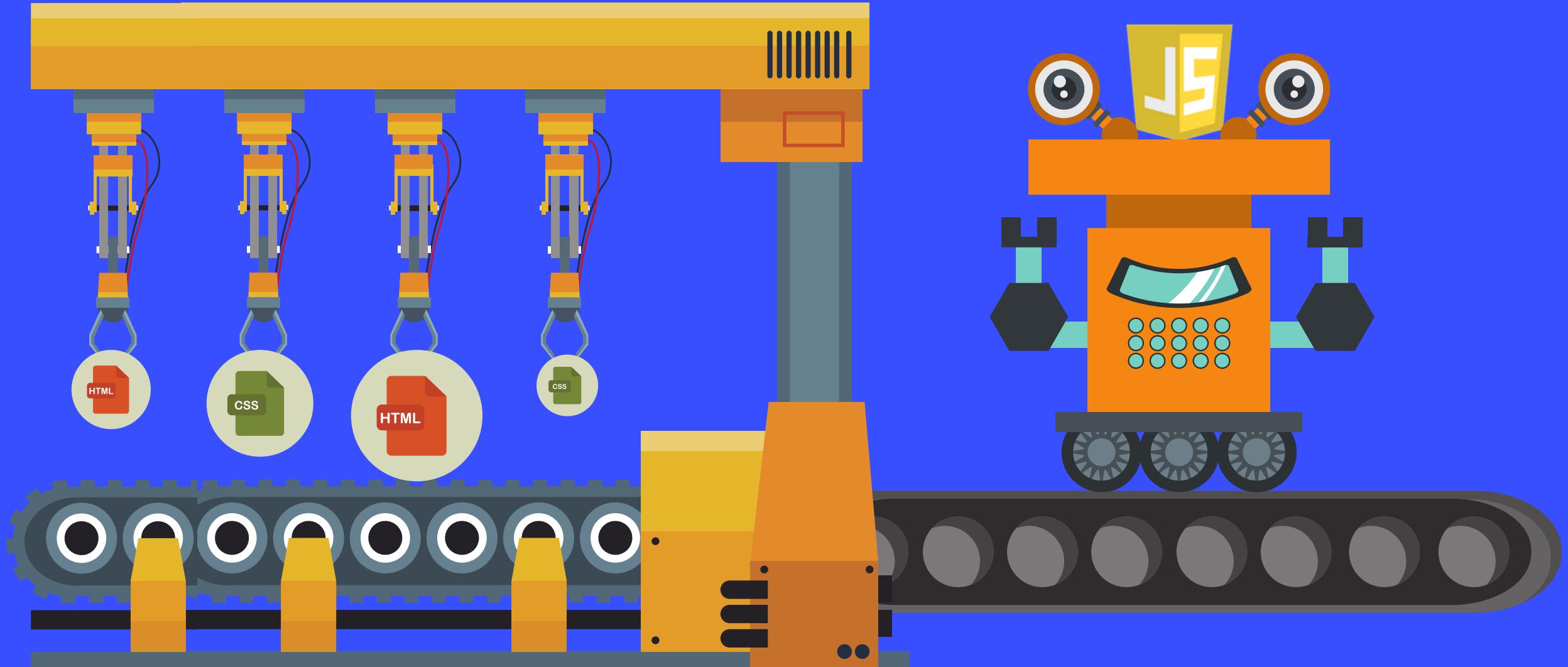
WHAT IS IT?

- The DOM is a JavaScript representation of a webpage.
- It's your JS "window" into the contents of a webpage
- It's just a bunch of objects that you can interact with via JS.



HTML+CSS Go In...

JS Objects Come Out





```
<body>
  <h1>Hello!</h1>
  <ul>
    <li>Water Plants</li>
    <li>Get Some Sleep</li>
  </ul>
</body>
```



I'm an object!

DOCUMENT

BODY

H1

UL

LI

LI

Me too!

HTML+CSS Go In...

JS Objects Come Out

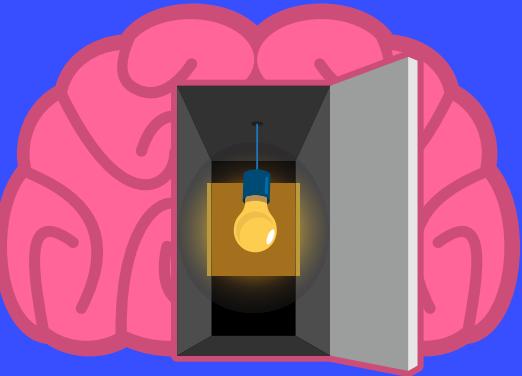
Let's start with the . . .

