

WORKING WITH ARRAYS

THE COMPLETE JAVASCRIPT COURSE

FROM ZERO TO EXPERT!

SECTION

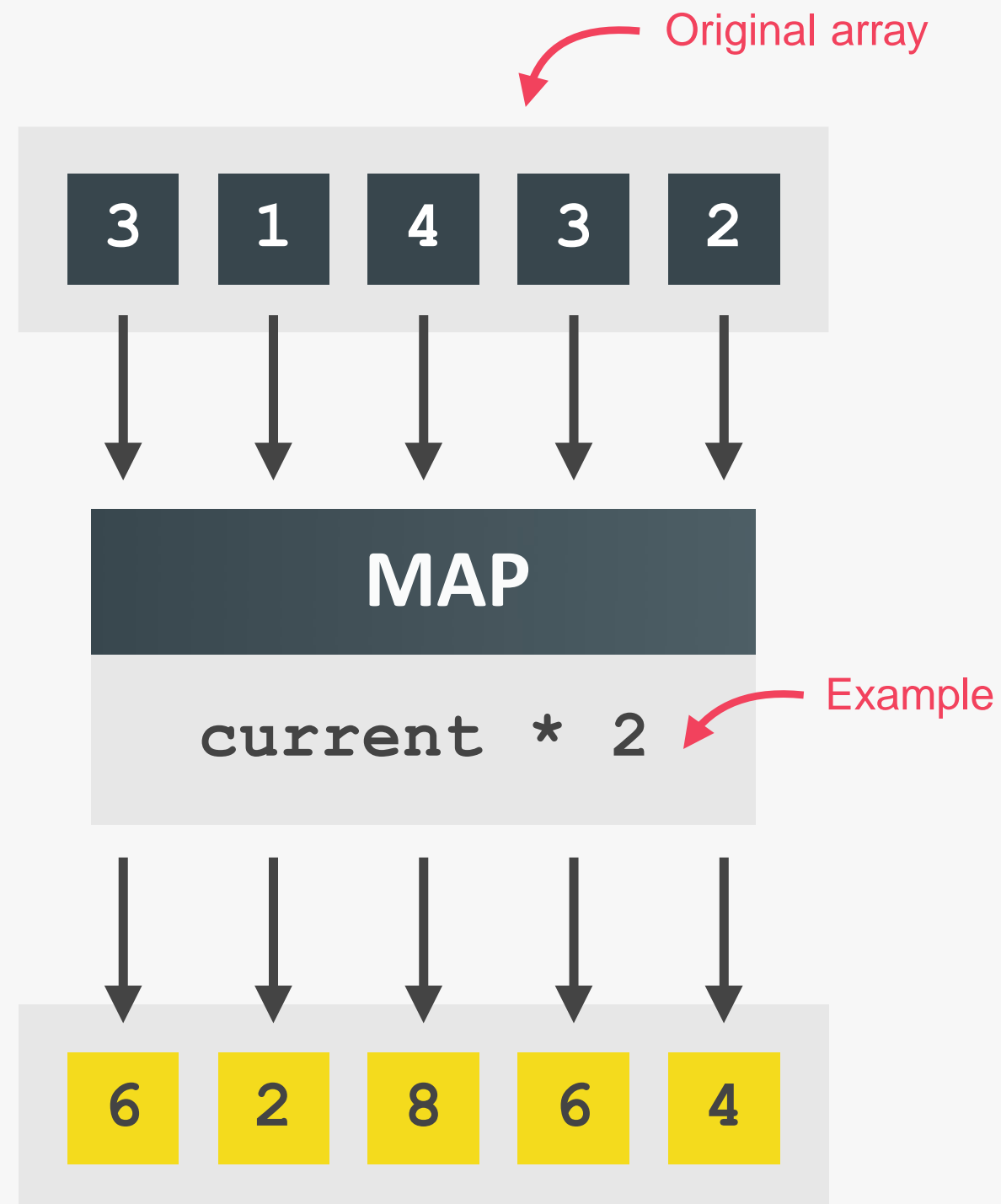
