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DOM in JavaScript

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- Windows vs Document
- DOM vs BOM
- DOM Navigation
- Searching and getting Element Reference

1) Difference between Windows Vs Document.Window

1. Windows is main container or global object & any operation related to entire browser window part object.
2. Like objects, method or properties, part of window object the we do not refer the window object
3. Windows has methods, properties & object. ex `setTimeout()` or `setInterval()` are the method where as Document is object window screen object with properties describing physical display.

Document

whereas DOM is the child of window object.

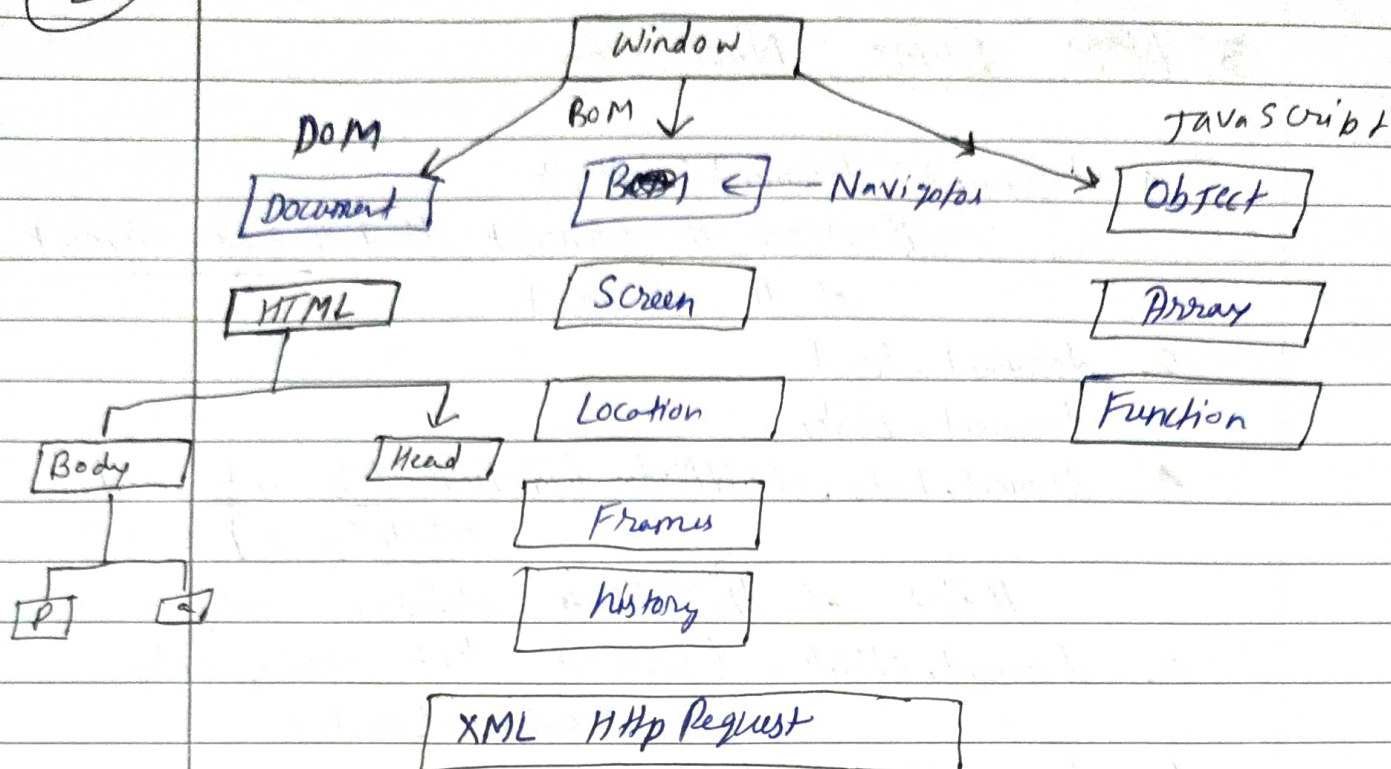
DOM we need refer the document, if we want document object, method or properties.

Document is the just the object of the global object that is window, which deal document, the HTML element themselves

BOM - Browser Object Model

___/___/___

②



DOM Vs BOM

DOM → Document Object Model, which deal with document HTML element themselves.

example —: Document and all traversal you would do in it, event etc.

example change the background color for red
`document.body.style.background = "red";`

BOM Browser Object Model, which deal browser component aside from document, — history, location, navigator and screen.

- In single meaning all the windows operation which come under BOM are performed using BOM.

3. ~~DOM~~ DOMS Navigation

1. document. documentElement

// returns the Element that is root element of the document.

2. document. head

3. document. body

4. document. body. childNodes (include tab, enter and white space) \Rightarrow text

// list of the direct children only

5. document. children (Without text nodes, only regular Elements)

6. document. childNodes.length



10 previous history (BOM)

```
<button class="button-su" onclick="goBack()">  
Go Back </button>
```

```
<script>
```

```
function goBack() {
```

```
    window.history.back();
```

```
}
```

(BOM)

Alert

```
alert(location.href);
```

```
if (confirm("Want to Visit Thapa Techin"))
```

```
{ location.href = "https://www.youtube.com/—
```

```
}
```

```
}
```

→ ask confirmation then go location go

DOM use (using javascript colon)

document

⇒ What is root element of document
document.documentElement

⇒ Head tag

document.head

⇒ Body

document.body

⇒ nodes

document.body.childNodes

⑥

★ ★ ★ practise

⇒

DOM

4) How to search the Elements and the references

⇒ `document.getElementById('heading').innerHTML`
= "Welcome to Anni";

⇒ Difference between `getElementById` and `querySelector` →
`getElementById()`

~~`element = document.getElementById(id);`~~

- Return a reference to the element by its ID.
- If the element with specified ID is not in the document, it will return null.

Syntax

`element = document.getElementById(id);`

`querySelector()`?

Return the first element within the document that matches the specified group of selectors, or null if no matches are found.