DOCUMENT

OBJECT

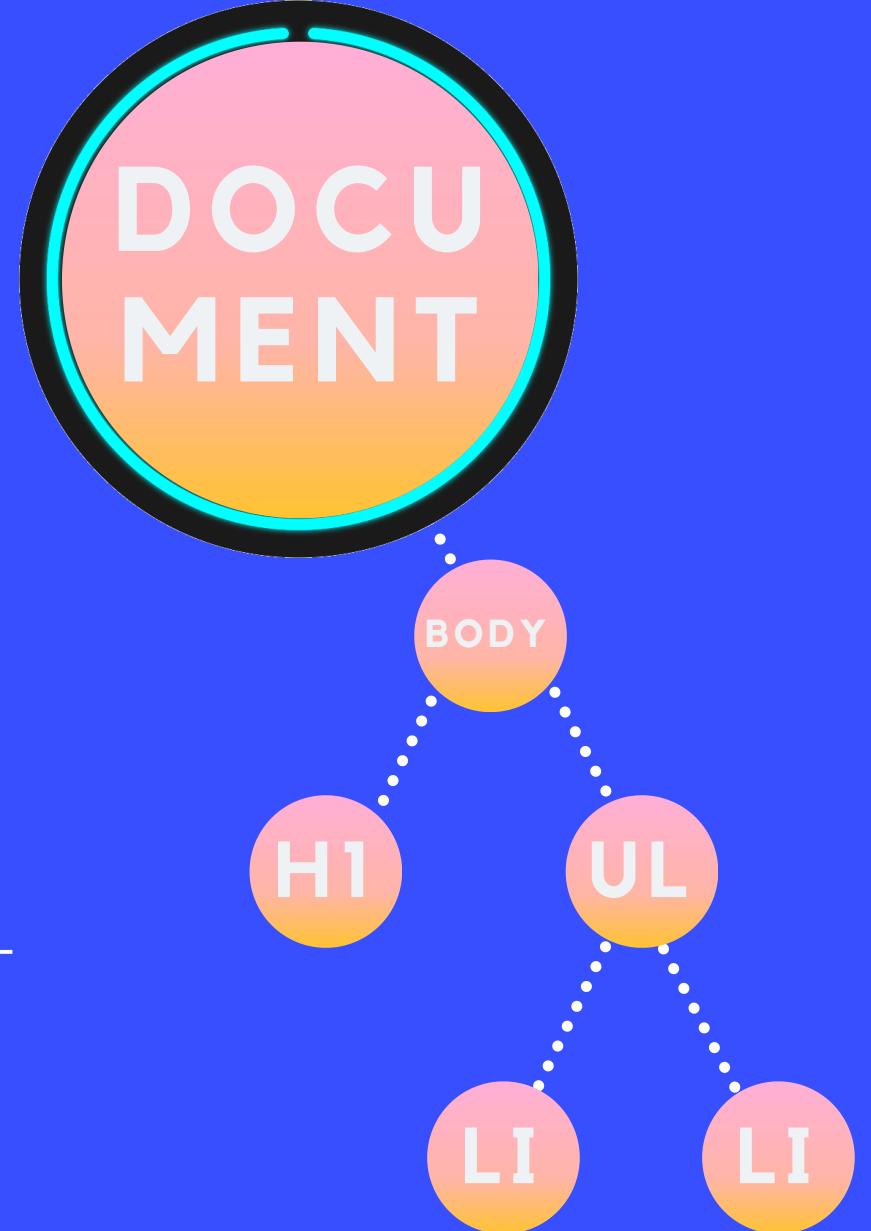
MODEL





DOCUMENT

The document object is our entry point into the world of the DOM. It contains representations of all the content on a page, plus tons of useful methods and properties