WORKING WITH ARRAYS

LECTURE

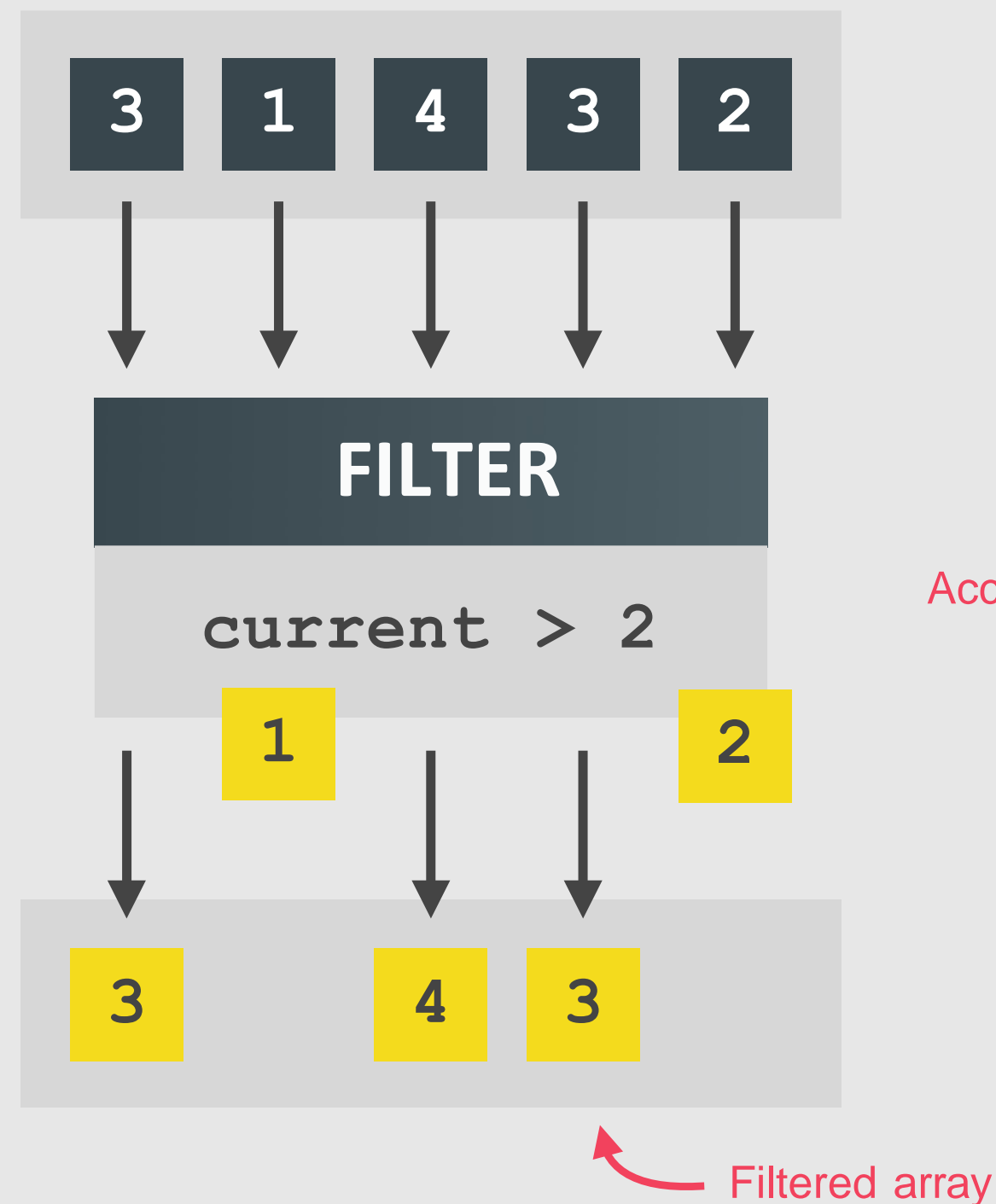
**DATA TRANSFORMATIONS:
MAP, FILTER, REDUCE**

JS

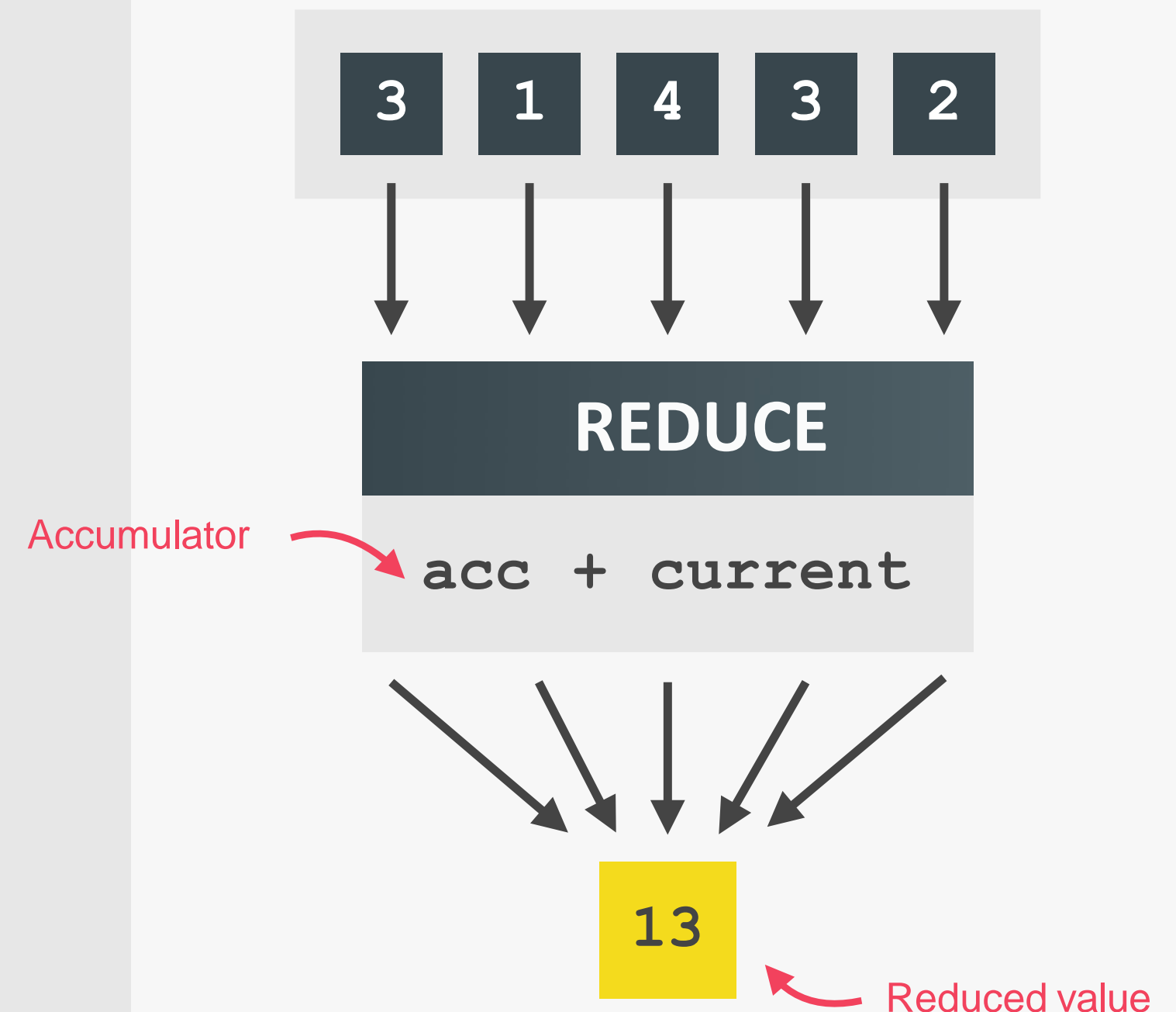
DATA TRANSFORMATIONS WITH MAP, FILTER AND REDUCE



👉 `map` returns a **new array** containing the results of applying an operation on all original array elements