SELECTING

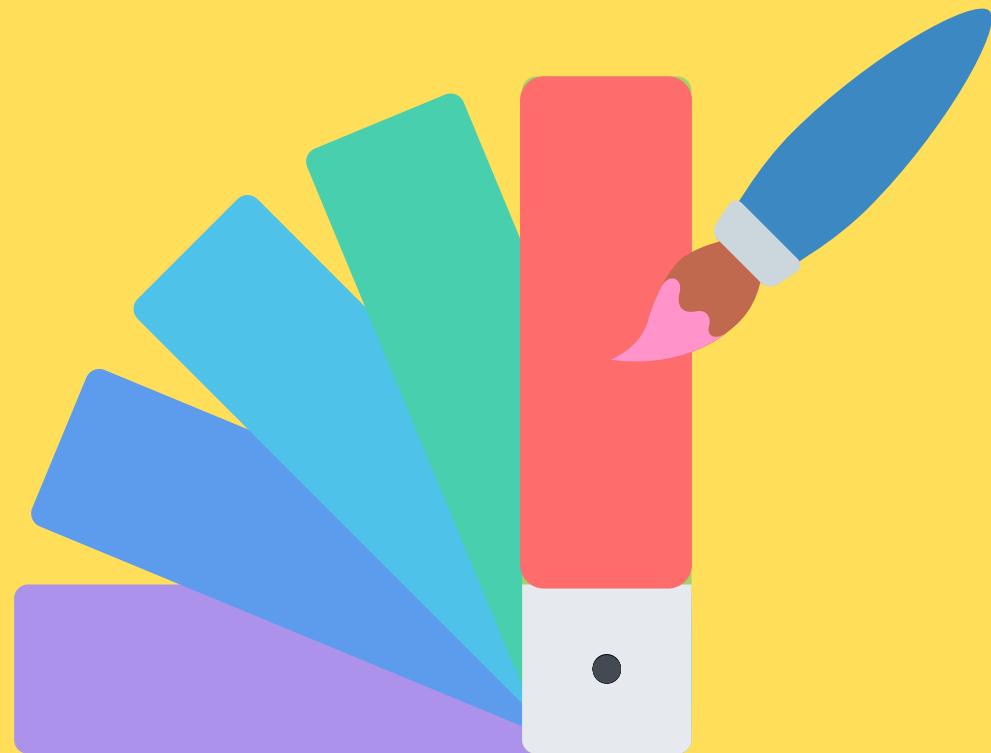


1

SELECT

2

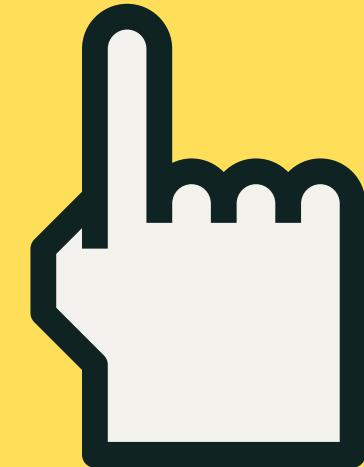
MANIPULATE



SELECTING



- getElementById
- getElementsByTagName
- getElementsByClassName



querySelector

- A newer, all-in-one method to select a single element.

```
...  
  
//Finds first h1 element:  
document.querySelector('h1');  
  
//Finds first element with ID of red:  
document.querySelector('#red');  
  
//Finds first element with class of  
document.querySelector('.big');
```



querySelectorAll

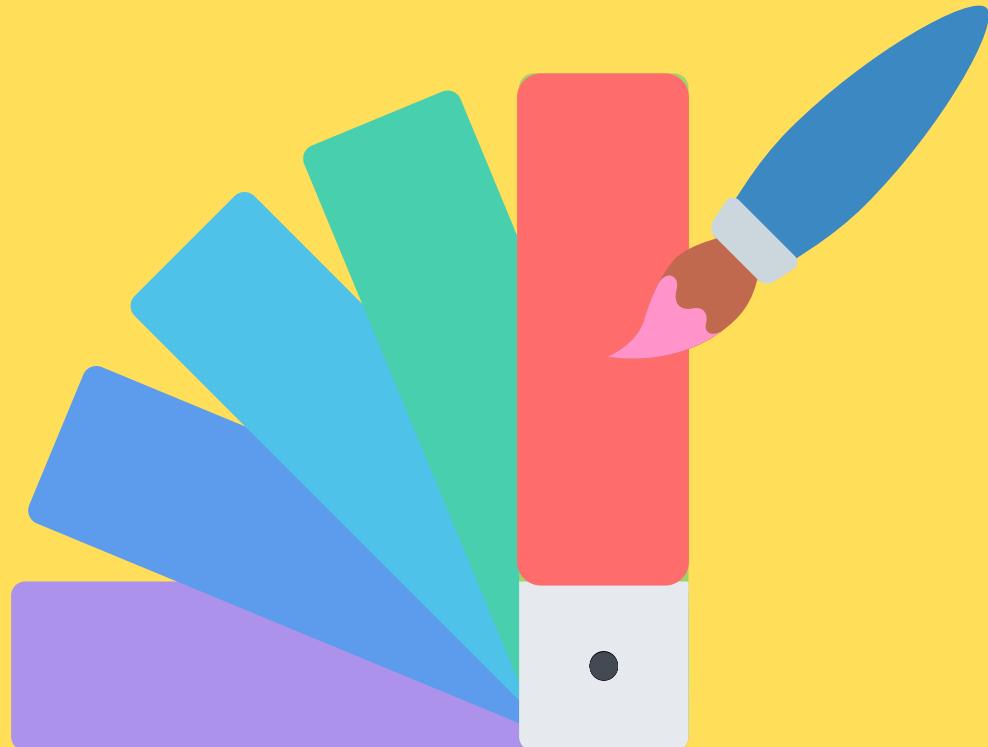
Same idea , but returns a collection of matching elements