👉 `filter` returns a **new array** containing the array elements that passed a specified **test condition**



👉 `reduce` boils ("reduces") all array elements down to one single value (e.g. adding all elements together)

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**SUMMARY: WHICH ARRAY
METHOD TO USE?**

JS

WHICH ARRAY METHOD TO🤔USE?

“I WANT...:”

To mutate original array

👉 Add to original:

.push (end)

.unshift (start)

👉 Remove from original:

.pop (end)

.shift (start)

.splice (any)

👉 Others:

.reverse

.sort

.fill

A new array

👉 Computed from original:

.map (loop)

👉 Filtered using condition:

.filter

👉 Portion of original:

.slice

👉 Adding original to other:

.concat

👉 Flattening the original:

.flat

.flatMap

An array index

👉 Based on value:

.indexOf

👉 Based on test condition:

.findIndex

An array element

👉 Based on test condition:

.find

Know if array includes

👉 Based on value:

.includes

👉 Based on test condition:

.some

.every

A new string

👉 Based on separator string:

.join

To transform to value

👉 Based on accumulator:

.reduce

(Boil down array to single value of any type: number, string, boolean, or even new array or object)

To just loop array

👉 Based on callback:

.forEach

(Does not create a new array, just loops over it)

ADVANCED DOM AND EVENTS

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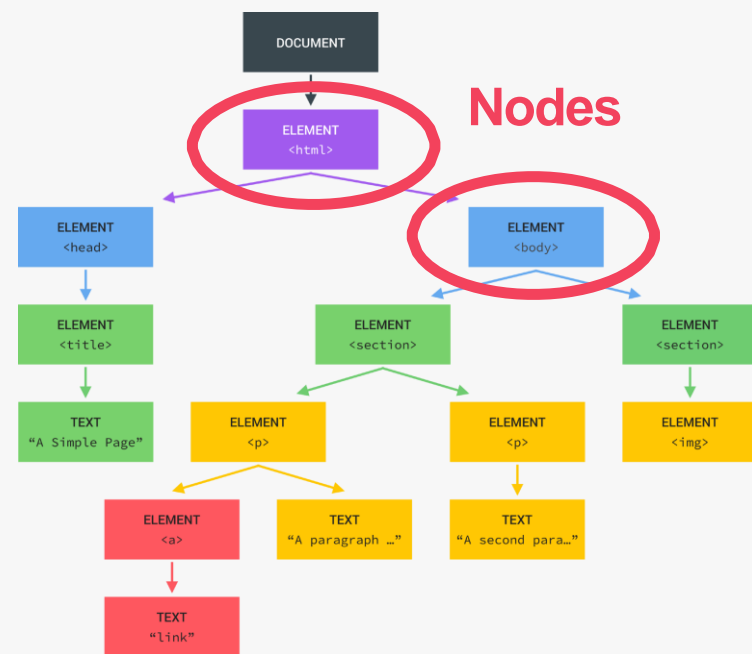
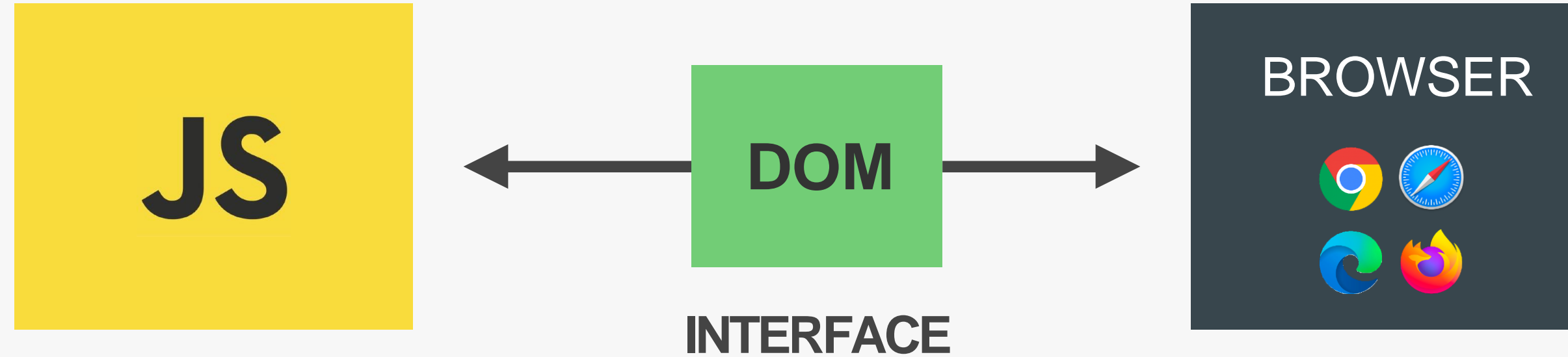
ADVANCED DOM AND EVENTS

LECTURE

HOW THE DOM REALLY WORKS

JS

REVIEW: WHAT IS THE DOM?

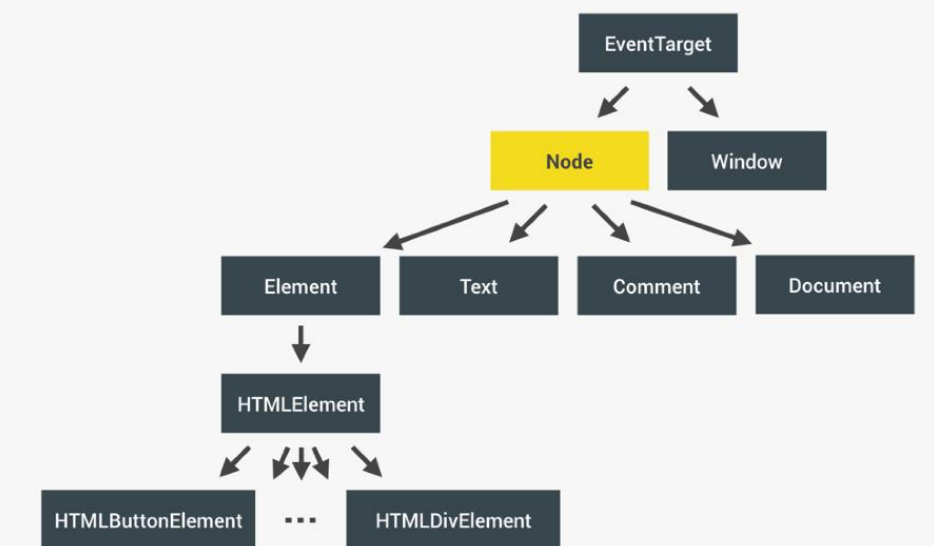


DOM tree

- 👉 Allows us to make JavaScript interact with the browser;
- 👉 We can write JavaScript to create, modify and delete HTML elements; set styles, classes and attributes; and listen and respond to events;
- 👉 DOM tree is generated from an HTML document, which we can then interact with;
- 👉 DOM is a very complex API that contains lots of methods and properties to interact with the DOM tree

Application Programming Interface

```
.querySelector() / .addEventListener() / .createElement() /  
.innerHTML / .textContent / .children / etc ...
```



“Types” of
DOM objects
(next slide)

HOW THE DOM API IS ORGANIZED BEHIND THE SCENES

 MDN web docs
[moz://a](https://developer.mozilla.org/en-US/docs/Web/API/Node)