1

SELECT

2

MANIPULATE













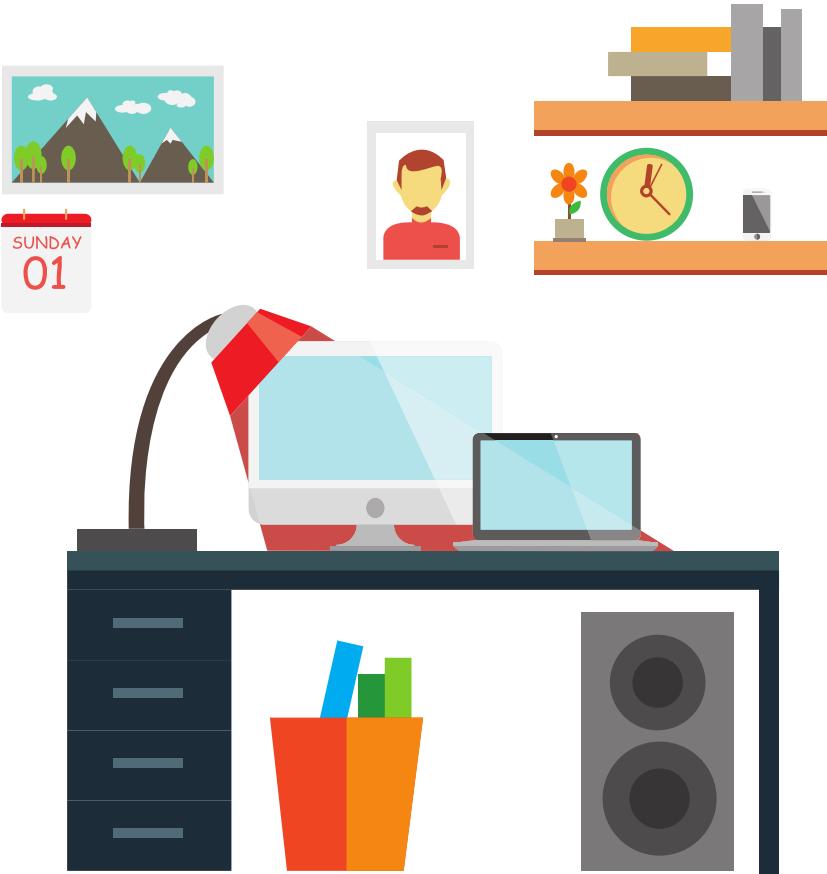




PROPERTIES & METHODS

(the important ones)

- classList
- getAttribute()
- setAttribute()
- appendChild()
- append()
- prepend()
- removeChild()
- remove()
- createElement



- innerText
- .textContent
- innerHTML
- value
- parentElement
- children
- nextSibling
- previousSibling
- style

EVENTS

Responding to
user inputs
and actions!



A SMALL TASTE

- clicks
- drags
- drops
- hovers
- scrolls
- form submission
- key presses
- focus/blur



- mouse wheel
- double click
- copying
- pasting
- audio start
- screen resize
- printing

addEventListener

Specify the event type and a callback to run



```
const button = document.querySelector('h1');

button.addEventListener('click', () => {
  alert("You clicked me!!")
})
```